

Revised - Academic Calendar VTU, Belagavi for ODD Semester of 2016-2017 (Aug 2016 - Jan 2017)

	III, V & VII Sem B.E/B.Tech III, V, VII & IX Sem B.Arch	III & V Sem MCA	III Sem MBA	III Sem M.Tech	III Sem M.Arch.	I Sem B.E/B.Tech/ B.Arch	I Sem MCA	I Sem MBA	I Sem M.Tech.	I Sem M.Arch.
Commencement of ODD Semester	01.08.2016	01.08.2016	01.08.2016	01.08.2016 [Internship of 16 Weeks]	26.08.2016	01.08.2016	01.09.2016	01.09.2016	<u>01.09.2016</u>	01.09.2016
Last Working day of ODD Semester	*26.11.2016	*26.11.2016	*26.11.2016	*26.11.2016	29.12.2016	*26.11.2016	21.12.2016	21.12.2016	<u>21.12.2016</u>	04.01.2017
Practical Examination	*01.12.2016 To 10.12.2016	*01.12.2016 To 09.12.2016	-	-	-	*01.12.2016 To 10.12.2016	26.12.2016 To 31.12.2016	-	26.12.2016 To 28.12.2016	-
Theory Examinations	*14.12.2016 To 13.01.2017	*14.12.2016 To 28.12.2016	*01.12.2016 To 30.12.2016	02.12.2016 To 20.12.2016 [Theory examination of arrear Subjects]	02.01.2017 To 14.01.2017	*14.12.2016 To 10.01.2017	02.01.2017 To 13.01.2017	26.12.2016 To 10.01.2017	30.12.2016 To 12.01.2017	09.01.2017 To 20.01.2017
Internship/ Project Work	-	-	*02.01.2017 To 10.03.2017 [Submission report to VTU by 10.04.2017]	-	01.07.2016 To 25.08.2016 [Professional Training]	-	-	-	-	-
Commencement of EVEN Semester	02.02.2017	02.02.2017	16.02.2017	26.12.2016	02.02.2017	02.02.2017	02.02.2017	02.02.2017	02.02.2017	02.02.2017

Note: In Above Table * : Indicates Revised Schedule

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time

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Revised - Academic Calendar of VTU, Belagavi for EVEN Semester of 2016-2017 (Feb 2017—July 2017)

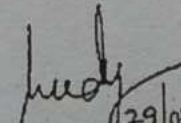
	II, IV & VI Sem B.E/B.Tech II, IV, VI, VIII Sem B.Arch	VIII Sem BE/B.Tech & X Sem B.Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M.Tech	IV Sem M.Arch	II Sem MCA	II Sem MBA	II Sem M.Tech	II Sem M.Arch
Commencement of EVEN Semester	13.02.2017	13.02.2017	13.02.2017	13.02.2017	13.03.2017	02.02.2017	13.02.2017	13.02.2017	13.02.2017	13.02.2017	13.02.2017
Last Working day of EVEN Semester	02.06.2017	02.06.2017	02.06.2017	02.06.2017	30.06.2017	22.05.2017	13.06.2017	02.06.2017	02.06.2017	02.06.2017	16.06.2017
Practical Examination	17.07.2017 To 26.07.2017		13.07.2017 To 19.07.2017					13.07.2017 To 19.07.2017		13.07.2017 To 19.07.2017	
Theory Examinations	16.06.2017 To 15.07.2017	05.06.2017 To 16.06.2017	27.06.2017 To 10.07.2017		03.07.2017 To 29.07.2017	05.07.2017 To 10.07.2017		27.06.2017 To 10.07.2017	27.06.2017 To 10.07.2017	27.06.2017 To 10.07.2017	27.06.2017 To 10.07.2017
Viva Voce		19.06.2017 To 24.06.2017									
Summer Project / Professional Training				05.06.2017 To 17.06.2017 (Submission of Report to VTU)	02.05.2017 To 16.05.2017 (Submission of Report to VTU)	24.05.2017 To 09.06.2017 (Submission of Report to VTU)					
Commencement of ODD Semester	07.08.2017		07.08.2017					07.08.2017	07.08.2017	07.08.2017 [Internship of 16 Weeks]	07.08.2017

- College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
- The faculty/staff shall be available to undertake any work assigned by the university
- If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
- Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time

Academic Calendar of VTU, Belagavi for ODD Semester of 2017-2018 (Aug 2017 – Jan 2018)

	III, V & VII Sem B.E/B.Tech III, V, VII & IX Sem B.Arch	I Sem B.E/B.Tech/ B.Arch	III & V Sem MCA	III Sem MBA	III Sem M.Tech	III Sem M.Arch.
Commencement of ODD Semester	07.08.2017	07.08.2017	07.08.2017	21.08.2017	07.08.2017 [Internship of 16 Weeks]	11.09.2017
Last Working day of ODD Semester	25.11.2017	25.11.2017	25.11.2017	09.12.2017	25.11.2017	13.01.2018
Practical Examination	29.11.2017 To 08.12.2017	29.11.2017 To 08.12.2017	29.11.2017 To 08.12.2017	-	-	-
Theory Examinations	11.12.2017 To 10.01.2018	11.12.2017 To 30.12.2017	11.12.2017 To 30.12.2017	13.12.2017 To 10.01.2018	12.12.2017 To 30.12.2017 (Arrear subjects)	15.01.2018 To 27.01.2018
Summer Project / Professional training	-	-	-	15.01.2018 To 24.03.2018 [Submission report to VTU by 24.04.2018]	-	17.07.2017 To 09.09.2017 (Professional training)
Commencement of EVEN Semester	01.02.2018	01.02.2018	01.02.2018	26.03.2018	08.01.2018	01.02.2018

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- 2 The faculty/staff shall be available to undertake any work assigned by the university.
- 3 If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day
- 4 Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time


29/07/17
REGISTRAR

Revised - Academic Calendar of VTU, Belagavi for EVEN Semester of 2017-2018 (Feb 2018 – July 2018)

	II, IV & VI Sem B.E/B.Tech II, IV, VI, VIII Sem B.Arch	VIII Sem BE / B.Tech & X Sem B.Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M.Tech	IV Sem M.Arch	II Sem MCA	II Sem MBA	II Sem M.Tech	II Sem M.Arch
Commencement of EVEN Semester	05.02.2018	05.02.2018	05.02.2018	05.02.2018	26.03.2018	03.01.2018	05.02.2018	17.02.2018	10.02.2018	17.02.2018	23.02.2018
Last Working day of EVEN Semester	26.05.2018	26.05.2018	26.05.2018	26.05.2018	13.07.2018	28.04.2018	09.06.2018	08.05.2018	31.05.2018	08.06.2018	28.06.2018
Practical Examination	28.05.2018 To 07.06.2018	-	28.05.2018 To 02.06.2018	-	-	-	-	11.05.2018 To 16.06.2018	-	11.06.2018 To 16.06.2018	-
Theory Examinations	11.06.2018 To 14.07.2018	28.05.2018 To 08.06.2018	04.06.2018 To 20.06.2018	-	16.07.2018 To 08.08.2018	28.05.2018 To 02.06.2018	-	18.06.2018 To 30.06.2018	04.06.2018 To 18.06.2018	18.06.2018 To 30.06.2018	02.07.2018 To 12.07.2018
Viva Voce	-	11.06.2018 To 16.06.2018	-	-	-	-	-	-	-	-	-
Summer Project / Professional Training	-	-	-	28.05.2018 To 08.06.2018 [Submission of Report to VTU]	15.05.2018 To 30.05.2018 [Submission of Report to VTU]	02.05.2018 To 19.05.2018 [Submission of Report to VTU]	-	-	* 25.06.2018 To 21.07.2018 [Internship]	-	-
Commencement of ODD Semester	01.08.2018	-	01.08.2018	-	-	-	-	01.08.2018	01.08.2018	01.08.2018 [Internship of 16 Weeks]	01.08.2018

In the above table * Mark indicates Internship for MBA

- College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
- The faculty/staff shall be available to undertake any work assigned by the university.
- If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
- Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time

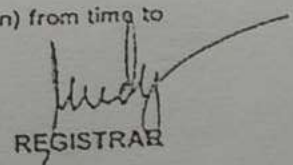
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REGISTRAR

Visvesvaraya Technological University Belagavi
Academic Calendar for ODD Semester of 2018-2019 (Aug 2018 – Jan 2019)

	I Sem B.E/B.Tech/ B.Arch	III, V Sem B.E/B.Tech III, V VII, & IX Sem B.Arch	VII Sem B.E / B.Tech	III & V Sem MCA	III Sem MBA	III Sem M.Tech	III Sem M.Arch.
Commencement of ODD Semester	13.08.2018	01.08.2018	06.08.2018	01.08.2018	01.08.2018	01.08.2018 [Internship of 16 Weeks]	10.09.2018
Last Working day of ODD Semester	17.01.2019 [Includes 3 Weeks Induction Program]	30.11.2018	04.12.2018	30.11.2018	30.11.2018	30.11.2018	05.01.2019
Practical Examination	21.01.2019 To 30.01.2019	03.12.2018 To 14.12.2018	06.12.2018 To 14.12.2018	03.12.2018 To 07.12.2018	-	-	-
Theory Examinations	04.02.2019 To 18.02.2019	17.12.2018 To 18.01.2019	17.12.2018 To 18.01.2019	10.12.2018 To 28.12.2018	05.12.2018 To 29.12.2018	05.12.2018 To 22.12.2018	09.01.2019 To 22.01.2019
Summer Project / Professional training	-	-	-	-	03.01.2019 To 16.02.2019 [Submission of report to VTU by 08.03.2019]	-	23.07.2018 To 07.09.2018 [Professional training]
Commencement of EVEN Semester	25.02.2019	01.02.2019	01.02.2019	01.02.2019	18.02.2019	28.12.2018	01.02.2019

NOTE.

- VII Semester B.E / B.Tech students shall have to undergo Internship for a period of four Weeks.
 - I Semester B.E/ B.Tech / B.Arch Students shall compulsorily undergo Induction Program for a period of 3 Weeks as per the schedule given by VTU.
1. The faculty/staff shall be available to undertake any work assigned by the university.
 2. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
 3. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time.

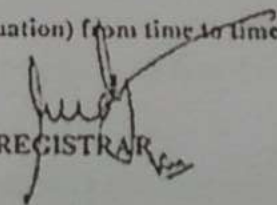

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Academic Calendar of VTU, Belagavi for EVEN Semester of 2018-2019 (Feb 2019 – July 2019)

	II Sem B. E. / B. Tech. / B. Arch	IV & VI Sem B. E. /B. Tech. IV, VI, VIII Sem B. Arch.	VIII Sem B.E / B.Tech & X Sem B. Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M. Tech.	IV Sem M. Arch.	II Sem M. Tech.	II Sem MCA	II Sem MBA	II Sem M. Arch.
Commencement of EVEN Semester	25.02.2019	01.02.2019	01.02.2019	01.02.2019	01.02.2019	18.02.2019	28.12.2018	01.02.2019	01.03.2019	01.03.2019	25.02.2019	25.02.2019
Last Working day of EVEN Semester	17.06.2019	23.05.2019	23.05.2019	18.05.2019	18.05.2019	01.06.2019	13.04.2019	18.05.2019	21.06.2019	21.06.2019	17.06.2019	17.06.2019
Practical Examination	19.06.2019 To 29.06.2019	27.05.2019 To 07.06.2019	-	21.05.2019 To 25.05.2019	-	-	-	-	24.06.2019 To 29.06.2019	24.06.2019 To 29.06.2019	-	-
Theory Examinations	01.07.2019 To 16.07.2019	10.06.2019 To 16.07.2019	27.05.2019 To 07.06.2019	27.05.2019 To 15.06.2019	-	03.06.2019 To 28.06.2019	27.05.2019 To 31.05.2019	-	01.07.2019 To 12.07.2019	01.07.2019 To 12.07.2019	20.06.2019 To 04.07.2019	20.06.2019 To 04.07.2019
Viva Voce	-	-	11.06.2019 To 17.06.2019	-	-	-	-	-	-	-	-	-
Summer Project / Professional training /	-	-	-	-	20.05.2019 To 29.05.2019 [Submission of report to VIT]	01.04.2019 To 15.04.2019 [Submission of report to VTU]	03.06.2019 To 18.06.2019 [Submission of report to VTU]	-	-	-	-	-
Commencement of ODD Semester	22.07.2019	22.07.2019	-	22.07.2019	-	-	-	-	22.07.2019	22.07.2019	22.07.2019	22.07.2019

NOTE

- College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
- The faculty/staff shall be available to undertake any work assigned by the university.
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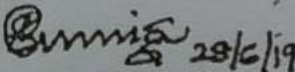
Academic Calendar of VTU, Belagavi for ODD Semester of 2019-2020 (Jul 2019 – Jan 2020)

	I Sem B. E. / B. Tech. / B. Arch. (Tentative)	III, V & VII Sem B. E. /B. Tech. III, V, VII & IX Sem B. Arch.	III & V Sem MCA	III Sem MBA	III Sem M. Tech.	III Sem M. Arch.
Commencement of ODD Semester	01.08.2019	29.07.2019	29.07.2019	08.08.2019	26.08.2019	08.09.2019
Last Working day of ODD Semester	29.11.2019	30.11.2019	30.11.2019	05.12.2019	23.12.2019	06.01.2020
Practical Examinations	03.12.2019 To 13.12.2019	03.12.2019 To 13.12.2019	03.12.2019 To 07.12.2019	-	-	-
Theory Examinations	16.12.2019 To 04.01.2020	16.12.2019 To 07.02.2020	09.12.2019 To 28.12.2019	09.12.2019 To 04.01.2020	27.12.2019 To 10.01.2020	08.01.2020 To 22.01.2020
Internship Viva-Voce	-	-	-	-	12.01.2020 To 19.01.2020	-
Professional training / Organization study	-	-	-	-	-	-
Commencement of EVEN Semester	27.01.2020	10.02.2020	27.01.2020	27.01.2020	27.01.2020	01.02.2020

NOTE

- VII Semester B. E / B. Tech students shall have to undergo Internship for a period of four Weeks.
- I Semester B. E/ B. Tech / B. Arch Students shall compulsorily undergo Induction Program for a period of 3 Weeks (two phases) as per the schedule given by VTU. First phase 11 days in first semester and second phase 10 days in second semester.

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time.


 REGISTRAR

Academic Calendar of VTU, Belagavi for EVEN Semester of 2019-2020 (Jan 2020 – July 2020)

	II Sem B. E. / B. Tech. / B. Arch	IV & VI Sem B. E. /B. Tech. IV, VI&VIII Sem B. Arch.	VIII Sem B.E / B.Tech & X Sem B. Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M. Tech.	IV Sem M. Arch.	II Sem M. Tech.	II Sem MCA	II Sem MBA	II Sem M. Arch.
Commencement of EVEN Semester	10.02.2020	10.02.2020	10.02.2020	27.01.2020	27.01.2020	10.02.2020	27.01.2020	27.01.2020	05.03.2020	05.03.2020	14.02.2020	14.02.2020
Last Working day of EVEN Semester	01.06.2020	01.06.2020	01.06.2020	20.05.2020	20.05.2020	01.06.2020	20.05.2020	20.05.2020	22.06.2020	22.06.2020	05.06.2020	05.06.2020
Practical Examination	03.06.2020 To 13.06.2020	03.06.2020 To 13.06.2020	-	26.05.2020 To 30.05.2020	-	-	-	-	25.06.2020 To 30.06.2020	25.06.2020 To 30.06.2020	-	-
Theory Examinations	15.06.2020 To 04.07.2020	15.06.2020 To 20.07.2020	03.06.2020 To 11.06.2020	03.06.2020 To 18.06.2020	-	03.06.2020 To 28.06.2020	03.06.2020 To 10.06.2020	-	01.07.2020 To 11.07.2020	01.07.2020 To 11.07.2020	08.06.2020 To 20.06.2020	09.06.2020 To 20.06.2020
Viva Voce	-	-	15.06.2020 To 20.06.2020	-	-	-	-	-	-	-	-	-
Summer Project / Professional training	-	-	-	-	22.05.2020 To 30.05.2020 (Submission of report to VTU)	01.04.2020 To 15.04.2020 (Submission of report to VTU)	12.06.2020 To 25.06.2020 (Submission of report to VTU)	-	13.07.2020 To 31.07.2020	-	23.06.2020 To 21.07.2020	01.07.2020 To 25.08.2020
Commencement of ODD Semester	27.07.2020	27.07.2020	27.07.2020	27.07.2020	-	-	-	-	03.08.2020	27.07.2020	27.07.2020	28.08.2020

NOTE

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2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time.

10.1.2020
REGISTRAR

Revised Academic Calendar of VTU, Belagavi for ODD Semester of 2020-21 (Tentative)

	1 Sem B. E. / B. Tech. / B. Arch./B.Plan	1 sem M.Tech./MBA /MCA/M.Arch.	III, V & VII Sem B. E. /B. Tech./B.Plan/ B.Arch & IX Sem B. Arch.	III & V Sem MCA	III Sem MBA	III Sem M. Tech.	III Sem M. Arch.
Commencement of ODD Semester			01.09.2020	01.09.2020	01.09.2020	01.09.2020	01.09.2020
Last Working day of ODD Semester			16.01.2021	16.01.2021	16.01.2021	16.01.2021	16.01.2021
Practical Examinations	Will be announced later	Will be announced later	21.01.2021 To	21.01.2021 To	--	21.01.2021 To	--
			02.02.2021	27.01.2021		27.01.2021	
Theory Examinations	Will be announced later	Will be announced later	08.02.2021 To	28.01.2021 To	21.01.2021 To	28.01.2021 To	21.01.2021 To
			25.03.2021	10.02.2021	17.02.2021	10.02.2021	06.02.2021
Internship Viva- Voce			--	--	--	11.02.2021 To 18.02.2021	--
Professional training / Organization study			--	--	--	--	--
Commencement of EVEN Semester			26.03.2021	11.02.2021	18.02.2021	19.02.2021	08.02.2021

NOTE

- VII Semester B. E / B. Tech students shall have to undergo Internship as per circular of University VTU/Aca/2019-20/85, dated 12.05.2020.
- The classroom sessions for all the higher semesters would be in ONLINE/OFFLINE/BLENDED as per the order issued by UGC/Govt. of Karnataka until further orders.
- The institute needs to function for six days a week with additional hours (Saturday is a full working day)
- The faculty/staff shall be available to undertake any work assigned by the university.
- If any of the above dates are declared to be a holiday then the corresponding event will come into effect on the next working day.
- Notification regarding Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Revised Academic Calendar is also applicable for Autonomous Colleges.

24-11-2020
REGISTRAR



Revised-Academic Calendar of EVEN semester of UG Programmes for 2020-2021

Semesters	IV semester B.E./B.Tech.	IV semester B.Arch./ B.Plan.	VI semester B.E./B.Tech.	VI semester B.Plan./B.Arch	VIII semester B.E./B.Tech.	VIII semester B.Plan.	VIII semester B.Arch
EVENTS							
Commencement of EVEN Semester	19.04.2021	19.04.2021	19.04.2021	19.04.2021	19.04.2021	19.04.2021	19.04.2021
Last Working day of EVEN Semester	07.08.2021	07.08.2021	07.08.2021	07.08.2021	#20.07.2021	#20.07.2021	07.08.2021
Practical Examinations	09.08.2021 To 19.08.2021	09.08.2021 To 19.08.2021	09.08.2021 To 19.08.2021	---	---	---	---
Theory Examinations	23.08.2021 To 09.09.2021	23.08.2021 To 09.09.2021	23.08.2021 To 09.09.2021	10.08.2021 To 31.08.2021	22.07.2021 To 30.07.2021	22.07.2021 To 30.07.2021	10.08.2021 To 17.08.2021
Internship	---	---	---	---	---	---	---
Internship Viva-Voce/ Project Viva-Voce	---	---	---	---	02.08.2021 To 06.08.2021	---	---
Professional training / Organization study	---	---	---	---	---	---	---
Commencement of ODD Semester	13.09.2021	13.09.2021	13.09.2021	13.09.2021	---	---	23.08.2021

- The classroom sessions for even the semester should commence from the dates mentioned above.
- The Institute needs to function for **six days** a week with additional hours (**Saturday is a full working day**). #if required the college can plan to have extra classes even on Sundays also.
- If any of the above dates are declared to be a holiday then the corresponding event will come into effect on the next working day.
- Notification regarding the Calendar of Events relating to the conduct of **University Examinations** will be issued by the Registrar (Evaluation) from time to time.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Revised Academic Calendar is also applicable for **Autonomous Colleges**. In case if any changes are to be affected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.

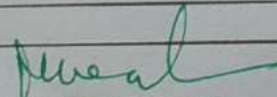
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REGISTRAR

ACS COLLEGE OF ENGINEERING

Calendar of Events for Odd semesters(2016-17)

From 01/08/2016 To 26 /11/2016

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG	1	2	3	4	5	6	6	
2	AUG	8	9	10	11	12	13	5	13-Second Saturday
3	AUG	15	16	17	18	19	20	5	15 - Independence Day
4	AUG	22	23	24	25	26	27	6	
5	AUG-SEP	29	30	31	1	2	3	6	
6	SEP	5	6	7	8	9	10	4	5-Ganesh Chaturthi 10 - Second Saturday
7	SEP	12	13	14	15	16	17	5	12 - Bakrid, 14 to 16 - Internal Test I 17- PTM
8	SEP	19	20	21	22	23	24	6	
9	SEP-OCT	26	27	28	29	30	1	5	30-Mahalaya Amavas
10	OCT	3	4	5	6	7	8	6	
11	OCT	10	11	12	13	14	15	2	10 - Ayutha Pooja ; 11-Vijayadasami ; 12- Moharam ; 15 - Valmiki Jayanthi; 13,14,17 - Internal Test II
12	OCT	17	18	19	20	21	22	6	
13	OCT	24	25	26	27	28	29	5	29- Naraka Chaturthi
14	OCT-NOV	31	1	2	3	4	5	4	31- Bali Padyami ; 1-Rajyotsava
15	NOV	7	8	9	10	11	12	5	12- Second Saturday
16	NOV	14	15	16	17	18	19	5	17- Kanakadasa Jayanthi
17	NOV	21	22	23	24	25	26	6	24,25,26 - Internal Test III
Total Number of working Days								87	
Last working day of Odd semester : 26/11/2016									
UG-Practical Examinations : 1/12/2016 - 10/12/2016									
UG-Theory Examinations : 14/12/2016 - 13/01/2017									
Comencement of Even SEM : 2/2/2017									


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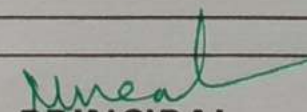
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Bangalore - 560 074

ACS COLLEGE OF ENGINEERING

Calender of Events for Even semesters(2016-17)

From 13/02/2017 To 2/06/2017

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB	13	14	15	16	17	18	6	
2	FEB	20	21	22	23	24	25	5	24- Mahashivrathri (H)
3	FEB-MAR	27	28	1	2	3	4	6	
4	MAR	6	7	8	9	10	11	5	11- Second Saturday (H)
5	MAR	13	14	15	16	17	18	5	13 - Holi (H) 16,17,18 - I Internal Test
6	MAR	20	21	22	23	24	25	6	24,25 - Sports Day
7	MAR-APR	27	28	29	30	31	1	5	29- Ugadi (H)
8	APR	3	4	5	6	7	8	5	8- Second Saturday
9	APR	10	11	12	13	14	15	5	14 - Ambedkar Jayanthi (H)
10	APR	17	18	19	20	21	22	6	
11	APR	24	25	26	27	28	29	5	24,25,26 - II Internal Test 29 - Basava Jayanthi
12	APR-MAY	1	2	3	4	5	6	5	1- May Day
13	MAY	8	9	10	11	12	13	5	
14	MAY	15	16	17	18	19	20	6	
15	MAY	22	23	24	25	26	27	6	22,23,24- Lab Internals 26,27- III Internal Test
16	MAY-JUN	29	30	31	1	2	3	6	29,30,31- III Internal Test
Total Number of working Days								87	
Last working day of Even semester : 2/06/17									
UG-Practical Examinations : 17/7/2017 to 26/7/2017									
UG-Theory Examinations : 16/06/2017 to 15/07/2016									
Comencement of ODD SEM : 7/8/2017									


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A.C.S. College of Engineering

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ACS COLLEGE OF ENGINEERING

Calender of Events for Odd semesters(2017-18)

From 07/08/2017 To 25 /11/2017

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG	7	8	9	10	11	12	6	
2	AUG	14	15	16	17	18	19	4	15-Independence Day / ALUMINI DAY 19- Third Saturday (H)
3	AUG	21	22	23	24	25	26	5	25 - Ganesh Chathurthi(H)
4	AUG-SEP	28	29	30	31	1	2	5	2 - Bakrid(H)
5	SEP	4	5	6	7	8	9	6	5- Graduation Day
6	SEP	11	12	13	14	15	16	5	13,14,15- I Internal Test 16- Third Saturday(H)
7	SEP	18	19	20	21	22	23	5	19- Mahalaya Amavasi
8	SEP	25	26	27	28	29	30	4	29- Durga ashtami(H) ; 30 - Vijayadasami(H)
9	OCT	2	3	4	5	6	7	3	2- Gandhi Jayanathi (H); 7 - First Saturday(H) 5 - Valmiki Jayanathi (H) ;
10	OCT	9	10	11	12	13	14	6	
11	OCT	16	17	18	19	20	21	3	18-Naraka Chathurthi (H) , 20 -Vikramsavath New Year (H); 21 - Third Saturday (H)
12	OCT	23	24	25	26	27	28	6	28- II Internal Test
13	OCT-NOV	30	31	1	2	3	4	4	30,31 - II Internal Test ; 4 - First Saturday(H) 1 - Kannada Rajathsova (H)
14	NOV	6	7	8	9	10	11	5	6 - Kanakadasa Jayanathi(H)
15	NOV	13	14	15	16	17	18	5	18-Third Saturday (H)
16	NOV	20	21	22	23	24	25	6	20,21,22 - III Internal Test
17	NOV	27	28	29	30				
18									
19									
20									
Total Number of working Days								78	
Last working day of Odd semester : 25/11/2017									
UG-Practical Examinations : 29/11/2017 to 8/12/2017									
UG-Theory Examinations : 11/12/2017 to 10/1/2017									
Comencement of Even SEM : 1/2/2018									


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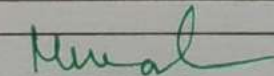
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Banalore - 560 074

ACS COLLEGE OF ENGINEERING

Calender of Events for Even semester (2017-18)

From 05/02/2018 To 26 /05/2018

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities	
1	FEB	5	6	7	8	9	10	5	10 - Second Saturday(H)	
2	FEB	12	13	14	15	16	17	5	13-Mahasivarathri (H)	
3	FEB	19	20	21	22	23	24	6		
4	FEB-MAR	26	27	28	1	2	3	5	3- First Saturday (H)	
5	MAR	5	6	7	8	9	10	6	8- Womens Day	
6	MAR	12	13	14	15	16	17	5	17-Third Saturday(H)	
7	MAR	19	20	21	22	23	24	6	19,20,21 - I Internal Test	
8	MAR	26	27	28	29	30	31	3	29-Mahaveer Jayanti (H); 31 - Link Holiday	30 - Good Friday(H) ;
9	APR	2	3	4	5	6	7	6	5,6,7 - Sports Day	
10	APR	9	10	11	12	13	14	5	14 - Ambedkar Jayanthi(H)	
11	APR	16	17	18	19	20	21	4	18 - Basava Jayanthi (H)	
12	APR	23	24	25	26	27	28	6	26,27 - Cultural Day	
13	APR-MAY	30	1	2	3	4	5	5	1- May Day (H)	2,3,4 - II Internal Test
14	MAY	7	8	9	10	11	12	5	12-Karnataka Election	
15	MAY	14	15	16	17	18	19	5	19 - Third Saturday (H)	
16	MAY	21	22	23	24	25	26	6	21,22,23 - III Internal Test	
17	MAY	28	29	30	31					
18										
19										
20										
Total Number of working Days								83		
Last working day of Odd semester : 26/05/2021										
UG-Practical Examinations : 28/05/2018 to 7/06/2018										
UG-Theory Examinations : 11/06/2018 to 14/06/2018										
Comencement of ODD SEM :1/08/2018										


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A.C.S. College of Engineering
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ACS COLLEGE OF ENGINEERING

Calender of Events for Odd semester (2018-19)

From 1/08/2018 To 30/11/2018

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG			1	2	3	4	3	4-First Saturday(h)
2	AUG	6	7	8	9	10	11	6	
3	AUG	13	14	15	16	17	18	4	15- Independence Day(h) ; 18 - Third Saturday(h)
4	AUG	20	21	22	23	24	25	5	22- Bakrid(h)
5	AUG-SEP	27	28	29	31	31	1	5	31-Graduation Day ; 1 - First Saturday (h)
6	SEP	3	4	5	6	7	8	6	8- I Internal Test
7	SEP	10	11	12	13	14	15	4	10,11,12- I Internal Test ; Chathurthi (H); 13 - Ganesh 15-Third Saturday(H)
8	SEP	17	18	19	20	21	22	5	21-Muharam (H)
9	SEP	24	25	26	27	28	29	6	
10	OCT	1	2	3	4	5	6	4	2- Gandhi Jayanthi (H); 6 - First Saturday(h)
11	OCT	8	9	10	11	12	13	5	8-- Mahalaya Amavasya(H)
12	OCT	15	16	17	18	19	20	3	18,19 - Ayudha Pooja(H); 20 - Third Saturday(H)
13	OCT	22	23	24	25	26	27	5	24- Valmiki Jayanthi (H); 25,26,27- II Internal Test
14	OCT-NOV	29	30	31	1	2	3	4	1-Rajyotsava Day (H); 3 - First Saturday (H)
15	NOV	5	6	7	8	9	10	4	6- Naraka Chathurthi(H) ; 8 - Balipadyami(H)
16	NOV	12	13	14	15	16	17	5	17- Third Saturday (H)
17	NOV	19	20	21	22	23	24	5	21- ID Meelad (H)
18	NOV	26	27	28	29	30		4	26-Kanakadasa Jayanthi (H); 27,28,29 - III Internal Test
19									
20									
Total Number of working Days								83	
Last working day of Odd semester : 30/11/2018									
UG-Practical Examinations : 3/12/2018 to 14/12/2018									
UG-Theory Examinations : 17/12/2018 to 18/12/2018									
Comencement of Even SEM :1/2/2019									

(Signature)

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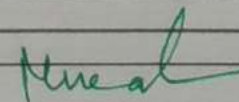
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ACS COLLEGE OF ENGINEERING

Calender of Events for EVEN semester (2018-19)

From 01/02/2019 To 23 /05/2019

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB					1	2	1	2-First Saturday (H)
2	FEB	4	5	6	7	8	9	6	
3	FEB	11	12	13	14	15	16	5	16 - Third Saturday (H)
4	FEB	18	19	20	21	22	23	5	19-Guru Ravidasa Jayanti (H)
5	FEB-MAR	25	26	27	28	1	2	5	2-First Saturday (H)
6	MAR	4	5	6	7	8	9	5	4-Mahashivarathri (H)
7	MAR	11	12	13	14	15	16	5	11,12,13 - I Internal Test ; 16 - Third Saturday(H)
8	MAR	18	19	20	21	22	23	6	22,23 - Sports Day
9	MAR	25	26	27	28	29	30	6	
10	APR	1	2	3	4	5	6	5	6- First Saturday (H)
11	APR	8	9	10	11	12	13	6	10,11,12,13- II Internal Test
12	APR	15	16	17	18	19	20	3	15,16 - Cultural Day ; 19- Good Friday(H) 17 - Mahaveer Jayanthi(h) 20 - Third Saturday(H)
13	APR	22	23	24	25	26	27	6	
14	APR-MAY	29	30	1	2	3	4	4	1-May Day(H); 4- First Saturday(H)
15	MAY	6	7	8	9	10	11	5	7- Basava Jayanthi(H);
16	MAY	13	14	15	16	17	18	5	15,16,17 - III Internal Test ; 18 -Third Saturday(h)
17	MAY	20	21	22	23	24	25	4	
18									
19									
20									
Total Number of working Days								82	
Last working day of Even semester : 23/05/2019									
UG-Practical Examinations : 27/05/2019									
UG-Theory Examinations : 10/06/2019 to 16/07/2019									
Comencement of ODD SEM : 22/07/2019									



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A.C.S. College of Engineering
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ACS COLLEGE OF ENGINEERING

Calendar of Events for ODD semester (2019-2020)

From 01/08/2019 To 29 /11/2019

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG				1	2	3	2	3- First Saturday(H)
2	AUG	5	6	7	8	9	10	6	
3	AUG	12	13	14	15	16	17	3	12-Bakrid (H); 15- Independence Day(H) ; 17 - Third Saturday(H)
4	AUG	19	20	21	22	23	24	6	
5	AUG	26	27	28	29	30	31	6	
6	SEP	2	3	4	5	6	7	5	2- Ganesh Chathurthi (H) ; 4,5,6 - I Internal Test
7	SEP	9	10	11	12	13	14	6	10 - Muharam (H)
8	SEP	16	17	18	19	20	21	5	21-Third Saturday (H)
9	SEP	23	24	25	26	27	28	5	28-Mahalaya Amavasi(H)
10	SEP-OCT	30	1	2	3	4	5	4	2- Gandhi Jayanthi (H); 5- First Saturday(H)
11	OCT	7	8	9	10	11	12	4	7,8 :-Ayutha Pooja (H)
12	OCT	14	15	16	17	18	19	6	
13	OCT	21	22	23	24	25	26	6	24,25,26 - II Internal Test
14	OCT-NOV	28	29	30	31	1	2	3	29- Balipadyami; 1- Rajyotsava Day, 2 - First Saturday
15	NOV	4	5	6	7	8	9	6	
16	NOV	11	12	13	14	15	16	4	15- Kanakadasa Jayanthi ; 16 - Third Saturday
17	NOV	18	19	20	21	22	23	6	
18	NOV	25	26	27	28	29	30	6	27,28,29 - III Internal Test
19									
20									
Total Number of working Days								89	
Last working day of Odd semester : 30/11/2019									
UG-Practical Examinations : 03/12/2019-13/12/2019									
UG-Theory Examinations : 6/12/2019-7/2/2020									
Comencement of Even SEM :10/2/2020									

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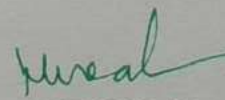
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ACS COLLEGE OF ENGINEERING

Calendar of Events for EVEN semesters(2019-20)

From 10/02/2020 To 1/06/2020

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB	10	11	12	13	14	15		15-Third Saturday (H)
2	FEB	17	18	19	20	21	22		21- Mahashivarathri(H)
3	FEB	24	25	26	27	28	29		
4	MAR	2	3	4	5	6	7		7- First Saturday (H)
5	MAR	9	10	11	12	13	14		12,13,14 - I Internal Test
6	MAR	16	17	18	19	20	21		21- Third Saturday(H)
7	MAR	23	24	25	26	27	28		25-Ugadi(H) ; 27,28 - Sports Day
8	MAR-APR	30	31	1	2	3	4		4- First Saturday(H)
9	APR	6	7	8	9	10	11		6- Mahavira Jayanthi (H) ; 10- Good Friday(H); 11-II Internal Test
10	APR	13	14	15	16	17	18		13,15 -II Internal Test; 14 - Ambedkar Jayanti, 18-Third Saturday
11	APR	20	21	22	23	24	25		
12	APR-MAY	27	28	29	30	1	2		1-May Day ,2 -First Saturday
13	MAY	4	5	6	7	8	9		8,9 - Cultural Day
14	MAY	11	12	13	14	15	16		16- Third Saturday
15	MAY	18	19	20	21	22	23		21,22,23 - III Internal Test
16	MAY	25	26	27	28	29	30		25 - Ramzan ; 26,27,28 - Lab Internal Test
17	JUN	1	2	3	4	5	6		
18									
19									
20									
Total Number of working Days								0	
Last working day of Even semester : 1/06/2020									
UG-Practical Examinations : 3/06/2020 to 13/06/2020									
UG-Theory Examinations : 15/06/2020 to 20/07/2020									
Comencement of ODD SEM : 27/7/2020									



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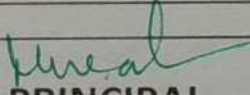
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ACS COLLEGE OF ENGINEERING

Calendar of Events for Odd semesters(2020-2021)

From 01/09/2020 To 16 /01/2021

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	SEP		1	2	3	4	5	5	
2	SEP	7	8	9	10	11	12	6	
3	SEP	14	15	16	17	18	19	5	17th Mahalaya Amavase
4	SEP	21	22	23	24	25	26	5	26th-Saturday holiday
5	SEP/OCT	28	29	30	1	2	3	5	02-Gandhi Jayanthi
6	OCT	5	6	7	8	9	10	6	
7	OCT	12	13	14	15	16	17	6	15th,16th&17th First IA
8	OCT	19	20	21	22	23	24	5	19th,20th,21st-First IA 23rd-dasara holiday
9	OCT	26	27	28	29	30	31	5	26th-Dasara Holiday
10	NOV	2	3	4	5	6	7	6	
11	NOV	9	10	11	12	13	14	6	
12	NOV	16	17	18	19	20	21	5	16th-Diwali holiday
13	NOV	23	24	25	26	27	28	6	
14	NOV/DEC	30	1	2	3	4	5	5	3rd-kanakadasa jayanthi,30thnov,1st-5th dec -Second IA
15	DEC	7	8	9	10	11	12	5	12th -Saturday holiday
16	DEC	14	15	16	17	18	19	6	
17	DEC	21	22	23	24	25	26	5	25th christmas,
18	DEC/JAN	28	29	30	31	1	2	6	29th - Webinar I
19	JAN	4	5	6	7	8	9	6	7th,8th & 9th third internals,
20	JAN	11	12	13	14	15	16	5	14th-sankranthi
Total Number of working Days								109	
Last working day of Odd semester : 16/01/2021									
UG-Practical Examinations : 21/01/2021 onwards									
UG-Theory Examinations : 8/02/2021-25/03/2021									
Comencement of Even SEM :26/03/2021									


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ACS COLLEGE OF ENGINEERING

Calender of Events for EVEN semesters(2020-2021)

From 19/04/2021 To 7/08/2021

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	APR	19	20	21	22	23	24	6	
2	APR-MAY	26	27	28	29	30	1	5	1-MAY DAY
3	MAY	3	4	5	6	7	8	6	
4	MAY	10	11	12	13	14	15	4	13- Ramzan ; 14 Basava Jayanthi
5	MAY	17	18	19	20	21	22	6	
6	MAY	24	25	26	27	28	29	6	24,25,26 : I Internal Test
7	MAY-JUN	31	1	2	3	4	5	6	
8	JUN	7	8	9	10	11	12	6	
9	JUN	14	15	16	17	18	19	6	
10	JUN	21	22	23	24	25	26	6	
11	JUN-JUL	28	29	30	1	2	3	6	
12	JUL	5	6	7	8	9	10	6	5,6,7 : II Internal Test
13	JUL	12	13	14	15	16	17	6	
14	JUL	19	20	21	22	23	24	5	20 - Bakrid
15	JUL	26	27	28	29	30	31	6	
16	AUG	2	3	4	5	6	7	6	
17	AUG	9	10	11	12	13	14	6	9,10,11 : III Internal Test
18	AUG	16	17	18	19	20	21	6	
19									
20									
Total Number of working Days								104	
Last working day of Even semester : 7/8/2021									
UG-Practical Examinations : 9/8/2021 to 19/08/2021									
UG-Theory Examinations : 23/08/2021 to 9/9/2021									
Comencement of odd SEM :13/09/2021									

ALL CLASSES ARE HELD ONLINE UNTIL FURTHER NOTICE


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A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli



ACS COLLEGE OF ENGINEERING

Kambipura, Bengaluru-560074.

DEPARTMENT OF AEROSPACE ENGINEERING

CLASS TIME TABLE 2018-19
Semester - III

Class Teacher: Madhu Kiran Reddy / Dr. S. Srinath

Room No: 407

Day/ Time	08.30 to 09.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.30	02.30 to 03.30	03.30 to 04.30
MON	17AS36	17AS33	Break	17MAT31	17AS34	Lunch Break	17AS35	17AS36	Mentoring
TUE	17MAT31	17ASL37(B1),17ASL38(B2)		17ASL37(B1),17ASL38(B2)			17AS33	17AS32	17AS34
WED	17AS35	17AS32		17AS34	17MAT31		17AS36	17AS35	SEMINAR
THU	17AS33	17ASL37(B2),17ASL38(B1)		17ASL37(B2),17ASL38(B1)			17MAT31	17AS32	17AS36
FRI	17AS32	17AS33		17AS34	17AS35		17MAT31	17KL/CPH3 9/49	LIBRARY
SAT	17AS34	17AS35		17AS36	17AS33		17AS32	17KL/CPH3 9/49	Content Beyond Syllabus

Sub Code	Name of the Subject	Initials	Name of the Faculty
17MAT31	Engineering Mathematics III	KR	K. Raghavendra
17AS32	Introduction to Aerospace Engineering	PRM	Dr. R. Mukesh ✓
17AS33	Aero Thermodynamics	SS	Dr. S. Srinath
17AS34	Mechanics of Materials	MKR	Madhu Kiran Reddy
17AE35	Mechanics of Fluids	SS	Dr. S. Srinath
17AS36	Aerospace Materials	MKR	Madhu Kiran Reddy ✓
17ASL37	Materials Testing and Metrology Lab	MKR	Madhu Kiran Reddy ✓
17ASL38	Fluid Mechanics Lab	SS	Dr. S. Srinath
17KL/CPH3 9/49	Kannada/ COI & PE&HR		New Faculty
	Seminar, CBS, Mentoring and Library	MKR/SS	Class Teacher

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

TTI

Coordinator

Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli
Bangalore-560 074



ACS COLLEGE OF ENGINEERING

Kambipura, Bengaluru-560074.

DEPARTMENT OF AEROSPACE ENGINEERING

CLASS TIME TABLE 2019-20
Semester - III

Class Teacher: C Sushmitha

Room No: 407

Day/ Time	08.30 to 09.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	18AS32	18AS35	Break	18MAT31	18AS33	Lunch Break	18AS36	18AS34	18AS35
TUE	18AS32	18CPH39		18ASL38(B1), 18ASL37(B2)	18ASL38(B1), 18ASL37(B2)		18MAT31	18AS33	18ASL38(B1),18A SL37(B2)
WED	18AS32	18MAT31		18AS34	18AS33		18AS36	18AS35	Mentoring
THU	18AS32	18ASL37(B2),18A SL38(B1)		18ASL38(B1), 18ASL37(B2)	18ASL37(B2), 18ASL38(B1)		18AS33	18AS35	18AS34
FRI	18AS32	18AS33		18CPH39	18MAT31		18AS36	SEMINAR	LIBRARY
SAT	18MAT31	18AS33		18AS34	18AS36		18AS35	18AS36	Content Beyond Syllabus

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MAT31	Engineering Mathematics - III	BHV	B. H. Veena
18AS32	Aero Thermodynamics	RSS	R. Siva Subramaniyam
18AS33	Mechanics of Materials	YD	Yamuna Devi
18AS34	Introduction to Aerospace Engineering	PRM	P. R. Mukesh
18AS35	Mechanics of Fluids	CS	C. Sushmitha
18AS36	Aerospace Materials	VS	VidyaShree
18ASL37	Measurements and Metrology Lab	USS	U Sivasathya
18ASL38	Material Testing Lab	CS	C. Sushmitha
18CPH39	Constitution of India, Professional Ethics and Cyber Law	NF	New Faculty
	Seminar, CBS, Mentoring and Library		C Sushmitha

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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ACS COLLEGE OF ENGINEERING
Kambipura, Bengaluru-560074.
DEPARTMENT OF AEROSPACE ENGINEERING

TIME TABLE - ONLINE CLASS
Semester - III

Class Teacher: C.Sushmitha

Room No: 40

Day/ Time	09.45 PM to 10.45 PM	10.45 PM to 11.00PM	11.00 PM to 12.00 PM	12.00 PM to 01.00 PM	01.00 PM to 02.00 PM	02.00 PM to 02.15 PM	02.15 PM to 03.15 PM	03.15 PM to 04.15 PM
MON	18AS33-MOM	Break	18MAT31 -TCFSN	Lunch Break	18AS34 - IAE	Break	18AS36 - AM	18ASL37
TUE	18AS32-ATD		18AS35-MOF		18AS34 - IAE		18AS36 - AM	18ASL37
WED	18AS32-ATD		18MAT31 -TCFSN		18AS35-MOF		18AS34 - IAE	18ASL37
THU	18AS33-MOM		18MAT31 -TCFSN		18AS32-ATD		18AS34 - IAE	18ASL38
FRI	18AS36 - AM		18MAT31 -TCFSN		18AS33-MOM		18AS35-MOF	18ASL38
SAT	18AS32-ATD		18AS33-MOM		18AS35-MOF		18AS36 - AM	18ASL38

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MAT31	Transform calculus Fourier series and numerical techniq	KR	Dr. K Raghavendra
18AS32	Aero-Thermodynamics	KBM	B M Kumar
18AS33	Mechanics of Materials	SRS	Mr.Srinidhi Acharya
18AS34	Introduction To Aerospace Engineering	PRM/JS	Dr. R. Mukesh / J Siva
18AS35	Mechanics of Fluids	CS	C Sushmitha
18AS36	Aerospace Materials	VSKR	VidyaShree K R
18ASL37	Measurements and Metrology Lab	RB	Dr Radhai Bhai
18ASL38	Material Testing Lab	YD	Dr Yamuna Devi
	Mentoring and Library	CS	C.Sushmitha

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ACS COLLEGE OF ENGINEERING

Kambipura, Bengaluru-560074.

DEPARTMENT OF AEROSPACE ENGINEERING

CLASS TIME TABLE 2018-19
Semester - IV

Class Teacher: Madhu Kiran Reddy / Dr. S. Srinath

Room No: 407

Day/ Time	08.30 to 09.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	17AS42	17AS44	Break	17MAT41	17AS45	Lunch Break	17AS43	17AS46	Mentoring
TUE	17MAT41	17ASL47(B1),17ASL48(B2)		17ASL47(B1),17ASL48(B2)			17AS44	17AS42	17AS45
WED	17AS45	17AS42		17AS44	17MAT41		17AS43	17AS46	SEMINAR
THU	17AS43	17ASL47(B2),17ASL38(B1)		17ASL47(B2),17ASL48(B1)			17MAT41	17AS46	17AS45
FRI	17AS42	17MAT41		17AS43	17AS45		17AS44	17KL49	LIBRARY
SAT	17AS44	17AS42		17AS45	17AS43		17AS46	17KL49	Content Beyond Syllabus

Sub Code	Name of the Subject	Initials	Name of the Faculty
17MAT41	Engineering Mathematics IV	BHV	Dr. B.H. Veena
17AS42	Aerodynamics I	MKR	Madhu Kiran Reddy
17AS43	Aerospace Structures I	MKR	Madhu Kiran Reddy
17AS44	Mechanisms and Machine Theory	SS	Dr. S. Srinath
17AS45	Heat and Mass Transfer	SS	Dr. S. Srinath
17AS46	Composite Materials	PRM	Dr. R. Mukesh
17ASL47	Manufacturing Technology Lab	SS	Dr. S. Srinath
17ASL48	Computer Aided Aircraft Drawing Lab	MKR/US	Madhu Kiran Reddy/U. Sivasathya
17KL49	Kannada		New Faculty
	Seminar, CBS, Mentoring and Library	MKR/SS	Class Teacher

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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ACS COLLEGE OF ENGINEERING

Kambipura, Bengaluru-560074.

DEPARTMENT OF AEROSPACE ENGINEERING

CLASS TIME TABLE
Semester - IV

2020

Class Teacher: Vidhyashree K R

Room No: 407

Day/ Time	08.30 to 09.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	18AS44	18AS43	Break	18AS44	18AS42	Lunch Break	18MAT41	18AS46	18AS45
TUE	18AS44	18ASL47(B1),18AS L48(B2)		18ASL47(B1),18ASL48(B2)	18AS45		18MAT41	18MAT41	
WED	18AS43	18AS46		18AS42	18AS46		18AS44	18AS42	18AS45
THU	18MAT41	18AS43		18AS45	18AS43		18ASL47(B2),18ASL48(B1)		18MATDIP41/ Dip Maths
FRI	18AS43	18AS42		18MAT41	18AS46		18KAK39/49	18AS44	18AS42
SAT	As per the College Academic Calender					As per the College Academic Calender			

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MAT41	COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHOD	MCV	M C Veena
18AS42	AERODYNAMICS - I	VSKR	VidyaShree K R
18AS43	AEROSPACE STRUCTURES-I	CS	C.Sushmitha
18AS44	MECHANISMS AND MACHINE THEORY	JS	J Siva
18AS45	INTRODUCTION TO SPACE TECHNOLOGY	JS	J Siva
18AS46	COMPOSITE MATERIALS	YD	Yamuna Devi
18ASL47	ENERGY CONVERSION & FLUID MECHANICS LAB	VSKR	VidyaShree K R
18ASL48	COMPUTER AIDED AIRCRAFT DRAWING LAB	YD	Yamuna Devi
18KVK39/ 49	VYAVAHARIKA KANNADA (KANNADA FOR COMMUNICATION)	JL	Jyotirlingayya
18KAK39/ 49	AADALITHA KANNADA (KANNADA FOR ADMINISTRATION)		
18MATDIP 41	ADDITIONAL MATHEMATICS - III	PKKT/KR	Dr Pradeep Kumar K T/K Ragavendra
	Mentoring and Library	VSKR	VidyaShree K R

Note: As per VTU regulation 85% of attendance is compulsory in each subject.
students should attend DipMat on Thursday , Friday & Saturday

Diploma

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DEPARTMENT OF AEROSPACE ENGINEERING

TIME TABLE - ONLINE CLASS

Class Teacher: J Siva

Semester - IV

Day/ Time	09.30 AM to 10.30 PM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	12.00 PM to 01.00 PM	01.00 PM to 02.00 PM	02.00 PM to 03.00 PM	03.00 PM to 04.00 PM
MON	18AS46 - SD	Break	18MAT41 - KTP	18AS43 - RI	Lunch Break	18AS44 - JS	18ASL47 -FM Lab
TUE	18AS44 - JS		18AS46 - SD	18AS42 - VSKR		18AS45 - PK	18ASL47 -EC Lab
WED	18AS45 - PK		18AS42 - VSKR	18MAT41 - KTP		18AS43 - RI	18ASL48 - CAAD Lab
THU	18MAT41 - KTP		18AS44 - JS	18AS46 - SD		18AS42 - VSKR	-
FRI	18AS44 - JS		18MAT41 - KTP	18AS43 - RI		18AS45 - PK	18ASL48 - CAAD Lab
SAT	18AS43 - RI		18AS45 - PK	18AS42 - VSKR		18AS46 - SD	-

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MAT41	COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS	KTP	Dr. Pradeep kumar K T
18AS42	AERODYNAMICS I	VSKR	VidyaShree K R
18AS43	AEROSPACE STRUCTURES - I	RI	Roohi
18AS44	MECHANISMS AND MACHINE THEORY	JS	J Siva
18AS45	INTRODUCTION TO SPACE TECHNOLOGY	PK	P Karthikeyan
18AS46	COMPOSITE MATERIALS	SD	Suresh D
18ASL47	ENERGY CONVERSION AND FLUID MECHANICS LAB	VSKR / JS	VidyaShree K R / J Siva
18ASL48	COMPUTER AIDED AIRCRAFT DRAWING	SD	Suresh D
18KVK39/49	Vyavaharika Kannada (Kannada for communication)	RJ	Dr Jyothilingaiah
18KAK39/49	Aadalitha Kannada (Kannada for Administration)	RJ	Dr Jyothilingaiah
	Mentoring and Library	JS/PK	J Siva/P Karthikeyan

J Siva
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P. Karthikeyan
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DEPARTMENT OF AEROSPACE ENGINEERING

CLASS TIME TABLE
Semester - V

2019-20

Class Teacher: Siva J

Room No: 408

Day/Time	08.30 to 09.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00	
MON	17AS52	17AS554	Break	17AS53	17AS51	Lunch Break	17AS54	17AS563	Mentoring	
TUE	17AS563	17ASL57(B1), 17ASL58(B2)		17ASL57(B1), 17ASL58(B2)			17AS53	17AS51	17AS52	
WED	17AS563	17ASL57(B2), 17ASL58(B1)		17ASL57(B2), 17ASL58(B1)			17AS554	17AS54	SEMINAR	
THU	17AS51	17AS54		17AS554	17AS52		17AS53	17AS54	Content Beyond Syllabus	
FRI	17AS53	17AS54		17AS554	17AS52		17AS563	17AS51	LIBRARY	
SAT	17AS51	17AS53		17AS52	17AS563		Aero modelling Lab/Rocket Designing			

Sub Code	Name of the Subject	Initials	Name of the Faculty
17AS51	Aerospace Structures II	CS	C.Sushmitha
17AS52	Aerospace propulsion	SJ	Siva J
17AS53	Aerodynamics - II	VS	VidyaShree
17AS54	Introduction to Space Technology	SJ	Siva J
17AS554	Aircraft electrical Systems & Instrumentation	PRM	Dr. R. Mukesh
17AS563	Introduction to Astrophysics and Space Environment	YD	Yamuna Devi
17ASL57	Aerodynamics Lab	VS	VidyaShree
17ASL58	Propulsion Lab	SJ	Siva J
	Seminar, CBS, Mentoring and Library	SJ	Class Teacher

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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ACS COLLEGE OF ENGINEERING
Kambipura, Bengaluru-560074.
DEPARTMENT OF AEROSPACE ENGINEERING

TIME TABLE - ONLINE CLASS
Semester - V

Class Teacher: VidyaShree K R

Room No: 40

Day/ Time	09.45 PM to 10.45 PM	10.45 PM to 11.00PM	11.00 PM to 12.00 PM	12.00 PM to 01.00 PM	01.00 PM to 02.00 PM	02.00 PM to 02.15 PM	02.15 PM to 03.15 PM	03.15 PM to 04.15 PM
MON	18AS51-M&E	Break	18AS53-AP	Lunch Break	18AS51-M&E	Break	18AS54- AS II	18ASL57
TUE	18AS55-ASI		18AS54- AS II		18AS52-AD		18AS53-AP	18ASL57
WED	18AS52-AD		18AS53-AP		18AS55-ASI		18AS56 - FM	18CIV59
THU	18AS55-ASI		18AS53-AP		18AS54- AS II		18AS56 - FM	18CIV59
FRI	18AS55-ASI		18AS54- AS II		18AS52-AD		18AS56 - FM	18ASL58
SAT	18AS52-AD		18AS51-M&E		18AS56 - FM		18AS51-M&E	18ASL58

Sub Code	Name of the Subject	Initials	Name of the Faculty
18AS51	Management and Entrepreneurship	DS	D.Suresh
18AS52	Aerodynamics - II	VSKR/PT	VidyaShree K R/Dr. P. Theerthamalai
18AS53	Aerospace Propulsion	JS	J Siva
18AS54	Aerospace Structures –II	CS	C.Sushmitha /Mrs U Sivasathya
18AS55	Aircraft Systems & Instrumentation	PRM	Dr. R. Mukesh
18AS56	Flight Mechanics	VSKR	VidyaShree K R
18ASL57	Aerodynamics Lab	VSKR	VidyaShree K R
18ASL58	Propulsion Lab	JS	J Siva
18CIV59	Environmental Studies	Civil	Mrs U Sivasathya
	Mentoring and Library	DS	D.Suresh

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ACS COLLEGE OF ENGINEERING
Kambipura, Bengaluru-560074.
DEPARTMENT OF AEROSPACE ENGINEERING

TIME TABLE - ONLINE CLASS

Class Teacher: VidyaShree K R

Semester - VI

Day/ Time	09.30 AM to 10.30 PM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	12.00 PM to 01.00 PM	01.00 PM to 02.00 PM	02.00 PM to 03.00 PM	03.00 PM to 04.00 PM	04.00 PM to 05.00 PM
MON	18AS63 - RI	Break	18AS61 - VSKR	18ME651 - JS	Lunch Break	18AS62 - MV	18ASL67 -AS Lab	-
TUE	18AS61 - VSKR		18AS62 - MV	18AS63 - RI		18ME651 - JS	18ASL67 -AS Lab	INTERNSHIP
WED	18AS643 - SD		18AS63 - RI	18ME651 - JS		18AS62 - MV	18ASMP68- Mini Project	
THU	18ME651 - JS		18AS61 - VSKR	18AS63 - RI		18AS643 - SD	18ASL66 - DM&A Lab	-
FRI	18AS62 - MV		18AS643 - SD	18ME651 - JS		18AS61 - VSKR	18ASL66 - DM&A Lab	-
SAT	18AS61 - VSKR		18AS643 - SD	18AS62 - MV		18AS63 - RI	18ASMP68- Mini Project	INTERNSHIP

Sub Code	Name of the Subject	Initials	Name of the Faculty
18AS61	MISSILES AND LAUNCH VEHICLES	VSKR	VidyaShree K R
18AS62	COMPUTATIONAL FLUID DYNAMICS	MV	M Vijay
18AS63	FINITE ELEMENT METHOD	RI	Roohi
18AS643	INTRODUCTION TO ASTROPHYSICS AND SPACE ENVIRONMENT	SD	Suresh D
18ME651	NON-CONVENTIONAL ENERGY SOURCES	JS	J Siva
18ASL66	DESIGN, MODELLING & ANALYSIS LAB	MV	M Vijay
18ASL67	AEROSPACE STRUCTURES LAB	PK	P Karthikeyan
18ASMP68	MINI-PROJECT	YD	Dr Yamuna Devi
	INTERNSHIP	YD	Dr Yamuna Devi
	Mentoring and Library	VSKR/MV	VidyaShree K R/M Vijay

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ACS COLLEGE OF ENGINEERING

Kambipura, Bengaluru-560074.

DEPARTMENT OF AEROSPACE ENGINEERING

CLASS TIME TABLE
Semester - VI

2020

Class Teacher: J Siva

Room No: 408

Day/ Time	08.30 to 09.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	17AS61	17AS64	Break	17AS61	17AS661	Lunch Break	17AS654	17AS63	17AS64
TUE	17AS64	17AS661		17AS62	17AS62		17AS61	17AS63	17AS64
WED	17AS63	17ASL67(B1), 17AS L68(B2)		17ASL67(B1), 17ASL68(B2)			17AS654	17AS661	17AS61
THU	17AS64	17AS63		17AS62	17AS62		SOFTSKILL	17AS654	17AS661
FRI	17AS61	17ASL67(B2), 17AS L68(B1)		17ASL67(B2), 17ASL68(B1)			17AS63	17AS654	17AS661
SAT	As per the College Academic Calender					As per the College Academic Calender			

Sub Code	Name of the Subject	Initials	Name of the Faculty
17AS61	FINITE ELEMENT METHOD	YD	Yamuna Devi
17AS62	SPACE MECHANICS	USS	U Sivasathya
17AS63	CONTROL ENGINEERING	USS	U Sivasathya
17AS64	MISSILES AND LAUNCH VEHICLES	VSKR	VidyaShree K R
17AS654	SATELLITE COMMUNICATION	PRM	Dr. R. Mukesh
17AS661	UNMANNED AERIAL VEHICLES BASICS & APPLICATIONS	CS	C.Sushmitha
17ASL67	DESIGN, MODELLING & ANALYSIS LAB	JS	J Siva
17ASL68	STRUCTURES & VIBRATION LAB	CS	C.Sushmitha
	Mentoring and Library	JS	J Siva

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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DEPARTMENT OF AEROSPACE ENGINEERING

TIME TABLE - ONLINE CLASS
Semester - VII

Class Teacher: D Suresh

Room No: 40

Day/ Time	09.45 PM to 10.45 PM	10.45 PM to 11.00PM	11.00 PM to 12.00 PM	12.00 PM to 01.00 PM	01.00 PM to 02.00 PM	02.00 PM to 02.15 PM	02.15 PM to 03.15 PM	03.15 PM to 04.15 PM
MON	17AS71 - AVS	Break	17AS752 - WTT	Lunch Break	17AS752 - WTT	Break	17AS73- SVD	17ASL78
TUE	17AS72 - CFD		17AS742 - TQM		17AS71 - AVS		17AS742 - TQM	17ASL78
WED	17AS73-SVD		17AS752 - WTT		17AS752 - WTT		17AS742 - TQM	17ASL77
THU	17AS72 - CFD		17AS71 - AVS		17AS73-SVD		17AS72 - CFD	17ASL77
FRI	17AS72 - CFD		17AS73-SVD		17AS742 - TQM		17AS71 - AVS	17ASP78
SAT	17ASP78		17ASP78		17ASP78		17ASP78	

Sub Code	Name of the Subject	Initials	Name of the Faculty
17AS71	AVIONICS SYSTEMS	PRM	Dr. R. Mukesh
17AS72	COMPUTATIONAL FLUID DYNAMICS	CS	C.Sushmitha
17AS73	SPACE VEHICLE DESIGN	JS	J Siva
17AS742	TOTAL QUALITY MANAGEMENT	DS	D.Suresh
17AS752	WIND TUNNEL TECHNIQUES	PT	Dr. P. Theerthamalai
17ASL77	COMPUTATIONAL FLUID DYNAMICS LAB	CS	C.Sushmitha
17ASL78	SPACE SIMULATION LAB	USS	Mrs U Sivasathya
17ASP78	PROJECT PHASE I + PROJECT SEMINAR	RB/YD	Dr. Radhai Bhai/Dr Yamuna Devi
	Mentoring and Library	DS	D.Suresh

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DEPARTMENT OF AEROSPACE ENGINEERING

TIME TABLE - ONLINE CLASS

Class Teacher: SURESH D

Semester - VIII

Day/ Time	09.30 AM to 10.30 PM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	12.00 PM to 01.00 PM	01.00 PM to 02.00 PM	02.00 PM to 03.00 PM
MON	17AS834 - GRN	Break	17AS82 -PTM	17ASS86 - SD	Lunch Break	17AS81 - RM
TUE	17AS81 - RM		17AS82 -PTM	17AS834 - GRN		PROJECT REVIEW
WED	17AS82 -PTM		17AS84 - USS	17AS81 - RM		17AS834 - GRN
THU	PROJECT WORK		PROJECT WORK			17AS84 - USS
FRI	PROJECT WORK		PROJECT WORK			17AS84 - USS
SAT	PROJECT WORK		PROJECT WORK			17AS84 - USS

Sub Code	Name of the Subject	Initials	Name of the Faculty
17AS81	SATELLITE DESIGN	RM	Dr. R. Mukesh
17AS82	MISSILE DESIGN	PTM	Dr. P. Theerthamalai
17AS834	SPACE CRAFT SYSTEMS	GM	Dr Ramanan G
17AS84	INTERNSHIP	USS	Mrs U SivaSathya
17ASP85	PROJECT WORK PHASE II	RB	Dr Radha Bhai
17ASS86	SEMINAR	SD	Suresh D
	Mentoring and Library	SD/RI	Suresh D/Roohi

RM
MTI

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ACS COLLEGE OF ENGINEERING

Department of Mechanical Engineering
CLASS TIME TABLE 2016 (ODD SEMESTER)

w.e.f: 08/09/16

ROOM NO: 204

Semester- III

CLASS TEACHER: Mr. Srinidhi Acharya S R

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM	
MON	15ME35A	15ME32	TEA BREAK	15ME34	15MAT31	LUNCH BREAK	15ME34	DIP MAT 301 <i>Lib. hour (B. Chandrashekar)</i>		
TUE	15ME35A	15ME34		15ME33	15ME32		Soft skills <i>(TPD)</i>	DIP MAT 301 <i>Lib. hour (Srinidhi Acharya)</i>		
WED	15MAT31	15ME32		15ME33	15ME34		15ME36A-B1-CB 15MEL37A-B2-Dr.SPM 15MEL38A-B3-SGR			
THU	15MAT31	15ME33		10ME36A			15ME36A-B2-SRS 15MEL37A-B3-CK 15MEL38A-B1- Dr.A.K			
FRI	15ME32	15ME33		15ME35A	15MAT31		15ME36A-B3-SRS 15MEL37A-B1-CB 15MEL38A-B2-PSR			
SAT	15ME36A			15ME34	15ME35A					

Sub Code	Name of the Subject	Initials	Name of the Faculty
15MAT31	Engineering Mathematics-III	Dr.VN/KR	Dr. Veena/Mr. K Raghavendra
15ME32	Material Science	Dr.SPM	Dr. Suresh P M
15ME33	Basic Thermodynamics	Dr.RSS	Dr. R Shivasubramanyam
15ME34	Mechanics of Materials	CB	Mr. Chandrashekhar B
15ME35A	Metal Casting and Welding	SGR	Mr. Sandeep.G.R.
15ME36A	Computer Aided Machine Drawing	SRS	Mr. Srinidhi Acharya S R/ Mr. Chandrashekhar B
15MEL37A	Materials Testing Lab	Dr.SPM/CK/CB	Dr. Suresh P M /Ms .Chandrakala /Mr. Chandrashekhar B
15MEL38A	Foundry and Forging laboratory	Dr.A.K /PSR/SGR	Dr.Anand Kumar /Mr. P Sivashankar/ Mr. Sandeep.G.R.

[Signature]
HOD-ME

[Signature]
Principal
 ACS College of Engineering
 Kambipura, Bangalore - 560 079

ACS COLLEGE OF ENGINEERING

Department of Mechanical Engineering
CLASS TIME TABLE 2017 (ODD SEMESTER)

w.e.f: 14/08/17

ROOM NO: 204

Semester- III

CLASS TEACHER: Mr.Rakesh S

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM	
MON	15ME32	15ME33	TEA BREAK	15ME34	15MAT31	LUNCH BREAK	15ME35A	15ME34	15ME36A	
TUE	15ME35A	15ME34		15ME32	15ME33		15MAT31	15ME36A		
WED	15ME33	15MAT31		15ME36A			15ME32	15ME33	15ME35A	
THU	15MAT31	15ME33		15ME34	15ME32		15ME36A-B2-SRS 15MEL37A-B3-CK 15MEL38A-B1- PSR			
FRI	15ME34	15ME33		15MAT31	15ME32		15ME36A-B3-SRS 15MEL37A-B1-CK 15MEL38A-B2-SGR			
SAT	15ME35A	15ME36A-B1-RS 15MEL37A-B2-CB 15MEL38A-B3-PSR								

Sub Code	Name of the Subject	Initials	Name of the Faculty
15MAT31	Engineering Mathematics-III	Dr.KTP	Dr.Pradeep Kumar K T
15ME32	Material Science	CK	Ms. Chandrakala
15ME33	Basic Thermodynamics	Dr.RSS	Dr. R Sivasubramanyam
15ME34	Mechanics of Materials	SGR	Mr.Sandeep G R
15ME35A	Metal Casting and Welding	PSR	Mr.Sivashankar P
15ME36A	Computer Aided Machine Drawing	RS	Mr.Rakesh S
15MEL37A	Materials Testing Lab	CB/CK	Mr. Chandrashekhar B/ Ms. Chandrakala
15MEL38A	Foundry and Forging laboratory	PSR/SGR	Mr.Sivashankar P/ Mr.Sandeep G R



CLASS TIME TABLE 2018 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

Class strength:28
w.e.f: 09/10/18

Semester- III

CLASS TEACHER: Mr.Rakesh S

ROOM NO: 204

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM	
MON	17ME32	17ME33	TEA BREAK	17MAT31	17ME34	LUNCH BREAK	17ME35A	17ME32	17ME36A	
TUE	17ME33	17ME34		17ME35A	17MAT31		17ME32	17ME36A		
WED	17ME34	17ME33		17ME36A	17MAT31		17MEL37A-B1-CB 17MEL38A-B2- PSR			
THU	17ME33	17ME32		17ME34	17ME35A		17ME36A(LAB)-HSS			
FRI	17ME35A	17ME33		17MAT31	17ME34		17MEL37A-B2- SRS 17MEL38A-B1-SGR			
SAT	17MAT31	17ME33		17ME35A	17ME32	17CPH39				

Sub Code	Name of the Subject	Initials	Name of the Faculty
17MAT31	Engineering Mathematics-III	ML	Mr. Lokanatham M
17ME32	Material Science	CB	Mr. Chandrashekhar
17ME33	Basic Thermodynamics	Dr.RSS	Dr. R Sivasubramanyam
17ME34	Mechanics of Materials	SGR	Mr.Sandeep G R
17ME35A	Metal Casting and Welding	RS	Mr.Rakesh S
17ME36A	Computer Aided Machine Drawing	Dr.HSS	Dr. Siddesha H S
17MEL37A	Materials Testing Lab	CB/SRS	Mr. Chandrashekhar B/ Mr.Srinidhi Acharya
17MEL38A	Foundry and Forging laboratory	PSR/SGR	Mr.Sivashankar P/ Mr.Sandeep G R
17CPH39	Constitution of India, Professional Ethics and Human Rights (CPH)	BCM	Mr.Bapugowda C M

Sandeep G R
HOD-ME 9/10/2018
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

Srinidhi Acharya
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli
Bangalore - 560 074



CLASS TIME TABLE 2019 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 23/08/19

Semester- III

CLASS TEACHER: Mr.Rakesh S

ROOM NO: 204

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM	
MON	18ME33	18ME34	TEA BREAK	18MAT31	18ME32	LUNCH BREAK	18ME36A		18ME35B	
TUE	18ME33	18CPC39		18ME35B	18ME32		18MAT31	18ME34	18MATDIP3i	
WED	18ME33	18MAT31		18ME34	18ME32		18MEL37A-B1-CB 18MEL38B-B2- PSR			
THU	18ME33	18ME34		18ME35B	18ME32		18MEL37A-B2- Dr.SPM 18MEL38B-B1-SGR			
FRI	18ME33	18ME32		18CPC39	18MAT31		18ME36A(LAB)-HSS & RS			
SAT	18MAT31	18ME32			18ME36A		18ME35B	18MATDIP31		18ME35B

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MAT31	Mathematics	Dr.BHV	Dr.Veena B H
18ME32	Mechanics of Materials	SRS	Mr.Srinidhi Acharya
18ME33	Basic Thermodynamics	Dr.RSS	Dr. R Sivasubramanyam
18ME34	Material Science	CB	Mr. Chandrashekhar B
18ME35B	Metal Casting and Welding	RS	Mr.Rakesh S
18ME36A	Computer Aided Machine Drawing	Dr.HSS	Dr. Siddesha H S
18MEL37A	Materials Testing Lab	Dr.SPM /CB	Dr. Suresh P M /Mr.Chandrashekhar B
18MEL38B	Foundry and Forging and Welding lab	PSR/SGR	Mr.Sivashankar P/ Mr.Sandeep G R
18CPC39	Constitution of India, Professional Ethics and Cyber Law		

[Signature]
HOD-Mech
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

[Signature]
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli.
Bangalore - 560 074



ONLINE CLASS TIME TABLE 2020 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 01/09/20

Semester- III

CLASS TEACHER: Mr.RAKESH S

Source:ZOOM App/Microsoft Meet

Date/ Time	09.45AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.30AM	11.30AM to 12.30PM	12.30PM to 01.15PM	01.15PM to 01.30PM	01.30PM to 02.15PM
MON	18ME32	TEA BREAK	18MAT31	LUNCH BREAK	18ME34	BREAK	18ME36A
TUE	18ME33		18ME36A		18ME35A		18ME34
WED	18ME33		18MAT31		18ME34		18ME36A
THU	18ME32		18MAT31		18ME33		18ME35A
FRI	18ME34		18MAT31		18ME32		18ME35A
SAT	18ME33		18ME32		18ME35A		18ME36A

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MAT31	Mathematics	KR	Dr.Raghavendra K
18ME32	Mechanics of Materials	SRS	Mr.Srinidhi Acharya
18ME33	Basic Thermodynamics	KBM	Mr.Kumar B M
18ME34	Material Science	Dr.SPM	Dr. Suresh P M
18ME35A	Metal Cutting and Forming	RS / PSR	Mr. Rakesh S / Mr.Sivasankar P
18ME36A	Computer Aided Machine Drawing	Mr.CB	Mr.Chandrashekhar B
18MEL37A	Materials Testing Lab	Dr.SPM /CB	Dr. Suresh P M /Mr.Chandrashekhar B
18MEL38A	Workshop and Machine Shop Practice	PSR/SGR	Mr.Sivashankar P/ Mr.Sandeep G R
18CP39	Constitution of India, Professional Ethics and Cyber Law		

Sandeep
HOD
HOD-Mech 31/08/2020
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

Murali
Principal
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli
Bangalore - 560 074

ACS COLLEGE OF ENGINEERING
 Department of Mechanical Engineering
CLASS TIME TABLE 2016-2017 (EVEN SEMESTER)

Semester- IV

CLASS TEACHER: Mr. Bapugowda C M

w.e.f: 13/02/17

ROOM NO: 204

Date/Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	15ME45B	15ME46B	TEA BREAK	15ME43	15MAT41	LUNCH BREAK	15MAT41	15ME46B	15ME45B
TUE	15MAT41	15ME43		15ME42	15ME46B		15 MEL 47B- MMM LAB – B1 BATCH - CK 15 MEL 48B- M/C SHOP LAB – B2 BATCH - Dr.MR EDUSAT/LIBRARY-B3 BATCH- BCM		
WED	15ME42	15MAT41		15ME43	15ME44		15ME45B	15ME44	15ME46B
THU	15ME46B	15ME42		15ME44	15ME43		15 MEL 47B- MMM LAB – B3 BATCH - Dr.SPM 15 MEL 48B- M/C SHOP LAB - B1 BATCH - SGR EDUSAT/LIBRARY-B2 BATCH-CK		
FRI	15ME42	15ME43		15ME45B	15ME44		15 MEL 47B- MMM LAB – B2 BATCH - Dr.SPM 15 MEL 48B- M/C SHOP LAB – B3 BATCH - KBM EDUSAT/LIBRARY-B1 BATCH-SRS		
SAT	15MAT41	15ME42		15ME44	15ME45B				

Sub Code	Name of the Subject	Initials	Name of the Faculty
15MAT41	Engineering Mathematics – IV	Dr.KTP	Dr.Pradeep Kumar K T
15ME42	Kinematics of Machinery	CB	Mr. Chandrashekhar B
15ME43	Applied Thermodynamics	Dr.RSS	Dr. R Shivasubramanyam
15ME44	Fluid Mechanics	KBM	Mr.Kumara B.M
15ME45B	Machine Tools and Operations	SGR	Mr.Sandeep G R
15ME46B	Mechanical Measurements and Metrology	BCM	Mr.Bapugowda C M
15MEL47B	Mechanical Measurements and Metrology Lab	Dr.SPM/CK//	Dr.P M. Suresh/ Ms. Chandrakala
15MEL48B	Machine Shop	Dr.MR/SGR	Dr.Mohan Raj/ Mr.Kumara B.M / Mr Sandeep G R

Shamshir
 HOD 13/2/2017

Dept. of Mechanical Engg.
 ACS College of Engineering
 Bangalore - 560 074.

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 A.C.S. College of Engineering
 Kambipura, Mysore Road, Kengeri HoSh.
 Bangalore - 560 074

ACS COLLEGE OF ENGINEERING
Department of Mechanical Engineering
CLASS TIME TABLE 2017-2018 (EVEN SEMESTER)

CBCS SCHEME

w.e.f: 05/02/18

Semester- IV

CLASS TEACHER: Mr.Sandeep G R

ROOM NO: 204

Date/ Time	08.30 AM to 09.30AM	09.30AM 1to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	15ME45B	15ME44	TEA BREAK	15ME43	15MAT41	LUNCH BREAK	15 MEL 47B- MMM LAB – B3 BATCH - BCM 15 MEL 48B- M/C SHOP LAB - B1 BATCH - KBM EDUSAT/LIBRARY-B2 BATCH-RS		
TUE	15ME42	15ME43		15ME44	15MAT41		15 MEL 47B- MMM LAB – B1 BATCH - SRS 15 MEL 48B- M/C SHOP LAB – B2 BATCH - SGR EDUSAT/LIBRARY-B3 BATCH-PSR		
WED	15ME45B	15ME43		15ME44	15ME46B		15 MEL 47B- MMM LAB – B2 BATCH - Dr.SPM 15 MEL 48B- M/C SHOP LAB – B3 BATCH - SJ EDUSAT/LIBRARY-B1 BATCH-BCM		
THU	15ME43	15ME42		15ME46B	15MAT41		15ME45B	15ME46B	15ME44
FRI	15ME44	15MAT41		15ME43	15ME42		15ME46B	15ME42	15ME45B
SAT	15ME44	15ME42		15ME43	15MAT41		15ME45B	15ME46B	DIPMAT

Sub Code	Name of the Subject	Initials	Name of the Faculty
15MAT41	Engineering Mathematics – IV	TS/ML	Mrs.Shruthi T/Mr.Lokanadham
15ME42	Kinematics of Machinery	BCM	Mr.Bapugowda C M
15ME43	Applied Thermodynamics	Dr.RSS	Dr. R Sivasubramanyam
15ME44	Fluid Mechanics	KBM	Mr.Kumara B.M
15ME45B	Machine Tools and Operations	SGR	Mr.Sandeep G R
15ME46B	Mechanical Measurements and Metrology	Dr.SPM	Dr.P M. Suresh
15MEL47B	Mechanical Measurements and Metrology Lab	Dr.SPM/BCM/SRS	Dr.P M. Suresh/ Mr.Bapugowda C M/ Mr. Srinidhi Acharya
15MEL48B	Machine Shop	KBM/SGR/SJ	Mr.Kumara B.M / Mr Sandeep G R/ Mr. Sunilraj.B.A

Sandeep G R
HOD
5/2/2018
Dept. of Mechanical Engg.
HOD
ACS College of Engineering
Bangalore - 560 074.

Sandeep G R
Principal
Principal
ACS College of Engineering
Kambipura, Mysore Road, Kengeri Hoalli.
560 074



CLASS TIME TABLE 2019 (EVEN SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

Class strength: 29

w.e.f: 25/02/19

Semester- IV

CLASS TEACHER: Mr.SANDEEP G R

ROOM NO: 204

Date/Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	17ME43	17ME44	TEA BREAK	17MAT41	17ME46B	LUNCH BREAK	17ME45B	17MAT41	VTU e-Shikshana (17ME43)-RS
TUE	17ME43	17ME42		17ME45B	17ME44		17ME46B	17ME42	VTU e-Shikshana (17ME43)-SGR
WED	17ME43	17ME44		17MAT41	17ME42		17 MEL 47B- MMM LAB – B1 BATCH - SGR 17 MEL 48B- M/C SHOP LAB – B2 BATCH - SJ		
THU	17ME43	17ME45B		17ME46B	17MAT41		17 MEL 47B- MMM LAB – B2 BATCH - Dr.SPM 17 MEL 48B- M/C SHOP LAB –B1 BATCH -BCM		
FRI	17ME43	17ME46B		17ME42	17ME45B		17ME44	17KL 49- Kannada	
SAT	17ME43	17ME46B		17ME44	17MAT41		17ME45B	17ME42	Mentoring

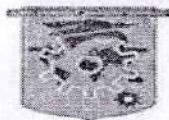
Sub Code	Name of the Subject	Initials	Name of the Faculty
17MAT41	Engineering Mathematics – IV	Dr.KTP	Dr.Pradeep kumar K T(5)
17ME42	Kinematics of Machinery	BCM	Mr.Bapugowda C M(5)
17ME43	Applied Thermodynamics	Dr.RSS	Dr. R Sivasubramanyam(6)
17ME44	Fluid Mechanics	KBM	Mr.Kumara B.M(5)
17ME45B	Machine Tools and Operations	SGR	Mr.Sandeep G R(5)
17ME46B	Mechanical Measurements and Metrology	Dr.SPM	Dr.P M. Suresh(5)
17MEL47B	Mechanical Measurements and Metrology Lab	Dr.SPM /SGR	Dr.P M. Suresh(3)/ Mr Sandeep G R(3)
17MEL48B	Machine Shop	BCM/SJ	Mr.Bapugowda C M(3) / Mr. Sunilraj.B.A(3)
17KL 49	Kannada	Dr. RJ	Dr. Jyothilingaiah R J(2)

Shobhalee
HOD-ME 22/2/2019

Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074

R.J.
Administrative Officer
Administrative Officer
ACS College of Engineering
Bangalore-560074

Principals
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074



CLASS TIME TABLE 2020 (EVEN SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

Class strength: 23
w.e.f: 10/02/2020

Semester- IV

CLASS TEACHER: Mr. RAKESH S

ROOM NO: 204

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM	
MON	18ME44	18ME42	TEA BREAK	18ME45A	18ME46B	LUNCH BREAK	18MAT41	18ME43	18ME44	
TUE	18ME45A	18ME42		18ME43	18ME46B		18ME44	18MAT41	18MAT41	
WED	18ME43	18ME42		18ME44	18ME45A		18 MEL 47B- MMM LAB – B1 BATCH – Dr.SPM 18 MEL 48A- M/C SHOP LAB – B2 BATCH - SGR			
THU	18MAT41	18ME42		18ME46B	18ME43		18 MEL 47B- MMM LAB – B2 BATCH - SRS 18 MEL 48A- M/C SHOP LAB –B1 BATCH -SJ			
FRI	18ME44	18ME42		18MAT41	18ME45A		18 KAK49	18ME43	18ME46B	
SAT	As per the College Academic Calendar					As per the College Academic Calendar				

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MAT41	Engineering Mathematics – IV	VMC	Mrs.Veena M C(5)
18ME42	Applied Thermodynamics	Dr.RSS	Dr. R Sivasubramanyam (5)
18ME43	Fluid Mechanics	KBM	Mr.Kumara B.M (5)
18ME44	Kinematics of Machinery	SRS	Mr. Srinidhi Acharya S R(5)
18ME45A	Metal Cutting and Forming	RS	Mr.Rakesh S (4)
18ME46B	Mechanical Measurements and Metrology	Dr.SPM	Dr.P M. Suresh(4)
18MEL47B	Mechanical Measurements and Metrology Lab	Dr.SPM /SRS	Dr.P M. Suresh(3)/ Mr. Srinidhi Acharya S R(3)
18MEL48A	Workshop & Machine Shop Practice	SGR/SJ	Mr Sandeep G R(3)/ Mr. Sunilraj.B.A(3)
18KAK 49	Kannada	JL	Mr.Jyothilingaiha(1)

Note- *As Per VTU Regulation 85% of attendance is Compulsory in each subject.

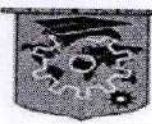
Mentors –1.Prof. Rakesh S, 2.Prof. Kumar B M, 3.Prof. Srinidhi Acharya S R

P. Sivasankar
Time table coordinator
Prof. P Sivasankar

S. Suresh
6/2/2020
HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

R. Sivasankar
6/2/2020
Administrative Officer
Dr. Sivasubramanyam R
ACS College of Engineering
Bangalore-560074

M. S. Murali
06/02/2020
PRINCIPAL
Dr. M.S Murali
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074



ONLINE CLASS TIME TABLE 2021 (EVEN SEMESTER)

DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 19/04/2021

Semester- IV		CLASS TEACHER: Mr.Srinidhi Acharya					Source: Microsoft team	
Date/ Time	09.30AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.45AM	11.45AM to 12.00PM	12.00PM to 01.00PM	01.00PM to 02.00PM	02.00PM to 03.00PM	
MON	18ME43	TEA BREAK	18MAT41	TEA BREAK	18ME42	LUNCH BREAK	18ME44	
TUE	18ME44		18ME43		18ME45B		18ME42	
WED	18ME46B		18ME44		18MAT41		18ME42	
THU	18MAT41		18ME46B		18ME45B		18ME46B	
FRI	18ME42		18MAT41		18ME45B		18ME43	
SAT	18ME46B		18ME44		18ME43		18ME45B	

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MAT41	Mathematics	Dr.KTP	Dr.Pradeep kumar K T
18ME42	Applied Thermodynamics	KBM	Mr.Kumara B.M
18ME43	Fluid Mechanics	PSR	Mr.Sivasankar P
18ME44	Kinematics of Machines	SRS	Mr. Srinidhi Acharya
18ME45B	Metal casting and Welding	SGR/ Dr.HSS	Mr.Sandeep G R/ Dr. Siddesha H S
18ME46B	Mechanical Measurements and Metrology	Dr.SPM	Dr.P M. Suresh
18MEL47B	Mechanical Measurements and Metrology Lab	Dr.SPM	Dr.P M. Suresh/Mr Sandeep G R
18MEL48B	Foundry, Forging and Welding Lab	SGR/PSR	Mr Sandeep G R/ Mr.Sivasankar P/
18KAK 49	Kannada		

Siddesha H S
HOD-Mech 16/4/2021

Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074

Sandeep G R
Principal 16/4

Principal
A.C.S. College of Engineering
Ambipura, Mysore Road, Kengeri Hobli
Bangalore - 560 074

ACS COLLEGE OF ENGINEERING

Department of Mechanical Engineering
CLASS TIME TABLE 2016 (ODD SEMESTER)

w.e.f: 08/09/16

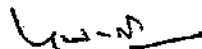
Semester-V

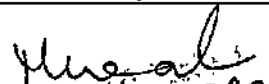
CLASS TEACHER: Ms.Chandrakala

ROOM NO: 205

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	10AL51	10ME56	TEA BREAK	10ME52	10ME53	LUNCH BREAK	10MEL57-B1-KBM 10MEL58-B2-Dr.RSS		
TUE	10AL51	10ME54		10ME53	10ME56		10ME52	Soft skills (T.P.O)	10ME53
WED	10ME56	10ME52		10ME55	10ME54		10ME55	10ME54	10ME56
THU	10ME52	10ME54		10ME56	10ME55		10ME53	10AL51	10ME52
FRI	10ME53	10ME55		10ME52	10AL51		10MEL57-B3-KBM 10MEL58-B1- Dr.RSS		
SAT	10ME54	10ME55		10MEL57-B2-KBM 10MEL58-B3-Dr.EM					

Sub Code	Name of the Subject	Initials	Name of the Faculty
10AL51	Management and Entrepreneurship	SJ	Mr. Sunil Raj B A
10ME52	Design of Machine Elements-I	SRS	Mr. Srinidhi Acharya S R
10ME53	Energy Engineering	Dr.M.R	Dr.Mohan Raj
10ME54	Dynamics of Machines	CK	Ms.Chandrakala
10ME55	Manufacturing process – III	Dr.A.K	Dr.Anand Kumar
10ME56	Turbo Machines	KBM	Mr. Kumara B M
10MEL57	Fluid Mechanics and Machines laboratory	KBM	Mr. Kumara B M
10MEL58	Energy conversion engineering laboratory	Dr.EM/Dr.RSS/Dr.SP	Dr. Eswarmoorthy/ Dr R Shivasubramanyam


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ACS COLLEGE OF ENGINEERING

Department of Mechanical Engineering
CLASS TIME TABLE 2017 (ODD SEMESTER)

w.e.f: 14/08/17

ROOM NO: 205

Semester-V

CLASS TEACHER: Mr.Sunilraj B A

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	15ME53	15ME54	TEA BREAK	15ME52	15ME51	LUNCH BREAK	15ME52	15ME51	15ME54
TUE	15ME554	15ME53		15ME51	15ME52		15ME554	15ME53	15ME56X
WED	15ME52	15ME53		15ME54	15ME56X		15MEL57-B1-EM 15MEL58-B2-RS		
THU	15ME554	15ME54		15ME53	15ME56X		15MEL57-B2-KBM 15MEL58-B3-RSS		
FRI	15ME51	15ME52		15ME554	15ME56X		15MEL57-B3-KBM 15MEL58-B1-RS		
SAT	15ME54	15ME51		15ME554	15ME56X				

Sub Code	Name of the Subject	Initials	Name of the Faculty
15ME51	Engineering Management & Economics	SJ	Mr. Sunilraj.B.A
15ME52	Dynamics of Machinery	RS	Mr.Rakesh S
15ME53	Turbo Machines	KBM	Mr.Kumara B.M
15ME54	Design of Machine Elements - I	SRS	Mr. Srinidhi Acharya
15ME554	Professional Elective-I(Non Traditional Machining)	BCM	Mr.Bapugowda C M
15ME56X	Open Elective-I	ANV	Mr.Vinay A N
15MEL57	Fluid Mechanics & Machinery Lab	KBM /Dr.EM	Mr.Kumara B.M/ Dr. Eswarmoorthy
15MEL58	Energy Lab	Dr.RSS/ RS	Dr. R Shivasubramanyam/ Mr.Rakesh S

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ACS COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CLASS TIME TABLE 2017 (ODD SEMESTER NON CBCS 2010 SCHEME)

w.e.f: 14/08/17

Semester-V

CLASS TEACHER: Mr.Sunilraj B A

ROOM: F&F LAB

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	10ME56	10ME52	TEA BREAK	10ME54	10AL51	LUNCH BREAK	10ME54	10AL51	10ME52
TUE	10ME55	10ME56		10AL51	10ME54		10ME55	10ME56	10ME53
WED	10ME54	10ME56		15MEL57-B1-EM 15MEL58-B2-RS					
THU	10ME55	10ME52		15MEL57-B2-KBM 15MEL58-B3-RSS					
FRI	10AL51	10ME54		15MEL57-B3-KBM 15MEL58-B1-RS					
SAT	10ME52	10AL51							

Sub Code	Name of the Subject	Initials	Name of the Faculty
10AL51	Management and Entrepreneurship	SJ	Mr. Sunil Raj B A
10ME52	Design of Machine Elements-I	SRS	Mr. Srinidhi Acharya S R
10ME53	Energy Engineering	PSR	Mr. Rakesh S sivasubramanyam, P
10ME54	Dynamics of Machines	RS	Mr. Rakesh S
10ME55	Manufacturing process – III	CK	Ms. Chandrakala
10ME56	Turbo Machines	KBM	Mr. Kumara B M
10MEL57	Fluid Mechanics and Machines laboratory	KBM /Dr.EM	Mr. Kumara B.M/ Dr. Eswarmoorthy
10MEL58	Energy conversion engineering laboratory	Dr.RSS/ RS	Dr. R Shivasubramanyam/Mr. Rakesh S

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CLASS TIME TABLE 2018 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

Class strength:47
w.e.f: 09/10/18
ROOM NO: 205

Semester-V

CLASS TEACHER: Mr.Srinidhi Acharya

Date/Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	15ME53	15ME563	TEA BREAK	15ME54	15ME51	LUNCH BREAK	15MEL57-B1-KBM 15MEL58-B2-RSS		
TUE	15ME51	15ME52		15ME54	15ME53		15MEL57-B2-KBM 15MEL58-B1-RS		
WED	15ME52	15ME563		15ME53	15ME54		15ME53	15ME53	15ME563
THU	15ME563	15ME554		15ME52	15ME54		15ME51	15ME563	15ME554
FRI	15ME51	15ME54		15ME52	15ME563		15ME52	15ME51	15ME554
SAT	15ME51	15ME52		15ME53	15ME554		15ME554	15ME54	15ME554

Sub Code	Name of the Subject	Initials	Name of the Faculty
15ME51	Engineering Management & Economics	SJ	Mr.Sunilraj.B.A
15ME52	Dynamics of Machinery	BCM	Mr.Bapugowda C M
15ME53	Turbo Machines	KBM	Mr.Kumara B.M
15ME54	Design of Machine Elements - I	SRS	Mr.Srinidhi Acharya
15ME554	Non Traditional Machining	PSR	Mr.Sivashankar P
15ME563	Automation and Robotics	Dr.SPM	Dr. Suresh P M
15MEL57	Fluid Mechanics & Machinery Lab	KBM	Mr.Kumara B.M
15MEL58	Energy Lab	Dr.RSS/ RS	Dr. R Shivasubramanyam / Mr.Rakesh S

Srinidhi Acharya
HOD, ME 9/10/2018
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

Srinidhi Acharya
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Bangalore - 560 074



CLASS TIME TABLE 2019 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 23/08/19

Semester-V

CLASS TEACHER: Mr. Sandeep G R

ROOM NO: 205

Date/Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	17ME51	17ME52	TEA BREAK	17ME54	17ME53	LUNCH BREAK	17ME52	17ME563	Library
TUE	17ME51	17ME52		17ME53	17ME554		17ME54	17ME53	17ME563
WED	17ME563	17ME53		17ME54	17ME554		17MEL57-B1-KBM 17MEL58-B2-RS		
THU	17ME52	17ME54		17ME51	17ME53		17MEL57-B2-KBM 17MEL58-B1-Dr.RSS		
FRI	17ME554	17ME54		17ME563	17ME51		17ME53	17ME52	Seminar
SAT	17ME54	17ME563		17ME51	17ME52		17ME554	Mentoring	

Sub Code	Name of the Subject	Initials	Name of the Faculty
17ME51	Management & Engineering Economics	SJ	Mr.Sunilraj.B.A
17ME52	Dynamics of Machinery	SRS	Mr.Srinidhi Acharya
17ME53	Turbo Machines	KBM	Mr.Kumara B.M
17ME54	Design of Machine Elements - I	SGR	Mr.Sandeep G R
17ME554	Non Traditional Machining	PSR	Mr.Sivashankar P
17ME563	Automation and Robotics	Dr.SPM	Dr. Suresh P M
17MEL57	Fluid Mechanics & Machinery Lab	KBM	Mr.Kumara B.M
17MEL58	Energy Lab	Dr.RSS/ RS	Dr. R Sivasubramanyam/ Mr.Rakesh S

[Signature]
HOD-Mech 231

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[Signature]
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ONLINE CLASS TIME TABLE 2020 (ODD SEMESTER)

DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 01/09/20

Semester- V

CLASS TEACHER: Mr.SANDEEP G R

Source: ZOOM App/Microsoft Meet

Date/ Time	09.45AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.30AM	11.30AM to 12.30PM	12.30PM to 01.15PM	01.15PM to 01.30PM	01.30PM to 02.15PM
MON	18ME52	TEA BREAK	18ME53	LUNCH BREAK	18ME51	BREAK	18ME56
TUE	18ME53		18ME54		18ME52		18ME55
WED	18ME53		18ME51		18ME54		18ME56
THU	18ME54		18ME52		18ME56		18ME55
FRI	18ME52		18ME53		18ME51		18ME55
SAT	18ME55		18ME54		18ME56		18ME51

Sub Code	Name of the Subject	Initials	Name of the Faculty
18ME51	Management and Economics	SJ	Mr.Sunilraj.B.A
18ME52	Design of Machine Elements - I	SGR	Mr.Sandeep G R
18ME53	Dynamics of Machinery	SRS / Dr.SPM	Mr.Srinidhi Acharya / Dr. Suresh P M
18ME54	Turbo Machines	KBM	Mr.Kumara B.M
18ME55	Fluid Power Engineering	Mr.CB	Mr.Chandrashekhar B
18ME56	Operations Management	Dr.HSS	Dr. Siddesha H S
18MEL57	Fluid Mechanics/Machines lab	KBM	Mr.Kumara B.M
18MEL58	Energy Conversion Lab	RS	Mr.Rakesh S
18CIV59	Environmental Studies		

Sandeep G R
HOD-Mech 31/08/2020

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Murali
Principal 31/08/2020

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ONLINE CLASS TIME TABLE 2020 (ODD SEMESTER)

DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f:01/09/20

Semester- V		CLASS TEACHER: Mr.Jayanna K N				Source:ZOOM App	
Date/Time	09.45AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.30AM	11.30AM to 12.30PM	12.30PM to 01.15PM	01.15PM to 01.30PM	01.30PM to 02.15PM
MON	17ME52/ 15ME52	TEA BREAK	17ME53/ 15ME53	LUNCH BREAK	17ME51/ 15ME51	BREAK	17ME563/ 15ME563
TUE	17ME53/ 15ME53		17ME54/ 15ME54		17ME52/ 15ME52		17ME554/ 15ME554
WED	17ME53/ 15ME53		17ME51/ 15ME51		17ME54/ 15ME54		17ME563/ 15ME563
THU	17ME54/ 15ME54		17ME52/ 15ME52		17ME563/ 15ME563		17ME554/ 15ME554
FRI	17ME52/ 15ME52		17ME53/ 15ME53		17ME51/ 15ME51		17ME554/ 15ME554
SAT	17ME554/ 15ME554		17ME54/ 15ME54		17ME563/ 15ME563		17ME51/ 15ME51

Sub Code	Name of the Subject	Initials	Name of the Faculty
17ME51/ 15ME51	Management & Engineering Economics	Mr.HC	Mr.Hanumanthappa Chowdhary
17ME52/ 15ME52	Dynamics of Machinery	Mr.RS	Mr.Rakesh S
17ME53/ 15ME53	Turbo Machines	Dr.GP	Dr.Ganeshan P
17ME54/ 15ME54	Design of Machine Elements - I	Mr.JKN	Mr.Jayanna K N
17ME554/ 15ME554	Non Traditional Machining	Mr.PHB	Mr.Punith H B
17ME563/ 15ME563	Automation and Robotics	M.UCP	Mr.Upendra C P
17MEL57/ 15MEL57	Fluid Mechanics & Machinery Lab	Dr.GP	Dr.Ganeshan P
17MEL58/ 15MEL58	Energy Lab	Mr.HC	Mr.Hanumanthappa Chowdhary

Suresh
- HOD

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Principals

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Bangalore - 560 074



ONLINE CLASS TIME TABLE 2020 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f:01/09/20

Semester- V

CLASS TEACHER: Mr.Jayanna K N

Source:ZOOM App

Date/ Time	09.45AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.30AM	11.30AM to 12.30PM	12.30PM to 01.15PM	01.15PM to 01.30PM	01.30PM to 02.15PM
MON	17ME52/ 15ME52	TEA BREAK	17ME53/ 15ME53	LUNCH BREAK	17ME51/ 15ME51	BREAK	17ME563/ 15ME563
TUE	17ME53/ 15ME53		17ME54/ 15ME54		17ME52/ 15ME52		17ME554/ 15ME554
WED	17ME53/ 15ME53		17ME51/ 15ME51		17ME54/ 15ME54		17ME563/ 15ME563
THU	17ME54/ 15ME54		17ME52/ 15ME52		17ME563/ 15ME563		17ME554/ 15ME554
FRI	17ME52/ 15ME52		17ME53/ 15ME53		17ME51/ 15ME51		17ME554/ 15ME554
SAT	17ME554/ 15ME554		17ME54/ 15ME54		17ME563/ 15ME563		17ME51/ 15ME51

Sub Code	Name of the Subject	Initials	Name of the Faculty
17ME51/ 15ME51	Management & Engineering Economics	Mr.HC	Mr.Hanumanthappa Chowdhary
17ME52/ 15ME52	Dynamics of Machinery	Mr.RS	Mr.Rakesh S
17ME53/ 15ME53	Turbo Machines	Dr.GP	Dr.Ganeshan P
17ME54/ 15ME54	Design of Machine Elements - I	Mr.JKN	Mr.Jayanna K N
17ME554/ 15ME554	Non Traditional Machining	Mr.PHB	Mr.Punith H B
17ME563/ 15ME563	Automation and Robotics	M.UCP	Mr.Upendra C P
17MEL57/ 15MEL57	Fluid Mechanics & Machinery Lab	Dr.GP	Dr.Ganeshan P
17MEL58/ 15MEL58	Energy Lab	Mr.HC	Mr.Hanumanthappa Chowdhary

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Principals

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ACS COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CLASS TIME TABLE 2016-17 (EVEN SEMESTER)

Semester-VI

CLASS TEACHER: Ms.Chandrakala.

w.e.f: 13/02/17

ROOM NO: 205

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	10ME62	10ME63	TEA BREAK	10ME64	10ME65	LUNCH BREAK	10 MEL 67- HMT LAB - B1 BATCH - RSS 10 MEL 68 - CAMA LAB - B2 BATCH - HSS EDUSAT/LIBRARY-B3 BATCH-SJ		
TUE	10ME63	10ME64		10ME665	10ME61		10 MEL 67 - HMT LAB - B2 BATCH - RSS 10 MEL 68 - CAMA LAB - B3 BATCH - HSS EDUSAT/LIBRARY-B1 BATCH- BCM		
WED	10ME63	10ME63		10ME64	10ME62		10ME665	10ME64	10ME65
THU	10ME61	10ME62		10ME65	10ME64		10 MEL 67 - HMT LAB - B3 BATCH - KBM 10 MEL 68 - CAMA LAB - B1 BATCH - HSS EDUSAT/LIBRARY-B2 BATCH- CK		
FRI	10ME61	10ME63		10ME665	10ME65		10ME62	10ME61	10ME665
SAT	10ME65	10ME62		10ME61	10ME665				

Sub Code	Name of the Subject	Initials	Name of the Faculty
10ME61	Computer Integrated Manufacturing	SJ	Mr. Sunilraj.B.A
10ME62	Design of Machine Elements-II	SRS	Mr. Srinidhi Acharya
10ME63	Heat and Mass Transfer	EM	Dr. Eswarmoorthy
10ME64	Finite Elemental Method	HSS	Mr. Siddesha H S
10ME65	Mechatronics & Microprocessor	CK	Ms. Chandrakala
10ME665	Non-Traditional Machining	Dr.MR	Dr.Mohan Raj
10MEL67	Heat & Mass Transfer Lab	KBM / RSS	Mr.Kumara B.M /Mr. R Shivasubramanyam
10MEL68	Computer Aided Modeling & Analysis lab	HSS / CB/SRS	Mr. Siddesha.H.S / Mr. Chandrashekhara B / Mr. Srinidhi Acharya

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ACS COLLEGE OF ENGINEERING
Department of Mechanical Engineering
CLASS TIME TABLE 2017-18 (EVEN SEMESTER)
NON CBCS SCHEME

w.e.f: 05/02/18

Semester-VI

CLASS TEACHER: Mr.Srinidhi Acharya

ROOM NO: 205

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	10ME64	10ME63	TEA BREAK	10ME61	10ME665	LUNCH BREAK	10 MEL 67- HMT LAB - B1 BATCH - Dr.EM 10 MEL 68 - CAMA LAB - B2 BATCH - SRS EDUSAT/LIBRARY-B3 BATCH-SJ		
TUE	10ME665	10ME62		10ME63	10ME64		10 MEL 67 - HMT LAB - B2 BATCH - RSS 10 MEL 68 - CAMA LAB - B3 BATCH - CB EDUSAT/LIBRARY-B1 BATCH- SGR		
WED	10ME62	10ME61		10ME63	10ME65		10 MEL 67 - HMT LAB - B3 BATCH - KBM 10 MEL 68 - CAMA LAB - B1 BATCH - Dr.HSS EDUSAT/LIBRARY-B2 BATCH- SRS		
THU	10ME64	10ME63		10ME65	10ME62		10ME64	10ME665	10ME65
FRI	10ME665	10ME64		10ME62	10ME63		10ME62	10ME64	10ME61
SAT	10ME65	10ME64		10ME61	10ME62		10ME665	10ME61	10ME65

Sub Code	Name of the Subject	Initials	Name of the Faculty
10ME61	Computer Integrated Manufacturing	SJ	Mr. Sunilraj.B.A
10ME62	Design of Machine Elements-II	SRS	Mr. Srinidhi Acharya
10ME63	Heat and Transfer	Dr.EM	Dr. Eswarmoorthy
10ME64	Finite Elemental Method	Dr.HSS	Dr. Siddesha H S
10ME65	Mechatronics & Microprocessor	PSR	Mr.Sivasankar P
10ME665	Non-Traditional Machining	SGR	Mr.Sandeep G R
10MEL67	Heat & Mass Transfer Lab	Dr.EM/Dr. RSS/KBM	Dr. Eswarmoorthy /Dr. R Sivasubramanyam/ Mr.Kumara B.M
10MEL68	Modeling & Analysis lab(FEA)	Dr.HSS/CB/SRS	Mr. Siddesha.H.S / Mr.Chandrashekhar.B/ Mr. Srinidhi Acharya

Srinidhi Acharya
HOD-ME
Department of Mechanical Engg.
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Bangalore - 560 074.

Srinidhi Acharya
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Bangalore - 560 074

ACS COLLEGE OF ENGINEERING
Department of Mechanical Engineering
CLASS TIME TABLE 2017-18 (EVEN SEMESTER)
CBCS SCHEME

w.e.f: 05/02/18

Semester-VI

CLASS TEACHER: Mr.Srinidhi Acharya

ROOM NO: 205

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	15ME61	15ME63	TEA BREAK	15ME62	15ME66X	LUNCH BREAK	15 MEL 67- HMT LAB - B1 BATCH - Dr.EM 15 MEL 68 - CAMA LAB - B2 BATCH – SRS EDUSAT/LIBRARY-B3 BATCH-SJ		
TUE	15ME66X	15ME64		15ME63	15ME61		15 MEL 67 - HMT LAB - B2 BATCH – RSS 15 MEL 68 - CAMA LAB - B3 BATCH – CB EDUSAT/LIBRARY-B1 BATCH- SGR		
WED	15ME64	15ME62		15ME63	15ME65X		15 MEL 67 - HMT LAB - B3 BATCH –KBM 15 MEL 68 - CAMA LAB -B1 BATCH – Dr.HSS EDUSAT/LIBRARY-B2 BATCH- SRS		
THU	15ME61	15ME63		15ME65X	15ME64		15ME61	15ME66X	15ME65X
FRI	15ME66X	15ME61		15ME64	15ME63		15ME64	15ME63	15ME62
SAT	15ME65X	15ME61		15ME62	15ME64		15ME66X	15ME62	15ME65X

Sub Code	Name of the Subject	Initials	Name of the Faculty
15ME61	Finite Elemental Method	Dr.HSS	Dr. Siddesha H S
15ME62	Computer Integrated Manufacturing	SJ	Mr. Sunilraj.B.A
15ME63	Heat Transfer	Dr.EM	Dr. Eswarmoorthy
15ME64	Design of Machine Elements-II	SRS	Mr. Srinidhi Acharya
15ME65X	Metal Forming/Automobile Engineering	SGR/RS	Mr.Sandeep G R/Mr.Rakesh S
15ME66X	Industrial Safety/Total Quality Management	PSR/CB	Mr.Sivasankar P/Mr.Chandrashekhar.B
15MEL67	Heat Transfer Lab	Dr.EM/Dr. RSS/KBM	Dr. Eswarmoorthy /Dr. R Sivasubramanyam/ Mr.Kumara B.M
15MEL68	Modeling & Analysis lab(FEA)	Dr.HSS/CB/SRS	Mr. Siddesha.H.S / Mr.Chandrashekhar.B/ Mr. Srinidhi Acharya

Siddesha H S
HOD 5/2/2018
Dept. Mechanical Engg.
HOD-ME
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CLASS TIME TABLE 2019 (EVEN SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

Class strength: 47
w.e.f: 25/02/19

Semester-VI

CLASS TEACHER: Mr.Srinidhi Acharya

ROOM NO: 205

Date/Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	15ME62	15ME61	TEA BREAK	15ME63	15ME66X	LUNCH BREAK	15 MEL 67- HMT LAB - B1 BATCH - KBM 15 MEL 68 - CAMA LAB - B2 BATCH – Dr.HSS EDUSAT/INNOVATIVE PROJECT-B3-SRS		
TUE	15ME63	15ME64		15ME64	15ME65X		15 MEL 67 - HMT LAB - B2 BATCH – Dr.RSS 15 MEL 68 - CAMA LAB - B3 BATCH – SJ EDUSAT/INNOVATIVE PROJECT-B1-PSR		
WED	15ME64	15ME61		15ME63 (Dr.RSS)	15ME66X		15 MEL 67 - HMT LAB - B3 BATCH –KBM 15 MEL 68 - CAMA LAB -B1 BATCH – CB EDUSAT/INNOVATIVE PROJECT-B2-RS		
THU	15ME64	15ME61		15ME62	15ME66X		15ME63	15ME62	15ME65X
FRI	15ME62	15ME64		15ME63	15ME66X		15ME64	15ME61	15ME65X
SAT	15ME63	15ME64		15ME61	15ME65X		15ME62	15ME65X	15ME66X

Sub Code	Name of the Subject	Initials	Name of the Faculty
15ME61	Finite Elemental Analysis	Dr.HSS	Dr. Siddesha H S(6)
15ME62	Computer Integrated Manufacturing	SJ	Mr. Sunilraj.B.A(5)
15ME63	Heat Transfer	KBM/ Dr.RSS	Mr.Kumara B.M(5)/ Dr.R Sivasubramanyam(1)
15ME64	Design of Machine Elements-II	SRS	Mr. Srinidhi Acharya(6)
15ME653/655	Metal Forming /Automobile Engineering	SRS/RS	Mr.Srinidhi Acharya/Mr.Rakesh S(5)
15ME662/664	Industrial Safety/Total Quality Management	PSR/CB	Mr.Sivasankar P(5)/Mr.Chandrashekhhar.B(5)
15MEL67	Heat Transfer Lab	Dr. RSS/KBM	Dr. R Sivasubramanyam(3)/ Mr.Kumara B.M(6)
15MEL68	Modeling & Analysis lab(FEA)	Dr.HSS/CB/SJ	Dr. Siddesha.H.S(3) / Mr.Chandrashekhhar.B(3)/ Mr. Sunil raj B A(3)

Siddesha H S
HOD
Dept of Mechanical Engg.
ACS College of Engineering
22/2/2019

R. N. Srinidhi
Administrative Officer
ACS College of Engineering

Principals
Principal
ACS College of Engineering
Kambipura, Mysore Road, Kengeri Hobli.



ACS College of Engineering

Approved by AICTE New Delhi, Affiliated to VTU, Belagavi
(A Unit of RajaRajeswari Group of Institutions)



CLASS TIME TABLE 2020 (EVEN SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

Class strength: 32
w.e.f: 10/02/2020

Semester- VI

CLASS TEACHER: Mr. SANDEEP G R


ROOM NO: 205

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45PM to 01.30PM	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	17ME62	17ME63	TEA BREAK	17ME61	17ME63	LUNCH BREAK	17ME62	SOFT SKILL	17ME664
TUE	17ME64	17ME63		17ME61	17ME653		17 MEL 67 - HMT LAB - B2 BATCH – Dr.RSS 17 MEL 68 - CAMA LAB – B1 BATCH – SJ		
WED	17ME61	17ME664		17ME63	17ME62		17 MEL 67 - HMT LAB – B1 BATCH –KBM 17 MEL 68 - CAMA LAB –B2 BATCH – Dr.HSS		
THU	17ME64	17ME62		17ME 64	17ME653		17ME664	17ME61	17ME63
FRI	17ME664	17ME64		17ME62	17ME653		17ME61	17ME64	17ME653
SAT	As per the College Academic Calendar					As per the College Academic Calendar			

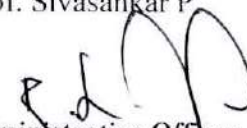
Sub Code	Name of the Subject	Initials	Name of the Faculty
17ME61	Finite Elemental Analysis	Dr.HSS	Dr. Siddesha H S(5)
17ME62	Computer Integrated Manufacturing	SJ	Mr. Sunilraj.B.A(5)
17ME63	Heat Transfer	KBM	Mr.Kumara B.M(5)
17ME64	Design of Machine Elements-II	SGR	Mr Sandeep G R (5)
17ME653	Metal Forming	PSR	Mr.Sivasankar P(4)
17ME664	Total Quality Management	CB	Mr.Chandrashekhar.B(4)
17MEL67	Heat Transfer Lab	KBM/Dr.RSS	Mr.Kumara B.M(3)/ Dr. R Sivasubramanyam(3)
17MEL68	Modeling & Analysis lab(FEA)	Dr.HSS/SJ	Dr. Siddesha.H.S(3) /Mr. Sunil raj B A(3)

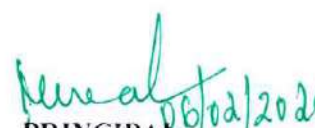
Note- *As Per VTU Regulation 85% of attendance is Compulsory in each subject.

Mentors –1.Prof.Sunil Raj B A, 2. Prof.Sandeep G R, 3.Prof. Chandrashekhar B, 4. Prof. Sivasankar P


Time table coordinator
Prof. P Sivasankar


HOD
Dr. Siddesha H S
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560074


Administrative Officer
Mr. Sivasankar P
ACS College of Engineering
Bangalore-560074


PRINCIPAL
Principal
A.C.S. College of Engineering
Bambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074



ONLINE CLASS TIME TABLE 2021 (EVEN SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 19/04/2021

Semester- VI		CLASS TEACHER: Mr.SANDEEP G R				Source: Microsoft team	
Date/ Time	09.30AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.45AM	11.45AM to 12.00PM	12.00PM to 01.00PM	01.00PM to 02.00PM	02.00PM to 03.00PM
MON	18ME63	BREAK	18ME641	BREAK	18ME61	LUNCH BREAK	18CV653
TUE	18ME61		18ME63		18ME641		18CV653
WED	18ME62		18ME63		18ME61		18CV653
THU	18ME62		18ME61		18ME62		18ME641
FRI	18ME641		18ME62		18ME63		18CV653
SAT	Mini-Project						

Sub Code	Name of the Subject	Initials	Name of the Faculty
18ME61	Finite Elemental Analysis	Dr.HSS	Dr. Siddesha H S
18ME62	Design of Machine Elements-II	SGR	Mr.Sandeep G R
18ME63	Heat Transfer	KBM	Mr.Kumara B.M
18ME641	Non-Traditional Machining (Protection-elective)	CB	Mr. Chandrashekar B
18CV653	Occupational health safety (Open-elective)	AV	Mrs.Anju Anne Varghese
18MEL66	Computer Aided Modeling & Analysis lab	Dr.HSS	Dr. Siddesha.H.S
18MEL67	Heat Transfer Lab	KBM	Mr.Kumara B.M
18MEM68	Mini- Project		

Sandeep G R
HOD-Mech 16/4/2021

Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

Siddesha H S
Principal 16/4

Principal
A.C.S. College of Engineering
Jambipura, Mysore Road, Kengeri Hobli
Bangalore - 560 074



ONLINE CLASS TIME TABLE 2021 (EVEN SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 19/04/2021

Semester- VI		CLASS TEACHER: Mr.SANDEEP G R				Source: Microsoft team	
Date/ Time	09.30AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.45AM	11.45AM to 12.00PM	12.00PM to 01.00PM	01.00PM to 02.00PM	02.00PM to 03.00PM
MON	17ME63 /15ME63	BREAK	17ME662 /15ME662	BREAK	17ME61 /15ME61	LUNCH BREAK	17ME653 /15ME653
TUE	17ME61 /15ME61		17ME63 /15ME63		17ME653 /15ME653		
WED	17ME64 /15ME64		17ME63 /15ME63		17ME61 /15ME61		
THU	17ME64 /15ME64		17ME61 /15ME61		17ME64 /15ME64		
FRI	17ME662 /15ME662		17ME64 /15ME64		17ME63 /15ME63		
SAT	17ME62 /15ME62		17ME653 /15ME653		17ME62 /15ME62		

Sub Code	Name of the Subject	Initials	Name of the Faculty
17ME61/15ME61	Finite Elemental Analysis	Dr.HSS	Dr. Siddesha H S
17ME62/15ME62	Computer integrated Manufacturing	SJ	Mr.Sunilraj B A
17ME63/15ME63	Heat Transfer	KBM	Mr.Kumara B.M
17ME64/15ME64	Design of Machine Elements-II	SGR	Mr.Sandeep G R
17ME653/15ME653	Metal forming	SRS	Mr. Srinidhi Acharya
17ME662/15ME662	Industrial Safety	PSR	Mr.Sivasankar P
17MEL67/15MEL67	Heat Transfer Lab	KBM	Mr.Kumara B.M
17MEL68/15MEL68	Computer Aided Modeling & Analysis lab	Dr.HSS	Dr. Siddesha.H.S

Sandeep G R
HOD-Mech
HOD
16/4/2021

Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074

S. Srinidhi Acharya
Principal
5/16/4

Principal
A.C.S. College of Engineering
Cambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074

ACS COLLEGE OF ENGINEERING

Department of Mechanical Engineering
CLASS TIME TABLE 2016 (ODD SEMESTER)

w.e.f: 08/09/16

Semester-VII

CLASS TEACHER: Dr.Mohan Raj

ROOM NO: 206

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM -	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	10ME761	10ME754	TEA BREAK	10ME72	10ME74	LUNCH BREAK	10MEL77-B1-SGR 10MEL78-B2-SJ		
TUE	10ME73	10ME754		10ME72	10ME74		10MEL77-B2- CB 10MEL78-B3-SJ		
WED	10ME754	10ME761		10ME71	10ME73		10MEL77-B3-SRS 10MEL78-B1-SJ		
THU	10ME71	10ME74		10ME73	10ME761		10ME72	10ME754	10ME73
FRI	10ME72	10ME71		10ME761	10ME754		10ME74	10ME71	10ME761
SAT	10ME73	10ME72		10ME74	10ME71				

Sub Code	Name of the Subject	Initials	Name of the Faculty
10ME71	Engineering Economy	SJ	Mr. Sunil Raj B A
10ME72	Mechanical Vibrations	SGR	Mr. Sandeep.G.R.
10ME73	Hydraulics and Pneumatics	Dr.M.R	Dr.Mohan Raj
10ME74	Operation Research	HSS	Mr. Siddesha.H.S.
10ME754	Non-Conventional Energy Sources	Dr.E.M	Dr. Eswarmoorthy
10ME761	Experimental Stress Analysis	CK	Ms.Chandrakala
10MEL77	Design laboratory	SGR/ SRS/ CB	Mr. Sandeep.G.R/ Mr. Srinidhi Acharya S R/ Mr. Chandrashekhar B
10MEL78	Cim & Automation lab	SJ	Mr. Sunil Raj B A

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ACS COLLEGE OF ENGINEERING
 Department of Mechanical Engineering
CLASS TIME TABLE 2017 (ODD SEMESTER)

w.e.f: 14/08/17

Semester-VII

CLASS TEACHER: Dr.Siddesha H S

ROOM NO: 206

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	10ME761	10ME72	TEA BREAK	10ME754	10ME74	LUNCH BREAK	10MEL77-B1-SRS 10MEL78-B2-SPM		
TUE	10ME71	10ME754		10ME73	10ME761		10MEL77-B2- SGR 10MEL78-B3-HSS		
WED	10ME73	10ME72		10ME71	10ME74		10MEL77-B3-SGR 10MEL78-B1-SJ		
THU	10ME71	10ME754		10ME72	10ME74		10ME761	10ME74	10ME72
FRI	10ME73	10ME754		10ME74	10ME72		10ME754	10ME71	10ME761
SAT	10ME73	10ME74		10ME761	10ME71				

Sub Code	Name of the Subject	Initials	Name of the Faculty
10ME71	Engineering Economy	SJ	Mr. Sunilraj.B.A
10ME72	Mechanical Vibrations	Dr.SPM	Dr. Suresh P M
10ME73	Hydraulics and Pneumatics	CB	Mr. Chandrashekhar B
10ME74	Operation Research	Dr.HSS	Dr. Siddesha H S
10ME754	Non-Conventional Energy Sources	Dr.EM	Dr. Eswarmorthy
10ME761	Experimental Stress Analysis	SGR	Mr.Sandeep G R
10MEL77	Design laboratory	SGR/SRS/CB	Mr.Sandeep G R/ Mr. Srinidhi Acharya/ Mr. Chandrashekhar B
10MEL78	Cim & Automation lab	Dr.SPM/ Dr.HSS/ SJ	Dr. Suresh P M/ Dr. Siddesha H S/ Mr. Sunilraj.B.A

HOD ME
 Dept. of Mechanical Engg.
 ACS College of Engineering
 Bangalore - 560 074.

Suneel
Principal
 Principal
 A.C.S. College of Engineering
 Kambipura, Mysore Road, Kengeri Hobli,
 Bangalore - 560 074



CLASS TIME TABLE 2018 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

Class strength:45
w.e.f: 09/10/18
ROOM NO: 203

Semester-VII

CLASS TEACHER: Mr.Sunilraj B A

Date/Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM	
MON	15ME742	15ME72	TEA BREAK	15ME71	15ME73	LUNCH BREAK	15MEL76-B1-SGR 15MEL77-B2-SJ			
TUE	15ME71	15ME753		15ME73	15ME72		15MEL76-B2- SRS 15MEL77-B1-SJ			
WED	15ME71	15ME72		15ME742	15ME73		15ME73	15ME753	15ME742	
THU	15ME72	15ME71		15ME73	15ME753		INTERNSHIP/ SEMINAR			
FRI	15ME742	15ME753		15ME71	15ME72		15MEP78-PROJECT PHASE – I			
SAT	15ME742	15ME753		15ME72	15ME73		15MEP78-PROJECT PHASE – I			

Sub Code	Name of the Subject	Initials	Name of the Faculty
15 ME 71	Energy Engineering	RS	Mr.Rakesh S
15 ME 72	Fluid Power Systems	SJ	Mr.Sunilraj.B.A
15 ME 73	Control Engineering	Dr.SPM	Dr. Suresh P M
15 ME 742	Tribology	SGR	Mr.Sandeep G R
15 ME 754	Mechatronics	Dr.HSS	Dr. Siddesha H S
15MEL76	Design laboratory	SGR/SRS	Mr.Sandeep G R/ Mr. Srinidhi Acharya
15MEL77	CIM & Automation lab	SJ	Mr. Sunilraj.B.A
15MEP78	Project Phase – I	All Faculties	

S. Suresh
HOD-ME
9/10/2018
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

S. Suresh
Principal
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli
Bangalore - 560 074



CLASS TIME TABLE 2018 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 06/08/18

NON-CBCS

Semester-VII

CLASS TEACHER: Mr.Sunilraj B A

ROOM NO: CIM LAB

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	10ME71	10ME74	TEA BREAK	10ME72	10ME754	LUNCH BREAK	10ME71	10ME72	10ME73
TUE	10ME761	10ME73		10ME754	10ME72		10ME74	10ME73	10ME761
WED	10ME754	10ME761		10ME71	10ME72		10MEL78- SJ		
THU	10ME73	10ME71		10ME754	10ME74		10MEL77-SGR		
FRI	10ME74	10ME761		10ME72	10ME754		PROJECT PHASE - I		
SAT	10ME74	10ME73		10ME71	10ME761		PROJECT PHASE - I		

Sub Code	Name of the Subject	Initials	Name of the Faculty
10 ME 71	Engineering Economics	SJ	Mr.Sunilraj.B.A
10 ME 72	Mechanical Vibration	Dr.SPM	Dr. Suresh P M
10 ME 73	Hydraulics and Pneumatics	CB	Mr. Chandrashekhar B
10 ME 74	Operation Research	Dr.HSS	Dr. Siddesha H S
10 ME 754	Non Conventional Energy Sources	Dr.RSS	Dr. R Sivasubramanyam
10 ME 761	Experimental Stress Analysis	SGR	Mr.Sandeep G R
10MEL77	Design laboratory	SGR	Mr.Sandeep G R
10MEL78	CIM & Automation lab	SJ	Mr. Sunilraj.B.A

Sunilraj B A
6/8/2018
HOD-ME

Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

Sunilraj B A
Principal

A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074.



CLASS TIME TABLE 2019 (ODD SEMESTER)

DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 23/08/19

Semester-VII

CLASS TEACHER: Mr.Sunil raj B A

ROOM NO: 206

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	15ME742	15ME73	TEA BREAK	15ME72	15ME71	LUNCH BREAK	15MEL76-B1-SGR 15MEL77-B2-SJ		
TUE	15ME742	15ME753		15ME73	15ME72		15MEL76-B2- SRS 15MEL77-B1-SJ		
WED	15ME72	15ME753		15ME71	15ME73		Internship Seminar		
THU	15ME753	15ME71		15ME73	15ME742		Technical Seminar		
FRI	15ME71	15ME72		15ME753	15ME742		Project Seminar		
SAT	15ME72	15ME71		15ME742	15ME73		Mentoring		Library

Sub Code	Name of the Subject	Initials	Name of the Faculty
15 ME 71	Energy Engineering	RS	Mr.Rakesh S
15 ME 72	Fluid Power Systems	SJ	Mr.Sunilraj.B.A
15 ME 73	Control Engineering	Dr.SPM	Dr. Suresh P M
15 ME 742	Tribology	SGR	Mr.Sandeep G R
15 ME753	Mechatronics	Dr.HSS	Dr. Siddesha H S
15MEL76	Design laboratory	SGR/SRS	Mr.Sandeep G R/ Mr. Srinidhi Acharya
15MEL77	CIM & Automation lab	SJ	Mr. Sunilraj.B.A
15MEP78	Project Phase - I	All Faculties	

S. S. S. S.
HOD
25/8/19
HOD-Mech
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore 560 074

R. S. S.
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli
Bangalore 560 074



ONLINE CLASS TIME TABLE 2020 (ODD SEMESTER)

DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 01/09/20

Semester- VII

CLASS TEACHER: Mr.SUNIL RAJ B A

Source: ZOOM App/Microsoft Meet

Date/ Time	09.45AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.30AM	11.30AM to 12.30PM	12.30PM to 01.15PM	01.15PM to 02.15PM
MON	17ME72	TEA BREAK	17ME753	LUNCH BREAK	17ME742	INTERNSHIP
TUE	17ME73		17ME753		17ME72	
WED	17ME742		17ME71		17ME72	
THU	17ME71		17ME73		17ME742	
FRI	17ME71		17ME753		17ME73	
SAT	PROJECT SEMINAR			INTERNSHIP		

Sub Code	Name of the Subject	Initials	Name of the Faculty
17 ME71	Energy Engineering	RS	Mr.Rakesh S
17 ME72	Fluid Power Systems	SJ	Mr.Sunilraj.B.A
17 ME73	Control Engineering	Dr.SPM	Dr. Suresh P M
17 ME742	Tribology	SGR	Mr.Sandeep G R
17 ME753	Mechatronics	Dr.HSS	Dr. Siddesha H S
17MEL76	Design laboratory	SGR/SRS	Mr.Sandeep G R/ Mr. Srinidhi Acharya
17MEL77	CIM Lab	SJ	Mr. Sunilraj.B.A
17MEP78	Project Phase – I	All Faculties	

Siddesha H S
HOD-Mech 31/08/2020
HOD

Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore 560 074.

Murali
Principal 31/08/2020
Principal

A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli
Bangalore - 560 074

ACS COLLEGE OF ENGINEERING
 Department of Mechanical Engineering
CLASS TIME TABLE 2016-17 (EVEN SEMESTER)

Semester-VIII

CLASS TEACHER: Mr. Sandeep G R.

w.e.f: 13/02/17

ROOM NO: 206

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM	
MON	10ME833	10ME81	TEA BREAK	10ME844	10ME82	LUNCH BREAK	10ME844	10ME82	10ME833	
TUE	10ME81	10ME82		10ME833	10ME844		10ME81	10ME82	10ME833	
WED	10ME844	10ME82		10ME81	10ME833		TECHNICAL SEMINAR			
THU	PROJECT WORK			PROJECT WORK			PROJECT WORK/SEMINAR			
FRI	PROJECT WORK			PROJECT WORK			PROJECT WORK/SEMINAR			
SAT	PROJECT WORK			PROJECT WORK						

Sub Code	Name of the Subject	Initials	Name of the Faculty
10ME81	Operations Management	SJ	Mr. Sunil Raj B A
10ME82	Control Engineering	Dr.SPM	Dr.P M. Suresh
10ME833	Power Plant Engineering	PSR	Mr.Sivashankar P
10ME844	Automotive Engineering	SGR	Mr.Sandeep G R

HOD-ME

S. Sandeep
 HOD
 13/2/2017
 Dept. of Mechanical Engg.
 ACS College of Engineering
 Bangalore - 560 074.

Principal

S. Sandeep
 Principal
 A.C.S. College of Engineering
 Kambipura, Mysore Road, Kengeri Hebbi
 Bangalore - 560 074

ACS COLLEGE OF ENGINEERING
Department of Mechanical Engineering
CLASS TIME TABLE 2017-18 (EVEN SEMESTER)
NON CBCS SCHEME

w.e.f: 01/02/18

Semester-VIII

CLASS TEACHER: Mr. Sunil raj B A

ROOM NO: 206

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM	
MON	10ME81	10ME833	TEA BREAK	10ME82	10ME844	LUNCH BREAK	10ME82	10ME81	10ME833	
TUE	10ME844	10ME81		10ME833	10ME82		10ME833	10ME82	10ME844	
WED	10ME844	10ME82		10ME833	10ME81		TECHNICAL SEMINAR			
THU	PROJECT WORK			PROJECT WORK			PROJECT WORK/SEMINAR			
FRI	PROJECT WORK			PROJECT WORK			PROJECT WORK/SEMINAR			
SAT	PROJECT WORK			PROJECT WORK						

Sub Code	Name of the Subject	Initials	Name of the Faculty
10ME81	Operations Management	SJ	Mr. Sunil Raj B A
10ME82	Control Engineering	Dr.SPM	Dr.P M. Suresh
10ME833	Power Plant Engineering	PSR	Mr.Sivasankar P
10ME844	Automotive Engineering	RS	Mr.Rakesh S

Sunil Raj B A
HOD-ME
 HOD
 Dept. of Mechanical Engg.
 ACS College of Engineering
 Bangalore - 560 074.

Sunil Raj B A
Principal
 Principal
 A.C.S. College of Engineering
 Kambipura, Mysore Road, Kengeri Halli
 Bangalore - 560 074



CLASS TIME TABLE 2019 (EVEN SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

Class strength: 38

w.e.f: 25/02/19

Semester-VIII

CLASS TEACHER: Mr.Sunilraj B A

ROOM NO: 206

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	15ME832	15ME82	TEA BREAK	15ME81	15ME832	LUNCH BREAK	INTERNSHIP		
TUE	15ME832	15ME81		15ME82	15ME81		INTERNSHIP		
WED	15ME81	15ME82		15ME832	15ME82		SEMINAR		
THU	PROJECT PHASE – II			PROJECT PHASE – II			PROJECT PHASE – II		
FRI	PROJECT PHASE – II			PROJECT PHASE – II			PROJECT PHASE – II		
SAT	PROJECT PHASE – II			PROJECT PHASE – II			PROJECT PHASE – II		

Sub Code	Name of the Subject	Initials	Name of the Faculty
15ME81	Operations Research	SJ	Mr. Sunil Raj B A(4)
15ME82	Additive Manufacturing	Dr.SPM	Dr.P M. Suresh(4)
15ME832	Experimental Stress Analysis	SGR	Mr.Sandeep G R(4)
15ME84	Internship / Professional Practice	KBM	Mr.Kumara B.M
15ME85	Project Phase – II	CB/ Dr. RSS	Mr.Chandrashekhar.B/ Mr. R Sivasubramanyam
15MES86	Seminar	BCM	Mr.Bapugowda C M

[Signature]
HOD
Dept. of Mechanical Engg.
ACS College of Engineering

[Signature]
Administrative Officer
ACS College of Engineering
Bangalore-560074

[Signature]
Principal
ACS College of Engineering
Kambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074.



CLASS TIME TABLE 2020 (EVEN SEMESTER)

Class strength: 43

DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 10/02/2020

Semester- VIII

CLASS TEACHER: Mr. SUNIL RAJ B A

ROOM NO: 206

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30AM to 10.45AM	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45PM to 01.30PM	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	15ME832	15ME82	TEA BREAK	15ME81	SOFT SKILL	LUNCH BREAK	15ME832	INTERNSHIP	
TUE	15ME82	15ME81		15ME832	15ME81		SUBJECT SEMINAR		
WED	15ME81	15ME82		15ME832	15ME82		PROJECT SEMINAR		
THU	PROJECT PHASE – II			PROJECT PHASE – II			PROJECT PHASE – II		
FRI	PROJECT PHASE – II			PROJECT PHASE – II			PROJECT PHASE – II		
SAT	As per the College Academic Calendar					As per the College Academic Calendar			

Sub Code	Name of the Subject	Initials	Name of the Faculty
15ME81	Operations Research	SJ	Mr. Sunil Raj B A(4)
15ME82	Additive Manufacturing	Dr.SPM	Dr.P M. Suresh(4)
15ME832	Experimental Stress Analysis	SGR	Mr.Sandeep G R(4)
15ME84	Internship / Professional Practice	RS	Mr.Rakesh S
15ME85	Project Phase – II	CB/ Dr. RSS	Mr.Chandrashekhar.B/Dr. R Sivasubramanyam
15MES86	Seminar	RS	Mr.Rakesh S

Note- *As Per VTU Regulation 85% of attendance is Compulsory in each subject.

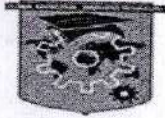
Mentors- All the Project Guides

P. Sivasankar
Time table coordinator
Prof. P Sivasankar

Sivasankar
02/10/20
HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

S. Sivasubramanyam
Administrative Officer
Dr. Sivasubramanyam R
Administrative Officer
ACS College of Engineering
Bangalore-560074

Principals
06/02/2020
PRINCIPAL
Dr. M.S. Prasad
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli
Bangalore - 560 074



OFFLINE CLASS TIME TABLE 2021 (EVEN SEMESTER)

DEPARTMENT OF MECHANICAL ENGINEERING

Semester-VIII

CLASS TEACHER: Mr.Sunilraj B A

w.e.f: 19/04/2021

ROOM NO: 203

Date/Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.30PM	02.30PM to 03.30PM	
MON	17ME81 /15ME81	17ME82 /15ME82	TEA BREAK	17ME81 /15ME81	17ME832 /15ME832	LUNCH BREAK	17ME82 /15ME82	17ME832 /15ME832	
TUE	17ME832 /15ME832	17ME81 /15ME81		17ME82 /15ME82	17ME81 /15ME81		17ME832 /15ME832	17ME82 /15ME82	17ME832 /15ME832
WED	PROJECT PHASE – II			PROJECT PHASE – II			SEMINAR		
THU	PROJECT PHASE – II			PROJECT PHASE – II			PROJECT PHASE – II		
FRI	PROJECT PHASE – II			PROJECT PHASE – II			PROJECT PHASE – II		
SAT	PROJECT PHASE – II			PROJECT PHASE – II			PROJECT PHASE – II		

Sub Code	Name of the Subject	Initials	Name of the Faculty
17ME81/15ME81	Operations Research	SJ	Mr. Sunil Raj B A
17ME82/15ME82	Additive Manufacturing	Dr.SPM	Dr.P M. Suresh
17ME832/15ME832	Experimental Stress Analysis	SGR	Mr.Sandeep G R
17ME84/15ME84	Internship / Professional Practice	KBM	Mr.Kumara B.M
17ME85/15ME85	Project Phase – II	CB	Mr.Chandrashekhar.B
17MES86/15MES86	Seminar		

Shashidhar
HOD-ME 16/4/2021

ACS COLLEGE OF ENGINEERING
 Department of Mechanical Engineering
CLASS TIME TABLE 2016 (ODD SEMESTER)

w.e.f:19/09/16

Semester - I M.Tech. (PDM)

CLASS TEACHER: Dr. Suresh P M

ROOM NO:

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	16MPD14	16MPD12	TEA BREAK	16MPD154	16MPD13	LUNCH BREAK	Seminar (16MPD17)		
TUE	16MPD12	16MPD14		16MPD154	16MPD14		Seminar (16MPD17)		
WED	16MPD154	16MPD11		16MPD14	16MPD13		Seminar (16MPD17)		
THU	16MPD12	16MPD13		16MPD154	16MPD11				
FRI	16MPD11	16MPD11		16MPD13	16MPD12				
SAT	Lab Component (16MPD16)-HSS								

Sub Code	Name of the Subject	Initials	Name of the Faculty
16MPD11	Product design and development	CB	Mr. Chandrashekhar B
16MPD12	Product Life Cycle Management	Dr.A.K	Dr.Anand Kumar
16MPD13	Advanced Material Technology	Dr. SPM	Dr. Suresh P M
16MPD14	Finite Element Method	PSR	Mr. P Sivashankar
16MPD154	Quality By Design	SJ	Mr. Sunil Raj B A
16MPD16	Lab Component	HSS	Mr. Siddesha.H.S.
16MPD17	Seminar		All faculties

[Signature]
 PG Co-ordinator 21/9/2016

[Signature]
 HOD
 HOD-ME
 Dept. of Mechanical Engg.
 ACS College of Engineering
 Bangalore - 560 074.

[Signature]
 Principal
 A.C.S. College of Engineering
 Kambipura, Mysore Road, Kengeri Hobli,
 Bangalore - 560 074



CLASS TIME TABLE 2018 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f:22/10/18

Semester - I M.Tech. (PDM)

CLASS TEACHER: Mr.Sivashankar P

ROOM NO: 203

Date/Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	17MPD12	17MPD14	TEA BREAK	17MPD11	17MPD13	LUNCH BREAK	Seminar (17MPD17)		
TUE	17MPD11	17MPD13		17MPD154	17MPD12		Seminar (17MPD17)		
WED	17MPD11	17MPD14		17MPD154	17MPD13		Seminar (17MPD17)		
THU	17MPD154	17MPD14		17MPD12	17MPD11		Seminar (17MPD17)		
FRI	17MPD14	17MPD13		17MPD154	17MPD12		Seminar (17MPD17)		
SAT	Lab Component (17MPD16)-HSS								

Sub Code	Name of the Subject	Initials	Name of the Faculty
17MPD11	Product design and development	SRS	Mr.Srinidhi Acharya
17MPD12	Product Life Cycle Management	BCM	Mr.Bapugowda C M
17MPD13	Advanced Material Technology	KBM	Mr.Kumara B.M
17MPD14	Finite Element Method	PSR	Mr.Sivashankar P
17MPD154	Quality By Design	RS	Mr.Rakesh S
17MPD16	Lab Component	HSS	Dr. Siddesha H S
17MPD17	Seminar		All faculties

PG Co-ordinator

Sivashankar P
HOD-ME 22/10/2018

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CLASS TIME TABLE 2021 (ODD SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

w.e.f: 18/01/2021

Semester - I M.Tech. (PDM)

CLASS TEACHER: Mr.Jayanna K N

ROOM NO: Smart Class

Date/ Time	09.30 AM to 10.30AM	10.30AM to 11.30AM	11.30 to 11.45	11.45AM to 12.45AM	12.45AM to 01.15PM	01.15PM to 02.15PM	02.15PM to 03.15PM	
MON	20MPD15	20MPD12	TEA BREAK	20MPD13	LUNCH BREAK	20MPD11	20RMI17	
TUE	20MPD12	20MPD13		20MPD15		20MPD14	20MPD11	20MPD11
WED	20MPD13	20MPD12		20MPD14		20RMI17	20RMI17	20RMI17
THU	20MPD14	20MPD15		20MPD13		20MPD11	20RMI17	20RMI17
FRI	20MPD12	20MPD14		20MPD15		20MPD11	20RMI17	20RMI17
SAT	20MPDL16			20MPDL16				

Sub Code	Name of the Subject	Initials	Name of the Faculty
20MPD11	Mathematical Methods in Engg	Dr.RG	Dr. Raghavendra
20MPD12	Product Design and Development	Mr.JKN	Mr.Jayanna K N
20MPD13	Finite Element Analysis	Mr.PHP	Mr.Punith H P
20MPD14	Product life cycle Management	Mr.UP	Mr.Upendra
20MPD15	Advanced Materials & Processing	Mr.SS	Mr.Suresh
20MPDL16	Basic Product Design Laboratory-I	Mr.CH	Mr.Choudhry
20RMI17	Research Methodology and IPR	Dr.GP	Dr. Ganeshan P

PG Co-ordinator
PG Co-ordinator

Principal
Principal

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HOD-Mech
HOD-Mech

ACS COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CLASS TIME TABLE 2016 - 17 (EVEN SEMESTER)

w.e.f:13/02/17

Semester - II M.Tech. (PDM)


CLASS TEACHER: Dr.Mohan raj

ROOM NO: 203

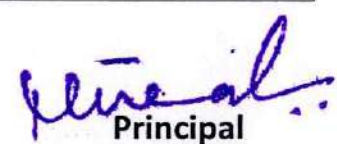
Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	16MPD254	16MPD23	TEA BREAK	16MPD21	16MPD22	LUNCH BREAK	SEMINAR		
TUE	16MPD21	16MPD24		16MPD22	16MPD254		SEMINAR		
WED	16MPD21	16MPD254		16MPD24	16MPD23		SEMINAR		
THU	16MPD22	16MPD23		16MPD21	16MPD24		SEMINAR		
FRI	16MPD24	16MPD23		16MPD22	16MPD254		SEMINAR		
SAT	16MPD26 Lab Component-BCM								

Sub Code	Name of the Subject	Initials	Name of the Faculty
16MPD21	Industrial Design & Ergonomics	Dr.M.R	Dr.Mohan raj
16MPD22	Product Data Management	Dr.EM	Dr. M. Eswarmoorthy
16MPD23	Design For Manufacture	Dr.SPM	Dr.P M. Suresh
16MPD24	Rapid Prototyping	BCM	Mr. Bapu Gowda C M
16MPD254	Lean Manufacturing System	Dr.RSS	Dr. R Shivasubramanyam
16MPD26	Lab Component	BCM	Mr. Bapu Gowda C M
16MPD27	Seminar	All faculties	

PG Co-ordinator


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HOD

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Bangalore - 560 074



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CLASS TIME TABLE 2020 (EVEN SEMESTER)
DEPARTMENT OF MECHANICAL ENGINEERING

W.e-t:-


Semester – II M.Tech. (PDM)

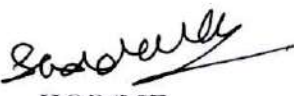
CLASS TEACHER: Dr.Suresh P M

ROOM NO: CIM Lab

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	18MPD22	18MPD243	TEA BREAK	18MPD21	18MPD23	LUNCH BREAK	Seminar (18MPD27)		
TUE	18MPD21	18MPD23		18MPD253	18MPD22		Lab Component (18MPDL26)		
WED	18MPD21	18MPD243		18MPD253	18MPD23				
THU	18MPD253	18MPD243		18MPD22	18MPD21				
FRI	18MPD243	18MPD23		18MPD253	18MPD22				
SAT									

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MPD21	Industrial Design & Ergonomics	Dr.GP	Dr. Ganeshan P
18MPD22	Design for Manufacturing	Mr.JY	Mr.Jayanna
18MPD23	Product Planning & Marketing	Mr.HBP	Mr.Punith H B
18 MPD 243	Non Traditional Machining Process	Dr.UA	Mr.Upendra
18 MPD 253	Lean Manufacturing System	Mr.SS	Mr.Suresh
18 MPD L26	Product Design Lab-2	Dr.HSS	Dr.Siddesha H S
18 MPD 27	Technical Seminar	Dr.SPM/Dr.HSS	Dr.P M. Suresh / Dr.Siddesha H S


Time table coordinator
Prof. P Sivasankar


HOD/ME
Dr. Siddesh HS
HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.


Administrative Officer
Dr.Sivasubramaniyam
ACS College of Engineering
Bangalore-560074


PRINCIPAL
Dr. M.S Murali
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli
Bangalore - 560 074

ACS COLLEGE OF ENGINEERING
Department of Mechanical Engineering
CLASS TIME TABLE 2017 - 18 (EVEN SEMESTER)

Semester - II M.Tech. (PDM)

CLASS TEACHER: Mr.Sivasankar.P

w.e.f:

ROOM NO: 203

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	17MPD23	17MPD22	TEA BREAK	17MPD24	17MPD21	LUNCH BREAK	SEMINAR		
TUE	17MPD22	17MPD23		17MPD21	17MPD254		SEMINAR		
WED	17MPD24	17MPD254		17MPD22	17MPD21		SEMINAR		
THU	17MPD254	17MPD23		17MPD21	17MPD24		SEMINAR		
FRI	17MPD22	17MPD23		17MPD24	17MPD254		SEMINAR		
SAT	17MPD26 Lab Component-RS								

Sub Code	Name of the Subject	Initials	Name of the Faculty
17MPD21	Industrial Design & Ergonomics	Dr.RSS	Dr. R. Sivasubramanyam
17MPD22	Product Data Management	SJ	Mr. Sunil Raj B A
17MPD23	Design For Manufacture	RS	Mr.Rakesh S
17MPD24	Rapid Prototyping	CB	Mr.Chandrashekhar.B
17MPD254	Non-traditional Machining process	PSR	Mr.Sivasankar P
17MPD26	Lab Component	RS	Mr.Rakesh S
17MPD27	Seminar	All faculties	

PG Co-ordinator

Shobanell
HOD-ME

Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

Srinivas
Principal

Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hoalli
Bangalore - 560 074

ACS COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CLASS TIME TABLE 2016 -17(EVEN SEMESTER)

w.e.f:02/02/17

Semester - IV M.Tech. (PDM)


CLASS TEACHER: Prof. Siddesh.H.S

ROOM NO: 203

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM
MON	PROJECT WORK		TEA BREAK	PROJECT WORK		LUNCH BREAK	PROJECT WORK		
TUE	PROJECT WORK			PROJECT WORK			PROJECT WORK		
WED	PROJECT WORK			PROJECT WORK			PROJECT WORK		
THU	PROJECT WORK			PROJECT WORK			Evaluation of Project phase - II		
FRI	14MPD41	14MPD422		14MPD41	14MPD422		Evaluation of Project phase - III		
SAT	14MPD422	14MPD41		14MPD422	14MPD41				

Sub Code	Name of the Subject	Initials	Name of the Faculty
14MPD41	Advanced Manufacturing Practices	HSS	Mr.Siddesha H S
14MPD422	Product Planning and Marketing	BCM	Mr. Bapu Gowda C M
14MPD43	Evaluation of Project phase -II	Dr.P M. Suresh / Mr.Siddesha H S	
14MPD17	Project work	Dr.P M. Suresh / Mr.Siddesha H S	

PG Co-ordinator


HOD
 Dept. of Mechanical Engg.
 ACS College of Engineering
 Bangalore - 560 074.


Principal
Principal
 A.C.S. College of Engineering
 Cambipura, Mysore Road, Kengeri Hobli.
 Bangalore - 560-074

ACS COLLEGE OF ENGINEERING
Department of Mechanical Engineering
CLASS TIME TABLE 2017 -18(EVEN SEMESTER)

w.e.f:08/01/17

Semester - IV M.Tech. (PDM)

CLASS TEACHER: Mr.Rakesh.S

ROOM NO: CIM LAB

Date/ Time	08.30 AM to 09.30AM	09.30AM to 10.30AM	10.30 to 10.45	10.45AM to 11.45AM	11.45AM to 12.45PM	12.45 to 01.30	01.30PM to 02.20PM	02.20PM to 03.10PM	03.10PM to 04.00PM	
MON	PROJECT WORK		TEA BREAK	PROJECT WORK		LUNCH BREAK	PROJECT WORK			
TUE	PROJECT WORK			PROJECT WORK			PROJECT WORK			
WED	PROJECT WORK			PROJECT WORK			PROJECT WORK			
THU	PROJECT WORK			PROJECT WORK			PROJECT WORK			
FRI	16MPD422	16MPD422		16MPD41	16MPD41		Evaluation of Project phase - II			
SAT	16MPD41	16MPD41		16MPD422	16MPD422		Evaluation of Project phase - III			

Sub Code	Name of the Subject	Initials	Name of the Faculty
16MPD41	Advanced Manufacturing Practices	SGR	Mr.Sandeep G R
16MPD422	Product Planning and Marketing	Dr.EM	Dr. Eswarmoorthy
16MPD43	Evaluation of Project phase -II	Dr.P M. Suresh / Mr.Siddesha H S	
16MPD44	Project work	Dr.P M. Suresh / Mr.Siddesha H S	

PG Co-ordinator

Sandeep
8/1/2017
HOD
 Dept. of Mechanical Engg.
 ACS College of Engineering
 Bangalore - 560 074.

Sandeep
Principal
Principal
 A.C.S. College of Engineering
 Kambipura, Mysore Road, Kengeri Holli,
 Bangalore - 560 074

LESSON PLAN (SUBJECT - 1)

20/07/2019

Semester : 03

Subject : DSD

Subject Code : 18EC34

Week	Hour	Date	Topic to be covered	PO	CO
1	1	29/7/19	Introduction: principle of Combinational logic		
	2	31/7/19	definition of Combinational logic	1,2,3	1
	3	01/8/19	Canonical forms	4,5,6	
	4	02/8/19	Canonical forms	12	
2	5	5/8/19	Generation of Switching Equations		
	6	7/8/19	Karnaugh maps - 3 variables	1,2,3	1
	7	8/8/19	Karnaugh map - 4,5 variables	4,5,6	
	8	9/8/19	Numerical Example	12	
	9	10/8/19	Numerical Examples		
3	10	14/8/19	Incomplete specified functions		
	11	16/8/19	Simplifying max-term Equations	1,2,3	1
				4,5,6	
4	12	19/8/19	Quine - McCluskey Techniques - 3	1,2,3	1
	13	21/8/19	Quine - McCluskey Techniques - 4 variables	4,5,6	
	14	22/8/19	Numerical Examples	1,2	
	15	23/8/19	Analysis and design of Combinational		
	16	24/8/19	Decoders		
5	17	26/8/19	Encoder		
	18	28/8/19	Digital Multiplexers		
	19	29/8/19	Address	1,2,3	2
	20	30/8/19	Subtractors	4,5,6	
	21	31/8/19	Look ahead Carry Generator	12	
6	22	4/9/19	Binary Comparators		
	23	9/9/19	programmable Logic Devices (PLD)		
	24	11/9/19	Complex PLD		
	25	12/9/19	EPG/A		
	26	13/9/19	Flip-Flops and its Applications	1,2,3	3
7	27	14/9/19	Basic - Bistable Elements	4,5,6	
	28	16/9/19	Latches	12	
	29	18/9/19	The master-slave Flip-Flops		
	30	19/9/19	SR Flip-Flops		
	31	20/9/19	JK Flip-Flops		

LESSON PLAN (SUBJECT - 1)

Semester: 03

Subject: DSD 18EC34

Subject Code 18EC34

Week	Hour	Date	Topic to be covered	PO	CO
8	32	23/9/19	Characteristic Equations	1,2,3,4	
	33	25/9/19	Registers	5,6,7	
	34	26/9/19	Binary ripple counters	8,12	3
	35	27/9/19	Synchronous binary counters.		
9	36	30/9/19	Sequential Circuit Design		
	37	3/10/19	Design of a Synchronous Counter		
	38	4/10/19	Design of a Synchronous mod-n Counter		
	39	9/10/19	mod-n multi rising clocked JK, D	1,2,3,4	4,5
	40	10/10/19	and T and SR Flip flops.	5,6,7	
10	41	11/10/19	Numerical examples	12	
	42	14/10/19	Mealy and Moore model		
	43	16/10/19	State machine notation		
	44	21/10/19	Construction of state diagrams		
	45	23/10/19	Numerical example		
	46	24/10/19	Numerical example		
11	47	25/10/19	Numerical examples	1,2,3,4	4,5
	48	26/10/19	Applications of digital Ckts	6,7	
	49	28/10/19	Design of a sequence detector.	1,2	
	50	30/10/19	Guidelines for construction of state graphs		
	51	31/10/19	Design of code-converter		
12	52	4/11/19	Design of Iterative Ckts		
	53	6/11/19	Design of Iterative Circuits (Comparators)	1,2,3,4	4,5
	54	7/11/19	Design of ROMs	6,7,12	
	55	8/11/19	Design of PLAs		
	56	9/11/19	CPL DS		
13	57	11/11/19	FPGA's.		
	58	13/11/19	Serial adder with Accumulator		
	59	14/11/19	Design of binary multiplier	1,2,3,4	4,5,6
	60	18/11/19	Design of binary divider	6,7,12	
	61	20/11/19	Numerical examples		
14	62	25/11/19	Revision for the module 1		
	63	27/11/19	Revision for the module 2		
	64	28/11/19	Revision for the module 3		
	65	29/11/19	Revision for the module 4		
	66	30/11/19	Revision for the module 5		

for marks

LESSON PLAN (SUBJECT - 2)

24/02/2019

Semester: 07

Subject: Power Electronics

Subject Code: 15EC73

Week	Hour	Date	Topic to be covered	PO	CO
1	1	29/7/19	Introduction - Application of power Eln.	1, 2	
	2	30/7/19	power - semi conductor devices	4, 5, 6	
	3	31/7/19	power - sc - devices	1, 2	1
	4	2/8/19	control - characteristics of devices		
2	5	5/8/19	Types of power electronic ckt		
	6	6/8/19	peripheral effects	1, 2, 3	
	7	7/8/19	power transistor - Introduction	4, 5, 6	1
	8	9/8/19	power - BJT	1, 2	
	9	10/8/19	Steady state characteristics		
3	10	13/8/19	power MOSFET - device operation		
	11	14/8/19	switching characteristics	1, 2, 3	1, 2
	12	16/8/19	IGBT - device operation	4, 5, 6	
4	13	19/8/19	o/p and transfer characteristics		
	14	20/8/19	di/dt & dv/dt limitations	1, 2, 3	1, 2
	15	21/8/19	Numerical problems	4, 5, 6	
	16	23/8/19	Numerical examples	1, 2	
	17	24/8/19	Numerical examples		
5	18	26/8/19	Thyristors - Introduction		
	19	27/8/19	principle of operation of SCR	1, 2, 3	2, 3
	20	28/8/19	Static Anode - cathode charact	4, 5, 6	
	21	30/8/19	Two transistor model of SCR	1, 2	
	22	31/8/19	Gate characteristics of SCR		
6	23	3/9/19	Turn-on methods		
	24	4/9/19	Turn-off methods		
	25	9/9/19	Turn-off mechanism		
	26	11/9/19	Natural and forced commutation		
	27	13/9/19	Class A commutation	1, 2, 3, 4	2, 3
8	28	14/9/19	Class B Commutation	5, 6	
	29	16/9/19	Gate Trigger circuit	1, 2	
	30	17/9/19	Resistance firing circuit		
	31	18/9/19	Resistance capacitance firing ckt		
	32	20/9/19	VT firing circuit		

LESSON PLAN (SUBJECT - 2)

Semester: T 1st Year Subject: PE Subject Code: 15EC72

Week	DATE	Hour	Date	Topic to be covered	PO	CO
9	23/9	33		Controlled Rectifier - Introduction	1,2,3,4	
	24/9	34		principle of phase-controlled Conv	5,6	
	25/9	35		Numerical of $i\phi$ Converter	1,2	3,4
	27/9	36		1- ϕ Semiconverter operation		
10	30/9	37		derivation of 1- ϕ Semiconverter		
	1/10	38		Numerical of Semiconverter		
	4/10	39		AC voltage controller - Introduction	1,2,3,4	3,4
	5/10	40		principle of ON-OFF Control	5,6	
	9/10	41		Numerical Examples	1,2	
10	11/10	42		principle of phase angle control		
	12/10	43		Numerical example	1,2,3,4	3,4
	14/10	44		1- ϕ controller with RL load op.	5,6,11	
	15/10	45		derivation of RL load.		
11	21/10	46		DC-DC Converter - Introduction		
	22/10	47		principle of step down operation		
	23/10	48		principle of step up operation	1,2,3,4	3,4
	25/10	49		Step up Converter with R-load.	5,11	
	26/10	50		performance parameters		
12	28/10	51		Converter Classification		
	30/10	52		S.W.P.S.		
	4/11	53		Buck Boost Regulator	1,2,3,4	3,4
	5/11	54		Buck-Boost Regulator	5,6,7	
	6/11	55		Chopper Ckt design	6,11,12	
13	11/11	56		PWM Inverter - principle of operation		
	12/11	59		performance parameter		
	13/11	56		1- ϕ bridge inverter		
	18/11	57		Voltage control of 1- ϕ phase inverter	1,2,3	3,4
	19/11	60		Current Source inverter	4,5,11	
14	20/11	61		Variable DC link inverter, Boost inverter	1,2	
	25/11	62		Introduction to static switches		
	26/11	63		AC & DC switches	1,2,3	3,4
	27/11	64		Solid State Relays & microelectronic Relays	4,5,11	
				1,2		

K. K. K.

10/07/2020

LESSON PLAN (SUBJECT - 1)

Semester: IV

Subject: CONTROL SYSTEMS

Subject Code: 18EC43

Week	Hour	Date	Topic to be covered	PO	CO
1	1	Mid	Introduction to control systems, Types		1
	2		Effect of Feedback systems		1
	3		Differential Eq ⁿ of Physical systems		1
2	4		D.E of Mech. Sys, Electrical sys.		1
	5		D.E of E.M sys, Analogous Sys		1
	6		problems on Analogous Sys		1
	7		problems on Analogous Sys		1
3	8		problems on Analogous Sys		1
	9		Mod:2 Transfer function - Examples		2
	10		Block diagrams, Reduction tech.		2
4	11		Block dia, Red ⁿ tech, problems		2
	12		Signal flow Graphs - Steps:		2
	13		problems on SFG - Mason gain formula		2
5	14		SFG to Electrical N/W		2
	15		problems on Mason gain Eq ⁿ		2
	16		problems on		2
6	17	Mod:3	Time response of: FBCs, standard test		3
	18		unit step response of First & Second order Sys.		3
7	19		Time response Specifications.		3
	20		Time response of Second order Sys.		3
	21		Steady State errors & Error Constants		3

LESSON PLAN (SUBJECT - 1)

Semester: IV

Subject: CONTROL SYSTEMS

Subject Code: 18EC1

Week	Hour	Date	Topic to be covered	PO	CO
8	22		Intro to PI, PD controllers		3
	23		PID controllers		3
	24		Problems on time response CS.		3
9	25	MOD 4	Stability Analysis Concepts		4
	26		Necessary conditions; Routh's Stability		4
	27		Relative Stability - Routh's problem		4
10	28		Root locus tech: Problems		4
	29		Construction of Root Locus		4
	30		Correlation b/w T&F, Bode plots		5
11	31		Expt. determination of T-F		5
	32		Intro to polar plots; Mathe preliminaries		6
	33		Nyquist Stability criteria		5
12	34		Intro to lead, lag N/Ws		5
	35		lead-lag N/Ws		5
	36		Intro to State variables		5
13	37		concept of stat, State variables		5
	38		State Models for electrical sys		5
	39		Solns to State Eqn		5
14	40		Problems		5

Pharad Jyoti

Shub
 HOD
 Dept. of ECE
 College of Engineering
 Sree Narayana Guru Vastu

10/02/2020

LESSON PLAN (SUBJECT - 2)

Semester: VI

Subject: Digital Switching Systems Subject Code: ITEC 654

Week	Hour	Date	Topic to be covered	PO	CO
1	1		Development of Telecomm's N/W Sys		1
	2		N/W Services, Terminology		1
	3		Standards, Regulations		1
2	4		Telecomm ^o - tx, power levels		1
	5		Four wire circuit, Digital tx		1
	6		FDM, TDM		1
3	7		PDH & SDH		1
	8		TX performance		1
	9		Intro, M/Sg Switching ckt Switching Function of switching Sys.		2
4	10		Distribution System, Basis of cross bar Sys, Electronic Switching.		2
	11		purpose of analysis, co linkage		2
	12		switching Sys hierarchy, evolution of digital switching Sys		2
5	13		store program control S.S		2
	14		Digital switching Sys fundamentals		2
	15		Building blocks of a DSS		2
6	16		Basic call processing		3
	17		Introduction, unit of Traffic.		3
	18		congestion, Traffic measurement		3
7	19		Mathematical Model, lost call Sys Queueing Sys.		3
	20	11	Interference Suppression & Spatial Multiplexing	3	3
	21		Switching Sys - Introduction		3

LESSON PLAN (SUBJECT - 2)

Subject: DSS

Subject Code: TEC651

Semester: V

Week	Hour	Date	Topic to be covered	PO	CO
8	22		Introduction - Switching Sys		1
	23		Single Stage N/W, GOS		1
	24		GOS of linked Sys		1
9	25		TDM - Introduction		1
	26		Space & Time Switching		1
	27		Time Switching, N/W		1
10	28		Syn		5
	29		Switching Sys S/W - Generic pgm		5
	30		S/W archi. level 1, 2, 3 connect		5
11	31		call models, connect seq.		5
	32		Maintenance of DSS		5
	33		S/W Maintenance		5
12	34		Interface of DSS - co. linkages		5
	35		Generic pgm - upgradation		5
	36		switching sys maintainability		5
13	37		Generic DSS Model - Intro		5
	38		H/W: S/W archi Recovery strategy		5
	39		call through DSS, Chrg. of DSS		5
14	40		Analysis & Reports - Reliability Analysis		5
			Characterization		



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
LESSON PLAN

Semester: III Semester

Year: 2017-18

Subject Title: Analog Electronics		Subject Code: 15EC32
Total contact Hours: 52		Duration of Exam: 03 Hrs.
Total exam marks: 80		Total I.A. marks: 20
Lesson plan author: Dr. Bhuvaneshwari H B & Mr. Nagesh H B		Date: 07-08-2017

Sl. No.	DATE	TOPICS	Remarks
1	7-8-17	Module - 1 BJT AC Analysis: BJT AC Analysis: BJT Transistor Modeling	
2	10-8-17	The re transistor model	
3	11-8-17	Common emitter fixed bias	
4	12-8-17	Voltage divider bias	
5	14-8-17	Emitter follower configuration	
6	17-8-17	Darlington connection-DC bias: The Hybrid equivalent model	
7	18-8-17	Approximate Hybrid Equivalent Circuit-Fixed bias	
8	19-8-17	Voltage divider	
9	21-8-17	Emitter follower configuration; Complete Hybrid equivalent model	
10	24-8-17	Hybrid π Model	
11	26-8-17	Module -2 Field Effect Transistors: Construction and Characteristics of JFETs	
12	28-8-17	Transfer Characteristics	
13	31-8-17	Depletion type MOSFET	
14	1-9-17	Enhancement type MOSFET	
15	4-9-17	FET Amplifiers: JFET small signal model	
16	7-9-17	Fixed bias configuration	
17	8-9-17	Self bias configuration	
18	9-9-17	Voltage divider configuration	
19	11-9-17	Common Gate configuration	
20	14-9-17	Source-Follower Configuration	
21	15-9-17	Cascade configuration	
22	21-9-17	Module -3 BJT and JFET Frequency Response: Logarithms	
23	22-9-17	Decibels	
24	23-9-17	Low frequency response	
25	25-9-17	BJT Amplifier with RL	
26	28-9-17	Low frequency response-FET Amplifier	
27	6-10-17	Miller effect capacitance	

28	7-10-17	High frequency response	
29	9-10-17	BJT Amplifier	
30	12-10-17	High frequency response-FET Amplifier	
31	13-10-17	Multistage Frequency Effects	
32	14-10-17	Module -4	
		Feedback and Oscillator Circuits: Feedback concepts	
33	16-10-17	Feedback connection types	
34	19-10-17	Practical feedback circuits	
35	21-10-17	Oscillator operation	
36	23-10-17	FET Phase shift oscillator	
37	26-10-17	Continue the same	
38	2-11-17	Wein bridge oscillator	
39	3-11-17	Tuned Oscillator circuit	
40	4-11-17	Crystal oscillator	
41	9-11-17	Continue the same	
42	10-11-17	UJT construction	
43	11-11-17	UJT Oscillator	
44	13-11-17	Module -5	
		Power Amplifiers: Definition and amplifier types	
45	20-11-17	Series fed class A amplifier	
46	23-11-17	Transformer coupled	
47	24-11-17	class A amplifier	
48	25-11-17	Continue the same	
49	26-11-17	Class B amplifier operation and circuits,	
50	26-11-17	Amplifier distortion, Class C and Class D amplifiers	
51	27-11-17	Voltage regulators: Discrete transistor voltage regulation	
52	27-11-17	Series and Shunt Voltage regulators	

Text Books:

1. Robert L. Boylestad and Louis Nashelsky, "Electronics devices and Circuit theory", Pearson, 10th Edition, 2012. ISBN: 978-81-317-6459-6.

Reference Books:

1. Adel S. Sedra and Kenneth C. Smith, "Micro Electronic Circuits Theory And Application," 5th Edition ISBN:0198062257
2. Fundamentals of Microelectronics, Behzad Razavi, John Wiley ISBN 2013 978-81-265-2307-8
3. J. Millman & C.C. Halkias—Integrated Electronics, 2nd edition, 2010, TMH. ISBN 0-07-462245-5
4. K. A. Navas, "Electronics Lab Manual", Volume I, PHI, 5th Edition, 2015, ISBN:9788120351424.

Evaluation:

1. Student Assessment: Through Internal assessment

Faculty In-charge

Dr. Bhuvaneshwari H B

Mr. Nagesh H B

HOD, ECE

HOD

Dept. of ECE

ACS College of Engineering
Bangalore - 560 074.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2018-19 (EVEN SEMESTER)
COURSE LESSON PLAN

Department: ECE

Class/Sem: VIII SEM

Course Code: 15EC82

Course Name: Fiber optics and Networks

Hrs. /Week: 4

Total Number of Lecture Hours: 50 (10 Hrs/ Module)

IA marks: 20

Exam Marks: 80

Day	Topic Planned
1	Optical fiber Communications: Historical development
2	The general system, Advantages of optical fiber communication
3	Optical fiber waveguides: Ray theory transmission, Modes in planar guide
4	Phase and group velocity, Cylindrical fiber: Modes
5	Step index fibers, Graded index fibers, Single mode fibers
6	Cutoff wavelength
7	Mode field diameter
8	Effective refractive index
9	Fiber Materials
10	Photonic crystal fibers
11	Transmission characteristics of optical fiber: Attenuation
12	Material absorption losses
13	Linear scattering losses, Nonlinear scattering losses
14	Fiber bend loss
15	Dispersion
16	Chromatic dispersion
17	Intermodal dispersion: Multimode step index fiber
18	Optical Fiber Connectors
19	Fiber alignment and joint loss, Fiber splices
20	Fiber connectors, Fiber couplers
21	Optical sources: Energy Bands, Direct and Indirect Bandgaps
22	Light Emitting diodes: LED Structures
23	Light Source Materials, Quantum Efficiency and LED Power
24	Modulation. Laser Diodes: Modes and Threshold conditions, Rate equation
25	External Quantum Efficiency, Resonant frequencies
26	Laser Diode structures and Radiation Patterns: Single mode lasers
27	Photodetectors: Physical principles of Photodiodes
28	Photodetector noise, Detector response time
29	Optical Receiver: Optical Receiver Operation: Error sources
30	Front End Amplifiers, Receiver sensitivity, Quantum Limit
31	WDM Concepts and Components: Overview of WDM: Operational Principles of WDM
32	WDM standards

33	Mach-Zehnder Interferometer Multiplexers
34	Isolators and Circulators, Fiber grating filters
35	Dielectric Thin-Film Filters, Diffraction Gratings
36	Active Optical Components, Tunable light sources
37	Optical amplifiers: Basic application and Types
38	Semiconductor optical amplifiers, Erbium Doped Fiber Amplifiers
39	Raman Amplifiers
40	Wideband Optical Amplifiers.
41	Optical Networks: Optical network evolution and concepts; Optical networking terminology
42	Optical network node and switching elements, Wavelength division multiplexed networks
43	Public telecommunication network overview. Optical network transmission modes, layers and protocols: Synchronous networks
44	Asynchronous transfer mode, OSI reference model, Optical transport network, Internet protocol
45	Wavelength routing networks: Routing and wavelength assignment
46	Optical switching networks: Optical circuit switched networks, packet switched networks
47	Multiprotocol Label Switching, Optical burst switching networks
48	Optical network deployment
49	Long-haul networks
50	Metropolitan area networks, Access networks, Local area networks

Course outcomes: At the end of the course, students will be able to:	
CO1	Classification and working of optical fiber with different modes of signal propagation.
CO2	Describe the transmission characteristics and losses in optical fiber communication.
CO3	Describe the construction and working principle of optical connectors, multiplexers and amplifiers.
CO4	Describe the constructional features and the characteristics of optical sources and detectors.
CO5	Illustrate the networking aspects of optical fiber and describe various standards associated with it.

Text Books:

1. Gerd Keiser, Optical Fiber Communication, fifth Edition, McGraw Hill 150 Education (India) Private Limited, 2015. ISBN: 1-25-900687-5.
2. John M Senior, Optical Fiber Communications, Principles and Practice, 3rd Edition, Pearson Education, 2010, ISBN: 978-81-317-3266-3

Faculty Incharge
Mr. Vijaya Kumar H R

HOD, ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING
LESSON PLAN

Semester: IV Semester (Even)

Year: 2018-19

Subject Title: Microprocessor	Subject Code: 17EC46
Total Lecture Hours: 40	Duration of Exam: 03 Hrs.
Total SEE Marks: 60	Total CIE Marks: 40
Lesson plan author: Mr. Nagesh H B	Date: 01-02-2019

DAY	TOPICS	Remarks
1	8086 PROCESSOR: Historical background	
2	8086 CPU Architecture	
3	Addressing modes	
4	Machine language instruction format	
5	Machine coding the program	
6	INSTRUCTION SET OF 8086: Data transfer and arithmetic instructions.	
7	Control/Branch Instructions	
8	Illustration of these instructions with example programs	
9	Logical Instructions	
10	String manipulation instructions	
11	Flag manipulation and Processor control instructions	
12	Illustration of these instructions with example programs. Assembler Directives and Operators	
13	Assembly Language Programming and example programs	
14	Stack and Interrupts: Introduction to stack	
15	Stack structure of 8086	
16	Programming for Stack	
17	Interrupts and Interrupt Service routines	
18	Interrupt cycle of 8086	
19	NMI	
20	INTR. Interrupt programming	
21	Passing parameters to procedures	
22	Macros	
23	Timing and Delays	
24	8086 Bus Configuration and Timings: Physical memory Organization	
25	Special processor activities	
26	Minimum mode 8086 system and Timing diagrams	
27	Maximum Mode 8086 system and Timing diagrams	
28	Basic Peripherals and their Interfacing with 8086 (Part 1): Static RAM Interfacing with 8086	
29	Interfacing I/O ports. PIO 8255	
30	Modes of operation - Mode-0 and BSR Mode. Interfacing Keyboard	

	and 7-Segment digits using 8255	
31	Basic Peripherals and their Interfacing with 8086 (Part 2): Interfacing ADC-0808/0809	
32	DAC-0800	
33	Stepper Motor using 8255	
34	Timer 8254 – Mode 0, 1, 2 & 3 and Interfacing programmes for these modes	
35	INT 21H DOS Function calls - for handling Keyboard and Display (refer Appendix-B of Text).	
36	Other Architectures: Architecture of 8088 (refer 1.10 upto 1.10.1 of Text)	
37	Von-Neumann & Harvard CPU architecture and CISC & RISC CPU architecture	
38	Von-Neumann & Harvard CPU architecture and CISC & RISC CPU architecture	
39	Architecture of NDP 8087	
40	Architecture of NDP 8087	

Course Outcomes: After studying this course, students will be able to:

- Explain the History of evolution of Microprocessors, Architecture and instruction set of 8086, 8088, 8087 & RISC. Von-Neumann & Harvard CPU Architecture, Configuration & Timing diagrams of 8086 Instruction set of 8086.
- Write 8086 Assembly level programs using the 8086 instruction set
- Write modular programs using procedures and macros.
- Write 8086 Stack and Interrupts programming
- Interface 8086 to Static memory chips and 8255, 8254, 0808 ADC, 0800 DAC, Keyboard, Display and Step motors.
- Use INT 21 DOS interrupt function calls to handle Keyboard and Display.

Nagesh H B
 Faculty In-charge
 Mr. Nagesh H Bp-

[Signature]
 HOD, ECE

HOD
 Dept. of ECE
 ACS College of Engineering
 Bangalore - 560 074.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2018-19
COURSE LESSON PLAN

Department: ECE
Course Name: 8051 Microcontroller

Class/Sem: V SEM
Course Code: 18EC63
Hrs/Week: 3

Day	Date	Topic Planned
1		Introduction to Microcontroller
2		Microprocessor Vs Microcontroller
3		Embedded Systems, Embedded
4		Microcontrollers, 8051 Architecture Block diagram
5		8051 Registers,
6		8051 Pin diagram
7		I/O ports functions
8		Concepts of Memory
9		Internal Memory organization.
10		External Memory (ROM & RAM) interfacing.
11		Addressing Modes,
12		Data Transfer Instructions
13		Arithmetic instructions
14		Logical instructions
15		Branch instructions
16		Bit manipulation Instructions.
17		Simple Assembly language program examples (without loops) to use these instructions.
18		8051 Stack, Stack and Subroutine instructions.
19		Assembly language program examples on subroutine and involving loops - Delay subroutine,
20		Factorial of an 8 bit number (result maximum 8 bit)
21		Block move without overlap,
22		Addition of N 8 bit numbers with examples
23		Picking Smallest/largest of N 8 bit numbers.

24	Interfacing simple switch LED to I/O ports to switch on/off LED with respect to switch status.
25	8051 Timers and Counters
26	Operation and Assembly language programming to generate a pulse using Mode-1
27	A square wave using Mode-2 on a port pin, programming in Ass
28	8051 Serial Communication
29	Basics of Serial Data Communication
30	RS-232 standard
31	9 pin RS232 signals and its functions
32	Simple Serial Port
33	Simple serial port examples.
34	8051 Interrupts.
35	8051 Assembly language programming to generate an external interrupt using a switch
36	8051 C programming to generate a square waveform on a port pin using a Timer interrupt.
37	Interfacing 8051 to ADC-0804,
38	LCD 8051 Assembly language interfacing programming
39	
40	Stepper motor 8051 Assembly language interfacing programming

Course outcomes: At the end of the course, students will be able to:

CO1	Explain the difference between Microprocessors & Microcontrollers, Architecture of 8051 Microcontroller, and Interfacing of 8051 to external memory and Instruction set of 8051.
CO2	Write 8051 Assembly level programs using 8051 instruction set.
CO3	Explain the Interrupt system, operation of Timers/Counters and Serial port of 8051.
CO4	Write 8051 Assembly language program to generate timings and waveforms using 8051 timers, to send & receive serial data using 8051 serial port and to generate an external interrupt using a switch.
CO5	Write 8051 C programs to generate square wave on 8051 I/O port pin using interrupt and to send & receive serial data using 8051 serial port.
CO6	Interface simple switches, simple LEDs, ADC 0804, LCD and Stepper Motor to 8051 using 8051 I/O ports.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

LESSON PLAN

Semester: III Semester

Year: 2018-19

Subject Title: ENGINEERING ELECTROMAGNETICS	Subject Code: 17EC36
Total Lecture Hours: 50	Duration of Exam: 03 Hrs.
Total SEE Marks: 60	Total CIE Marks: 40
Lesson plan author: Mr. Harish L	Date: 01-08-2018

Day	Topic Planned	Remarks
1.	Introduction to field theory and basic concepts	
2.	MODULE 1 Coulomb's Law, Electric Field Intensity and Flux density Experimental law of coulomb	
3.	Experimental law of coulomb	
4.	Experimental law of coulomb	
5.	Electric field intensity	
6.	Electric field intensity	
7.	Field due to continuous volume charge distribution	
8.	Field due to continuous volume charge distribution	
9.	Field of a line of charge	
10.	Electric flux density	
11.	MODULE 2 Gauss's law and divergence Gauss law	
12.	Gauss law	
13.	Divergence	
14.	Maxwell's first equation (electrostatics)	
15.	Vector Operator ∇ and divergence theorem	
16.	Energy, Potential and conductors Energy expended in moving a point charge in an electric field	
17.	The line integral	
18.	Definition of potential difference and potential	
19.	The potential field of a point charge	
20.	Current and current density	
21.	Current and current density	
22.	Module 3 Poisson's and Laplace's equations: Derivation of Poisson's and Laplace's equation	

23.	Uniqueness theorem	
24.	Example of the solution of the Laplace's equation	
25.	Example of the solution of the Laplace's equation	
26.	Example of the solution of the Laplace's equation	
27.	The steady magnetic field Biot- Savart law	
28.	Ampere's circuital law	
29.	Curl	
30.	Stokes' theorem	
31.	Magnetic flux and flux density	
32.	Scalar and Vector magnetic potentials	
33.	MODULE 4 Magnetic forces: Forces on moving charge	
34.	Differential current elements	
35.	Differential current elements	
36.	Forces between differential current elements	
37.	Magnetic materials Magnetization and permeability	
38.	magnetic boundary conditions	
39.	magnetic boundary conditions	
40.	Magnetic circuit	
41.	Potential energy and forces on magnetic materials	
42.	MODULE 5: Time varying fields and Maxwell's equations: Faraday's law	
43.	Displacement current	
44.	Maxwell's equation in point and Integral form	
45.	Maxwell's equation in point and Integral form	
46.	Uniform Plane wave Wave propagation in free space	
47.	Wave propagation in good conductor	
48.	Poynting's theorem	
49.	wave power	
50.	Skin effect	


TEXT BOOK:

1. "W.H. Hayt and J.A. Buck, —Engineering Electromagnetics , 7th Edition, Tata McGraw-Hill, 2009, ISBN-978-0-07-051223-5.

REFERNCE BOOKS:

1. "Electromagnetics with Applications", John Krauss and Daniel A Fleisch, McGraw-Hill, 5th edition, 1999.
2. "Fundamentals of Electromagnetics for Engineering", N. Narayana Rao, Pearson .


Faculty In-charge


HOD, ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING LESSON PLAN

Year: 2018-19

Semester: VII Semester

Subject Title: Digital Image Processing	Subject Code: 15EC72
Total Lecture Hours: 50	Duration of Exam: 03 Hrs.
Total SEE Marks: 80	Total CIE Marks: 20
Lesson plan author: Mr.Ramesha M	


DAY	TOPICS	Remarks
1	Module-1: Digital Image Fundamentals:	
2	What is Digital Image Processing?	
3	Origins of Digital Image Processing	
4	Examples of fields that use DIP	
5	Fundamental Steps in Digital Image Processing	
6	Components of an Image Processing System	
7	Elements of Visual Perception	
8	Image Sensing and Acquisition Some Basic Relationships Between Pixels	
9	Image Sampling and Quantization , Linear and Nonlinear Operations	
10	Linear and Nonlinear Operations	
11	Module -2: Spatial Domain:	
12	Some Basic Intensity Transformation Functions	
13	Histogram Processing	
14	Fundamentals of Spatial Filtering	
15	Smoothing Spatial Filters	
16	Sharpening Spatial Filters	
17	Frequency Domain: Preliminary Concepts , The Discrete Fourier Transform (DFT) of Two Variables , Properties of the 2-D DFT	
18	Filtering in the Frequency Domain	
19	Image Smoothing and Image Sharpening Using Frequency Domain Filters	
20	Selective Filtering	
21	Module -3: Restoration:	
22	Noise models	
23	Restoration in the Presence of Noise Only using Spatial Filtering and	

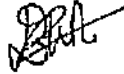
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	Frequency Domain Filtering	
24	Linear, Position-Invariant Degradations	
25	Estimating the Degradation Function	
26	Inverse Filtering	
27	Minimum Mean Square Error (Wiener) Filtering	
28	Minimum Mean Square Error (Wiener) Filtering	
29	Constrained Least Squares Filtering.	
30	Constrained Least Squares Filtering.	
31	Module -4: Color Image Processing:	
32	Color Fundamentals	
33	Color Models	
34	Pseudocolor Image Processing.	
35	Wavelets	
36	Background	
37	Multiresolution Expansions	
38	Morphological Image Processing ,Erosion and Dilation	
39	Preliminaries , Opening and Closing	
40	The Hit-or-Miss Transforms, Some Basic Morphological Algorithms	
41	Module -5 Segmentation:	
42	Point Detection	
43	Point Detection	
44	Edge Detection	
45	Edge Detection	
46	Line Detection	
47	Line Detection	
48	Thresholding	
49	Region-Based Segmentation	
50	Segmentation Using Morphological Watersheds	

Course Outcomes: At the end of the course students should be able to:

1. Understand image formation and the role human visual system plays in perception of gray and color image data.
2. Apply image processing techniques in both the spatial and frequency (Fourier) domains.
3. Design image analysis techniques in the form of image segmentation and to evaluate the Methodologies for segmentation.
4. Conduct independent study and analysis of Image Enhancement techniques.


Faculty In-charge
Mr. Ramesha M


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18-19

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

III SEMESTER TIME TABLE FOR ODD SEM 2018-19

EFFECT FROM 05/09/2018

ROOM NO: 104

CLASS TEACHER: Mr. Ramesha M

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	17EC33	17EC35	Tea Break	17EC34	17EC36	Lunch Break	17ECL37/17ECL38 (B1/B2)		
TUE	17EC34	17EC32		17EC33	17MAT31		17ECL37/17ECL38 (B2/B1)		
WED	17EC36	17EC33		17EC35	17MAT31		17EC35	17EC34	17EC36
THU	17EC35	17EC32		17EC33	17MAT31		Practice Lab session (B2/B1)		
FRI	17EC32	17EC34		17EC32	17MAT31		17EC35	17EC36	17KL/CHP
SAT	17EC34	17EC36		17MAT31	17EC33		17EC32	17EC35	Instruction Class
Sub Code	Name of the Subject				Initials	Name of the Faculty			
17MAT31	Engineering Mathematics-III				VH	Dr. Veena			
17EC32	Electronic Instrumentation				MM	Dr. Mathivanan			
17EC33	Analog Electronics Circuits				HBN	Mr. H. B. Nagesh			
17EC34	Digital Electronics				RM	Mr. Ramesha.M			
17EC35	Network Analysis				VHR	Mr. Vijaya Kumar H R			
17EC36	Engineering Electromagnetics				HL	Mr. Harish.L			
17ECL37	Analog Electronics Lab				HBN	Mr. H. B. Nagesh			
17ECL38	Digital Electronics Lab				VHR	Mr. Vijaya Kumar H.R			
17KL/CHP	Kannada					New Faculty			

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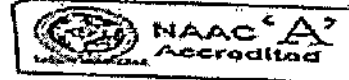
[Signature] 05/09/2018
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
III SEMESTER TIME TABLE 2017 - 2018 With Effect From 18.09.2017

ROOM NO: 104

CLASS TEACHER: Mr. H. B. Nagesh

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.30	02.30 to 03.30	03.30 to 04.30
MON	15EC32	15MAT31	Tea Break	15EC36	15EC35	Lunch Break	15ECL37/15ECL38 (B1/B2) (VHR,BG)/(SRP,YG)		
TUE	15EC33	15EC34		15MAT31	15EC33		15ECL37/15ECL38 (B2/B1) (VHR,HL)/(SRP,YG)		
WED	15EC34	15MAT31		15EC32	15EC36		Instruction class (VHR,SRP)		
THU	15EC33	15EC36		15EC32	15EC36		15MAT31	15EC35	15EC34
FRI	15EC35	15MAT31		15EC32	15EC36		15EC34	15EC35	15EC33
SAT	15EC34	Industry Interaction					Innovation Lab		
Sub Code	Name of the Subject					Initials	Name of the Faculty		
15MAT31	Engineering Mathematics-III					ML, Deepa	Mr. Lokanantham, Ms. Deepa H		
15EC32	Analog Electronics Circuits					HBB+HBN	Dr. HBB+Mr. H. B. Nagesh		
15EC33	Digital Electronics					SRP	Mr. Suresh		
15EC34	Network Analysis					VHR	Mr. Vijaya kumar		
15EC35	Electronic Instrumentation					MM	Dr. Mathivanan		
15EC36	Engineering Electromagnetics					HL	Mr. Harish.L		
15ECL37	Analog Electronics Lab					VHR	Mr. Vijaya Kumar		
15ECL38	Digital Electronics Lab					SR	Mr. Suresh		
	Industry Interaction - Adhoc Faculty								

Rahul Rai
 18/09/17
 Time Table Coordinator

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ACS COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
III SEMESTER TIME TABLE 2016 - 2017 With Effect From 06.07.2016

ROOM NO: 104

CLASS TEACHER: Smt. Yamini Gayathri

Day / Time	05.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	15EC34	15EC33	Tea Break	15MAT31	15EC32	Lunch Break	15EC34	15EC36	15EC33
TUE	15EC32	15MAT31		15EC36	15EC33		15EC34	15EC35	15EC34
WED	15EC33	15MAT31		15EC35	15EC36		15ECL37/15ECL38 (B1/B2)		
THU	15EC36	15EC35		15EC34	15EC32		15ECL37/15ECL38 (B2/B3)		
FRI	15EC35	15MAT31		15EC32	15EC36		15ECL37/15ECL38 (B3/B1)		
SAT	15MAT31	Industry Interaction		Industry Interaction - Adhoc Faculty					

Sub Code	Name of the Subject	Initials	Name of the Faculty
15MAT31	Engineering Mathematics-III	DH+LM	Mrs. Deepa + Mr. Lokanadham M.
15EC32	Analog Electronics Circuits	HBN	Sri. H. B. Nagesh
15EC33	Digital Electronics	SR	Sri. Suresh
15EC34	Network Analysis	VM	Sri. Vijay Mahantesh
15EC35	Electronic Instrumentation	YG	Smt. Yamini Gayathri
15EC36	Engineering Electromagnetics	KV	Smt. K Vijayanandhini
15ECL37	Analog Electronics Lab	VHR+BG+ VSR+KV	Mr. Vijaya Kumar + Smt. Bharathi Gururaj+Smt.K.Vijayanandhini
15ECL38	Digital Electronics Lab	SR+YG	Mr. Suresh + Smt. Yamini Gayathri
	Industry Interaction - Adhoc Faculty	PB + KRB	Smt. Preethi Biradar + Sri. Kalyan Ram B

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 Vijay Mahantesh

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IV SEMESTER TIME TABLE FOR ECE SEM 2020-21

W.E.F: 19/04/2021

HALL NO: ONLINE

CLASS TEACHER: Mrs. Ashwini. A.M

Day / Time	9:30 am to 10:30 am		10:45 am to 11:45 am		12:00 pm to 1:00 pm		2:00 pm to 3:00 pm
MON	18EC44	Tea Break	18EC42	Tea Break	18EC44	Lunch Break	18EC42
TUE	18MAT41		18EC45		18EC42		18EC45
WED	18EC44		18MAT41		18EC43		18EC42
THU	18EC43		18EC46		18EC45		18MAT41
FRI	18EC46		18EC43		18MAT41		18EC46
SAT	18CPC49	Microcontroller Lab		Analog Circuits Lab			

Sub Code	Name of the Subject	Hrs / Week	Initials	Name of the Faculty
18MAT41	Mathematics	4	DM	Mrs. Deepa. M
18EC42	Analog Circuits	4	NHB	Mr. Nagesh. H. B
18EC43	Control Systems	3	BG	Dr. Bharathi Gururaj
18EC44	Engineering Statistics & Linear Algebra	3	HL	Mr. Harish. L
18EC45	Signals & Systems	3	AAM	Mrs. Ashwini. A. M
18EC46	Microcontroller	3	VD	Mrs. Vijaya Dalawai
18ECL47	Microcontroller Lab	3	VD	Mrs. Vijaya Dalawai
18ECL48	Analog Circuits Lab	3	NHB	Mr. Nagesh. H. B
18CPC49	Constitution of India , Professional Ethics and Cyber Law	1		

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

IV SEMESTER TIME TABLE FOR EVEN SEM-2020

EFFECT FROM 10/02/2020

ROOM NO: 105

CLASS TEACHER: Mrs. Ashwini A M

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	18EC42	18MAT41	Tea Break	18EC46	18EC44	Lunch Break	18ECL47 (B1)/18ECL48:(B2)		
TUE	18EC46	18EC43		18EC44	18MAT41		18EC45	18EC42	18EC46
WED	18EC45	18EC46		18MAT41	18EC43		18EC44	Innovation lab	
THU	18EC43	18ECL47 (B2)/18ECL48 (B1)			18MAT41		18EC42	18EC46	
FRI	18EC45	18CPC49		18EC44	18EC42	18EC43	18MAT41	18EC45	

AS PER COLLEGE CALENDAR OF EVENTS

Sub Code	Name of the Subject	Initials	Name of the Faculty
18MAT41	Complex Analysis, Probability and Statistical methods	KTP	Dr. Pradeep Kumar K T (5)
18EC42	Analog Circuits	AMP	Dr. A M Prasanna Kumar (4)
18EC43	Control Systems	BG	Mrs. Bharathi Gururaj (4)
18EC44	Engineering statistics & Linear Algebra	NHB	Mr. Nagesh H B (4)
18EC45	Signals and Systems	AAM	Mrs. Ashwini A M (4)
18EC46	Microcontroller	VD	Mrs. Vijaya Dalawai (5)
18ECL47	Microcontroller Lab	VD	Mrs. Vijaya Dalawai
18ECL48	Analog Circuits Lab	AAM	Mrs. Ashwini A M
18CPC49	Constitution of India, Professional Ethics and Cyber law	PAN	Preethi A Nayak

Ashwini
TIME TABLE COORDINATOR
[Ashwini A M]

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[Dr. H S Siddappa]
Dept. of Mechanical Engg.
ACS College of Engineering
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[Signature]
PRINCIPAL 07/02/2020

(Tentative)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

IV SEMESTER TIME TABLE FOR EVEN SEM- 2019

Date: 01/02/2019

CLASS TEACHER: Mr. Ramesha M

EFFECT FROM: 01.02.2019

ROOM NO: 104

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	17EC42	17EC45	Tea Break	17EC44	17EC46	Lunch Break	-----17ECL47/48(MP/LIC Lab)-----		
TUE	17EC46	17EC42		17MAT41	17EC43		17EC44	17CPI49	Library Hour
WED	17EC43	17EC45		17EC44	17EC46		17MAT41	17EC45	17EC42
THU	17EC45	17MAT41		17EC43	17EC42		-----Innovation Lab-----		
FRI	17EC44	17ECL47/48(MP/LIC Lab)-----			17MAT41		17EC43	17EC46	
SAT	17EC46	17MAT41		17EC45	17EC43	17EC42	17EC44	Mentoring	
Sub Code	Name of the Subject			No. of Hours	Initials	Name of the Faculty			
17MAT41	Engineering Mathematics - IV			5	PK	Mr. Pradeep Kumar			
17EC42	Signals and Systems			5	RR	Mr. Rahul Rai			
17EC43	Control Systems			5	BG	Mrs. Bharathi Gururaj			
17EC44	Principles of Communication Systems			5	RM	Dr. Ramesha M			
17EC45	Linear Integrated Circuits			5	HL	Mr. Harish L			
17EC46	Microprocessor			5	NHB	Mr. Nagesh H B			
17ECL47	Microprocessor Lab			3	NHB	Mr. Nagesh H B			
17ECL48	Linear ICs and Communication Lab			3	VD	Mrs. Vijaya Dalawai			
17CPI49	Constitution of India, Professional Ethics and Human Rights			1	VD	Mrs. Vijaya Dalawai			
	Innovation Lab			3	VHR	Mr. Vijaya Kumar HR			
	Library Hour			1	BG	Mrs. Bharathi Gururaj			

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

IV SEMESTER TIME TABLE FOR EVEN SEM-2018 EFFECT FROM 05/02/2018

ROOM NO: 104

CLASS TEACHER: Mrs. Bharathi Gururaj

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	15EC44	15EC45		15EC46	15MAT41	Lunch Break	15EC42	15EC45	15ECL47/48 Instruction
TUE	15EC45	15EC46		15MAT41	15EC42		MP(B ₁)/LIC Lab(B ₂)		
WED	15EC46	MP(B ₃)/LIC Lab(B ₁)					15MAT41	15EC44	15EC43
THU	15EC43	15EC44	Ten Break	15MAT41	15EC43		MP(B ₂)/LIC Lab(B ₃)		
FRI	15EC43	15EC44		15EC42	15EC44		15MAT41	15EC46	15EC45
SAT	15EC42	Industry Interaction		Industry Interaction - Adhoc Faculty			15EC42	Revision / Test Classes	
Sub: Code	Name of the Subject					Initials	Name of the Faculty		
15MAT41	Engineering Mathematics -IV					DR.KTP/ KR	Dr. Pradeep K T/Mr. Raghavendra		
15EC42	Microprocessor					NHB	Mr.Nagesh H B		
15EC43	Control Systems					BG	Mrs. Bharathi Gururaj		
15EC44	Signals and Systems					RR	Mr. Rahul Rai		
15EC45	Principles of Communication Systems					YG	Mrs. Yamini Gayathri		
15EC46	Linear Integrated Circuits					MM	Dr. Mathivanan M		
15ECL47	Microprocessor Lab					NHB	Mr.Nagesh H B		
15ECL48	Linear ICs and Communication Lab					YG	Mrs. Bharathi Gururaj/Mrs. Yamini Gayathri		
	Industry Interaction - Adhoc Faculty						Mr. Manthesh		

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
IV SEMESTER TIME TABLE 2016 - 2017 With Effect From 13.02.2017

ROOM NO: 104

CLASS TEACHER: Mrs. Kavitha R.J

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00	
MON	15EC42	15EC43	Tea Break	15MAT41	15EC44	Lunch Break	15ECL47/15ECL48(B1/B2)			
TUE	15EC44	15EC46		15EC42	15EC45		15ECL47/15ECL48(B2/B3)			
WED	15EC45	15MAT41		15EC43	15EC43		15ECL47/15ECL48(B3/B1)			
THU	15EC46	15EC43		15EC45	15EC44		15MAT41	15EC46	15EC42	
FRI	15EC44	15EC46		15MAT41	15EC43		15EC42	15EC45	15EC44	
SAT	15MAT41	Industry Interaction		Industry Interaction - Adhoc Faculty						
Sub Code	Name of the Subject			Initials	Name of the Faculty					
15MAT41	Engineering Mathematics -IV				Dr. Veena + Mr. Raghavendra					
15EC42	Microprocessor			SP	Mr. Suresh					
15EC43	Control Systems			VSM	Mrs. Vanishree Moji					
15EC44	Signals and Systems			RR	Mr. Rahul Rai					
15EC45	Principles of Communication Systems			YG	Mrs. Yamini Gayathri					
15EC46	Linear Integrated Circuits			RJK	Mrs. R.J. Kavitha					
15ECL47	Microprocessor Lab			RR+SP	Mr. Rahul Rai + Mr. Suresh					
15ECL48	Linear ICs and Communication Lab			RJK+YG+KVS	Mrs. R.J. Kavitha + Mrs. Yamini Gayathri + Ms. Vidyashree K					
	Industry Interaction - Adhoc Faculty			MVS + PP	Mr. Mallesh V.S + Ms. Pruthi P					

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

V SEMESTER TIME TABLE FOR ODD SEM 2018-19

EFFECT FROM 05/09/2018

CLASS TEACHER: Mr. Rahul Rai

ROOM NO: 105

Day/ Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	15EC563	15ES51	Tea/Break	15EC553	15EC53	Lunch Break	15EC563	15EC52	Instruction Class
TUE	15EC52	15EC54		15EC563	15EC54		15ECL57/15ECL58(B2,B1)		
WED	15EC53	15EC52		15EC53	15EC553		15ES51	15EC553	Instruction Class
THU	15EC53	15EC54		15ES51	15ES51		15ECL57/15ECL58(B1,B2)		
FRI	15EC54	15EC53		15EC52	15EC563		Practice lab session (B2/B1)		
SAT	15EC553	15EC52		15EC54	Placement Training		15EC53	15EC563	Instruction Class
Sub Code	Name of the Subject					Initials	Name of the Faculty		
15ES51	Management & Entrepreneurship					HBB	Dr.H.B. Bhuvanewari		
15EC52	Digital Signal Processing					RR	Mr.Rahul Rai		
15EC53	Verilog HDL						Mrs. Aruna		
15EC54	Information theory & coding					BG	Smt. Bharathi Gururaj		
15EC553	Operating Systems					MM	Dr. Mathivanan		
15EC563	8051 Microcontroller					HL	Mr. Harish L		
15ECL57	DSP lab					RR	Mr.Rahul Rai		
15ECL58	HDL Lab					RR	Mr.Rahul Rai		

M. S. D.
Time Table Coordinator

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

V SEMESTER TIME TABLE 2017 - 2018 With Effect From 18.09.2017

CLASS TEACHER: Mr. Rahul Rai

ROOM NO: 105

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.30	02.30 to 03.30	03.30 to 04.30
MON	15EC54	15EC53	Tea Break	15EC563	Placement Training	Lunch Break	15EC52	15EC553	15ES51
TUE	15EC553	15ES51		15EC52	15EC53		15EC54	15EC52	15EC54
WED	15EC54	15ES51		15EC553	15EC563		15ECL57 / 15ECL58 (B1/B2) (RR, RM) / (YG, SRP)		
THU	15EC52	15EC53		15EC563	15EC553		15ECL57 / 15ECL58 (B2/B1) (RR, RM) / (YG, VHR)		
FRI	15EC53	15ES51		15EC52	15EC54		Instruction Class (RR, RM, YG)		
SAT	15EC563	Industry Interaction-Adhoc Faculty					Innovation Lab		
Sub Code	Name of the Subject				Initials		Name of the Faculty		
15ES-51	Management & Entrepreneurship Development				RM		Mr. Ramesha M		
15EC-52	Digital Signal Processing				RR		Mr. Rahul Rai		
15EC-53	Verilog HDL				YG		Mrs. Yamini Gayathri		
15EC-54	Information Theory & coding				SG		Smt. Bharathi Garudaj		
15EC-553	Operating System				MDI		Dr. Madhavan M		
15EC - 563	8051 Microcontroller				SRP		Mr. Suresh		
15ECL-57	DSP lab				RM		Mr. Ramesha M		
15ECL-58	HDL Lab				YG		Mrs. Yamini Gayathri		
	Industry Interaction - Adhoc Faculty								

Rahul Rai
20/11/17

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V SEMESTER TIME TABLE 2016 - 2017 With Effect From 11.08.2016

CLASS TEACHER: Mr. Rahul Rai

ROOM NO: 105

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00		
MON	10EC54	10EC56	Tea Break	10AL51	10EC53	Lunch Break	10AL51	Placement activities	10EC52		
TUE	10EC55	10EC56		10EC53	10EC52		10EC55	10EC54	10AL51		
WED	10EC53	10EC55		10EC54	10EC56		10ECL57/10ECL58(B1/B2)				
THU	10EC52	10EC54		10EC55	10EC53		10ECL57/10ECL58(B2/B1)				
FRI	10AL51	10EC55		10EC52	10EC56		10ECL57/10ECL58(B1/B2)				
SAT	10EC52	10EC53		Industry Interaction - Adhoc Faculty							
Sub Code	Name of the Subject				Initials	Name of the Faculty					
10AL - 51	Management & Entrepreneurship				VM	Sri. Vijay Mahantesh					
10EC - 52	Digital Signal Processing				RR	Mr. Rahul Rai					
10EC - 53	Analog communication				RM	Mr. Ramesha M					
10EC - 54	Microwave & Radar				RJK	Smt. R.J. Kavitha					
10EC - 55	Information theory & coding				BG	Smt. Bharathi Gururaj					
10EC - 56	Fundamentals of CMOS & VLSI				YG	Smt. Yamini Gayathri					
10ECL-57	DSP lab				RR + RJK	Mr. Rahul Rai + Smt. R J Kavitha					
10ECL-58	AC+LIC lab				RM + VSM	Mr. Ramesh + Smt. Vanishree Moji					
	Placement Activities				BL	Smt. Bhagyalakshmi					
	Industry Interaction - Adhoc Faculty				PB + KRB	Smt. Preethi Biradar + Sri. Kalyan Ram B					

Vijay Mahantesh
 Time Table
 Coordinator

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 HOD ECE

[Signature]
 Principal



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VI SEMESTER TIME TABLE FOR EVEN SEM 2020-21

W.E.F19/04/2021

HALL NO: ONLINE

CLASS TEACHER: Mr.Nagesh HB.

Day / Time	9:30 am to 10:30 am		10:45 am to 11:45 am		12:00 pm to 1:00 pm		2:00 pm to 3:00 pm
MON	18EC642	Tea Break	18EC63	Tea Break	Mini Project	Lunch Break	Mini Project
TUE	18EC61		18EC63		18EC642		18EC62
WED	18CV653		18EC63		18EC62		18EC642
THU	18EC61		18CV653		18EC63		18EC62
FRI	18EC62		18EC61		18CV653		18EC61
SAT	Embedded Systems Lab			Communication Lab			

Sub Code	Name of the Subject	Hrs / Week	Initials	Name of the Faculty
18EC61	Digital Communication	4	NHB	Mr.Nagesh HB
18EC62	Embedded Systems	4	HL	Mr.Harish L
18EC63	Microwave and Antennas	4	HBB	Dr.H.B.Bhuvanewari
18EC642	Artificial Neural Networks	3	AMPK	Dr.A.M.Prasanna Kumar
18CV653	Occupational Health and safety	3	PPN	Mr.Prajith Prakash Nair
18ECL66	Embedded Systems Lab		HL	Mr.Harish L
18ECL67	Communication Lab		BG	Dr.Bharathi Gururaj
18ECMP68	Mini-Project	2	AMPK	Dr.A.M.Prasanna Kumar

TIME TABLE COORDINATOR

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Kambipura, Mysore Road, Kengeri Hobli



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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VI SEMESTER TIME TABLE FOR EVEN SEM- 2020

EFFECT FROM 10/02/2020

ROOM NO: 106

CLASS TEACHER: Bharathi Gururaj

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	17EC663	17EC61	Tea Break	17EC64	17EC63	Lunch Break	17EC62	17EC65A	17EC64
TUE	17EC64	17EC63		17EC62	17EC65A		17ECL67(B1) / 7ECL68(B2)		
WED	17EC65A	17EC63		17EC61	17EC663		17EC62	Innovation lab	
THU	17EC62	17EC64		17EC61	17EC65A		17EC663	17EC61	17EC64
FRI	17EC663	17EC63		17EC62	Placement training		17ECL67(B2) / 7ECL68(B1)		
SAT	AS PER COLLEGE CALENDAR OF EVENTS								
Sub Code	Name of the Subject					Initials	Name of the Faculty		
17EC61	Digital Communication					MM	Dr. Mathivanan M (4)		
17EC62	ARM Microcontroller and Embedded systems					YR	Mr. Yuvraj (4)		
17EC63	VLSI Design					HBB	Dr. H B Bhuvanewari (4)		
17EC64	Computer Communication Networks					PPN	Mr. Prajith Prakash Nair (4)		
17EC65A	Professional Elective-2 Digital Switching System					BG	Mrs. Bharathi Gururaj (4)		
17EC663	Open Elective-2 Digital System Design using Verilog					VD	Mrs. Vijaya Dalawai (4)		
17ECL67	Embedded Controller Lab					NHB	Mr. Nagesh H B		
17ECL68	Computer Network Lab					PPN	Mr. Prajith Prakash Nair		

Ashwini
TIME TABLE COORDINATOR
[Ashwini, A M]

[Signature]
HOD, ECE
HOD
Dept. of ECE
ACS College of Engineering,
Bangalore - 560 074.

[Signature] 7/2/2020
INSTITUTIONAL CO-ORDINATOR
[Dr. H S Siddappa]
HOD
Dept. of Mechanical Engg.
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VI SEMESTER TIME TABLE FOR EVEN SEM- 2019

ROOM NO: 105

CLASS TEACHER: Mr. Vijaya Kumar H R
EFFECT FROM: 01/02/2019

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	15EC61	15EC63	Tea Break	15EC64	15EC663	Lunch Break	15EC62	15EC64	15EC651
TUE	15EC663	15EC62		15EC63	15EC61		-----15ECL67/68(EC and CN lab)-----		
WED	15EC63	15EC64		15EC62	15EC651		15EC61	15EC63	Placement Training
THU	15EC651	15EC663		15EC63	15EC663		15EC62	-----Innovation Lab-----	
FRI	15EC64	15EC62		15EC651	15EC61		-----15ECL67/68(EC and CN Lab)-----		
SAT	15EC651	15EC64		15EC61	15EC663		-----Intel Training Program-----		
Sub Code	Name of the Subject			No. of Hours	Initials	Name of the Faculty			
15EC61	Digital Communication			5	RM	Dr. Ramesha M			
15EC62	ARM Microcontroller and Embedded systems			5	HL	Mr. Harish L			
15EC63	VLSI Design			5	NHB	Mr. Nagesh H B			
15EC64	Computer Communication Networks			5	RR	Mr. Rahul Rai			
15EC651	Professional Elective-2: Cellular Mobile Communication			5	VHR	Mr. Vijaya Kumar H R			
15EC663	Open Elective - 2: Digital System Design using Verilog			5	VD	Mrs. Vijaya Dalawai			
15ECL67	Embedded Controller Lab			3	HL	Mr. Harish L			
15ECL68	Computer Network Lab			3	RR	Mr. Rahul Rai			
	Innovation Lab			2	VHR	Mr. Vijaya Kumar H R			
	Placement Training			1	VHR	Mr. Vijaya Kumar H R			

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A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hoysa,
Bangalore - 560 074



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VI SEMESTER TIME TABLE FOR EVEN SEM- 2018 EFFECT FROM 01/02/2018

ROOM NO: 105

CLASS TEACHER: Mrs. Yamini Gayathri

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00	
MON	15EC62	15EC651	Tea Break	15EC64	15EC61	Lunch Break	CN LAB (B ₁) / EC LAB (B ₂)			
TUE	15EC64	15EC61		15EC63	15EC64		15EC62	15ECL67 Instruction	15EC651	
WED	15EC651	15EC62		15EC63	15EC63		15EC61	Placement	15EC661/663	
THU	15EC651	15EC62		15EC63	15EC661/663		15EC62	15EC64	15ECL68 Instruction	
FRI	15EC62	15EC651		15EC661/663	15EC61		CN LAB (B ₂) / EC LAB (B ₁)			
SAT	15EC661/663	Industry Interaction		Industry Interaction - Adhoc Faculty			15EC661/663	Revision / Test Classes		
Sub Code	Name of the Subject				Initials		Name of the Faculty			
15EC61	Digital Communication				RM	Mr. Ramesha M				
15EC62	ARM Microcontroller and Embedded systems				HL/NHB	Mr. Harish L / Mr. Nagesh H B				
15EC63	VLSI Design				HBB	Dr. H B Bhuvaneshwari				
15EC64	Computer Communication Networks				RR	Mr. Rahul Rai				
15EC651	Professional Elective-2 Cellular Mobile Communication				VHR	Mr. Vijaya Kumar H R				
15EC661	Open Elective - 2		Data Structure Using C++		SP	Mr. Suresh				
15EC663			Digital System Design using Verilog		YG	Mrs. Yamini Gayathri				
15ECL67	Embedded Control Lab				HL	Mr. Harish L				
15ECL68	Computer Network Lab				RR	Mr. Rahul Rai				
	Industry Interaction - Adhoc Faculty					Mr. Syed Muneebur Rehman				

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ACS COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
VI SEMESTER TIME TABLE 2016 - 2017 With Effect From 1.04.2017

ROOM NO: 105

CLASS TEACHER: Mr. Ramesha M.

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00		
MON	10EC63	10EC61	Tea Break	10EC662	10EC65	Lunch Break	10EC61	10EC62	Instruction Class		
TUE	10EC65	10EC662		10EC64	10EC64		10EC62	10EC662	10EC63		
WED	10EC62	10EC63		10EC64	10EC65		Instruction Class	Placement- VHR/KVN			
THU	10EC62	10EC61		10EC63	10EC64		10ECL67/10ECL68 (B1/B2)				
FRI	10EC61	10EC65		10EC64	10EC62		10ECL67/10ECL68 (B2/B1)				
SAT	10EC662	Industry Interaction		Industry Interaction - Adhoc Faculty							
Sub Code	Name of the Subject					Initials	Name of the Faculty				
10EC61	Digital Communication					RM	Mr.Ramesha M				
10EC62	Microprocessor					VHR	Mr.Vijaya Kumar H.R.				
10EC63	Microelectronics Circuits					NHB	Mr. Nagesh.H.B				
10EC64	Antennas and Propagation					Dr.HBB/KVS	Dr.Bhuvaneshwari H.B./Ms.Vidyashree.K				
10EC65	Operating Systems					SP	Mr. Suresh				
10EC662	Elective-I(Group-A) Satellite Communication					VSM	Mrs. Vanishree Moji				
10EC67	Advanced Communication Lab					BG+RM+KVS	Mrs.Bharathi Gururaj + Mr.Ramesh + Ms.Vidyashree.K				
10EC68	Microprocessor Lab					VHR+ NHB	Mr.Vijaya Kumar H.R.+ Mr. Nagesh H.B				
	Placement Activities					VHR/KVN	Mr.Vijayakumar.H.R./Mrs. Vijayanandhini K				
	Industry Interaction - Adhoc Faculty					VS + PP	Mr. Vinay Sharva + Ms. Pruthvi P				

Shobee
 Institutional
 Time Table
 Coordinator

Rahul Rao
 Time Table
 Coordinator

Shobee
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Pruthvi
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VII SEMESTER TIME TABLE FOR ODD SEM 2018-19

EFFECT FROM 05/09/2018

ROOM NO: 106

CLASS TEACHER: Mr. Nagesh H B

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	15EC71	15EC751	Tea Break	15EC73	15EC741	Lunch Break	Project Work Phase-I + Project work Seminar		
TUE	15EC73	15EC71		15EC751	15EC72		15ECL76/15ECL77(B2/B1)		
WED	15EC72	Practice lab session (B2/B1)					15EC751	15EC73	15EC741
THU	15EC751	15EC72	Tea Break	15EC71	15EC741		15ECL76/15ECL77(B1/B2)		
FRI	15EC751	15EC73		15EC741	15EC72		15EC71	Instruction Class	
SAT	15EC741	15EC73		15EC71	15EC751		15EC72	Placement Training	
Sub Code	Name of the Subject						Initials	Name of the Faculty	
15EC71	Microwave & Antennas						Mrs. Aruna		
15EC72	Digital Image Processing								
15EC73	Power Electronics					RM	Mr. Ramesha.M		
15EC741	Professional Elective-3: Multimedia Communication					NHB	Mr. Nagesh H.B.		
15EC751	Professional Elective-4 :DSP algorithm & Architecture					BG	Smt. Bharathi Gururaj		
15ECL76	Advanced Communication Lab					RR	Mr. Rahul Rai		
15ECL77	VLSI Lab					BG	Smt. Bharathi Gururaj		
15ECL78	Project Work Phase-I + Project work Seminar					HL	Mr. Harishi.L		
	Placement Training					MM	Dr. Mathivanan		
							Raniya (Placement Co-ordinator)		

Time Table Coordinator

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
VII SEMESTER TIME TABLE 2017 - 2018 With Effect From 18.09.2017

ROOM NO: 106

CLASS TEACHER: Mrs. Bharathi Gururaj

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.30	02.30 to 03.30	03.30 to 04.30
MON	10EC751	10EC72	Tea Break	10EC763	Placement Training	Lunch Break	Instruction Class (HL,NHB)		
TUE	10EC751	10EC74		10EC72	10EC763		10EC74	10EC73	10EC763
WED	10EC74	10EC73		10EC71	10EC72		10EC73	10EC71	10EC751
THU	10EC763	10EC72		10EC71	10EC751		10ECL77/10ECL78 (B1/B2) (HL,SRP) (NHB,BG)		
FRI	10EC73	10EC71		10EC72	10EC763		10ECL77/10ECL78 (B2/B1) (HL,VHR) (NHB,BG)		
SAT	10EC74	Industry Interaction-Adhoc Faculty				Innovation Lab			
Sub Code	Name of the Subject				Initials	Name of the Faculty			
10EC - 71	Computer Communication Networks				BG	Mrs. Bharathi Gururaj			
10EC - 72	Optical Fiber communication				VHR	Mr. Vijaya kumar H.R.			
10EC - 73	Power Electronics				NHB	Mr. Nagesh H.B.			
10EC - 74	Embedded System Design				HL	Mr. Harish.L			
10EC-751	Elective 2 :DSP Algorithms & Architecture				RR	Mr. Rahul Rai			
10EC-763	Elective 3 :Image Processing				RR	Mr. Ramesha.M			
10ECL-77	VLSI Lab				HL	Mr. Harish.L			
10ECL-78	Power Electronics Lab				NHB	Mr. Nagesh H.B.			
	Industry Interaction - Adhoc Faculty								

Rahul Rai
18/9/17
Time Table Coordinator

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ACS COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
VII SEMESTER TIME TABLE 2016 - 2017 With Effect From 06.09.2016

ROOM NO: 106

CLASS TEACHER: Mr. Nagesh H.B.

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	10EC73	10EC74	Tea Break	10EC72	10EC71	Lunch Break	10EC74	10EC72	10EC73
TUE	10EC763	10EC751		10EC74	10EC73		10EC71	10EC751	10EC763
WED	10EC73	10EC751		10EC763	10EC74		10ECL77/10ECL-78(B1/B2)		
THU	10EC763	10EC73		10EC71	10EC74		10ECL77/10ECL78(B2/B3)		
FRI	10EC751	10EC71		10EC72	10EC763		10ECL77/10ECL78(B3/B1)		
SAT	10EC72	Industry Interaction		Industry Interaction - Adhoc Faculty					
Sub Code	Name of the Subject			Initials	Name of the Faculty				
10EC - 71	Computer Communication networks			SR	Mr. Suresh				
10EC - 72	Optical fiber communication			VHR	Mr. Vijaya kumar H.R.				
10EC - 73	Power electronics			NHB	Mr. Nagesh H.B.				
10EC - 74	Embedded System Design			Dr.MM	Dr. M Mathivanan				
10EC-751	Elective 2 :DSP algorithm& Architecture			RR	Mr. Rahul Rai				
10EC-763	Elective 3 :Image Processing			VSM	Smt. Vanishree Moji				
10ECL-77	VLSI Lab			VM	Sri. Vijay Mahanthesh				
10ECL-78	Power electronics Lab			NHB + HG+YS	Mr. Nagesh + Smt. Bharathi Gururaj + Dr. N. Saravanan				
	Industry Interaction - Adhoc Faculty			PB + KRB	Smt. Preeti Biradar + Sri. Kalyan Ram B				

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Vijay Mahantesh

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VIII SEMESTER TIME TABLE FOR EVEN SEM - 2020

EFFECT FROM 10/02/2020

ROOM NO: 119

CLASS TEACHER: Mr. Prajith Nair

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	15EC82	Placement training	Tea break	15EC81	15EC833	Lunch Break	Interaction with guides		
TUE	15EC833	15EC81		15EC833	15EC82		Technical Seminar		
WED	15EC82	15EC81		15EC82	15EC81		15EC833	Project Work	
THU	Project work			Project Work			Project Work		
FRI	Project work			Project work			Project Work		
SAT									
Sub Code	Name of the Subject				Initials	Name of the Faculty			
15EC81	Wireless cellular & LTE 4G Broadband				AMP	Dr.A.M Prasanna Kumar			
15EC82	Fibre optics and network				PPN	Mr.Prajith Nair			
15EC833	Elective -5 (Professional elective) :- Radar Engineering				MM	Dr.Mathivanan M			
15EC84	Internship /Professional Practice				BG	Mrs. Bharathi Gururaj			
15ECP85	Project work				MM	Dr.Mathivanan M			
15ECS86	Technical Seminar				BG	Mrs. Bharathi Gururaj			

Ashwini
TIME TABLE COORDINATOR
[Ashwini A M]

[Signature]
HOD, ECE
HOD
Dept. of ECE
ACS College of Engineering
Bangalore - 560 074

[Signature] 7/2/2020
INSTITUTIONAL CO-ORDINATOR
[Dr. H S Siddlesha]
HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074

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07/02/2020
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VII SEMESTER TIME TABLE FOR EVEN SEM - 2019

Date: 31/01/2019

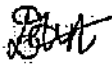
(Tentative)

ROOM NO: 106

CLASS TEACHER: Mrs. Bharathi Gururaj
EFFECT FROM: 01/02/2019

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00
MON	15EC81	15EC833	Tea Break	15EC82	15EC81	Lunch Break	Project Work		
TUE	15EC82	15EC81		15EC833	15EC82		Project Work		
WED	15EC833	15EC82		15EC81	15EC833		Technical Seminar		
THU	Project Work			Project Work			Project Work		
FRI	Project Work			Project Work			Project Work		
SAT	Intel Training Program						Intel Training Program		
Sub Code	Name of the Subject			No. of Hours	Initials	Name of the Faculty			
15EC81	Wireless Cellular & LTE 4G Broadband			4	BG	Mrs. Bharathi Gururaj			
15EC82	Fiber Optics & Network			4	VHR	Mr. Vijay Kumar HR			
15EC833	Professional Elective 5: Radar Engineering			4	MM	Dr. Mathivanan M			
15ECP85	Project work			6	MM	Dr. Mathivanan M			
15ECS86	Technical Seminar			3	RR	Mr. Rahul Rai			
15EC84	Internship / Professional Practice				BG	Mrs. Bharathi Gururaj			


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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VIII SEMESTER TIME TABLE FOR EVEN SEM - 2018 EFFECT FROM 01/02/2018

ROOM NO: 106

CLASS TEACHER: Mrs. Harish L

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00	
MON	10EC81	10EC843	Tea Break	10EC82	10EC832	Lunch Break	Technical Seminar			
TUE	10EC843	10EC82		10EC832	10EC81		10EC832	10EC81	10EC82	
WED	10EC81	10EC843		10EC82	10EC832		10EC832	10EC843	Project Work	
THU	Project work			Project Work			Project Work		Project Work	
FRI	Project work			Project work			Project Work		Project Work	
SAT	Project work			Project work			Project Work		Project Work	
Sub Code	Name of the Subject					Initials	Name of the Faculty			
10EC81	Wireless Communication					BG	Mrs. Bharathi Gururaj			
10EC82	Digital Switching Systems					SP	Mr. Suresh patil			
10EC832	Elective -4 (Group D) - Network Security					VHR	Mr. Vijay Kumar H R			
10EC843	Elective -5 (Group E) - GSM					HL	Mr. Harish L			
10ECP85	Project work					RR	Mr. Rahul Rai			
10ECS86	Technical Seminar					Dr. MM	Dr. Mathivanan M			
	Adhoc Faculty						Mr. Panduranga N M			

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Principal 29/1/18

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ACS COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VIII SEMESTER TIME TABLE 2016 - 2017 With Effect From 1.04.2017

ROOM NO: 106

CLASS TEACHER: Mrs. Bharathi Gururaj

Day / Time	08.30 to 9.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04.00	
MON	10EC81	10EC832	Tea Break	10EC82	10EC81	Lunch Break	Technical Seminar			
TUE	10EC832	10EC82		10EC843	10EC81		10EC82	10EC832	10EC843	
WED	10EC843	10EC82		10EC81	10EC832		10EC843	Placement-VHR/KVN		
THU	Project work			Project Work			Project work			
FRI	Project work			Project work			Project work			
SAT	Project work			Project work			Project work			
Sub Code	Name of the Subject			Initials	Name of the Faculty					
10EC81	Wireless Communication			BG	Mrs. Bharathi Gururaj					
10EC82	Digital Switching Systems			Dr.MM	Dr.M Mathivanan					
10EC832	Elective -4 (Group D) - Network Security			KVN	Mrs.K.Vijayanandhini					
10EC843	Elective -5 (Group E) - GSM			RM/KVS	Mr.Ramesha M./ Ms.Vidyashree.K					
10ECP85	Project work			Dr.MM	Dr.M Mathivanan					
10ECS86	Seminar			RR	Rahul Rai					

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 Institutional
 Time Table
 Coordinator

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 Time Table
 Coordinator

RAHUL RAI

[Signature]
 11/4/17
 HOD, ECE
 HOD

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 PRINCIPAL 07/04

Dept. of ECE
 ACS College of Engineering
 Bangalore - 560 074.



ACS COLLEGE OF ENGINEERING

DEPARTMENT OF AEROSPACE ENGINEERING

CALENDER OF EVENTS EVEN SEMESTER APRIL – AUGUST 2021

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	APRIL	19	20	21	22	23	24	06	
2	APRIL/MAY	26	27	28	29	30	1	05	MAY 1 st – May day
3	MAY	3	4	5	6	7	8	06	
4	MAY	10	11	12	13	14	15	04	MAY 13 th – Ramzan MAY 14 th – Basava Jayanthi
5	MAY	17	18	19	20	21	22	06	MAY 19 th - Webinar on Applications of AI in Aerospace Engineering MAY 22 nd - Webinar on Damage Prediction on Nanocomposites after high velocity impact
6	MAY	24	25	26	27	28	29	06	MAY 24 th , 25 th & 26 th – First IA MAY 28 th - Webinar on 3D High Flow Computations MAY 29 th - Webinar on Aviation/Aerospace - BE Different /Hobby Corner / HAM Radio
7	MAY/JUNE	31	1	2	3	4	5	06	JUN 4 th - Webinar on Design Perspectives in Morphing Wings JUN 5 th - Webinar on Indian NavIC and Other GNSS - Research Analysis and Challenges
8	JUNE	7	8	9	10	11	12	06	JUN 12 th - Webinar on Nanomaterials for Energy and Storage Applications
9	JUNE	14	15	16	17	18	19	06	JUN 16 th - Webinar on Flow Through variable area ducts and influence of shockwaves JUN 17 th - Webinar on Safety and Airworthiness in Aviation JUN 19 th - Webinar on Non Planar Wing concept of commercial Aircraft
10	JUNE	21	22	23	24	25	26	06	JUN 24 th - Webinar on the view from Space: Competitive Collaboration for Space Development
11	JUNE/JULY	28	29	30	1	2	3	06	JUN 28 th , 29 th & 30 th – Second IA JUL 2 nd – Webinar on Role of Engineers in Indian Armed Forces
12	JULY	5	6	7	8	9	10	06	
13	JULY	12	13	14	15	16	17	06	JUL 15 th , 16 th & 17 th – Third IA
14	JULY	19	20	21	22	23	24	06	JUL 20 th - Bakrid
15	JULY	26	27	28	29	30	31	06	
16	AUG	2	3	4	5	6	7		
<p>Commencement of ODD Semester 13.09.2021 I Internal Test –24th, 25th & 26th of May 2021 II Internal Test – 28th, 29th & 30th of June 2021 III Internal Test – 15th, 16th & 17th of July 2021 Last working day for 4th, 6th & 8th Semester: 07.08.2021</p>									

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CALENDER OF EVENTS EVEN SEMESTER SEP 2020 – JAN 2021

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	SEP		1	2	3	4	5	5	
2	SEP	7	8	9	10	11	12	6	
3	SEP	14	15	16	17	18	19	5	SEP 17 th - Mahalaya Amavasya
4	SEP	21	22	23	24	25	26	5	SEP 26 th – Saturday holiday
5	SEP/OCT	28	29	30	1	2	3	5	OCT 2 nd - Gandhi Jyanthi
6	OCT	5	6	7	8	9	10	6	
7	OCT	12	13	14	15	16	17	6	OCT 15 th -Webinar on Seaplane and Hovercraft - Indian Seacoast & lakes OCT 15 th , 16 th & 17 th – First IA
8	OCT	19	20	21	22	23	24	5	OCT 19 th , 20 th & 21 st – First IA OCT 23 rd – Dasara holiday
9	OCT	26	27	28	29	30	31	5	OCT 26 th – Dasara holiday
10	NOV	2	3	4	5	6	7	6	
11	NOV	9	10	11	12	13	14	6	
12	NOV	16	17	18	19	20	21	5	NOV 16 th – Diwali holiday
13	NOV	23	24	25	26	27	28	6	NOV 27 th - Webinar on Systems Tool Kit - Software
14	NOV/DEC	30	1	2	3	4	5	5	NOV 30 th , DEC 1 st to 5 th – Second IA
15	DEC	7	8	9	10	11	12	5	DEC 12 th - Webinar on Evolution of FLV, Guidance and Sensors since II World War DEC 12 th – Saturday holiday
16	DEC	14	15	16	17	18	19	6	DEC 18 th – Technical Seminar 1
17	DEC	21	22	23	24	25	26	5	DEC 21 st – Technical seminar 2 DEC 25 th - Christmas
18	DEC/JAN	28	29	30	31	1	2	6	DEC 29 th – Webinar on Introduction to Advanced Electronics in Aviation
19	JAN	4	5	6	7	8	9	6	JAN 7 th , 8 th & 9 th – Third internals JAN 4 th – Webinar 2
20	JAN	11	12	13	14	15	16	5	JAN 14 th - Sankranthi

Commencement of EVEN Semester 12.04.2021
 I Internal Test –15th to 21th of October 2020
 II Internal Test – NOV 30th, 01st to 05th of December 2020
 III Internal Test – 07th, 08th & 09th of January 2020
 University Practical examinations :21.01.2021 onwards
 University theory Examinations : 08.02.2021 – 27.03.2021
 Last working day of ODD Semester 16.01.2021

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 207 Kambipura Mysore Road
 Bangalore 560074




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CALENDER OF EVENTS EVEN SEMESTER FEB – MAY 2020

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	FEB	10	11	12	13	14	15	5	FEB 15 th – 3 rd Saturday
2	FEB	17	18	19	20	21	22	5	FEB 21 st – Mahashivarathi FEB 22 nd – Friday time table
3	FEB	24	25	26	27	28	29	6	FEB 29 th – Thursday time table
4	MAR	2	3	4	5	6	7	5	MAR 2 nd – Seminar on Aircraft Icing and its Effects MAR 2 nd – Project Discussion and Training on "Aircraft Icing analysis and Removal by anti-icing and deicing" MAR 4 th – Webinar on "CFD and its Applications" MAR 7 th – 1 st Saturday
5	MAR	9	10	11	12	13	14	6	MAR 12 th , 13 th & 14 th – First IA
6	MAR	16	17	18	19	20	21	5	MAR 21 st – 3 rd Saturday
7	MAR	23	24	25	26	27	28	5	MAR 25 th – Ugadi MAR 27 th & 28 th – Sports day
8	MAR/APR	30	31	1	2	3	4	5	April 4 th – 1 st Saturday
9	APR	6	7	8	9	10	11	4	APR 6 th – Mahaveer Jayanthi APR 10 th – GOOD Friday APR 11 th – Second IA
10	APR	13	14	15	16	17	18	5	APR 13 th & 15 th – Second IA APR 14 th – Ambedkar Jayanthi APR 18 th – 3 rd Saturday
11	APR	20	21	22	23	24	25	5	APR 25 th – Wednesday timetable
12	APRIL/MAY	27	28	29	30	1	2	4	MAY 1 st – May day MAY 2 nd – 1 st Saturday
13	MAY	4	5	6	7	8	9	6	MAY 8 th & 9 th – Cultural day
14	MAY	11	12	13	14	15	16	5	MAY 16 th – 3 rd Saturday
15	MAY	18	19	20	21	22	23	6	MAY 18 th – Webinar on "Composite materials and their applications" MAY 18 th – Webinar on Finite Element Analysis and limitations MAY 19 th – Webinar on "Career Opportunities for Aeronautical Engineering Graduates" MAY 20 th – Missile Aerodynamics - Webinar MAY 22 nd – CFD and its Applications - Webinar MAY 21 st , 22 nd & 23 rd – Third IA
16	MAY	25	26	27	28	29	30	5	MAY 28 th – Grid Fin Aerodynamics - Webinar MAY 29 th – Webinar on "POST COVID-19 Challenges & Opportunities for Aerospace Engineering" MAY 25 th – Ramzan MAY 30 th – Friday timetable
<p>Commencement of EVEN Semester 10.02.2020 I Internal Test – 12th, 13th & 14th of March 2020 II Internal Test – 11th, 13th & 15th of April 2020 III Internal Test – 21th, 22nd & 23rd of May 2020 Last working day :</p>									


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CALENDER OF EVENTS ODD SEMESTER JULY – DECEMBER 2019

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	JUL/AUG	29	30	31	1	2	3	5	AUG 3 rd – 1 st Saturday
2	AUG	5	6	7	8	9	10	6	
3	AUG	12	13	14	15	16	17	3	AUG 12 th – Bakrid AUG 15 th – Independence Day AUG 17 th – 3 rd Saturday
4	AUG	19	20	21	22	23	24	6	
5	AUG	26	27	28	29	30	31	6	AUG 26 th - Seminar on "Basic Aerodynamics"
6	SEP	2	3	4	5	6	7	5	SEP 2 nd – Ganesha chaturthi
7	SEP	9	10	11	12	13	14	5	Sep 10 th - Moharam
8	SEP	16	17	18	19	20	21	5	SEP 21 st – 3 rd Saturday
9	SEP	23	24	25	26	27	28	5	SEP 29 th - Seminar on "Mechanics of Fluids" SEP 28 th – Mahalaya Amavasya
10	SEP/OCT	30	1	2	3	4	5	4	OCT 2 nd - Gandhi Jyanthi OCT 3 rd - Introduction to GNSS OCT 5 th - 1 st Saturday
11	OCT	7	8	9	10	11	12	4	OCT 7 th – Ayudha pooj OCT 8 th – Vijaya Dashami
12	OCT	14	15	16	17	18	19	6	OCT 14 th - Aero vision Seminar OCT 17 th - Seminar on "Small UAV's – Growing Opportunities in Universities"
13	OCT	21	22	23	24	25	26	6	
14	OCT/NOV	28	29	30	31	1	2	3	OCT 29 th – Balipadyami NOV 1 st – Kannada Rajyotsava NOV 2 nd – 1 st Saturday
15	NOV	4	5	6	7	8	9	6	
16	NOV	11	12	13	14	15	16	4	NOV 12 th - Educadd Seminar NOV 15 th – Kanakadasa Jyanthi NOV 16 th – 3 rd Saturday
17	NOV	18	19	20	21	22	23	6	NOV 22 nd – Seminar on Design and Development of UAV's NOV 23 rd - Workshop on Rocket Propellant Preparation
18	NOV	25	26	27	28	29	30	6	
Commencement of ODD Semester 29.07.2019 I Internal Test – 5 th , 6 th & 7 th of September 2019 II Internal Test – 17 th , 18 th & 19 th of October 2019 III Internal Test – 21 st , 22 nd & 23 rd of November 2019 Last working day for 3 rd , 5 th & 7 th Semester: 30.11.2019, 1 st Semester 29.11.2019									

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CALENDER OF EVENTS EVEN SEMESTER FEB – MAY 2019

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	FEB	4	5	6	7	8	9	5	
2	FEB	11	12	13	14	15	16	6	
3	FEB	18	19	20	21	22	23	4	Feb 19 th – Guru Ravidas Jayanthi Feb 23 rd – 3 rd Saturday
4	FEB/MAR	25	26	27	28	1	2	5	March 2 nd – 1 st Saturday
5	MAR	4	5	6	7	8	9	5	March 4 th – Mahashivarathi March 5 th - Motivational Speech on 'Career in Indian Air Force' March 6 th - Guest Lecture on 'Composite Materials'
6	MAR	11	12	13	14	15	16	5	March 16 th – 3 rd Saturday
7	MAR	18	19	20	21	22	23	6	March 19 th - Seminar on "System Tool Kit Software" March 22 nd & 23 rd – Sports day
8	MAR	25	26	27	28	29	30	6	
9	APRIL	1	2	3	4	5	6	5	April 6 th – 1 st Saturday April 6 th - Ugadi
10	APRIL	8	9	10	11	12	13	6	
11	APRIL	15	16	17	18	19	20	5	April 15 th & 16 th – Cultural day April 17 th – Mahaveer Jayanthi April 19 th – Good Friday April 20 th – 3 rd Saturday
12	APRIL	22	23	24	25	26	27	3	
13	APRIL/MAY	29	30	1	2	3	4	4	May 1 st – May day May 4 th – 1 st Saturday
14	MAY	6	7	8	9	10	11	5	May 7 th – Basava Jayanthi
15	MAY	13	14	15	16	17	18	5	May 18 th – 3 rd Saturday
16	MAY	20	21	22	23			4	

Commencement of EVEN Semester 04.02.2019
 Commencement of II Semester 25.02.2019
 I Internal Test – 7th, 8th & 9th of March 2019
 II Internal Test – 8th, 9th & 10th of April 2019
 III Internal Test – 15th, 16th & 17th of May 2019
 Last working day : 23.05.2019


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
DEPARTMENT OF AEROSPACE ENGINEERING

CALENDER OF EVENTS ODD SEMESTER AUG – DEC 2018

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	AUG			1	2	3	4	3	AUG 4 – 1 st Saturday
2	AUG	6	7	8	9	10	11	6	
3	AUG	13	14	15	16	17	18	4	AUG 15 – Independence Day AUG 18 – 3 rd Saturday
4	AUG	20	21	22	23	24	25	5	AUG 22- Bakrid
5	AUG/SEP	27	28	29	30	31	1	5	SEP 1-1 st Saturday AUG 31 st – Graduation Day
6	SEP	3	4	5	6	7	8	6	
7	SEP	10	11	12	13	14	15	4	SEP 13 – Ganesha Chaturthi SEP 15 – 3 rd Saturday
8	SEP	17	18	19	20	21	22	5	SEP 21 - Moharam
9	SEP	24	25	26	27	28	29	6	SEP 25 – Technical talk on Basics of Space Mechanics SEP 28 – Seminar on evolution of Avionics
10	OCT	1	2	3	4	5	6	4	OCT 2 - Gandhi Jyanthi OCT 3 – Guest Lecture on Aero Thermodynamics OCT 4 – Guest lecture on Mechanics of Materials OCT 6 - 1 st Saturday
11	OCT	8	9	10	11	12	13	5	OCT 8 – Mahalaya Amavasya
12	OCT	15	16	17	18	19	20	3	OCT 18,19- Ayudha and Saraswathi Pooja OCT 20 – 3 rd Saturday
13	OCT	22	23	24	25	26	27	5	OCT 24 – Valmiki Jyanthi
14	OCT/NOV	29	30	31	1	2	3	4	NOV 1 – Kannada Rajyotsava NOV 3 – 1 st Saturday
15	NOV	5	6	7	8	9	10	4	NOV 6 – Naraka Chaturthi Nov 8 – Diwali Nov 9 – Technical Seminar on Development of Gas Turbines & UAV's
16	NOV	12	13	14	15	16	17	5	NOV 16 – Technical Seminar on Basic awareness course on Aerospace NOV 17 – 3 rd Saturday
17	NOV	19	20	21	22	23	24	5	NOV 21 – Eid Milad
18	NOV/DEC	26	27	28	29	30	1	4	NOV 26 – Kanakadasa Jyanthi DEC 1- 1 st Saturday
19	DEC	3	4					2	

Commencement of ODD Semester 01.08.2018
 I Internal Test –8th, 10th & 11th of September 2018
 II Internal Test – 25th, 26th & 27th of October 2018
 III Internal Test – 27th, 28th & 29th of November 2018
 Last working day for 3rd and 5th Semester: 30.11.2018, 7th Semester 04.12.2018


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Class Time-Table for EVEN Semester 2020-21 (WEF 19/04/2021)

MASTER TIME-TABLE

Days	SEM	I		II	III	IV	V
Time		9:45A.M-10:45A.M	10:45 A.M-11:00A.M	11:00 A.M-12:00 P.M	12:00 P.M-1.00 P.M	1:00 P.M-2:00 P.M	2:00 P.M-3:00 P.M
MON	4(A)	18CS46	T E A B R E A K	18MAT41	18CS44	L U N C H B R E A K	18CS42
	4(B)	18CS44		18MAT41	18CS46		18CS42
	6(A)	18CS653		18CS63	18CS61		18CS62
	6(B)	18CS653		18CS63	18CS61		18CS62
	8	17CS832		17CS82	17CS81		17CS84
TUE	4(A)	18CS45		18MAT41	18CS43		18CS44
	4(B)	18CS45		18MAT41	18CS43		18CS44
	6(A)	18CS61		18CS653	18CS641/1 8CS643		18CS62
	6(B)	18CS61		18CS653	18CS641/1		18CS62
	8	17CS81		17CS82	17CS81		17CS832
WED	4(A)	18CS42		18CS46	18CS45		18CS43
	4(B)	18CS42		18CS45	18CS46		18CS42
	6(A)	18CS63		18CS61	18CSL67		18CSL67
	6(B)	18CS63		18CS61	18CSL67		18CSL67
	8	17CS82		17CS832	17CS81		17CSP85/1 7CSS86
THU	4(A)	18CS44	18CS43	18CS41	18CS45		
	4(B)	18CS43	18CS44	18CS41	18CS45		
	6(A)	18CS641/1 8CS643	18CS653	18CSL66	18CSL66		
	6(B)	18CS641/1 8CS643	18CS653	18CSL66	18CSL66		
	8	17CSP85/1 7CSS86	17CSP85/17 CSS86	17CSP85/1 7CSS86	17CSP85/1 7CSS86		
FRI	4(A)	18CS46	18CS42	18CPC39	18MAT41		
	4(B)	18CS46	18CS43	18CPC39	18MAT41		
	6(A)	18CS62	18CSMP68	18CS641/1 8CS643	18CS63		
	6(B)	18CS62	18CSMP68	18CS641/1 8CS643	18CS63		
	8	17CSP85/1 7CSS86	17CSP85/17 CSS86	17CSP85/1 7CSS86	17CSP85/1 7CSS86		
SAT	4(A)	18CSL47	18CSL47	18CSL48	18CSL48		
	4(B)	18CSL47	18CSL47	18CSL48	18CSL48		
	6(A)	18CSMP68	18CSMP68	18CSL67	18CSL66		
	6(B)	18CSMP68	18CSMP68	18CSL67	18CSL66		
	8	17CSP85/1 7CSS86	17CSP85/17 CSS86	17CSP85/1 7CSS86	17CSP85/1 7CSS86		

V. M. S.
9/4/21
HOD, CSE



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Class Time-Table for ODD Semester 2020-21 (W.E.F - 01/09/2020)

MASTER TIME-TABLE

Days	SEM	I		II	III	IV	V
Time		9:45A.M- 10:45A.M	10:45 A.M-	11:00 A.M- 12:00 P.M	12:00 P.M- 1.00 P.M	1:00 P.M- 2:00 P.M	2:00 P.M- 3:00 P.M
MON	3(A)	18CS33	TEA BREAK	18MAT31	LUNCH BREAK	18CS32	18CS34
	3(B)	18CS33		18MAT31		18CS32	18CS34
	5(A)	18CS51		18CS53		18CS52	18CSL57
	5(B)	18CS51		18CS53	18CS52	18CSL57	
	Time	9:45A.M- 10:45A.M		11:00 A.M- 12:00 P.M	12:15 P.M- 1.15 P.M	1:15 P.M 1:30 P.M	1:30 P.M- 2:30 P.M
	7	17CS71		17CS743	17CS73	LUNCH BRE	17CS72
TUE	3(A)	18CS34		18CS35	LUNCH BREAK	18CS36	18CS33
	3(B)	18CS34		18CS35		18CS36	18CS33
	5(A)	18CS56		18CS54		18CS51	18CS53
	5(B)	18CS56		18CS54	18CS51	18CS53	
	Time	9:45A.M- 10:45A.M		11:00 A.M- 12:00 P.M	12:15 P.M- 1.15 P.M	1:15 P.M 1:30 P.M	1:30 P.M- 2:30 P.M
	7	17CS72		17CS754	17CS73	LUNCH BRE	17CS71
WED	3(A)	18CS32	18MAT31	LUNCH BREAK	18CS33	18CS35	
	3(B)	18CS32	18MAT31		18CS33	18CS35	
	5(A)	18CS52	18CS54		18CS56	18CS55	
	5(B)	18CS52	18CS54	18CS56	18CS55		
	Time	9:45A.M- 10:45A.M	11:00 A.M- 12:00 P.M	12:15 P.M- 1.15 P.M	1:15 P.M 1:30 P.M	1:30 P.M- 2:30 P.M	
	7	17CS754	17CS73	17CS71	LUNCH BRE	17CSL76	
THU	3(A)	18CS36	18MAT31	LUNCH BREAK	18CS34	18CS32	
	3(B)	18CS36	18MAT31		18CS34	18CS32	
	5(A)	18CS55	18CS56		18CS54	18CS51	
	5(B)	18CS55	18CS56	18CS54	18CS51		
	Time	9:45A.M- 10:45A.M	11:00 A.M- 12:00 P.M	12:15 P.M- 1.15 P.M	1:15 P.M 1:30 P.M	1:30 P.M- 2:30 P.M	
	7	17CS73	17CS743	17CS72	LUNCH BRE	17CS754	
FRI	3(A)	18CS35	18CS36	LUNCH BREAK	18CSL37	18CSL38	
	3(B)	18CS35	18CS36		18CSL37	18CSL38	
	5(A)	18CS53	18CS55		18CS52	18CSL58	
	5(B)	18CS53	18CS55	18CS52	18CSL58		
	Time	9:45A.M- 10:45A.M	11:00 A.M- 12:00 P.M	12:15 P.M- 1.15 P.M	1:15 P.M 1:30 P.M	1:30 P.M- 2:30 P.M	
	7	17CS743	17CS72	17CS71	LUNCH BRE	17CSL77	
SAT			AS PER COLLEGE NORMS				

V. S. S. S.
24/8/20
HOD, CSE




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Master Time-Table for Even Semester 2019-20 (W.E.F - 10/02/2020)

Day	Sem	I	II	10.30-10.45	III	IV	12.45-1.30	V	VI	VII
		8.30 - 9.30	9.30 - 10.30		10.45 - 11.45	11.45 - 12.45		1.30- 2.20	2.20 - 3.10	3.10 - 4.00
Mon	4(A)	18CS45	18CS43	T E A B R E A K	18CS44	18CS46	L U N C H B R E A K	18MAT41	18CS42	18CS45
	4(B)	18CS43	18MAT41		18CS42	18CS44		<-----18CSL47/18CS48----->		
	6(A)	17CS64	17CS664		17CS61	17CS62		17CS61	17CS66	17CS62
	6(B)	17CS63	17CS62		17CS664	17CS61		<----17CSL67/17CSL68-->		
	8	15CS82	15CS81		15CS832	15CS82		<-----Seminar----->		
Tue	4(A)	18CS43	18CS46		18CS45	18MAT4		18CS44	18CS42	18CS43
	4(B)	18CS43	18MAT41		18CS42	18CS44		<-----18CSL47/18CS48----->		
	6(A)	17CS63	17CS651/653		17CS64	17CS62		17CS664	PLACEMENT	17CS64
	6(B)	17CS62	17CS651/653		17CS64	17CS63		17CS62	17CS61/E-shikshan	17CS63
	8	15CS83	15CS81		15CS82	PLACEMENT		<-----INTERNSHIP----->		
Wed	4(A)	18CS42	18MAT41		18CPC39	18CS43		18CS44	18CS46	18CS44
	4(B)	18CS45	18CS46		18CS43	18CPC39		18MAT41	18CS42	18CS43
	6(A)	17CS651/653	17CS63		17CS61/E-SHIKSHA	17CS64		17CS664	17CS62	17CS63
	6(B)	17CS651/653	17CS664		17CS63	17CS62		<--17CSL67/17CSL68----->		
	8	15CS83	18CS81		15CS83	15CS81		15CS82	<---Project----->	
Thu	4(A)	18MAT41	18CS45	18CS42	18CS46	<-----18CSL47/18CS48----->				
	4(B)	18CS46	18CS42	18MAT4	18CS45	18CS42	18CS45	18CS44		
	6(A)	17CS61	17CS63	17CS62	17CS651/653	<-----17CSL67/68----->				
	6(B)	17CS64	17CS63	17CS61	17CS651/653	17CS664	PLACEMENT	17CS64		
	8	<----Project---->	<----Project---->	<----Project---->	<----Project---->	<----Project---->				
Fri	4(A)	18CS44	18MAT41	18CS43	18CS42	<-----18CSL47/18CS48----->				
	4(B)	18MAT41	18CS43	18CS46	18CS44	18CS42	18CS44	18CS45		
	6(A)	17CS62	17CS61	17CS63	17CS651/653	<-----17CSL67/68---->				
	6(B)	17CS664	17CS61	17CS64	17CS651/653	17CS64	17CS61	17CS62		
	8	<----Project---->	<----Project---->	<----Project---->	<----Project---->	<----Project---->				
Sat	As Per The Institutional Academic Calender									


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2019-2020
(odd)



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Master Time-Table for Odd Semester 2019-20 (W.F.F - 29/07/2019)

Day	Sem	I	II	10.30 10.45	III	IV	12.45 1.30	V	VI	VII		
		8.30 - 9.30	9.30 - 10.30		10.45 - 11.45	11.45 - 12.45		1.30 - 2.20	2.20 - 3.10	3.10 - 4.00		
Mon	3(A)	18CS33	18CS35	T E A C H E R E A K	18CS32	18CS36	L U N C H B R E A K	18CS32	18MAT31	18CS35		
	3(B)	18CS32	18CS36		18CS34	18CS32		18CS33	18CS33	18MAT31	18CS35	
	5(A)	17CS52	17CS53		17CS51	17CS54		<17CSL57(B1)/17CSL58(B2)-----				
	5(B)	17CS52	17CS54		17CS51	17CS53		17CS562	17CS52	17CS54	17CS54	
	7	15CS72	15CS71		15CS74	15CS73		15CS72	15CS754	15CS71	15CS71	
Tue	3(A)	18CS32	18CS33		18CS34	18MAT31		<18CSL37(B2)/18CSL38(B1)-----				
	3(B)	18CS36	18CS34		18MAT3	18CS33		18CS34	18CS36	18CS32	18CS32	
	5(A)	17CS53	17CS52		17CS55 2/553	17CS562		<----->				
	5(B)	17CS54	17CS53		17CS55 2/553	17CS562		17CSL57(B2)/17CSL58(B1)-----	17CS52	17CS562	NPTL	
	7	15CS73	15CS71		15CS74	15CS754		15CS73	15CS754	NPTL	NPTL	
Wed	3(A)	18CS34	18CS36		18MAT3	18CS35		18CS36	18CS33	18CS36	18CS33	18CS32
	3(B)	18CS33	18CS35		18CS32	18CS33		<18CSL37(B1)/18CSL38(B2)-----				
	5(A)	17CS54	17CS52		17CS53	17CS54		17CS562	17CS53	NPTL	NPTL	
	5(B)	17CS53	17CS52		17CS56 2	17CS53		<17CSL57(B1)/17CSL58(B2)-----				
	7	15CS71	15CS73		15CS72	15CS743		-->				
Thu	3(A)	18CS35	18CS32	18CS36	18CS34	<-----Project----->						
	3(B)	18CS34	18CS33	18MAT3	18CS35	18CS33	18MAT31	18CS34	18CS34			
	5(A)	17CS552 /553	17CS562	17CS52	17CS562	<--18CSL37(B1)/18CSL38(B2)---						
	5(B)	17CS552 /553	<17CSL57(B1)/17CSL58(B2)----->			17CS54	17CS51	II Bombay(Spoken	II Bombay(Spoken			
	7	15CS743	15CS71	15CS72	15CS73	17CS54	17CS51	II Bombay(Spoken	II Bombay(Spoken			
Fri	3(A)	18CS36	18MAT31	18CS34	18CS33	<18CSL37(B2)/18CSL38(B1)-----						
	3(B)	18MAT31	18CS35	18CS36	18MAT31	18CS32	18CS34	18CS36	18CS36			
	5(A)	17CS562	17CS552 /553	17CS51	17CS52	17CS53	17CS51	17CS552/5 53	17CS552/5 53			
	5(B)	17CS562	17CS552 /553	17CS51	17CS54	17CS51	17CS53	17CS552/5 53	17CS552/5 53			
	7	15CS754	15CS743	15CS72	15CS754	15CSL76(B2)/15CSL77(B1)-----						
Sat	3(A)	18KVK/KAK39/NPT L		18KVK/KAK39/NPT EL		18MAT31/	18CS32/35	18CS33/36	18CS33/36			
	3(B)	18KVK/KAK39/NPT		18KVK/KAK39/NPT		18MAT31/	18CS32/35	18CS33/36	18CS33/36			
	5(A)	DBMS Mini Project(17CSL58)				17CS51/5 4	17CS52/5 52/553	17CS53/56 7	17CS53/56			
	5(B)	DBMS Mini Project(17CSL58)				17CS51/1 7CS54	17CS52/1	17CS53/17 CS562	17CS53/17			
	7	Project Phase-I(15CSP78)				Seminar(15CSP78)						

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(18-19)
Even Sem

Master Time-Table for Even Semester 2018-19 (W.E.F - 25/02/2019)

Day	Sem	I	II	10.30	III	IV	12.45	V	VI	VII	
		8.30 - 9.30	9.30 - 10.30	- 10.45	10.45 - 11.45	11.45 - 12.45	- 1.30	1.30 - 2.20	2.20 - 3.10	3.10 - 4.00	
Mon	4th A	17CS42	17CS46		17CS45	17MAT41		<---17CSL47(B1)/17CSL48(B2)---> Lab 4 / Lab 2			
	4th B	17CS44	17MAT41		17CS46	17CS45		17CS42	17CS45	17CS42	
	6	15CS61	15CS64		15CS664	15CS653		15CS664	15CS62	15CS63	
	8	15CS81	15CS82		15CS81	15CS83		<-----SEMINAR----->			
Tue	4th A	17CS45	17CS46		17CS44	17MAT41		<---17CSL47(B2)/17CSL48(B1)---> Lab 4 / Lab 2			
	4th B	17CS42	17MAT41		17CS44	17CS42		17CS44	17CS43	17CS45	
	6	15CS653	15CS61		15CS664	15CS62		<---15CSL67(B1)/15CSL68(B2)---> Lab 1 / Lab 5			
	8	15CS82	15CS81		15CS82	15CS83		<-----SEMINAR----->			
Wed	4th A	17CS44	17CS42		17CS45	17CS46		17MAT41	17CS43	17CS42	
	4th B	17CS43	17CS44		17MAT41	17CS46		<---17CSL47(B1)/17CSL48(B2)---> Lab 4 / Lab 2			
	6	15CS62	15CS64		15CS61	15CS653		<---15CSL67(B2)/15CSL68(B1)---> Lab 1 / Lab 5			
	8	15CS83	15CS82		15CS83	15CS81		<-----PROJECT----->			
Thu	4th A	17CS43	17CS45		17MAT41	17CS43		17CS44	17CS42	17CS45	
	4th B	17MAT41	17CS46		17CS43	17CS45		<---17CSL47(B2)/17CSL48(B1)---> Lab 4 / Lab 2			
	6	15CS64	15CS63		15CS653	15CS61		15CS62	15CS63	15CS664	
	8	<-----PROJECT----->			<-----PROJECT----->			<-----PROJECT----->			
Fri	4th A	17CS46	17CS42		17CS43	17CS44		17MAT41	17CS43	17CS44	
	4th B	17CS46	17CS44		17CS43	17CS45		17MAT41	17CS46	17CS42	
	6	15CS63	15CS61		15CS64	15CS63		15CS64	15CS62	15CS653	
	8	<-----PROJECT----->			<-----PROJECT----->			<-----PROJECT----->			
Sat	4th A	17CPH49			<-----RED HAT----->			<-----RED HAT----->			
	4th B	17CPH49			<-----RED HAT----->			<-----RED HAT----->			
	6	Content Beyond Syllabus			Content Beyond Syllabus			<-----RED HAT----->			
	8							<-----Intel Lab----->			

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Master Time-Table for Odd Semester 2018-19 (W.E.F - 06/08/2018)

Day	Sem	I		10.30-10.45	10.45-11.45	11.45-12.45	12.45-1.30	VII		
		8.30-9.30	9.30-10.30					V	VI	VII
Mon	3(A)	17CS32	17MAT31		17CS35	17CS34		<---17CSL37(B1)/17CSL38(B2)--->		
	3(B)	17CS34	17CS36		17MAT31	17CS32		17CS35	17MAT31	17CS34
	5	15CS565	15CS553		15CS52	15CS53		<---15CSL57(B1)/15CSL58(B2)--->		
	7	15CS72	15CS71		15CS754	15CS744		15CS72	15CS73	15CS71
Tue	3(A)	17CS36	17CS33		17CS34	17MAT31		<---17CSL37(B2)/17CSL38(B1)--->		
	3(B)	17CS36	17CS35		17CS32	17CS34		17MAT31	17CS36	17CS33
	5	15CS54	15CS51		15CS553	15CS53		<---15CSL57(B2)/15CSL58(B1)--->		
	7	15CS744	15CS73		15CS71	15CS754		15CS72	15CS71	15CS73
Wed	3(A)	17CS33	17CS32	T E A B R E A K	17CS35	17CS36	L U N C H B R E A K	17CS33	17CS35	17MAT31
	3(B)	17CS35	17CS34		17CS36	17CS33		17CS32	17MAT31	17CS33
	5	15CS53	15CS565		15CS54	15CS52		15CS553	15CS54	15CS565
	7	15CS71	15CS72		15CS744	15CS754		<-----Web Mini Project----->		
Thu	3(A)	17CS35	17CS36		17CS33	17CS34		17CS32	17MAT31	17CS32
	3(B)	17CS32	17CS36		17CS35	17CS33		<---17CSL37(B1)/17CSL38(B2)--->		
	5	15CS52	15CS553		15CS54	15CS565		15CS51	15CS52	15CS53
	7	15CS754	15CS72		15CS73	Content Beyond		<---15CSL76(B1)/15CSL77(B2)--->		
Fri	3(A)	17CS34	17CS36		17MAT31	17CS33		17CS32	17CS34	17CS36
	3(B)	17CS33	17CS34		17CS32	17MAT31		<---17CSL37(B2)/17CSL38(B1)--->		
	5	15CS565	15CS54		15CS52	15CS51		15CS53	15CS553	15CS51
	7	15CS73	15CS744		15CS754	15CS744		<---15CSL76(B2)/15CSL77(B1)--->		
Sat	3(A)	17KL/CPH39/49			Content beyond syllbus			Practice Lab(17CSL37/17CSL38)		
	3(B)	17KL/CPH39/49			Content beyond syllbus			Practice Lab(17CSL37/17CSL38)		
	5	DBMS Mini Project(15CSL58)			Content beyond syllbus			Practice Lab(15CSL57/15CSL58)		
	7	Project Phase-I(15CSP78)						Practice Lab(15CSL76/15CSL77)		

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Master Time-Table for EVEN Semester 2017-18 (W.E.F - 01/02/2018)

Day	Sem	I 8.30 - 9.30	II 9.30 - 10.30	10.30- 10.45	III 10.45 - 11.45	IV 11.45 - 12.45	12.45 - 1.30	V 1.30- 2.20	VI 2.20 - 3.10	VII 3.10 - 4.00
Mon	4	15CS45	15CS44	T E A B R E A K	15CS43	15MAT41	L U N C H B R E A K	15CS46	15CSL48 Lab View	LIBRARY
	6	15CS653	15CS61		15CS64	15CS664		<--15CSL67(B1)/15CSL68(B2)-->		
	8	10CS845	10IS81		10CS82	10CS835		10CS82	10CS845	LIBRARY
	4	15CS43	15CS46		15CS42	15MAT41		<--15CSL47(B1)/15CSL48(B2)-->		
	6	15CS61	15CS664		15CS63	15CS64		<--Mini Project(MP1)--->		
	8	10IS81	10CS835		10CS845	10CS835		10CS82	<---Seminar--->	
wed	4	15MAT41	15CS45		15CS44	15CS43		<-15CSL47(B3)/15CSL48(B1)-->		
	6	15CS664	15CS653		15CS61	15CS62		<---Mini Project(MP2)--->		
	8	10CS835	10CS845		10IS81	10CS82		10IS81	<---Seminar--->	
Thu	4	15CS45	15CS42		15CS43	15CS46		15MAT41	15CSL47 Lab View	EDUSAT
	6	15CS63	15CS62		15CS664	15CS64		<-15CSL67(B3)/15CSL68(B1)-->		
	8	PROJECT WORK			PROJECT WORK			PROJECT WORK		
	4	15CS44	15CS42	15MAT41	NPTEL	<-15CSL47(B2)/15CSL48(B3)-->				
	6	15CS62	15CS653	15CS63	15CS61	<-15CSL67(B2)/15CSL68(B3)-->				
	8	PROJECT WORK		PROJECT WORK		PROJECT WORK				
Sat	4	15CS46	15CS44	15CS42	15CS45	15CS44	15CS42	15CS45		
	6	15CS653	15CS62	15CS64	15CS63	15CS653	15CS62	15CS63		
	8	PROJECT WORK		PROJECT WORK		PROJECT WORK				

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Master Time-Table for Odd Semester 2017-18 (W.E.F - 07/08/2017)

Day	Sem	I 8.30 - 9.30	II 9.30 - 10.30	10.30- 10.45	III 10.45 - 11.45	IV 11.45 - 12.45	12.45 1.30	V 1.30- 2.20	VI 2.20 - 3.10	VII 3.10 - 4.00	
Mon	3	15CS32	15CS35	T E A	15MAT31	15CS36	LUNCH B R E A K	15CS33	15CS34	15CS35	
	5	15CS51	15CS563		15CS54	15CS53		15CS52	15CS52	15CS51	15CS54
	7	10CS71	10CS74		10CS753	10CS72		10CS765	<---10CSL77(B1)/10CSL78(B2)---> Lab 2 /Lab 5		
Tue	3	15MAT31	<----15CSL37(B3)/15CSL38(B1)----> (ECE EC&LD Lab/Lab4)					15CS34	15CS32	15CS33	
	5	15CS52	15CS54		15CS53	15CS553		<---10CSL57(B1)/10CSL58(B2)---> LAB 1/LAB 3			
	7	10CS74	10CS753		10CS73	10CS71		<--10CSL77(B2)/10CSL78(B1)---> Lab 2 /Lab 5			
Wed	3	15CS33	15CS34		15CS35	15CS36		15MAT31	15CS32	15CS36	
	5	15CS54	15CS563		15CS553	15CS52		15CS563	15CS53	15CS51	
	7	10CS753	10CS71		10CS73	10CS765		<----Additional Experiment/Project--->			
Thu	3	15CS32	15MAT31	B R E A K	15CS36	15CS33		<--15CSL37(B2)/15CSL38(B3)---> (ECE EC&LD Lab /Lab4)			
	5	15CS53	15CS54		15CS553	15CS51		<---10CSL57(B2)/10CSL58(B3)---> LAB 1/LAB 3			
	7	10CS72	10CS74		10CS72	10CS765		10CS71	10CS753	10CS73	
Fri	3	15CS35	15CS33		15CS34	15MAT31		<---15CSL37(B1)/15CSL38(B2)---> (ECE EC&LD Lab/Lab4)			
	5	15CS553	15CS52		15CS53	15CS563		<---10CSL57(B3)/10CSL58(B1)---> LAB 1/LAB 3			
	7	10CS765	10CS72		10CS74	10CS753		10CS73	10CS74	10CS765	
Sat	3	15CS34	15CS35		15CS36	15CS32					
	5	15CS563	15CS553		15CS51	15CS52					
	7	10CS71	10CS73		10CS765	10CS72					

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CLASS TIME-TABLE FOR THE ACADEMIC YEAR 2016-17 (Even Semester)

Master Time Table

Periods → Time → Day ↓	1 8.30-9.30 AM	2 9.30-10.30 AM	10.30-10.45 A.M	3 10.45-11.45 AM	4 11.45-12.45 PM	12.45 -1.30 P.M	5 1.30-2.20 PM	6 2.20-3.10 PM	7 3.10-4.00 PM	
Monday	15CS46	15CS44	T E A C H E R B R E A K	15CS45	15CS42	LUN CH B R E A K	15MAT41	15CS44	15CS45	
	10CS64	10CS62		10CS661	10CS63		←----- 10CSL67 / 68 -----→ B1(CG&VL)/B2(USP&CD)			
	10CS845	10CS81		10CS845	10CS82		10CS82	10CS835	10CS81	
Tuesday	15CS43	15MAT41		15CS42	15CS45		15CS44	15CS46	15CS42	
	10CS65	10CS61		10CS63	10CS64		10CS62	10CS65	10CS61	
	10CS81	10CS835		10CS82	10CS845		10CS835	10CS845	10CS82	
Wednesday	15CS42	15CSL47 / 48 ->		←----- 15CSL47 / 48 -----→			15CS45	15CS42	15CS43	
	10CS661	10CS64		10CS65	10CS61		10CS64	10CS661	10CS63	
	10CS835	10CS81		10CS835	10CS81		10CS845	10CS82	Seminar	
Thursday	15MAT41	15CS46		15MAT41	15CS43		←----- 15CSL47 / 48 -----→ B2(DAA)/B3(MP)/B1(LIBRARY)			
	10CS63	10CS65	10CS661	10CS62	←--- CG Mini Project ---> LIBRARY					
	PROJECT WORK		PROJECT WORK		PROJECT WORK					
Friday	15CS44	15MAT41	15CS46	15CS43	←----- 15CSL47 / 48 -----→ B3(DAA)/B1(MP)/B2(LIBRARY)					
	10CS62	10CS64	10CS661	10CS61	←----- 10CSL67 / 68 -----→ B2(CG&VL)/B1(USP&CD)					
	PROJECT WORK		PROJECT WORK		PROJECT WORK					
Saturday	15CS45	15CS43	15CS44	15CS46						
	10CS61	10CS63	10CS62	10CS65						
	PROJECT WORK		PROJECT WORK							

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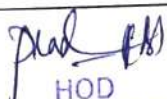
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Department of Computer Science & Engineering

MASTER TIME-TABLE FOR THE ACADEMIC YEAR 2016-17 (Odd Semester)

Periods → Time → Day ↓	Sem	1	2	10.30-10.45 A.M	3	4	12.45-1.30 P.M	5	6	7
		8.30-9.30 AM	9.30-10.30 AM		10.45-11.45 AM	11.45-12.45 PM		1.30-2.20 PM	2.20-3.10 PM	3.10-4.00 PM
Mon	3	15MAT31	15CS36	TEA BREAK	15CS32	15CS35	L U N C H B R E A K	Placement Training	15CS34	15MAT31
	5	10CS54	10CS55		10CS53	10CS52		10IS51	Placement Training	10CS56
	7	10CS72	10CS761		10CS74	10CS753		←----10CSL77(B1)/10CSL78(B2)----→ Lab 2 /Lab 5		
Tues	3	15CS36	15CS33		15CS35	15CS32		15CS34	15CS33	Automation Testing
	5	10IS51	←-----10CSL57(B1)/10CSL58(B2)-----→ Lab 3/Lab 1			10CS56		10CS51	Requirement Engg & Device Drivers	
	7	10CS73	10CS72	TEA BREAK	10CS753	10CS71		10CS74	10CS72	Requirement Engg & Device Drivers
Wed	3	15CS34	←-----15CSL37(B3)/15CSL38(B1)-----→ (BM EC&LD/Lab4)			15MAT31		15CS32	15CS35	
	5	10CS53	10IS51	TEA BREAK	10CS55	10CS54		10CS56	10CS52	10IS51
	7	10CS753	10CS761		10CS71	10CS73		←-----CSL77(B2)/10CSL78(B1)-----→ Lab 2 /Lab 5		
Thur	3	15CS32	←-----15CSL37(B2)/15CSL38(B3)-----→ (BM EC&LD/Lab4)			15CS34		15MAT31	15CS33	
	5	10CS56	10CS53	TEA BREAK	10CS54	10CS52	←-----10CSL57(B2)/10CSL58(B1)-----→ LAB 3/LAB 1			
	7	10CS74	10CS73		10CS761	10CS71	10CS72	10CS74	10CS753	
Fri	3	15CS35	15CS34		15CS33	15CS36	←-----15CSL37(B1)/15CSL38(B2)-----→ (BM EC&LD/Lab4)			
	5	10CS55	10CS56		10CS53	10CS54	←--10CSL57(B1/B2)/10CSL58(B2/B1)--→ LAB 3/LAB 1			
	7	10CS71	10CS761	10CS753	10CS72	←--10CSL77(B1/B2)/10CSL78(B2/B1)--→ Lab 2 /Lab 5				
Sat	3	15CS33	15CS36	←--Automation Testing--→						
	5	10CS52	10CS55	←Requirement Engg & Device Drivers→						
	7	10CS73	10CS74	← Requirement Engg & Device Drivers -→						


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Kambipura, Mysore Road, Bangalore-74

Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2015-16
Semester	7th semester
Section	
Subject Code	10CS74
Subject Title	ADVANCED COMPUTER ARCHITECTURES
Faculty In-charge/Desgn./Dept.	Mrs. Sunita Chalageri

Course Learning Objectives :

- 1) Study the classes of computer, computer architecture, and scalability analysis , trends in technology data dependencies and benchmark measures, performance laws and program behaviors.
- 2) Study pipelining and superscalar design in processor development, technique for building instruction pipelines, arithmetic pipelines and memory access pipelines are presented..
- 3) Study instruction level parallelism concepts and its challenges, compiler techniques for exploiting ILP, overcoming data hazards with dynamic scheduling, Hardware based speculation.
- 4) To study taxonomy of parallel architecture and also focuses on symmetric shared memory architecture, synchronization and memory consistency models

Course pre-requisites:

- Knowledge of Computer organization

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	UNIT-1			
Day 1	Fundamentals Of Computer Design: Introduction; Classes of computers;	Lecture	Black Board	T1
Day 2	Defining computer architecture; Trends in Technology,.	Lecture	Black Board	T1
Day 3	power in Integrated Circuits and cost; Dependability;	Lecture	Black Board	T1

Day 4	Measuring, reporting and summarizing Performance;	Lecture	Black Board	T1,R1
Day 5	summarizing Performance contd..	Lecture	Black Board	T1
Day 6	Quantitative Principles of computer design	Lecture	Black Board	T1
	UNIT-2	Lecture	Black Board	T1,R1
Day 7	Pipelining: Introduction;	Lecture	Black Board	T1
Day 8	Introduction contd..			
Day 9	Pipeline hazards; Implementation of pipeline; What makes pipelining hard to implement?	Discussion	Black Board	T1
Day 10	Pipeline hazards contd..	Lecture	Black Board	T1
Day 11	Implementation of pipeline;	Lecture	Black Board	T1,R1
Day 12	What makes pipelining hard to implement?	Lecture	Black Board	T1
	UNIT 3	Lecture	Black Board	T1
Day 13	Instruction –Level Parallelism – 1: ILP: Concepts and challenges			
Day 14	Concepts and challenges	Lecture	Black Board	T1
Day 15	Basic Compiler Techniques for exposing ILP;	Lecture	Black Board	T1
Day 16	Reducing Branch costs with prediction	Lecture	Black Board	T1
Day 17	Overcoming Data hazards with Dynamic scheduling;	Lecture	Black Board	T1
Day 18	Overcoming Data hazards with Dynamic scheduling contd..	Lecture	Black Board	T1
Day 19	Hardwarebased speculation.			
	UNIT 4	Lecture	Black Board	T1
Day 20	Instruction –Level Parallelism – 2: Exploiting ILP using multiple issue and static scheduling	Lecture	Black Board	T1
Day 21	Exploiting ILP using dynamic scheduling,	Lecture	Black Board	T1
Day 22	multiple issue and speculation			
Day 23	multiple issue and speculation contd..	Lecture	Black Board	T1,R1
Day 24	Advanced Techniques for instruction delivery and Speculation;	Lecture	Black Board	T1
Day 25	instruction delivery and Speculation contd..	Lecture	Black Board	T1,R1
Day 26	The Intel Pentium 4 as example	Lecture	Black Board	T1
	UNIT 5	Lecture	Black Board	T1
Day 27	Multiprocessors and Thread –Level Parallelism: Introduction;	Lecture	Black Board	T1
Day 28	Symmetric shared-memory architectures;	Lecture	Black Board	T1,R1
Day 29	Performance of symmetric shared-memory			

	multiprocessors;			
ay 30	Distributed shared memory and directory-based coherence	Lecture	Black Board	T1,R1
ay 31	directory-based coherence contd..	Lecture	Black Board	T1
ay 32	Basics of synchronization;	Lecture	Black Board	T1
	Models of Memory Consistency			
	Multiprocessors and Thread -Level Parallelism: Introduction;			
	UNIT 6			
ay 33	Review of Memory Hierarchy: Introduction	Lecture	Black Board	T1
ay 34	Cache performance;	Lecture	Black Board	T1
ay 35	Cache performance	Lecture	Black Board	T1
ay 36	Cache Optimizations	Lecture	Black Board	T1
ay 37	Cache Optimizations contd..	Lecture	Black Board	T1,R1
ay 38	Virtual memory	Lecture	Black Board	T1
ay 39	Virtual memory			
	UNIT 7			
		Lecture	Black Board	T1
ay 40	Memory Hierarchy design: Introduction;	Lecture	Black Board	T1
ay 41	Advanced optimizations of Cache performance;	Lecture	Black Board	T1,R1
ay 42	Advanced optimizations of Cache performance contd..	Lecture	Black Board	T1
ay 43	Memory technology and optimizations; Protection: Virtual memory and virtual machines.	Lecture	Black Board	T1
ay 44	Memory technology and optimizations contd..			
ay 45	Protection: Virtual memory and virtual machines.	Lecture	Black Board	T1
ay 46	Memory Hierarchy design: Introduction;	Lecture	Black Board	T1
	UNIT 8			
		Lecture	Black Board	T1,R2
ay 47	Hardware and Software for VLIW and EPIC: Introduction: Exploiting Instruction-Level Parallelism Statically;	Lecture	Black Board	T1
ay 48	Detecting and Enhancing Loop-Level Parallelism;	Lecture	Black Board	T1
ay 49	Scheduling and Structuring Code for Parallelism;	Lecture	Black Board	T1,R2
ay 50	Hardware Support for Exposing Parallelism: Predicated Instructions.	Lecture	Black Board	T1
ay 51	Hardware Support for Compiler Speculation;	Lecture	Black Board	T1

ny 52	The Intel IA-64 Architecture and Itanium Processor, Conclusions	Lecture	Black Board	T1
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Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Book	Computer Architecture, A Quantitative Approach, 4th Edition	John L. Hennessy and David A. Patterson	Elsevier, 2007
1	Reference Books	Advanced Computer Architecture: Parallelism, Scalability, Programability, 2nd Edition	Kai Hwang	Tata Mc Graw Hill, 2010
2		Parallel Computer Architecture, A Hardware / Software Approach	David E. Culler, Jaswinder Pal Singh, Anoop Gupta .	Morgan Kaufman, 1999

Course outcome

1. Foundation for readers to study hardware and software and Design of scalable computer system
2. Internal data forwarding, software interlocking, hardware score boarding, and Hazards avoidance, branch handling
3. We will learn verity of hardware and software techniques that allow us to take advantage of instruction level parallelism to fully utilize the potential of the functional units..
4. How to use simpler compiler technology to enhance a processor ability to exploit ILP.

Internal Assessment Marks:(50)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 25 marks.

External Marks: (100)

Students have to answer 5 questions out of 8 questions choosing at least 2 out of 4 questions from PART – A and at least 2 out of 4 questions from PART – B and 1 question from either of the part.


Faculty in Charge


HOD



ACS College of Engineering

Kambipura, Mysore Road, Bangalore-74

Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2015-2016
Semester	VII
Subject Code	10CS753
Subject Title	JAVA & J2EE
Faculty In-charge/Desgn./Dept.	Mr.Mahantesh Mathapati /Asst.Prof/CSE

Course Learning Objectives:

On completion of this subject, students will be expected to:

- Understand fundamentals of Programming such as variables, looping constructs, methods, classes etc.
- Understand fundamental concepts of object oriented programming in java including defining class, method, invoking methods and class libraries etc.
- Understand Java programming language construct to create several Java technology applications
- Perform basic error handling for your Java Technology

Course pre-requisites:

Little or no previous programming experience

Schedule of teaching and learning:

Day	Unit & Topic of Discussion	Mode of Delivery	Teaching aids	Reference/Source
	<u>PART-A</u>			
	UNIT -I INTRODUCTION TO JAVA			
Day 1	Java and Java applications, Java Development Kit (JDK); Java is interpreted, Byte Code.	Lecture	Black Board	T1
Day 2	JVM, Object-oriented programming; Simple Java programs	Lecture	Black Board	T1
Day 3	Data types and other tokens: Boolean variables, int, long, char, operators, arrays, white spaces, literals,	Lecture	Black Board	T1
Day 4	Assigning values .Creating and destroying objects; Access specifiers.	Lecture	Black Board	T1
Day 5	operators and Expressions: Arithmetic Operators, Bitwise operators, Relational operators, The Assignment Operator The ? Operator; Operator Precedence; Logical expression;	Lecture	Black Board	T1
Day 6	Type casting; Strings , Control Statements: Selection statements, iteration statements, Jump Statements	Lecture	Black Board	T1
	UNIT-II CLASSES, INHERITANCE, EXCEPTIONS, APPLETS			
Day 7	Classes: Classes in Java; Declaring a class; Class name; Super classes; Constructors; Creating instances of class; Inner classes	Lecture	Black Board	T1
Day 8	Inheritance: Simple, multiple, and multilevel inheritance; Overriding, overloading.	Lecture	Black Board	T1
Day 9	Exception handling: Exception handling in Java.	Lecture	Black Board	T1
Day 10	The Applet Class: Two types of Applets; Applet basics; Applet Architecture; An Applet skeleton; Simple Applet display Method	Lecture	Black Board	T1
Day 11	Requesting repainting; Using the Status Window; The HTML APPLET tag; Passing parameters to Applets; getDocumentbase() and getCodebase()	Lecture	Black Board	T1

Day 12	ApletContext and showDocument(); The AudioClip Interface; The AppletStub Interface; Output to the Console.	Lecture	Black Board	T1
	UNIT -III MULTI THREADED PROGRAMMING, EVENT HANDLING			
Day 13	Multi Threaded Programming: What are threads? How to make the classes threadable;	Lecture	Black Board	T1
Day 14	Extending threads; Implementing runnable; Synchronization; Changing state of the thread; Bounded buffer problems	Lecture	Black Board	T1
Day 15	Read-write problem, producer-consumer problems	Lecture	Black Board	T1
Day 16	Two event handling mechanisms	Lecture	Black Board	T1
Day 17	The delegation event model; Event classes; Sources of events	Lecture	Black Board	T1
Day 18	Event listener interfaces; Using the delegation event model	Lecture	Black Board	T1
Day 19	Adapter classes; Inner classes	Lecture	Black Board	T1
	UNIT- IV SWINGS			
Day 20	Swings: The origins of Swing; Two key Swing features	Lecture	Black Board	T1
Day 21	Components and Containers	Lecture	Black Board	T1
Day 22	The Swing Packages; A simple Swing Application	Lecture	Black Board	T1
Day 23	Create a Swing Applet	Lecture	Black Board	T1
Day 24	Jlabel and ImageIcon	Lecture	Black Board	T1
Day 25	JTextField;The Swing Buttons; JTabbedPane	Lecture	Black Board	T1
Day 26	JScrollPane; JList; JComboBox; JTable	Lecture	Black Board	T1
	<u>PART-B</u>			
	UNIT -V JAVA 2 ENTERPRISE EDITION OVERVIEW, DATABASE ACCESS:			
Day 27	Overview of J2EE and J2SE.	Lecture	Black Board	T2
Day 28	The Concept of JDBC; JDBC Driver Types; JDBC Packages	Lecture	Black Board	T2
Day 29	A Brief Overview of the JDBC process; Database Connection;	Lecture	Black Board	T2

Day 30	Associating the JDBC/ODBC Bridge with the Database;	Lecture	Black Board	T2
Day 31	Statement Objects ,ResultSet;	Lecture	Black Board	T2
Day 32	Transaction Processing Metadata,. Data types; Exceptions.	Lecture	Black Board	T2
UNIT-VI SERVLETS				
Day 33	Background	Lecture	Black Board	T2
Day 34	The Life Cycle of a Servlet; Using Tomcat for Servlet Development; A simple Servlet	Lecture	Black Board	T2
Day 35	The Servlet API; The Javax.servlet Package	Lecture	Black Board	T2
Day 36	Reading Servlet Parameter; The Javax.servlet.http package	Lecture	Black Board	T2
Day 37	Handling HTTP Requests and Responses	Lecture	Black Board	T2
Day 38	Using Cookies	Lecture	Black Board	T2
Day 39	Session Tracking.	Lecture	Black Board	T2
UNIT -VII JSP, RMI				
Day 40	Java Server Pages (JSP): JSP, JSP Tags	Lecture	Black Board	T2
Day 41	Tomcat, Request String, User Sessions	Lecture	Black Board	T2
Day 42	Cookies, Session Objects	Lecture	Black Board	T2
Day 43	Java Remote Method Invocation: Remote Method Invocation Concept	Lecture	Black Board	T2
Day 44	Server side	Lecture	Black Board	T2
Day 45	Client side.	Lecture	Black Board	T2
UNIT-VIII ENTERPRISE JAVA BEANS				
Day 46	Enterprise java Beans;	Lecture	Black Board	T2
Day 47	Enterprise java Beans;	Lecture	Black Board	T2
Day 48	Deployment Descriptors	Lecture	Black Board	T2
Day 49	Session Java Bean	Lecture	Black Board	T2

Day 50	Entity Java Bean;	Lecture	Black Board	T2
Day 51	Message-Driven Bean	Lecture	Black Board	T2
Day 52	The JAR File.	Lecture	Black Board	T2

Text Books:

Sl. No.	Books	Name of Book	Author Name	Publication
1	Prescribed Book	Java The Complete Reference (Chapters 1, 2, 3, 4, 5, 6, 8, 10, 11, 21, 22, 29, 30, 31)	Herbert Schildt	7th Edition, Tata McGraw Hill, 2007
2		J2EE-The Complete Reference (Chapters 5, 6, 11, 12, 15)	Jim Keogh	Tata McGraw Hill, 2007
1	Reference Books	Introduction to JAVA Programming	Y. Daniel Liang	7th Edition, Pearson Education, 2007
2		The J2EE Tutorial	Stephanie Bodoff et al	2nd Edition, Pearson Education, 2004

Internal Assessment Marks :(50)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 25 marks.

Three Assessment:

PERIODICAL TESTS:	ASSESSMENT SCHEME	TOTAL MARKS
Assesment – I	Test-I(unit 1)	50
Assesment – II	Test-II(unit 2)	50
Assesment – III	Test-III(unit 5,6)	50

External Marks: (100)

Students have to answer 5 questions out of 8 questions choosing at least 2 out of 4 questions from PART – A and at least 2 out of 4 questions from PART – B and 1 question from either of the part

Faculty in charge


HOD
Dept. of C.S. & Engg.
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Bangalore - 560 074.



A.C.S. COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

LESSON PLAN

Academic Year	2015- 2016
Semester	VI
Subject Code	10CS63
Subject Title	Compiler Design
Faculty In-charge/Desgn./Dept.	Sunita Chalageri / Asst prof / CSE

Course Learning Objectives:

1. The Main objective of this unit is to study the language processors, structure of compiler, applications of compiler and programming language basics in order to implement the compiler.
2. To Study the context free grammars and parsing techniques.
3. To Study Bottom-up parsing and LR parsing technique. To Study power of LR parsers and to compaction of LR Parsing.
4. To Study syntax directed definitions, evaluation orders of SDD's and applications of syntax directed translation. • To Study Variants of syntax trees, to create three address code and types of declarations and to translate the expressions.
5. To study storage organization, stack allocation of space, how to access to non-local data of the stack and heap management-1 & heap management-2. • To Study the issues in the design of code generator, target language, address in the target code, basic block and flow graph, optimization of basic blocks and a simple code generator.

Course pre-requisites:

- Formal Language and automata theory

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	UNIT -1			
Day 1	Introduction, Lexical analysis: Language processors	Lecture	Black Board	T1 ,R1
Day 2	The structure of a Compiler; The evolution of programming languages;	Lecture	Black Board	T1
Day 3	The science of building a Compiler; Applications of compiler technology	Lecture	Black Board	T1
Day 4	Programming language basics. Lexical analysis	Lecture	Black Board	T1,R1
Day 5	The Role of Lexical Analyzer	Lecture	Black Board	T1
Day 6	Input Buffering	Lecture	Black Board	T1

Day 7	Specifications of Tokens	Lecture	Black Board	T1,R1
Day 8	Recognition of Tokens	Lecture	Black Board	T1
	UNIT-2			
Day 9	Syntax Analysis – 1: Introduction	Discussion	Black Board	T1
Day 10	Context-free Grammars	Lecture	Black Board	T1
Day 11	Writing a Grammar	Lecture	Black Board	T1,R1
Day 12	Top-down Parsing.	Lecture	Black Board	T1
Day 13	Top-down Parsing	Lecture	Black Board	T1
Day 14	Bottom-up Parsing	Discussion	Black Board	T1
	UNIT -3			
Day 15	Introduction Top-down Parsing	Discussion	Black Board	T1
Day 16	First and Follow, Bottom-up Parsing	Lecture	Black Board	T1
Day 17	Syntax Analysis – 2: Top- down Parsing, LL grammar	Lecture	Black Board	T1,R1
Day 18	Non recursive and predictive parsing	Lecture	Black Board	T1
Day 19	Bottom-up Parsing	Lecture	Black Board	T1
Day 20	Reduction, Shift reduce parsing	Discussion	Black Board	T1
	UNIT-4			
Day 21	Syntax Analysis – 3: Introduction to LR Parsing: Simple LR	Discussion	Black Board	T1
Day 22	More powerful LR parsers	Lecture	Black Board	T1
Day 23	Constructing LR parser	Lecture	Black Board	T1,R1
Day 24	Constructing LALR	Lecture	Black Board	T1
Day 25	Using ambiguous grammars	Lecture	Black Board	T1
Day 26	Parser Generators	Discussion	Black Board	T1
	UNIT-5			
Day 27	Syntax-Directed Translation: Syntax- directed definitions	Discussion	Black Board	T1
Day 28	Evaluation orders for SDDs	Lecture	Black Board	T1
Day 29	s-attribute and L-attribute	Lecture	Black Board	T1,R1
Day 30	Dependency graph	Lecture	Black Board	T1
Day 31	Applications of syntax- directed translation	Lecture	Black Board	T1
Day 32	Syntax-directed translation schemes.	Discussion	Black Board	T1

2	Books	Modern Compiler Implementation in C	Andrew W Apple	Cambridge University Press, 1997.
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Course Outcome:

- Understand basics of Compilers and its phases and will be able to solve problems related to Shift reduce parsing, compute FIRST and FOLLOW sets, LR(0), LR(1) and LALR sets of items and parse table for a given grammar
- Demonstrate the ability to write syntax directed translations of simple statements and understand the working of procedure calls
- Demonstrate the ability to write intermediate code for a given high level programming language (preferably C or FORTRAN) and be able to represent the intermediate code as Quadruples, Triples and Indirect Triples
- Write 3 address code and identify the basic blocks, draw flow graphs and represent directed Acyclic graphs for the identified basic blocks. They will also be able to write the target optimized code (assembly code) for the given three address code.

Internal Assessment Marks :(50)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 25 marks.

Three Assessment:

PERIODICAL TESTS:	ASSESSMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(unit 1,2 & 3)	50
Assesment - II	Test-II(unit 4,5 & 6 th half)	50
Assesment - III	Test-III(6 th half , 7 & 8)	50

i) Periodical tests:

- Three Cycle test

ii) Carry home exercise

- Given problems on Lexical Analyzer, Parsers.

External Marks: (100)

Students have to answer 5 questions out of 8 questions choosing at least 2 out of 4 questions from PART – A and at least 2 out of 4 questions from PART – B and 1 question from either of the part.



Faculty in Charge



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Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2015-2016
Semester	4 th semester
Subject Code	10CS42
Subject Title	Graph Theory
Faculty In-charge	Mrs.Jyoti Metan

COURSE OBJECTIVES:

- Give the student the necessary information to deals with graph and trees.
- Understand the ideas of permutations and combinations and how to apply combinatorial ideas to practical problems.
- students will come across a number of theorems and proofs.
- Increase the ability to compute $d(a,b)$ in a weight graph and find the shortest path from a to b.
- Theorems will be stated and proved formally using various techniques.
- Various graphs algorithms will also be taught along with its analysis.

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	UNIT-1: Introduction to Graph Theory			
Day 1	Introduction	Lecture	Black Board	T1
Day 2	Definitions and Examples	Lecture	Black Board	T1
Day 3	Subgraphs	Lecture	Black Board	T1,
Day 4	Graph Isomorphism,	Lecture	Black Board	T1
Day 5	Complements, and Vertex Degree,	Lecture	Black Board	T1
Day 6	Euler Trails and Circuits	Lecture	Black Board	T1
Day 7	Euler Trails and Circuits	Lecture	Black Board	T1
	UNIT-2: Introduction to Graph Theory			
Day 8	Planar Graphs,	Lecture	Black Board	T1
Day 9	Hamilton Paths and Cycles	Lecture	Black Board	T1
Day 10	Hamilton Paths and Cycles	Lecture	Black Board	T1
Day 11	Graph Colouring	Lecture	Black Board	T1
Day 12	Graph Colouring, and	Lecture	Black Board	T1
Day 13	chromatic Polynomials	Lecture	Black Board	T1
	UNIT 3:Tree			
Day 14	Definitions	Lecture	Black Board	T1
Day 15	Examples of Trees	Lecture	Black Board	T1
Day 16	Routed Trees,	Lecture	Black Board	T1
Day 17	Sorting, Weighted Trees	Lecture	Black Board	T1
Day 18	Prefix Codes	Lecture	Black Board	T1

Day 19	Prefix Codes & examples	Lecture	Black Board	T1
	UNIT 4: Optimization and Matching			
Day 20	Dijkstra's Shortest Path Algorithm	Lecture	Black Board	T1
Day 21	Dijkstra's Shortest Path Algorithm	Lecture	Black Board	T1
Day 22	Minimal Spanning Trees – The algorithms of Kruskal	Lecture	Black Board	T1
Day 23	Prim algorithm	Lecture	Black Board	T1
Day 24	Transport Networks – Max-flow, Min-cut Theorem	Lecture	Black Board	T1
Day 25	Transport Networks – Max-flow, Min-cut Theorem	Lecture	Black Board	T1
Day 26	Matching Theory	Lecture	Black Board	T1
	UNIT 5: Fundamental Principles of Counting			
Day 27	The Rules of Sum and Product,	Lecture	Black Board	T1
Day 28	Permutations,	Lecture	Black Board	T1
Day 29	Combinations	Lecture	Black Board	T1
Day 30	The Binomial Theorem	Lecture	Black Board	T1
Day 31	Combinations with Repetition,	Lecture	Black Board	T1
Day 32	The Catalan Numbers	Lecture	Black Board	T1
	UNIT 6: The Principle of Inclusion and Exclusion			
Day 33	Generalizations of the Principle	Lecture	Black Board	T1
Day 34	Generalizations of the Principle	Lecture	Black Board	T1
Day 35	Derangements – Nothing is in its Right Place	Lecture	Black Board	T1
Day 36	Derangements – Nothing is in its Right Place	Lecture	Black Board	T1
Day 37	Rook Polynomials	Lecture	Black Board	T1
Day 38	Rook Polynomials	Lecture	Black Board	T1
	UNIT 7 Generating Functions:			
Day 39	Introductory Examples,	Lecture	Black Board	T1
Day 40	Definition and Examples – Calculational Techniques,	Lecture	Black Board	T1
Day 41	Calculational Techniques,	Lecture	Black Board	T1
Day 42	Partitions of Integers,	Lecture	Black Board	T1
Day 43	the Exponential Generating Function	Lecture	Black Board	T1
Day 44	the Exponential Generating Function	Lecture	Black Board	T1
Day 45	the Summation Operator	Lecture	Black Board	T1
	UNIT 8: Recurrence Relations			
Day 46	First Order Linear Recurrence Relation	Lecture	Black Board	T1
Day 47	The Second Order Linear Homogeneous	Lecture	Black Board	T1

Day 48	Recurrence Relation with Constant Coefficients.	Lecture	Black Board	T1
Day 49	The Non-homogeneous Recurrence Relation	Lecture	Black Board	T1
Day 50	The Non-homogeneous Recurrence Relation	Lecture	Black Board	T1
Day 51	The Method of Generating Functions	Lecture	Black Board	T1
Day 52	The Method of Generating Functions	Lecture	Black Board	T1

Text Book:

1. Ralph P. Grimaldi: Discrete and Combinatorial Mathematics, 5th Edition, Pearson Education, 2004. (Chapter 11, Chapter 12.1 to 12.4, Chapter 13, Chapter 1, Chapter 8.1 to 8.4, Chapter 9 Chapter 10.1 to 10.4).

Reference Books:

1. D.S. Chandrasekharaiah: Graph Theory and Combinatorics, Prism, 2005.
2. Chartrand Zhang: Introduction to Graph Theory, TMH, 2006.
3. Richard A. Brualdi: Introductory Combinatorics, 4th Edition, Pearson Education, 2004.
4. Geir Agnarsson & Raymond Geenlaw: Graph Theory, Pearson Education, 2007

COURSE OUTCOMES:

After the course the student will have a strong background of graph theory which has diverse applications in the areas of computer science, biology, chemistry, physics, sociology, and engineering

- Give The Student the necessary information to deals with graph and trees.
- Increase the ability to compute $d(a,b)$ in a weight graph and find the shortest path from a to b.
- Understand the ideas of permutations and combinations and how to apply combinatorial ideas to practical problems.
- Gain knowledge on generating function and recurrence relations.

Internal Assessment Marks :(50)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 25 marks.

Three Assessment:

PERIODICAL TESTS:	ASSESMET SCHEME	TOTAL MARKS
Assesment - I	Test-I(unit 1,2 & 3)	50
Assesment - II	Test-II(unit 4,5 & 6 th half)	50
Assesment - III	Test-III(6 th half , 7 & 8)	50

i) Periodical tests:

- Three Cycle test

ii) Carry home exercise

- on graph isomorphism & trees
- prefix codes

External Marks: (100)

Students have to answer 5 questions out of 8 questions choosing at least 2 out of 4 questions from PART - A and at least 2 out of 4 questions from either of the part.



Faculty in Charge



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ACS College of Engineering

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Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2016-2017 (even)
Semester	IV
Subject Code	15CS43
Subject Title	DESIGN AND ANALYSIS OF ALGORITHMS
Faculty In-charge/Desgn./Dept.	Dr. V Mareeswari / Asso. Prof. / CSE

Course Objectives:

- Explain various computational problem solving techniques.
- Apply appropriate method to solve a given problem.
- Describe various methods of algorithm analysis.

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	Module 1 Introduction			
Day 1	What is an Algorithm? Algorithm Specification Analysis Framework	Lecture	Black Board	T2
Day 2	Performance Analysis: Space complexity, Time complexity	Lecture	Black Board	T2
Day 3	Asymptotic Notations: Big-Oh notation (O), Omega notation (Ω), Theta notation (Θ), and Little-oh notation (o)	Lecture	Black Board	T1
Day 4	Mathematical analysis of Non-Recursive and recursive Algorithms with Examples	Lecture	Black Board	T1
Day 5	Important Problem Types	Lecture	Black Board	T1
Day 6	Sorting, Searching, String processing	Lecture	Black Board	T1
Day 7	Graph Problems, Combinatorial Problems	Lecture	Black Board	T1,R1
Day 8	Fundamental Data Structures	Lecture	Black Board	T1
Day 9	Stacks, Queues, Graphs	Lecture	Black Board	T1
Day 10	Trees, Sets and Dictionaries	Lecture	Black Board	T1

	Module -2 DIVIDE AND CONQUER			
Day 11	General Method for Divide and Conquer, Binary search	Lecture	Black Board	T1 ,R1
Day 12	Recurrence equation for divide and conquer, Finding the maximum and minimum	Lecture	Black Board	T2
Day 13	Merge sort	Lecture	Black Board	T1
Day 14	Quick sort	Lecture	Black Board	T1,R1
Day 15	Strassen's matrix multiplication	Lecture	Black Board	T2
Day 16	Advantages and Disadvantages of divide and conquer.	Lecture	Black Board	T1
Day 17	Decrease and Conquer Approach	Lecture	Black Board	T1
Day 18	Decrease and Conquer Approach	Lecture	Black Board	T1
Day 19	Topological Sort	Lecture	Black Board	T1
Day 20	Topological Sort	Lecture	Black Board	T1
	Module -3 THE GREEDY METHOD			
Day 21	General Method for greedy method with example	Discussion	Black Board	T2
Day 22	Coin Change Problem	Lecture	Black Board	T2
Day 23	Knapsack Problem	PPT	Black Board	T2
Day 24	Job Sequencing with Deadlines	PPT	Black Board	T2
Day 25	Minimum-Cost Spanning Trees	PPT	Black Board	T1
Day 26	Prim's Algorithm	PPT	Black Board	T1
Day 27	Kruskal's Algorithm	Discussion	Black Board	T1
Day 28	Single Source Shortest Paths	Lecture	Black Board	T1
Day 29	Optimal Tree problem: Huffman Trees and Codes	Lecture	Black Board	T1
Day 30	Transform and Conquer Approach: Heaps and Heap Sort	Lecture	Black Board	T1
	Module -4 DYNAMIC PROGRAMMING:			
Day 31	General Method for dynamic programming with example	Discussion	Black Board	T2
Day 32	Multistage Graphs	Lecture	Black Board	T2
Day 33	Transitive Closure	PPT	Black Board	T1,R1

Day 34	Warshall's Algorithm	PPT	Black Board	T1
Day 35	All Pairs Shortest Paths:	PPT	Black Board	T1
Day 36	Floyd's Algorithm, Optimal Binary Search Trees	Discussion	Black Board	T1, T2
Day 37	Knapsack problem	Lecture	Black Board	T1
Day 38	Bellman-Ford Algorithm	Lecture	Black Board	T2
Day 39	Travelling Sales Person problem	Lecture	Black Board	T2
Day 40	Reliability design	Lecture	Black Board	T2
	Module -5 Backtracking			
Day 41	General method, N-Queens problem	Discussion	Black Board	T2, T1
Day 42	Sum of subsets problem	Lecture	Black Board	T1
Day 43	Graph coloring	Lecture	Black Board	T2
Day 44	Hamiltonian cycles	Lecture	Black Board	T2
Day 45	Branch and Bound: Assignment Problem, Travelling Sales Person problem	Lecture	Black Board	T1
Day 46	0/1 Knapsack problem, LC Branch and Bound solution	Discussion	Black Board	T1
Day 47	FIFO Branch and Bound solution	Discussion	Black Board	T2
Day 48	NP-Complete and NP-Hard problems: Basic concepts, non-deterministic algorithms	Lecture	Black Board	T2
Day 49	P, NP, NP-Complete	Lecture	Black Board	T1, R1
Day 50	NP-Complete, and NP-Hard classes	Lecture	Black Board	T1

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Book	Introduction to The Design & Analysis of Algorithms	Anany Levitin	2nd Edition, Pearson Education, 2007
2		. Computer Algorithms/C++	Ellis Horowitz, Sartaj Sahni, Sanguthevar Rajasekaran	2nd Edition, Universities Press, 2014
1	Reference Books	Introduction to Algorithms	Thomas H. Cormen, Charles E. Leiserson, Ronal L. Rivest, Clifford Stein	3rd Edition, PHI, 2010

2		Design and Analysis of Algorithms	S.Sridhar	Oxford (Higher Education)
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CO Outcomes: After studying this course, students will be able to

- Describe computational solution to well known problems like searching, sorting etc.
- Estimate the computational complexity of different algorithms.
- Devise an algorithm using appropriate design strategies for problem solving.

Internal Assessment Marks :(30)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 15 marks.

Three Assessment:

PERIODICAL TESTS:	ASSESSMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(M-1 & M 2 FIRST HALF)	30
Assesment - II	Test-II(M-2 SECOND HALF & 3)	30
Assesment - III	Test-III(M-4 & M-5)	30

Periodical tests:

- Three Cycle test

External Marks: (100)

Students have to answer 5 questions out of 10 questions choosing EITHER- OR choice.

Program Outcomes mapping with Course

CO-PO Mapping												
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12
CO-1	1		2		2					3		
CO-2		2	2	3	3		2		2	3		3
CO-3	1		2				2			3		2

V. K. S.
Faculty in Charge

J. S. S.
HOD
HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074.

ACS COLLEGE OF ENGINEERING

Mysore Road Bangalore - 560074

Department of Computer Science and Engineering

LESSON PLAN

Academic Year	2016- 2017
Semester	VI
Subject Code	10CS64
Subject Title	Computer Networks -2
Faculty In-charge/Desgn./Dept.	Dr T.Senthil Kumaran

Course Learning Objectives:

- Build an understanding of the fundamental concepts of computer networking.
- Familiarize the student with the basic taxonomy and terminology of the computer networking area.
- Introduce the student to advanced networking concepts, preparing the student for entry Advanced courses in computer networking.
- Allow the student to gain expertise in some specific areas of networking such as the design and maintenance of individual networks.

Course pre-requisites:

- OSI model

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	UNIT -1 Packet Switching Networks - 1			
Day 1	Network services and internal network operation	Lecture	Black Board	T1
Day 2	Packet network topology	Lecture	Black Board	T1
Day 3	Routing in Packet networks	Lecture	Black Board	T1
Day 4	Routing in Packet networks	Lecture	Black Board	T1
Day 5	Shortest path routing: Bellman-Ford algorithm.	Lecture	Black Board	T1,R1
Day 6	Bellman-Ford algorithm.	Lecture	Black Board	T1
	UNIT-2 Packet Switching Networks - 2			
Day 7	Shortest path routing	Lecture	Black Board	T1
Day 8	Traffic management at the Packet level	Lecture	Black Board	T1
Day 9	Traffic management at the Packet level	Lecture	Black Board	T1
Day 10	Traffic management at Flow level	Lecture	Black Board	T1
Day 11	Traffic management at Flow level	Lecture	Black Board	T1,R2
Day 12	Traffic management at flow aggregate level	Lecture	Black Board	T1
	UNIT -3 : TCP/IP-1			

Day 13	TCP/IP architecture	Lecture	Black Board	T1
Day 14	TCP/IP architecture	Lecture	Black Board	T1
Day 15	The Internet Protocol	Lecture	Black Board	T1,R1
Day 16	The Internet Protocol	Lecture	Black Board	T1
Day 17	IPv6	Lecture	Black Board	T1
Day 18	UDP	Lecture	Black Board	T1
	UNIT-4 TCP/IP-2	Lecture	Black Board	T1
Day 19	TCP			
Day 20	Internet Routing Protocols	Lecture	Black Board	T1
Day 21	Multicast Routing			
Day 22	Multicast Routing	Lecture	Black Board	T1
Day 23	DHCP	Lecture	Black Board	T1
Day 24	DHCP	Lecture	Black Board	T1
Day 25	NAT	Lecture	Black Board	T1
Day 26	Mobile IP	Lecture	Black Board	T1
	UNIT-5 Applications, Network Management, Network Security			
Day 27	Application layer overview, Domain Name System (DNS),	Lecture	Black Board	T2 ,R1
Day 28	Remote Login Protocols, E-mail, File Transfer and FTP,	Lecture	Black Board	T2,R1
Day 29	World Wide Web and HTTP,	Lecture	Black Board	T2
Day 30	Network management, Overview of network security,	Lecture	Black Board	T2,R1
Day 31	Overview of security methods, Secret-key encryption protocols,	Lecture	Black Board	T2
Day 32	Public-key encryption protocols, Authentication,	Lecture	Black Board	T2
Day 33	Authentication and digital signature, Firewalls	Lecture	Black Board	T2,R1
	UNIT-6 QoS, VPNs, Tunneling, Overlay Networks			
Day 34	Overview of QoS	Lecture	Black Board	T2 ,R1
Day 35	Integrated Services QoS, Differentiated services QoS,	Lecture	Black Board	T2,R1
Day 36	Virtual Private Networks,	Lecture	Black Board	T2
Day 37	Virtual Private Networks,	Lecture	Black Board	T2,R1
Day 38	MPLS	Lecture	Black Board	T2
Day 39	Overlay networks.	Lecture	Black Board	T2
	UNIT-7 Multimedia Networking:			
Day 40	Overview of data compression,	Lecture	Black Board	T2 ,R2
Day 41	Digital voice and compression, JPEG, MPEG,	Lecture	Black Board	T2,R1
Day 42	Limits of compression with loss,	Lecture	Black Board	T2

Day 43	Compression methods without loss, Overview of IP Telephony,	Lecture	Black Board	T2,R1
Day 44	VoIP signaling protocols	Lecture	Black Board	T2
Day 45	Real-Time Media Transport Protocols,	Lecture	Black Board	T2
Day 46	Stream control Transmission Protocol (SCTP)	Lecture	Black Board	T2
UNIT-8 Mobile AdHoc Networks and Wireless Sensor Networks:				
Day 47	Overview of Wireless Ad-Hoc networks, Routing in AdHoc Networks,	Lecture	Black Board	T2,R2
Day 48	Routing protocols for and Security of AdHoc networks,	Lecture	Black Board	T2
Day 49	Sensor Networks and protocol structures,	Lecture	Black Board	T2,R1
Day 50	Communication Energy model,	Lecture	Black Board	T2
Day 51	Clustering protocols, Routing protocols,	Lecture	Black Board	T2
Day 52	ZigBee technology and 802.15.4.	Lecture	Black Board	T2,R1

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Books	Communication Networks– Fundamental Concepts & key architectures	Alberto Leon Garcia & Indra Widjaja	2nd Edition, Tata McGraw-Hill, India
2		Computer & Communication Networks	Nadir F Mir	Pearson Education, India
1	Reference Books	Data Communications and Networking	Behrouz A. Forouzan	4th Edition, Tata McGraw-Hill, 2006
2		Data and Computer Communication	William Stallings	8th Edition, Pearson Education, 2007
		Computer Networks – A Systems Approach	Larry L. Peterson and Bruce S. Davie	4th Edition, Elsevier, 2007.
		Introduction to Data Communications and Networking	Wayne Tomasi	Pearson Education, 2005

Course Outcome:

- Master the binary and hexadecimal number systems including computer arithmetic and logical computation.
-

Familiar with the functional units of the processor such as the register file and arithmetic-logical unit, representation of data, addressing modes, instructions sets, cache subsystem

-

Understand the basics of systems topics: single-cycle (MIPS), multi-cycle (MIPS), parallel, pipelined, superscalar, and RISC/CISC architectures.

- Familiar with the quantitative performance evaluation of computer systems

Internal Assessment Marks :(50)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 25 marks.

Three Assessment:

PERIODICAL TESTS:	ASSESSMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(unit 1,2 & 3 Half)	50
Assesment - II	Test-II(unit 4,5 & 6 th half)	50
Assesment - III	Test-III(6 th half , 7 & 8)	50

i) Periodical tests:

- Three Cycle test

External Marks: (100)

Students have to answer 5 questions out of 8 questions choosing at least 2 out of 4 questions from PART – A and at least 2 out of 4 questions from PART – B and 1 question from either of the part.

Program Outcomes mapping with Course

Subject Name	Program Outcomes											
	a	b	c	d	e	f	g	h	i	j	k	l
Computer Networks -2	3	3	3								2	1


Note: 3 = Substantial (High) 2 = Moderate (Medium) 1= Slight (low)

Program Educational Objectives mapping with Course

Subject Name	Program Educational Objectives		
	PEO1	PEO2	PEO3
Computer Networks -2	3	2	2

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1= Slight (low)


Faculty in Charge


HOD

HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074.



LESSON PLAN

Academic Year	2016-2017
Semester	III
Subject Code	15CS32
Subject Title	Analog and Digital Electronics
Faculty In-charge/Desgn./Dept.	Panchaxari Mamadapur / Asst Prof/ CSE

Course Learning Objectives:

- Recall and Recognize construction and characteristics of JFETs and MOSFETs.
- Describe, Differentiate and Apply JFETs and MOSFETs
- Define, Demonstrate and Analyse Operational Amplifier circuits and their applications
- Describe, Illustrate and Analyse Combinational Logic circuits, Simplification of Algebraic Equations using Karnaugh Maps and Quine McClusky Techniques.
- Define, Describe and Design Decoders, Encoders, Digital multiplexers, Adders and Subtractors, Binary comparators, Latches and Master-Slave Flip-Flops.
- Describe, Demonstrate, Analyse and Design Synchronous and Asynchronous Sequential Circuits, State diagrams, Registers and Counters, A/D and D/A converters.

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	Module -1			
Day 1	Junction Field Effect Transistors	Lecture	Black Board	T1
		Lecture	Black Board	T1
Day 2	MOSFETs, Differences between JFETs and MOSFETs	Lecture	Black Board	T1
Day 3	Biasing MOSFETs, FET Applications,	Lecture	Black Board	T1
Day 4	CMOS Devices	Lecture	Black Board	T1
Day 5	Wave-Shaping Circuits: Integrated Circuit(IC) Multivibrators.	Lecture	Black Board	T1
Day 6	Introduction to Operational Amplifier: Ideal v/s practical Opamp, Performance Parameters,	Lecture	Black Board	T1
		Lecture	Black Board	T1
Day 7	Operational Amplifier Application Circuits:Peak Detector Circuit, Comparator	Lecture	Black Board	T1
Day 8	Active Filters, Non-Linear Amplifier,	Lecture	Black Board	T1
		Lecture	Black Board	T1

Day 11	Relaxation Oscillator	Lecture	Black Board	T1
Day 12	Current-To-Voltage Converter, Voltage-To-Current Converter	Lecture	Black Board	T1
Module -2				
Day 11	The Basic Gates: Review of Basic Logic gates, Positive and Negative Logic.	Lecture	Black Board	T1
Day 12	Introduction to HDL	Lecture	Black Board	T1
Day 13	Combinational Logic Circuits: Sum-of-Products Method,	Lecture	Black Board	T1
Day 14	Truth Table to Karnaugh Map, Pairs Quads, and Octets, Karnaugh Simplifications	Lecture	Black Board	T1
Day 15	Don't-care Conditions,	Lecture	Black Board	T1
Day 16	Product-of-sums Method,	Lecture	Black Board	T1
Day 17	Product-of-sums simplifications,	Lecture	Black Board	T1
Day 18	Simplification by Quine-McClusky Method	Lecture	Black Board	T1
Day 19	Hazards and Hazard covers	Lecture	Black Board	T1
Day 20	HDL Implementation Models.	Lecture	Black Board	T1
Module -3				
Day 21	Data-Processing Circuits: Multiplexers, Demultiplexers,	Lecture	Black Board	T1
Day 22	1-of-16 Decoder, BCD to Decimal Decoders	Lecture	Black Board	T1,R1
Day 23	Seven Segment Decoders, Encoders	Lecture	Black Board	T1,R1
Day 24	Exclusive-OR Gates, Parity Generators and Checkers	Lecture	Black Board	T1
Day 25	Magnitude Comparator, Programmable Array Logic,	Lecture	Black Board	T1
Day 26	Programmable Logic Arrays, HDL Implementation of Data Processing Circuits	Lecture	Black Board	T1,R1
Day 27	Arithmetic Building Blocks,	Lecture	Black Board	T1
Day 28	Arithmetic Logic Unit	Lecture	Black Board	T1
Day 29	FlipFlops: RS Flip-Flops, Gated Flip-Flops	Lecture	Black Board	T1
Day 30	Edge-triggered RS FLIP-FLOP, Edgetriggered D FLIP-FLOPs, Edge-triggered JK FLIP-FLOPs.	Lecture	Black Board	T1,R1
Module 4				
Day 31	Flip- Flops: FLIP-FLOP Timing,	Lecture	Black Board	T1 ,R1
Day 32	JK Master-slave FLIP-FLOP	Lecture	Black Board	T1,R1

Day 33	Switch Contact Bounce Circuits	Lecture	Black Board	T1
Day 34	Various Representation of FLIP-FLOPs	Lecture	Black Board	T1
Day 35	HDL Implementation of FLIP-FLOP.			
Day 36	Registers: Types of Registers, Serial In - Serial Out, Serial In - Parallel out, Parallel In - Serial Out, Parallel In - Parallel Out	Lecture	Black Board	T1,R1
Day 37	Universal Shift Register, Applications of Shift Registers	Lecture	Black Board	T1
Day 38	Register implementation in HDL.	Lecture	Black Board	T1
Day 39	Counters: Asynchronous Counters	Lecture	Black Board	T1
Day 40	Decoding Gates, Synchronous Counters, Changing the Counter Modulus.	Lecture	Black Board	T1
	Module 5	Lecture	Black Board	T1
Day 41	Counters: Decade Counters, Pre settable Counters,	Lecture	Black Board	T1,R1
Day 42	Counter Design as a Synthesis problem	Lecture	Black Board	T1
Day 43	A Digital Clock, Counter Design using HDL	Lecture	Black Board	T1,R1
Day 44	D/A Conversion and A/D Conversion Variable, Resistor Networks,	Lecture	Black Board	T1
Day 45	Binary Ladders, D/A Converters,	Lecture	Black Board	T1
Day 46	D/A Accuracy and Resolution,	Lecture	Black Board	T1
Day 47	A/D Converter Simultaneous Conversion	Lecture	Black Board	T1
Day 48	A/D Converter-Counter Method,	Lecture	Black Board	T1,R1
Day 49	Continuous A/D Conversion, A/D Techniques,	Lecture	Black Board	T1
Day 50	Dual-slope A/D Conversion, A/D Accuracy and Resolution	Lecture	Black Board	T1,R1

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Books	Electronic Devices and Circuits,	Anil K Maini, Varsha Agarwal	Wiley, 2012
		Digital Principles and Applications,	Donald P Leach, Albert Paul Malvino & Goutam Saha	7th Edition, Tata McGraw Hill, 2014
1	Reference Books	Fundamentals of Digital Logic Design with VHDL	Stephen Brown, Zvonko Vranesic	2nd Edition, Tata McGraw Hill, 2005
		Illustrative Approach to Logic Design	R D Sudhaker Samuel	Sanguine-Pearson, 2010.

Course outcomes:

After studying this course, students will be able to:

- Acquire knowledge of - JFETs and MOSFETs, Operational Amplifier circuits and their applications - Combinational Logic, Simplification Techniques using Karnaugh Maps, Quine McClusky Technique - Operation of Decoders, Encoders, Multiplexers, Adders and Subtractors, - Working of Latches, Flip-Flops, Designing Registers, Counters, A/D and D/A Converters
- Analyse the performance of - JFETs and MOSFETs, Operational Amplifier circuits - Simplification Techniques using Karnaugh Maps, Quine McClusky Technique - Synchronous and Asynchronous Sequential Circuits.
- Apply the knowledge gained in the design of Counters, Registers and A/D & D/A converters

Internal Assessment Marks :(50)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 25 marks.

Three Assessment:

PERIODICAL TESTS:	ASSESSMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(unit 1,2 & 3)	50
Assesment - II	Test-II(unit 4,5 & 6 th half)	50
Assesment - III	Test-III(6 th half , 7 & 8)	50

i) Periodical tests:

- Three Cycle test

External Marks: (100)

Students have to answer 5 questions out of 8 questions choosing at least 2 out of 4 questions from PART - A and at least 2 out of 4 questions from PART - B and 1 question from either of the part.

Program Outcomes mapping with Course

Subject Name	Program Outcomes											
	a	b	c	d	e	f	g	h	i	j	k	l
Analog and Digital Electronics												

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1 = Slight (low)

Program Educational Objectives mapping with Course

Subject Name	Program Educational Objectives		
	PEO1	PEO2	PEO3

Analog and Digital
Electronics

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1 = Slight (low)

Faculty in Charge

Prad
HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074.



ACS College of Engineering

Kambipura, Mysore Road, Bangalore-74

Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2016-2017
Semester	V
Subject Code	10CS55
Subject Title	COMPUTER NETWORKS-1
Faculty In-charge/Desgn./Dept.	Mrs.Kavita K. Patil /Asst.Prof/CSE

Course Learning Objectives:

- Understand the basics of computer communication, and the ways in which the various methods of accomplishing this are implemented.
- Become familiar with widely-used Internet protocols such as HTTP, TCP/IP, UDP, etc.
- Identify the specific features of various types of computer networks, and explain how their characteristics suit them for use in different situations.
- Examine and explain advanced research projects and present advanced concepts in networking.
- Obtain hands-on experience using network sockets.
- Implement a basic networking system such as a generic client-server model.

Course pre-requisites:

Programming, Analysis and Design of Algorithms

Schedule of teaching and learning

Days	Topic	Mode of delivery	Teaching Aids	Reference/Source
Day 1	UNIT-1: Introduction: Data Communications	Lecture	Black Board	T1
Day 2	Networks	Lecture	Black Board	T1
Day 3	The Internet, Protocols & Standards	Demonstration	Real World Software development	T1

			t Project	
Day 4	Layered Tasks	Demonstration	Real World Software development Project	T1
Day 5	The OSI model, Layers in OSI model	Demonstration	Real World Software development Project	T1
Day 6	TCP/IP Protocol suite	Lecture	Black Board	T1
Day 7	Addressing	Lecture	Black Board	T1
Day 8	UNIT II: L Physical Layer-1: Analog & Digital Signals	Lecture	Black Board	T1
Day 9	Transmission Impairment	Lecture	Black Board	T1
Day 10	Data Rate limits, Performance	Lecture	Black Board	T1
Day 11	Digital-digital conversion (Only Line coding: Polar, Bipolar and Manchester coding)	Discussion	Seminar	T1
Day 12	Analog-to-digital conversion	Lecture	Black Board	T1
Day 13	Transmission Modes	Lecture	Black Board	T1
Day 14	Digital-to-analog conversion	Discussion	PPT	T1
Day 15	UNIT III: Physical Layer-2 and Switching: Multiplexing	Lecture	PPT	T1
Day 16	Spread Spectrum	Lecture	Black Board	T1
Day 17	Introduction to switching	Lecture	Black Board	T1
Day 18	Circuit Switched Networks	Lecture	Black Board	T1
Day 19	Datagram Networks	Lecture	Black Board	T1
Day 20	Virtual Circuit Networks.	Lecture	Black Board	T1
Day 21	UNIT IV: Data Link Layer-	Lecture	Black Board	T1

	1: Error Detection & Correction: Introduction			
Day 22	Block coding	Lecture	Black Board	T1
Day 23	Block coding contd...	Lecture	Black Board	T1
Day 24	Linear block codes	Discussion	Team Work	T1
Day 25	Cyclic codes	Lecture	Black Board	T1
Day 26	Checksum	Lecture	PPT	T1
Day 27	UNIT V: Data Link Layer-2: Framing	Lecture	PPT	T1
Day 28	Flow and Error Control	Lecture	Black Board	T1
Day 29	Protocols	Lecture	Black Board	T1
Day 30	Noiseless Channels	Lecture	Black Board	T1
Day 31	Noisy channels	Lecture	Black Board	T1
Day 32	HDLC, PPP (Framing, Transition phases only)	Lecture	Black Board	T1
Day 33	UNIT VI: Multiple Access & Ethernet: Random access	Lecture	Black Board	T1
Day 34	Controlled Access	Lecture	Black Board	T1
Day 35	Channelization	Lecture	Black Board	T1
Day 36	Ethernet: IEEE standards, Standard Ethernet	Lecture	Black Board	T1
Day 37	Changes in the standard	Lecture	Black Board	T1
Day 38	Fast Ethernet	Lecture	Black Board	T1
Day 39	Gigabit Ethernet	Lecture	Black Board	T1
Day 40	UNIT VII: Wireless LANs and Cellular Networks: Introduction	Lecture	Black Board	T1
Day 41	IEEE 802.11	Lecture	Black Board + PPT	T1
Day 42	Bluetooth	Lecture	Black Board	T1

Day 43	Connecting devices	Lecture	Black Board	T1
Day 44	Connecting devices contd...	Lecture	Black Board	T1
Day 45	Cellular Telephony	Lecture	Black Board	T1
Day 46	Taxonomy of CASE tools.	Lecture	Black Board	T1
Day 47	Network Layer: Introduction	Lecture	Black Board	T1
Day 48	Logical addressing	Lecture	Black Board	T1
Day 49	IPv4 addresses, IPv6 addresses	Lecture	Black Board	T1
Day 50	Internetworking basics	Lecture	Black Board	
Day 51	IPv4, IPv6	Lecture	Black Board	
Day 52	Comparison of IPv4 and IPv6 Headers	Lecture	Black Board	

Course material and References

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Book	Data Communication and Networking	Behrouz A. Forouzan	4th Edition Tata McGraw-Hill, 2006.
1	Reference Books	Communication Networks - Fundamental Concepts and Key architectures	Alberto Leon-Garcia and Indra Widjaja	McGraw-Hill
2		Data and Computer Communication	William Stallings	8th Edition, Pearson Education, 2007.
3		Computer Networks - A Systems Approach	Larry L. Peterson and Bruce S. Davie	4th Edition, Elsevier, 2007.
4		Computer and Communication Networks	Nader F. Mir	Pearson Education, 2007.

Course Outcome

After completion of this course, the student will be able to:

- Define data communication, protocols and networks such as LAN, WAN, and MAN. Explain the layered architecture like OSI & TCP/IP
- Demonstrates the conversion of analog to digital and vice versa. Utilization of bandwidth(multiplexing & Spreading) and various switching networks.(Circuit-Switched network, Datagram Network, Virtual-circuit Network)
- Apply error detection and correction methods. Describe framing, flow and error control. Explain the different data link protocols like HDLC,PPP
- Explain Random access and controlled access protocols. Describe wireless technologies like Bluetooth, IEEE 802.11. Interpret technologies like SONET/SDH, ATM

Internal Assessment Marks :(50)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 25 marks.

Three Assessment:

PERIODICAL TESTS:	ASSEMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(unit 1,2 & 3)	50
Assesment - II	Test-II(unit 4,5 & 6 th half)	50
Assesment - III	Test-III(6 th half , 7 & 8)	50

i) Periodical tests:

- Three Cycle test

ii) Carry home exercise

- Given some questions as assignment.

External Marks: (100)



ACS College of Engineering

Kambipura, Mysore Road, Bangalore-74

Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2017- 2018
Semester	IV
Subject Code	15CS43
Subject Title	DESIGN AND ANALYSIS OF ALGORITHMS
Faculty In-charge/Desgn./Dept.	Prasad A Y/ Asst. Prof. / CSE

Course Objectives:

- Explain various computational problem solving techniques.
- Apply appropriate method to solve a given problem.
- Describe various methods of algorithm analysis.

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	Module 1 Introduction			
Day 1	What is an Algorithm? Algorithm Specification Analysis Framework	Lecture	Black Board	T2
Day 2	Performance Analysis: Space complexity, Time complexity	Lecture	Black Board	T2
Day 3	Asymptotic Notations: Big-Oh notation (O), Omega notation (Ω), Theta notation (Θ), and Little-oh notation (o)	Lecture	Black Board	T1
Day 4	Mathematical analysis of Non-Recursive and recursive Algorithms with Examples	Lecture	Black Board	T1
Day 5	Important Problem Types	Lecture	Black Board	T1
Day 6	Sorting, Searching, String processing	Lecture	Black Board	T1
Day 7	Graph Problems, Combinatorial Problems	Lecture	Black Board	T1,R1
Day 8	Fundamental Data Structures	Lecture	Black Board	T1

Day 9	Stacks, Queues, Graphs	Lecture	Black Board	T1
Day 10	Trees, Sets and Dictionaries	Lecture	Black Board	T1
	Module -2 DIVIDE AND CONQUER			
Day 11	General Method for Divide and Conquer, Binary search	Lecture	Black Board	T1, R1
Day 12	Recurrence equation for divide and conquer, Finding the maximum and minimum	Lecture	Black Board	T2
Day 13	Merge sort	Lecture	Black Board	T1
Day 14	Quick sort	Lecture	Black Board	T1, R1
Day 15	Strassen's matrix multiplication	Lecture	Black Board	T2
Day 16	Advantages and Disadvantages of divide and conquer.	Lecture	Black Board	T1
Day 17	Decrease and Conquer Approach	Lecture	Black Board	T1
Day 18	Decrease and Conquer Approach	Lecture	Black Board	T1
Day 19	Topological Sort	Lecture	Black Board	T1
Day 20	Topological Sort	Lecture	Black Board	T1
	Module -3 THE GREEDY METHOD			
Day 21	General Method for greedy method with example	Discussion	Black Board	T2
Day 22	Coin Change Problem	Lecture	Black Board	T2
Day 23	Knapsack Problem	PPT	Black Board	T2
Day 24	Job Sequencing with Deadlines	PPT	Black Board	T2
Day 25	Minimum-Cost Spanning Trees	PPT	Black Board	T1
Day 26	Prim's Algorithm	PPT	Black Board	T1
Day 27	Kruskal's Algorithm	Discussion	Black Board	T1
Day 28	Single Source Shortest Paths	Lecture	Black Board	T1
Day 29	Optimal Tree problem: Huffman Trees and Codes	Lecture	Black Board	T1
Day 30	Transform and Conquer Approach: Heaps and Heap Sort	Lecture	Black Board	T1

	Module -4 DYNAMIC PROGRAMMING:			
Day 31	General Method for dynamic programming with example	Discussion	Black Board	T2
Day 32	Multistage Graphs	Lecture	Black Board	T2
Day 33	Transitive Closure	PPT	Black Board	T1,R1
Day 34	Warshall's Algorithm	PPT	Black Board	T1
Day 35	All Pairs Shortest Paths:	PPT	Black Board	T1
Day 36	Floyd's Algorithm, Optimal Binary Search Trees	Discussion	Black Board	T1,T2
Day 37	Knapsack problem	Lecture	Black Board	T1
Day 38	Bellman-Ford Algorithm	Lecture	Black Board	T2
Day 39	Travelling Sales Person problem	Lecture	Black Board	T2
Day 40	Reliability design	Lecture	Black Board	T2
	Module -5 Backtracking			
Day 41	General method, N-Queens problem	Discussion	Black Board	T2, T1
Day 42	Sum of subsets problem	Lecture	Black Board	T1
Day 43	Graph coloring	Lecture	Black Board	T2
Day 44	Hamiltonian cycles	Lecture	Black Board	T2
Day 45	Branch and Bound: Assignment Problem, Travelling Sales Person problem	Lecture	Black Board	T1
Day 46	0/1 Knapsack problem, LC Branch and Bound solution	Discussion	Black Board	T1
Day 47	FIFO Branch and Bound solution	Discussion	Black Board	T2
Day 48	NP-Complete and NP-Hard problems: Basic concepts, non-deterministic algorithms	Lecture	Black Board	T2
Day 49	P, NP, NP-Complete	Lecture	Black Board	T1,R1
Day 50	NP-Complete, and NP-Hard classes	Lecture	Black Board	T1

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Book	Introduction to The Design & Analysis of Algorithms	Anany Levitin	2nd Edition, Pearson Education, 2007
2		. Computer Algorithms/C++	Ellis Horowitz, Sartaj Sahni, Sanguthevar Rajasekaran	2nd Edition, Universities Press, 2014
1	Reference Books	Introduction to Algorithms	Thomas H. Cormen, Charles E. Leiserson, Ronal L. Rivest, Clifford Stein	3rd Edition, PHI, 2010
2		Design and Analysis of Algorithms	S.Sridhar	Oxford (Higher Education)

CO Outcomes: After studying this course, students will be able to

- Describe computational solution to well known problems like searching, sorting etc.
- Estimate the computational complexity of different algorithms.
- Devise an algorithm using appropriate design strategies for problem solving.

Internal Assessment Marks :(30)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 15 marks.

Three Assessment:

PERIODICAL TESTS:	ASSESMET SCHEME	TOTAL MARKS
Assesment - I	Test-I(M-1 & M 2 FIRST HALF)	30
Assesment - II	Test-II(M-2 SECOND HALF & 3)	30
Assesment - III	Test-III(M-4 & M-5)	30

Periodical tests:

- Three Cycle test

External Marks: (100)

Students have to answer 5 questions out of 10 questions choosing EITHER- OR choice.

Program Outcomes mapping with Course

Subject Name	Program Outcomes											
	a	b	c	d	e	f	g	h	i	j	k	l
Design and Analysis of Algorithms	3	3	3	3	2				2			

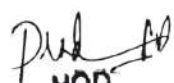
Note: 3 = Substantial (High) 2 = Moderate (Medium) 1 = Slight (low)

Program Educational Objectives mapping with Course

Subject Name	Program Educational Objectives		
	PEO1	PEO2	PEO3
Design and Analysis of Algorithms	3	2	1

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1 = Slight (low)


Faculty in Charge


HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074.



ACS College of Engineering
Mysore road, Bangalore -74
Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2017- 2018
Semester	VI
Subject Code	15CS64
Subject Title	OPERATING SYSTEMS
Faculty In-charge/Desgn./Dept.	Dr. B.S. Pradeep / Professor & HOD/ CSE

Course Learning Objectives: This course will enable students to

- Introduce concepts and terminology used in OS
- Explain threading and multithreaded systems
- Illustrate process synchronization and concept of Deadlock
- Introduce Memory and Virtual memory management, File system and storage techniques

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/ Source
Module - 1 Introduction to operating systems, System structures				
Day 1	What operating systems do, Computer System organization, Computer System architecture,	Lecture	Black Board/ppt	T1
Day 2	Operating System structure, Operating System operations,	Lecture	Black Board/ppt	T1
Day 3	Process management, Memory management, Storage management,	Lecture	Black Board/ppt	T1
Day 4	Protection and Security, Distributed system,	Lecture	Black Board/ppt	T1
Day 5	Special-purpose systems, Computing environments. Operating System Services,	Lecture	Black Board/ppt	T1
Day 6	User - Operating System interface, System calls, Types of system calls,	Lecture	Black Board/ppt	T1
Day 7	System programs, Operating system design and implementation,	Lecture	Black Board/ppt	T1
Day 8	Operating System structure, Virtual machines, Operating System generation, System boot.	Lecture	Black Board/ppt	T1
Day 9	Process Management Process concept, Process scheduling,	Lecture	Black Board/ppt	T1
Day 10	Operations on processes, Inter process communication,	Lecture	Black Board/ppt	T1
Module -2 Multi-threaded Programming				
Day 11	Overview; Multithreading models,	Lecture	Black Board/ppt	T1
Day 12	Thread Libraries, Threading issues,	Lecture	Black Board/ppt	T1

Day 13	Process Scheduling: Basic concepts, Scheduling Criteria,	Lecture	Black Board/ppt	T1
Day 14	Scheduling Algorithms, Multiple-processor scheduling,	Lecture	Black Board/ppt	T1
Day 15	Thread scheduling.	Lecture	Black Board/ppt	T1
Day 16	Process Synchronization: Synchronization: The critical section problem,	Lecture	Black Board/ppt	T1
Day 17	Peterson's solution,	Lecture	Black Board/ppt	T1
Day 18	Synchronization hardware,	Lecture	Black Board/ppt	T1
Day 19	Semaphores,	Lecture	Black Board/ppt	T1
Day 20	Classical problems of synchronization, Monitors.	Lecture	Black Board/ppt	T1
Module -3 Deadlocks				
Day 21	Deadlocks; System model,	Lecture	Black Board/ppt	T1
Day 22	Deadlock characterization,	Lecture	Black Board/ppt	T1,R1
Day 23	Methods for handling deadlocks,	Lecture	Black Board/ppt	T1,R1
Day 24	Deadlock prevention, Deadlock avoidance,	Lecture	Black Board/ppt	T1
Day 25	Deadlock detection and recovery from deadlock.	Lecture	Black Board/ppt	T1
Day 26	Memory Management: Memory management strategies,	Lecture	Black Board/ppt	T1,R1
Day 27	Background, Swapping,	Lecture	Black Board/ppt	T1
Day 28	Contiguous memory allocation,	Lecture	Black Board/ppt	T1
Day 29	Paging, Structure of page table,	Lecture	Black Board/ppt	T1
Day 30	Segmentation.	Lecture	Black Board/ppt	T1,R1
Module - 4 Virtual Memory Management				
Day 31	Background, Demand paging,	Lecture	Black Board/ppt	T1 ,R1
Day 32	Copy-on-write, Page replacement,	Lecture	Black Board/ppt	T1,R1
Day 33	Allocation of frames, Thrashing.	Lecture	Black Board/ppt	T1
Day 34	File System, Implementation of File System: File system, File concept,	Lecture	Black Board/ppt	T1
Day 35	Access methods, Directory structure,	Lecture	Black Board/ppt	
Day 36	File system mounting, File sharing, Protection,	Lecture	Black Board/ppt	T1,R1
Day 37	Implementing File system, File system structure,	Lecture	Black Board/ppt	T1
Day 38	File system implementation,	Lecture	Black Board/ppt	T1
Day 39	Directory implementation,	Lecture	Black Board/ppt	T1
Day 40	Allocation methods, Free space management.	Lecture	Black Board/ppt	T1
Module - 5 Secondary Storage Structures, Protection				
Day41	Mass storage structures, Disk structure,	Lecture	Black Board/ppt	T1,R1
Day 42	Disk attachment, Disk scheduling, Disk management,	Lecture	Black Board/ppt	T1
Day 43	Swap space management. Protection: Goals of protection,	Lecture	Black Board/ppt	T1,R1

Day 44	Principles of protection, Domain of protection,	Lecture	Black Board/ppt	T1
Day 45	Access matrix, Implementation of access matrix,	Lecture	Black Board/ppt	T1
Day 46	Access control, Revocation of access rights, Capability- Based systems.	Lecture	Black Board/ppt	T1
Day 47	Case Study: The Linux Operating System: Linux history; Design principles; Kernel modules	Lecture	Black Board/ppt	T1
Day 48	Process management, Scheduling,	Lecture	Black Board/ppt	T1,R1
Day 49	Memory Management, File systems,	Lecture	Black Board/ppt	T1
Day 50	Input and output, Inter-process communication.	Lecture	Black Board/ppt	T1,R1

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Books	Operating System Principles	Abraham Silberschatz, Peter Baer Galvin, Greg Gagne	7 th edition, Wiley-India, 2006
1	Reference Books	Understanding Operating System	Ann McHoes Ida M Fylnn	Cengage Learning, 6 th Edition
2		Operating Systems: A Concept Based Approach	D.M Dhamdhare	3rd Ed, McGrawHill, 2013
3		An Introduction to Operating Systems: Concepts and Practice	P.C.P. Bhatt	4th Edition, PHI(EEE), 2014
4		Operating Systems: Internals and Design Principles	William Stallings	6th Edition, Pearson

Course Outcome:

After studying this course, students will be able to:

- Demonstrate need for OS and different types of OS
- Apply suitable techniques for management of different resources
- Use processor, memory, storage and file system commands
- Realize the different concepts of OS in platform of usage through case studies

Internal Assessment Marks :(15)

3 Internal Assessment Tests are conducted for 30 maximum marks during the semester and marks assessed based on average of best two performances and reduced to 15 marks.

Three Assessment:

PERIODICAL TESTS:	ASSEMENT SCHEME	TOTAL MARKS
Assessment - I	Test-I(Module 1, 2)	30 reduced to 15
Assessment - II	Test-II(Module 2, 3, 4)	30 reduced to 15
Assessment - III	Test-III(Module 4, 5)	30 reduced to 15

i) Periodical tests:

- Three Cycle test

External Marks: (80)

Students have to answer 5 questions with either OR choice, each full question carries 16 marks

Program Outcomes mapping with Course


Subject: Operating Systems	Program Outcomes											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12
CO-1												
CO-2												
CO-3												
CO-4												

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1 = Slight (low)

Program Educational Objectives mapping with Course

Subject Name	Program Specific Outcomes		
	PSO1	PSO2	PSO3
OPERATING SYSTEMS			

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1 = Slight (low)


Faculty in Charge
Dr. B.S. Pradeep


HOD, CSE

ACS COLLEGE OF ENGINEERING

Mysore Road Bangalore - 560074

Department of Computer Science and Engineering

LESSON PLAN

Academic Year	2017-2018
Semester	III
Subject Code	15CS33
Subject Title	Data Structure and Applications
Faculty In-charge/Desgn./Dept.	Dr T.Senthil Kumaran

Course Learning Objectives:

1. Explain fundamentals of data structures and their applications essential for programming/problem solving
2. Analyze Linear Data Structures: Stack, Queues, Lists
3. Analyze Non-Linear Data Structures: Trees, Graphs
4. Analyze and Evaluate the sorting & searching algorithms
5. Assess appropriate data structure during program development/Problem Solving

Course pre-requisites:

UML Software

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	Module -1			
Day 1	Introduction: Data Structures, Classifications (Primitive & Non Primitive)	Lecture	Black Board	T1
Day 2	Data structure Operations, Review of Arrays	Lecture	Black Board	T1
Day 3	Structures, Self-Referential Structures, and Unions. Pointers	Lecture	Black Board	T1
Day 4	Dynamic Memory Allocation Functions. Representation of Linear Arrays in Memory, Dynamically allocated arrays	Lecture	Black Board	T1
Day 5	Array Operations: Traversing, inserting, deleting	Lecture	Black Board	T1,R1
Day 6	Searching, and sorting. Multidimensional Arrays,	Lecture	Black Board	T1
Day 7	Polynomials and Sparse Matrices.	Lecture	Black Board	T1
Day 8	Strings: Basic Terminology	Lecture	Black Board	T1
Day 9	Basic Terminology, Storing	Lecture	Black Board	T1

Day 10	Operations and Pattern Matching algorithms	Lecture	Black Board	T1
	Module -2			
Day 11	Stacks: Definition, Stack Operations,	Lecture	Black Board	T1
Day 12	Array Representation of Stacks, Stacks using Dynamic Arrays			
Day 13	Stack Applications: Polish notation	Lecture	Black Board	T1
Day 14	Infix to postfix conversion, evaluation of postfix expression	Lecture	Black Board	T1
Day 15	Recursion - Factorial, GCD, Fibonacci Sequence.	Lecture	Black Board	T1
Day 16	Tower of Hanoi, Ackerman's function..	Lecture	Black Board	T1,R2
Day 17	Queues: Definition, Array Representation,	Lecture	Black Board	T1
Day 18	Queue Operations, Circular Queues, Circular queues using Dynamic arrays	Lecture	Black Board	T1
Day 19	Dequeues, Priority Queues, A Mazing Problem	Lecture	Black Board	T1
Day 20	Multiple Stacks and Queues.	Lecture	Black Board	T1
	Module -3			
Day 21	Linked Lists: Definition, Representation of linked lists	Lecture	Black Board	T1
Day 22	Memory allocation; Garbage Collection	Lecture	Black Board	T1
Day 23	Linked list operations: Traversing, Searching,	Lecture	Black Board	T1
Day 24	Doubly Linked lists, Circular linked lists, and header linked lists.	Lecture	Black Board	T1
Day 25	Linked Stacks and Queues. Applications of Linked lists	Lecture	Black Board	T1,R1
Day 26	Polynomials	Lecture	Black Board	T1
Day 27	Sparse matrix representation.	Lecture	Black Board	T1
Day 28	Programming Examples	Lecture	Black Board	T1
Day 29	Programming Examples	Lecture	Black Board	T1
Day 30	Programming Examples			
	Module -4			
Day 31	Trees	Lecture	Black Board	T1
Day 32	Terminology, Binary Trees, Properties of Binary trees,	Lecture	Black Board	T1
Day 33	Array and linked Representation of Binary Trees,	Lecture	Black Board	T1
Day 34	Binary Tree Traversals	Lecture	Black Board	T1
Day 35	Inorder, postorde	Lecture	Black Board	T1,R1
Day 36	preorder; Additional Binary tree operations,	Lecture	Black Board	T1

7	Threaded binary trees	Lecture	Black Board	T1
38	Binary Search Trees – Definition, Insertion, Deletion	Lecture	Black Board	T1
39	Traversal, Searching,	Lecture	Black Board	T1
40	Application of Trees-Evaluation of Expression,	Lecture	Black Board	T1
	Module -5			
Day 41	Graphs: Definitions, Terminologies	Lecture	Black Board	T1
Day 42	Matrix and Adjacency List Representation Of Graphs,	Lecture	Black Board	T1
Day 43	Elementary Graph operations,	Lecture	Black Board	T1
Day 44	Traversal methods: Breadth First Search and Depth First Search.	Lecture	Black Board	T1
Day 45	Sorting and Searching: Insertion Sort, Radix sort, Address Calculation Sort.	Lecture	Black Board	T1,R1
Day 46	Hashing: Hash Table organizations,	Lecture	Black Board	T1
Day 47	Hashing Functions, Static and Dynamic Hashing.	Lecture	Black Board	T1
Day 48	Files and Their Organization: Data Hierarchy,	Lecture	Black Board	T1
Day 49	File Attributes, Text Files and Binary Files	Lecture	Black Board	T1
Day 50	Basic File Operations, File Organizations and Indexing	Lecture	Black Board	T1

Sl. No.	Name of Book	Author Name	Publication
1	Fundamentals of Data Structures in C	Ellis Horowitz and Sartaj Sahni	2nd edition, Universities Press, 2014
2	Data Structures	Seymour Lipschutz, Schaum's Outlines	Revised 1st edition, McGraw Hill, 2014.
1	A Pseudo-code approach with C	Gilberg & Forouzan	2nd edition, Cengage Learning, 2014.
2	Data Structures using C	Reema Thareja	3rd edition Oxford press, 2012..

Course Outcome:

- After studying this course, students will be able to:
1. Acquire knowledge of - Various types of data structures, operations and algorithms. - Sorting and searching operations. - File structures.
 2. Analyse the performance of - Stack, Queue, Lists, Trees, Graphs, Searching and Sorting techniques.
 3. Implement all the applications of Data structures in a high-level language.
 4. Design and apply appropriate data structures for solving computing problems.

Internal Assessment Marks :(20)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 15 marks, + 5 mark Assignments.

Three Assessment:

PERIODICAL TESTS:	ASSESSMENT SCHEME	TOTAL MARKS
Assessment - I	Test-I(Module 1,2 nd Half)	30
Assessment - II	Test-II(Module 2 nd half & 3)	30
Assessment - III	Test-III(Module 4 & 5 half)	30

i) Periodical tests:

- Three Cycle test

External Marks: (80)


- The question paper will have ten questions.
- There will be 2 questions from each module.
- Each question will have questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

Program Outcomes mapping with Course

Course Outcome	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2										
CO2	3	3	2										
CO3	3	3	2										1
CO4	3	3	2										1

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1 = Slight (low)


Faculty in Charge


HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074.



ACS College of Engineering

Kambipura, Mysore Road, Bangalore-74

Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2017-18
Semester	III
Subject Code	15CS36
Subject Title	Discrete Mathematical Structures
Faculty In-charge/Desgn./Dept.	Mrs.Kavita K. Patil /Asst.Prof/CSE

Course pre-requisites:

- Knowledge of Computer organization

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	Module-1			
Day 1	Fundamentals of Logic: Basic Connectives and Truth Tables	Lecture	Black Board	T1
Day 2	Basic Connectives and Truth Tables	Lecture	Black Board	T1
Day 3	Logic Equivalence	Lecture	Black Board	T1,R1
Day 4	The Laws of Logic	Lecture	Black Board	T1
Day 5	Logical Implication – Rules of Inference	Lecture	Black Board	T1
Day 6	The Use of Quantifiers	Lecture	Black Board	T1,R1
Day 7	Quantifiers	Lecture	Black Board	T1
Day 8	Quantifiers	Lecture	Black Board	T1
Day 9	Definitions and the Proofs of Theorems	Lecture	Black Board	T1

Day 10	Definitions and the Proofs of Theorems	Lecture	Black Board	T1
Day 10	Pipeline hazards contd..	Lecture	Black Board	T1
	Module-2			
Day 11	Properties of the Integers: Mathematical Induction	Discussion	Black Board	T1
Day 12	Mathematical Induction	Lecture	Black Board	T1
Day 13	The Well Ordering Principle – Mathematical Induction	Lecture	Black Board	T1,R1
Day 14	The Well Ordering Principle – Mathematical Induction	Lecture	Black Board	T1
Day 15	Recursive Definitions	Lecture	Black Board	T1
Day 16	Fundamental Principles of Counting: The Rules of Sum and Product	Lecture	Black Board	T1
Day 17	Permutations	Lecture	Black Board	T1
Day 18	Combinations	Lecture	Black Board	T1
Day 19	Combinations – The Binomial Theorem	Lecture	Black Board	T1
Day 20	Combinations with Repetition	Lecture	Black Board	T1
	Module-3			
Day 21	Relations and Functions: Cartesian Products and Relations	Lecture	Black Board	T1
Day 22	Functions – Plain and One-to-One	Lecture	Black Board	T1,R1
Day 23	Onto Functions	Lecture	Black Board	T1
Day 24	The Pigeon-hole Principle	Lecture	Black Board	T1
Day 25	Function Composition and Inverse Functions.	Lecture	Black Board	T1
Day 26	Properties of Relations, Computer Recognition	Lecture	Black Board	T1,R2
Day 27	Zero-One Matrices and Directed Graphs	Lecture	Black Board	T1
Day 28	Partial Orders – Hasse Diagrams	Lecture	Black Board	T1
Day 29	Partial Orders – Hasse Diagrams	Lecture	Black Board	T1

Day 30	Equivalence Relations and Partitions.	Lecture	Black Board	T1
	Module-4			
Day 31	The Principle of Inclusion and Exclusion: The Principle of Inclusion and Exclusion	Lecture	Black Board	T1,R3
Day 32	Generalizations of the Principle	Lecture	Black Board	T1
Day 33	Derangements – Nothing is in its Right Place	Lecture	Black Board	T1,R2
Day 34	Derangements – Nothing is in its Right Place	Lecture	Black Board	T1
Day 35	Rook Polynomials.	Lecture	Black Board	T1
Day 36	Rook Polynomials.			
Day 37	Recurrence Relations: First Order Linear Recurrence Relation	Lecture	Black Board	T1,R2
Day 38	Recurrence Relations: First Order Linear Recurrence Relation	Lecture	Black Board	T1
Day 39	The Second Order Linear Homogeneous Recurrence Relation with Constant Coefficients	Lecture	Black Board	T1,R3
Day 40	The Second Order Linear Homogeneous Recurrence Relation with Constant Coefficients	Lecture	Black Board	T1
	Module-5			
Day 41	Introduction to Graph Theory: Definitions and Examples	Lecture	Black Board	T1
Day 42	Sub graphs	Lecture	Black Board	T1
Day 43	Complements and Graph Isomorphism	Lecture	Black Board	T1
Day 44	Vertex Degree	Lecture	Black Board	T1
Day 45	Euler Trails and Circuits	Lecture	Black Board	T1,R1
Day 46	Trees: Definitions	Lecture	Black Board	T1,R2
Day 47	Properties, and Examples	Lecture	Black Board	T1,R3
Day 48	Routed Trees	Lecture	Black Board	T1,R4
Day 49	Trees and Sorting	Lecture	Black Board	T1,R5

Day 50	Weighted Trees and Prefix Codes	Lecture	Black Board	T1
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Sl. No		Name of Book	Author Name	Publication
1	Prescribed Book	Discrete and Combinatorial Mathematics	Ralph P. Grimaldi:	5th Edition, Pearson Education. 2004
1	Reference Books	Discrete Mathematics – A Concept based approach	Basavaraj S Anami and Venakanna S Madalli:	Universities Press, 2016
2		Discrete Mathematics and its Applications,	Kenneth H. Rosen:	6th Edition, McGraw Hill, 2007
3		A Treatise on Discrete Mathematical Structures	Jayant Ganguly	Sanguine-Pearson, 2010.
4		Discrete Mathematical Structures: Theory and Applications	D.S. Malik and M.K. Sen:	Thomson, 2004.
5		Discrete Mathematics with Applications, Elsevier, 2005, Reprint 2008.	Thomas Koshy	Reprint 2008, 2005

Course Outcome:

Course outcomes:

After studying this course, students will be able to:

1. Verify the correctness of an argument using propositional and predicate logic and truth tables.
2. Demonstrate the ability to solve problems using counting techniques and combinatorics in the context of discrete probability.
3. Solve problems involving recurrence relations and generating functions.
4. Construct proofs using direct proof, proof by contraposition, proof by contradiction, proof by cases, and mathematical induction.
5. Explain and differentiate graphs and trees

Internal Assessment Marks :(30)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 15 marks.
5 marks for assignments and quiz conducted. Totally 20 (15+5) marks.

Three Assessment:

PERIODICAL TESTS:	ASSESMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(module 1 & 2 nd half)	30
Assesment - II	Test-II(module 2 nd half & module 3)	30
Assesment - III	Test-III(module 3 & 4)	30

i) Periodical tests:

- Three Cycle test

ii) Carry home exercise

- Given questions from all the modules to answer at home.


External Marks: (80)

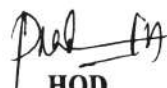
Students have to answer all 5 questions.

Program Outcomes mapping with Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	3	2	3	2							2
CO2	1	2	2	3	3							
CO3	1	3	2	2	1							2
CO4	1	3	2	2	2							2

Note: 3 = Above Average (High) 2 = Average (Medium) 1 = Below Average (low)


Faculty in Charge
[Kavita K. Patil]


HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074.



ACS College of Engineering

Kambipura, Mysore Road, Bangalore-74

Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2018-19 (ODD SEM)
Semester	III
Subject Code	17CS33
Subject Title	Data Structures and Applications
Faculty In-charge/Desgn./Dept.	Mrs.Kavya G /Asst.Prof/CSE

Course pre-requisites:

- Knowledge of data structures

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Referenc e/Source
	Module-1			
Day 1	Data Structures, Classifications (Primitive & Non Primitive)	Lecture	Black Board	T1
Day 2	Data structure Operations, Review of Arrays, Structures	Lecture	Black Board	T1
Day 3	Self-Referential Structures, and Unions	Lecture	Black Board	T1,R1
Day 4	Pointers and Dynamic Memory Allocation Functions	Lecture	Black Board	T1
Day 5	Representation of Linear Arrays in Memory, Dynamically allocated arrays	Lecture	Black Board	T1
Day 6	Array Operations: Traversing, inserting, deleting	Lecture	Black Board	T1,R1
Day 7	Searching, and Sorting	Lecture	Black Board	T1
Day 8	Multidimensional Arrays, Polynomials and Sparse Matrices	Lecture	Black Board	T1
Day 9	Strings: Basic Terminology, Storing, Operations	Lecture	Black Board	T1
Day 10	Pattern Matching algorithms ,Programming Examples	Lecture	Black Board	T1

	Module-2			
Day 11	Stacks: Definition, Stack Operations	Discussion	Black Board	T1
Day 12	Array Representation of Stacks, Stacks using Dynamic Arrays	Lecture	Black Board	T1
Day 13	Stack Applications: Polish notation, Infix to postfix conversion	Lecture	Black Board	T1,R1
Day 14	Evaluation of postfix expression, Recursion - Factorial, GCD, Fibonacci Sequence	Lecture	Black Board	T1
Day 15	Tower of Hanoi, Ackerman's function	Lecture	Black Board	T1
Day 16	Queues: Definition, Array Representation, Queue Operations,	Lecture	Black Board	T1
Day 17	Circular Queues, Circular queues using Dynamic arrays	Lecture	Black Board	T1
Day 18	Dequeues, Priority Queues	Lecture	Black Board	T1
Day 19	Mazing Problem. Multiple Stacks and Queues	Lecture	Black Board	T1
Day 20	Programming Examples.	Lecture	Black Board	T1
	Module-3			
Day 21	Linked Lists: Definition, Representation of linked lists in Memory	Lecture	Black Board	T1
Day 22	Memory allocation; Garbage Collection.	Lecture	Black Board	T1,R1
Day 23	Linked list operations: Traversing, Searching,	Lecture	Black Board	T1
Day 24	Insertion, and Deletion	Lecture	Black Board	T1
Day 25	Doubly Linked lists	Lecture	Black Board	T1
Day 26	Circular linked lists, and header linked lists	Lecture	Black Board	T1,R2
Day 27	Linked Stacks and Queues.	Lecture	Black Board	T1
Day 28	Applications of Linked lists – Polynomials,	Lecture	Black Board	T1
Day 29	Sparse matrix representation.	Lecture	Black Board	T1
Day 30	Programming Examples	Lecture	Black Board	T1
	Module-4			
Day 31	Trees: Terminology, Binary Trees			
Day 32	Properties of Binary trees, Array and linked Representation of Binary Trees	Lecture	Black Board	T1,R3
		Lecture	Black Board	T1

Day 33	Binary Tree Traversals - Inorder, postorder, preorder	Lecture	Black Board	T1,R2
Day 34	Contd.,	Lecture	Black Board	T1
Day 35	Additional Binary tree operations	Lecture	Black Board	T1
Day 36	Threaded binary trees,			
Day 37	Binary Search Trees – Definition, Insertion, Deletion,	Lecture	Black Board	T1,R2
Day 38	Traversal, Searching	Lecture	Black Board	T1
Day 39	Traversal, Searching	Lecture	Black Board	T1,R3
Day 40	Programming Examples	Lecture	Black Board	T1
	Module-5			
Day41	Graphs: Definitions, Terminologies	PPT	Black Board	T1
Day 42	Matrix and Adjacency List Representation Of Graphs,	PPT	Black Board	T1
Day 43	Elementary Graph operations	PPT	Black Board	T1
Day 44	Traversal methods: Breadth First Search and Depth First Search	PPT	Black Board	T1
Day 45	Sorting and Searching: Insertion Sort, Radix sort	PPT	Black Board	T1,R1
Day 46	Address Calculation Sort	PPT	Black Board	T1,R2
Day 47	Hashing: Hash Table organizations, Hashing Functions,	PPT	Black Board	T1,R3
Day 48	Static and Dynamic Hashing	PPT	Black Board	T1,R4
Day 49	Files and Their Organization: Data Hierarchy, File Attributes, Text Files and Binary Files	PPT	Black Board	T1,R5
Day 50	Basic File Operations, File Organizations and Indexing	PPT	Black Board	T1

Sl. No		Name of Book	Author Name	Publication
1	Prescribed Book	Fundamentals of Data Structures in C	Ellis Horowitz and Sartaj Sahni	2nd edition, Universities Press,2014
2		Data Structures	Seymour Lipschutz, Schaum's Outlines	Revised 1st edition, McGraw Hill, 2014

1	Reference Books	Data Structures: A Pseudo-code approach with C	Gilberg & Forouzan,	2nd edition, Cengage Learning, 2014.
2		Data Structures using C	Reema Thareja	3rd edition Oxford press, 2012.
3		An Introduction to Data Structures with Applications	Jean-Paul Tremblay & Paul G. Sorenson	2nd Edition, McGraw Hill, 2013.
4		Data Structures using C	A M Tenenbaum,	PHI, 1989.
5		Data Structures and Program Design in C	Robert Kruse	2nd edition, PHI, 1996.

Course Outcome:

After studying this course, students will be able to:

- Explain different types of data structures, operations and algorithms
- Apply searching and sorting operations on files
- Make use of stack, Queue, Lists, Trees and Graphs in problem solving.
- Develop all data structures in a high-level language for problem solving

Internal Assessment Marks :(40)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 30 marks.

10 marks for assignments and quiz conducted. Totally 40 (30+10) marks.

Three Assessment:

PERIODICAL TESTS:	ASSEMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(module 1 & 2 nd half)	30
Assesment - II	Test-II(module 2 nd half & module 3)	30
Assesment - III	Test-III(module 3 & 4)	30

i) Periodical tests:

- Three Cycle test

ii) Carry home exercise

- Given questions from all the modules to answer at home.

External Marks: (60)

Students have to answer all 5 questions.

Program Outcomes mapping with Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	3	2	3	2							
CO2	1	2	2	3	3							2
CO3	1	3	2	2	1							
CO4	1	3	2	2	2							2

Note: 3 = Above Average (High) 2 = Average (Medium) 1 = Below Average (low)

Kavya G

Faculty in Charge
[kavya G]

HOD
HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074



ACS College of Engineering

Kambipura, Mysore Road, Bangalore-74

Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2018–2019 (ODD)
Semester	V
Subject Code	15CS54
Subject Title	AUTOMATA THEORY AND COMPUTABILITY
Faculty In-charge/Desgn./Dept.	Dr. Marceswari V/ Asso. Prof. / CSE.
Dept	CSE

Course Objectives:

- Introduce core concepts in Automata and Theory of Computation
- Identify different Formal language Classes and their Relationships
- Design Grammars and Recognizers for different formal languages
- Prove or disprove theorems in automata theory using their properties
- Determine the decidability and intractability of Computational problems

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
Module 1				
Day 1	Why study the Theory of Computation, Languages and Strings: Strings, Languages	Lecture	Black Board	T1
Day 2	A Language Hierarchy, Computation	Lecture	Black Board	T1
Day 3	Finite State Machines (FSM): Deterministic FSM, Regular languages	Lecture	Black Board	T1
Day 4	Designing FSM, Nondeterministic FSMs	Lecture	Black Board	T1
Day 5	From FSMs to Operational Systems	Lecture	Black Board	T1
Day 6	Simulators for FSMs	Lecture	Black Board	T1
Day 7	Minimizing FSMs	Lecture	Black Board	T1
Day 8	Canonical form of Regular languages	Lecture	Black Board	T1

Day 9	Finite State Transducers	Lecture	Black Board	T1
Day 10	Bidirectional Transducers	Lecture	Black Board	T1
Module -2				
Day 11	Regular Expressions (RE): what is a RE?	Lecture	Black Board	T1
Day 12	Kleene's theorem, Applications of Res	Lecture	Black Board	T1
Day 13	Manipulating and Simplifying REs	Lecture	Black Board	T1
Day 14	Regular Grammars	Lecture	Black Board	T1
Day 15	Definition, Regular Grammars	Lecture	Black Board	T1
Day 16	Regular languages	Lecture	Black Board	T1
Day 17	Regular Languages (RL) and Nonregular Languages	Lecture	Black Board	T1
Day 18	How many RLs, To show that a language is regular	Lecture	Black Board	T1
Day 19	Closure properties of RLs	Lecture	Black Board	T1
Day 20	to show some languages are not RLs	Lecture	Black Board	T1
Module -3				
Day 21	Context-Free Grammars(CFG)	Discussion	Black Board	T1
Day 22	Introduction to Rewrite Systems and Grammars	Lecture	Black Board	T1
Day 23	CFGs and languages, designing CFGs	PPT	Black Board	T1
Day 24	simplifying CFGs, proving that a Grammar is correct	PPT	Black Board	T1
Day 25	Derivation and Parse trees, Ambiguity, Normal Forms	PPT	Black Board	T1
Day 26	Pushdown Automata (PDA): Definition	PPT	Black Board	T1
Day 27	Definition of non-deterministic PDA	Discussion	Black Board	T1
Day 28	Deterministic and Non-deterministic PDAs, Non-determinism and Halting	Lecture	Black Board	T1
Day 29	Alternative equivalent definitions of a PDA	Lecture	Black Board	T1
Day 30	Alternatives that are not equivalent to PDA	Lecture	Black Board	T1
Module -4				

Day 31	Context-Free and Non-Context-Free Languages	Discussion	Black Board	T1,T2
Day 32	Where do the Context-Free Languages(CFL) fit, Showing a language is context-free	Lecture	Black Board	T1,T2
Day 33	Pumping theorem for CFL, Important closure properties of CFLs	PPT	Black Board	T1,T2
Day 34	Deterministic CFLs	PPT	Black Board	T1,T2
Day 35	Algorithms and Decision Procedures for CFLs	PPT	Black Board	T1,T2
Day 36	Decidable questions, Un-decidable questions	Discussion	Black Board	T1,T2
Day 37	Turing Machine: Turing machine model	Lecture	Black Board	T1,T2
Day 38	Representation, Language acceptability by TM	Lecture	Black Board	T1,T2
Day 39	design of TM	Lecture	Black Board	T1,T2
Day 40	Techniques for TM construction	Lecture	Black Board	T1,T2

Module -5

Day 41	Variants of Turing Machines (TM), The model of Linear Bounded automata	Discussion	Black Board	T2
Day 42	Definition of an algorithm, decidability	Lecture	Black Board	T2
Day 43	decidable languages	Lecture	Black Board	T2
Day 44	Undecidable languages	Lecture	Black Board	T2
Day 45	halting problem of TM	Lecture	Black Board	T2
Day 46	Post correspondence problem	Discussion	Black Board	T2
Day 47	Complexity: Growth rate of functions	Discussion	Black Board	T2
Day 48	the classes of P and NP	Lecture	Black Board	T2
Day 49	Quantum Computation: quantum computers	Lecture	Black Board	T2
Day 50	Church-Turing thesis	Lecture	Black Board	T2

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed	Automata, Computability and Complexity	Elaine Rich	1st Edition, Pearson Education,2012/2013

2	Reference Books	Theory of Computer Science	K I. P Mishra, N Chandrasekaran	3rd Edition, McGraw hill, 2012
1		Introduction to Automata Theory, Languages, and Computation	John E Hopcroft, Rajeev Motwani, Jeffery D Ullman	3rd Edition, Pearson Education, 2013
2		Introduction to the Theory of Computation	Michael Sipser	3rd edition, Cengage learning, 2013
3		Introduction to Languages and The Theory of Computation	John C Martin	3rd Edition, Tata McGraw –Hill Publishing Company Limited, 2013
4		An Introduction to Formal Languages and Automata	Peter Linz	3rd Edition, Narosa Publishers, 1998
5		Formal Languages and Automata theory	Basavaraj S . Anami, Karibasappa K G	Wiley India, 2012

CO Outcomes: The students should be able to:

- Acquire fundamental understanding of the core concepts in automata theory and Theory of Computation.
- Learn how to translate between different models of Computation (e.g., Deterministic and Non-deterministic and Software models).
- Design Grammars and Automata (recognizers) for different language classes and become knowledgeable about restricted models of Computation (Regular, Context Free) and their relative powers.
- Develop skills in formal reasoning and reduction of a problem to a formal model, with an emphasis on semantic precision and conciseness.
- Classify a problem with respect to different models of Computation.

Internal Assessment Marks :(20)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 15 marks. Plus 5 marks for assignments.

Three Assessment:

PERIODICAL TESTS:	ASSESSMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(M-1 & M 2 FIRST HALF)	30
Assesment - II	Test-II(M-2 SECOND HALF & 3)	30
Assesment - III	Test-III(M-4 & M-5)	30

Periodical tests:

- Three Cycle test

External Marks: (80)

- The question paper will have ten questions.
- There will be 2 questions from each module.

- Each question will have questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

Program Outcomes mapping with Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2									
CO2	1	2	2		1							
CO3		2	2		1							
CO4		2	2		2							
CO5		2	2		3							

V. M. S.

Faculty in Charge

f *V. M. S.*

HOD
HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074,



A.C.S COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

LESSON PLAN

Academic Year	2018– 2019(Even)
Semester	VI
Subject Code	15CS63
Subject Title	SYSTEM SOFTWARE AND COMPILER DESIGN
Faculty In-charge/Desgn./Dept.	Sunita chalageri/ Asst Prof/ CSE

Course Learning Objectives:

- Define System Software such as Assemblers, Loaders, Linkers and Macroprocessors
- Familiarize with source file, object file and executable file structures and libraries
- Describe the front-end and back-end phases of compiler and their importance to students

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
Module -3				
Day 1	Lexical Analysis: Introduction	Lecture	Black Board	T2
Day 2	Alphabets And Tokens In Computer Languages	Lecture	Black Board	T2
Day 3	Alphabets And Tokens In Computer Languages	Lecture	Black Board	T2
Day 4	Representation	Lecture	Black Board	T2
Day 5	Representation	Lecture	Black Board	T2
Day 6	Token Recognition And Finite Automata	Lecture	Black Board	T2
Day 7	Token Recognition And Finite Automata	Lecture	Black Board	T2
Day 8	Implementation, Error Recovery.	Lecture	Black Board	T2
Day 9	Implementation, Error Recovery.	Lecture	Black Board	T2
Day 10	Implementation, Error Recovery.	Lecture	Black Board	T2
Module -4				
Day 11	Syntax Analysis: Introduction	Lecture	Black Board	T2
Day 12	Syntax Analysis: Introduction	Lecture	Black Board	T2
Day 13	Role Of Parsers	Lecture	Black Board	T2
Day 14	Context Free Grammars	Lecture	Black Board	T2
Day 15	Top Down Parsers	Lecture	Black Board	T2
Day 16	Top Down Parsers	Lecture	Black Board	T2

Day 17	Bottom-Up Parsers.	Lecture	Black Board	T2
Day 18	Bottom-Up Parsers.	Lecture	Black Board	T2
Day 19	Operator-Precedence Parsing	Lecture	Black Board	T2
Day 20	Operator-Precedence Parsing	Lecture	Black Board	T2

Module -5

Day 21	Syntax Directed Translation	Lecture	Black Board	T2
Day 22	Syntax Directed Translation	Lecture	Black Board	T2
Day 23	Syntax Directed Translation	Lecture	Black Board	T2
Day 24	Intermediate code generation	Lecture	Black Board	T2
Day 25	Intermediate code generation	Lecture	Black Board	T2
Day 26	Intermediate code generation	Lecture	Black Board	T2
Day 27	Code generation	Lecture	Black Board	T2
Day 28	Code generation	Lecture	Black Board	T2
Day 29	Code generation	Lecture	Black Board	T2
Day 30	Code generation	Lecture	Black Board	T2

Module -1

Day 31	Introduction to System Software	Lecture	Black Board	T1
Day 32	Machine Architecture of SIC and SIC/XE.	Lecture	Black Board	T1
Day 33	Assemblers: Basic assembler functions	Lecture	Black Board	T1
Day 34	machine dependent assembler features	Lecture	Black Board	T1
Day 35	machine independent assembler features	Lecture	Black Board	T1
Day 36	machine independent assembler features	Lecture	Black Board	T1
Day 37	assembler design options	Lecture	Black Board	T1
Day 38	assembler design options	Lecture	Black Board	T1
Day 39	Macroprocessors: Basic macro processor functions	Lecture	Black Board	T1
Day 40	Macroprocessors: Basic macro processor functions	Lecture	Black Board	T1

Module -2

Day 41	Loaders and Linkers: Basic Loader Functions,	Lecture	Black Board	T1,R1
Day 42	Loaders and Linkers: Basic Loader Functions,	Lecture	Black Board	T1,R1
Day 43	Loaders and Linkers: Basic Loader Functions,	Lecture	Black Board	T1,R1
Day 44	Machine Dependent Loader Features,	Lecture	Black Board	T1,R1
Day 45	Machine Dependent Loader Features,	Lecture	Black Board	T1,R1
Day 46	Machine Dependent Loader Features,	Lecture	Black Board	T1,R1
Day 47	Machine Independent Loader Features	Lecture	Black Board	T1,R1

Day 48	Machine Independent Loader Features	Lecture	Black Board	T1,R1
Day 49	Loader Design Options	Lecture	Black Board	T1,R1
Day 50	Implementation Examples.	Lecture	Black Board	T1,R1

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Books	T1: System Software	Leland. L. Beck, D Manjula	3rd edition, 2012
2		T2: Compilers-Principles, Techniques and Tools	Alfred V Aho, Monica S. Lam, Ravi Sethi, Jeffrey D. Ullman	Pearson, 2nd edition, 2007
3	Reference Books	Systems programming	Srimanta Pal	Oxford university press, 2016
		System programming and Compiler Design	K C Loudon, Cengage Learning	
		System software and operating system	D. M. Dhamdhare TMG	TMG
		Compiler Design, K Muneeswaran	Oxford University Press 2013	

Course Outcome:

- Explain system software such as assemblers, loaders, linkers and macroprocessors
- Design and develop lexical analyzers, parsers and code generators
- Utilize lex and yacc tools for implementing different concepts of system software **Internal**

ACS COLLEGE OF ENGINEERING

Mysore Road Bangalore – 560074

Department of Computer Science and Engineering

LESSON PLAN

Academic Year	2019– 2020
Semester	III
Subject Code	18CS33
Subject Title	Analog and Digital Electronics
Faculty In-charge/Desgn./Dept.	Prasad A Y/ Asst Prof/ CSE

Course Learning Objectives:

- Explain the use of photoelectronics devices, 555 timer IC, Regulator ICs and uA741 opamp IC
- Make use of simplifying techniques in the design of combinational circuits.
- Illustrate combinational and sequential digital circuits
- Demonstrate the use of flipflops and apply for registers
- Design and test counters, Analog-to-Digital and Digital-to-Analog conversion techniques.

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/ Source
Module -1				
Day 1	Photodiodes and Optocouplers	Lecture	Black Board	T1
		Lecture	Black Board	T1
Day 2	Light Emitting Diodes	Lecture	Black Board	T1
Day 3	BJT Biasing :Fixed bias, Collector to base Bias, Voltage divider bias.	Lecture	Black Board	T1
Day 4	Operational Amplifier Application Circuits: Multivibrators using IC-555	Lecture	Black Board	T1
Day 5		Lecture	Black Board	T1
Day 6	Peak Detector, Schmitt trigger, Active Filters, Non-Linear Amplifier, Relaxation Oscillator	Lecture	Black Board	T1
		Lecture	Black Board	T1
Day 7		Lecture	Black Board	T1
Day 8	Current-To-Voltage-Converter, Voltage-To Current Converter. Regulated Power Supply Parameters, adjustable voltage regulator, D to A and A to D converter.	Lecture	Black Board	T1
		Lecture	Black Board	T1
Module -2				
Day 9	Karnaugh maps: minimum forms of switching functions, two and three variable Karnaugh maps, four variable karnaugh maps,	Lecture	Black Board	T1

Day 10	Determination of minimum expressions using essential prime implicants.	Lecture	Black Board	T1
Day 11	Quine-McClusky Method; determination of prime implicants implicant chart.	Lecture	Black Board	T1
Day 12	Q M method(continue)	Lecture	Black Board	T1
Day 13	petricks method.	Lecture	Black Board	T1
Day 14	Q M method(continue)	Lecture	Black Board	T1
Day 15	simplification of incompletely specified functions	Lecture	Black Board	T1
Day 16	The prime simplification using map-entered variables	Lecture	Black Board	T1
Module - 3				
Day 17	Combinational circuit design and simulation using gates: Review of Combinational circuit design	Lecture	Black Board	T1
Day 18	Design of circuits with limited Gate Fan-in	Lecture	Black Board	T1
Day 19	Gate delays and Timing diagrams	Lecture	Black Board	T1
Day 20	Hazards in combinational Logic	Lecture	Black Board	T1
Day 21	Multiplexers, Three state buffers	Lecture	Black Board	T1
Day 22	Decoders and encoders	Lecture	Black Board	T1,R1
Day 23	Programmable Logic Arrays,	Lecture	Black Board	T1,R1
Day 24	Programmable Array Logic	Lecture	Black Board	T1
Module - 4				
Day 25	Introduction to VHDL	Lecture	Black Board	T1
Day 26	VHDL description of combinational circuits,	Lecture	Black Board	T1,R1
Day 27	VHDL Models for multiplexers, VHDL Modules	Lecture	Black Board	T1
Day 28	Latches and Flip-Flops, Set Reset Latch,	Lecture	Black Board	T1
Day 29	Gated Latches, Edge-Triggered D Flip Flop	Lecture	Black Board	T1
Day 30	SR Flip Flop, J K Flip Flop, T Flip Flop	Lecture	Black Board	T1,R1
Day 31	Flip Flop with additional inputs	Lecture	Black Board	T1 ,R1
Day 32	Asynchronous Sequential Circuit	Lecture	Black Board	T1,R1
Module - 5				
Day 33	Registers and Counters,	Lecture	Black Board	T1
Day 34	Registers and Register Transfers	Lecture	Black Board	T1
Day 35	Parallel Adder with accumulator	Lecture	Black Board	T1
Day 36	Shift registers, design of Binary counters	Lecture	Black Board	T1,R1
Day 37	Counters for other sequences,	Lecture	Black Board	T1
Day 38	Counter design using SR Flip Flops	Lecture	Black Board	T1
Day 39	Counter design using J K Flip Flops	Lecture	Black Board	T1
Day 40	Sequential parity checker State tables and graphs	Lecture	Black Board	T1

Text Book:

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Books	Analog and Digital Electronics	Charles H Roth and Larry L Kinney,	Cengage Learning, 2019
1		Digital Principles and Applications,	Donald P Leach, Albert Paul Malvino & Goutam Saha	8th Edition, Tata McGraw Hill, 2015
	Reference Books	Electronic Devices and Circuits,	Anil K Maini, Varsha Agarwal	Wiley, 2012
		Digital Design,	M. Morris Mani	4th Edition, Pearson Prentice Hall, 2008.
		Electronic Devices and Circuits	David A. Bell	5th Edition, Oxford University Press, 2008

Course outcomes:

- Design and analyze application of analog circuits using photo devices, timer IC, power supply and regulator IC and op-amp.
- Explain the basic principles of A/D and D/A conversion circuits and develop the same.
- Simplify digital circuits using Karnaugh Map, and Quine-McClusky Methods
- Explain Gates and flip flops and make us in designing different data processing circuits, registers and counters and compare the types.
- Develop simple HDL programs

Internal Assessment marks(40):

3 Internal Assessment Tests are conducted during the semester and marks allotted out of 50 marks. Marks of all test is reduced to 30 marks. Average of all three is considered. 10 marks for assignment and quiz conducted. Totally 40 (30+10) marks.

Three Assessment:

PERIODICAL TESTS	ASSESSMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I (Module 1 & 2 nd Half)	50
Assesment - II	Test-II (Module 2 nd half & Module 4)	50
Assesment - III	Test-III (Module 3 & Module 5)	50

i) Periodical tests:

- Three Cycle test

ii) Carry home exercise:

Given questions from all the modules to answer at home.

External Marks: (100):

Students have to answer any 5 full questions choosing one full question from each part.

Program Outcomes mapping with Course :

Subject Name: Analog and Digital Electronics	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1	1	--	--	--	--	--	--	--	1
CO2	2	2	2	--	--	--	--	--	--	--	--	--
CO3	2	2	3	2	2	--	--	--	--	--	--	1
CO4	1	2	3	--	1	--	--	--	--	--	--	1
CO5	1	1	2	3	1	--	--	--	--	--	--	--

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1 = Slight (low)



Faculty in Charge



HOD

HOD

Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074.



ACS College of Engineering

Kambipura, Mysore Road, Bangalore-74

Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2019-20 (ODD SEM)
Semester	V
Subject Code	17CS553
Subject Title	Advanced JAVA and J2EE
Faculty In-charge/Desgn./Dept.	Mrs. Poonam Kumari /Asst.Prof/CSE

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Refer ence/S ource
	Module-1			
Day 1	Enumerations, Enumeration fundamentals, the values() and valueOf() Methods	Lecture	Black Board	T1
Day 2	javaenumerations are class types, enumerations Inherits Enum, example	Lecture	Black Board	T1
Day 3	typewrappers, Autoboxing, Autoboxing and Methods, Autoboxing/Unboxing occurs in Expressions	Lecture	Black Board	T1,R1
Day 4	Autoboxing/Unboxing, Boolean and character values, Autoboxing/Unboxing helps prevent errors, A word of Warning	Lecture	Black Board	T1
Day 5	Annotations, Annotation basics, specifying retention policy	Lecture	Black Board	T1
Day 6	Obtaining Annotations at runtime by use of reflection,	Lecture	Black Board	T1,R1
Day 7	Annotated element Interface, Using Default values	Lecture	Black Board	T1
Day 8	Marker Annotations, Single Member annotations, Built-In annotations.	Lecture	Black Board	T1
	Module-2			
Day 9	Collections Overview, Recent Changes to Collections	Lecture	Black Board	T1
Day 10	The Collection Interfaces,	Lecture	Black Board	T1

Day 11	The Collection Classes, Accessing a collection Via an Iterator,	Discussion	Black Board	T1
Day 12	Storing User Defined Classes in Collections, The Random Access Interface	Lecture	Black Board	T1
Day 13	Working With Maps	Lecture	Black Board	T1,R1
Day 14	Comparators, The Collection Algorithms	Lecture	Black Board	T1
Day 15	Why Generic Collections?	Lecture	Black Board	T1
Day 16	he legacy Classes and Interfaces, Parting Thoughts on Collections.	Lecture	Black Board	T1
	Module-3			
Day 17	The String Constructors, String Length, Special String Operations, String Literals, String Concatenation	Lecture	Black Board,PPT	T1
Day 18	String Concatenation with Other Data Types, String Conversion and toString() Character Extraction	Lecture	Black Board,PPT	T1
Day 19	charAt(), getChars(), getBytes() toCharArray(), String Comparison, equals() and equalsIgnoreCase(), regionMatches() startsWith() and endsWith(), equals() Versus ==	Lecture	Black Board,PPT	T1
Day 20	compareTo() Searching Strings, Modifying a String, substring(),concat(), replace(), trim(), Data Conversion Using valueOf()	Lecture	Black Board,PPT	T1
Day 21	Changing the Case of Characters Within a String, Additional String Methods, StringBuffer, StringBuffer Constructors	Lecture	Black Board,PPT	T1
Day 22	length() and capacity(), ensureCapacity(), setLength(), charAt() and setCharAt(), getChars()	Lecture	Black Board,PPT	T1,R1
Day 23	append(), insert(), reverse(), delete() and deleteCharAt(), replace(),	Lecture	Black Board,PPT	T1
Day 24	substring(), Additional StringBufferMethods, StringBuider	Lecture	Black Board,PPT	T1
	Module-4			
Day 25	Background; The Life Cycle of a Servlet; Using Tomcat for ServletDevelopment;	Lecture	Black Board,PPT	T1
Day 26	A simple Servlet; The Servlet API	Lecture	Black Board,PPT	T1,R2
Day 27	The javax.servlet Package;Reading Servlet Parameter; The javax.servlet.http package	Lecture	Black Board,PPT	T1
Day 28	Handling HTTP,Requests and Responses	Lecture	Black Board,PPT	T1
Day 29	Handling HTTP,Requests and Responses	Lecture	Black Board,PPT	T1
Day 30	Java Server Pages:(JSP): JSP, JSP Tags	Lecture	Black Board,PPT	T1

Day 31	Tomcat, Request String, User Sessions	Lecture	Black Board,PPT	T1,R3
Day 32	Cookies, Session Objects	Lecture	Black Board,PPT	T1
	Module-5			
Day 33	The Concept of JDBC; JDBC Driver Types; JDBC Packages	Lecture	Black Board,PPT	T2
Day 34	A Brief Overview of the JDBC process; Database Connection	Lecture	Black Board,PPT	T2,R2
Day 35	Associating the JDBC/ODBC Bridge with the Database	Lecture	Black Board,PPT	T2
Day 36	Statement Objects	Lecture	Black Board,PPT	T2
Day 37	ResultSet;	Lecture	Black Board,PPT	T2
Day 38	Transaction Processing	Lecture	Black Board,PPT	T2
Day 39	Metadata	Lecture	Black Board,PPT	T2
Day 40	Data types; Exceptions	Lecture	Black Board,PPT	T2

Sl. No		Name of Book	Author Name	Publication
1	Prescribed Book	JAVA the Complete Reference	Herbert Schildt	7th/9th Edition, Tata McGraw Hill,2007.
2		J2EE- TheCompleteReferenc e	Jim Keogh	McGraw Hill, 2007.
1	Reference Books	Introduction to JAVA Programming	Y. Daniel Liang	7thEdition, Pearson Education, 2007
2		The J2EE Tutorial	Stephanie Bodoff et al	2nd Edition, Pearson Education,2004
3		Advanced JAVA programming	Uttam K Roy	Oxford University press, 2015

Course Outcome:

After studying this course, students will be able to:

- Interpret the need for advanced Java concepts like enumerations and collections in developing modular and efficient programs
- Build client-server applications and TCP/IP socket programs
- Illustrate database access and details for managing information using the JDBC API
- Describe how servlets fit into Java-based web application architecture
- Develop reusable software components using Java Beans

Internal Assessment Marks :(40)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of best two performances and reduced to 30 marks.

10 marks for assignments and quiz conducted. Totally 40 (30+10) marks.

Three Assessment:

PERIODICAL TESTS:	ASSESSMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(module 1 & 2 nd half)	30
Assesment - II	Test-II(module 2 nd half & module 3)	30
Assesment - III	Test-III(module 4 & 5)	30

i) Periodical tests:

- Three Cycle test

ii) Carry home exercise

- Given questions from all the modules to answer at home.

External Marks: (60)

Students have to answer all 5 questions.



Faculty in Charge
[Poonam Kumari]

HOD

Program Outcomes mapping with Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2	2	2			2				2
CO2	3	2	2	2	2			2	2			2
CO3	3	3	2	2	2			2				
CO4	3	2	2	2	2							2
CO5	3	3	3	3	3			3				3

Note: 3 = Above Average (High) 2 = Average (Medium) 1 = Below Average (low)



Faculty in Charge



HOD



ACS College of Engineering

Kambipura, Mysore Road, Bangalore-74

Department of Computer Science and Engineering

LESSON PLAN

Academic Year	2019-20 (EVEN SEM)
Semester	VI(A)
Subject Code	17CS62(A)
Subject Title	Computer Graphics and Visualization
Faculty In-charge/Desgn./Dept.	Mrs. Neetha Das/Asst.Prof/CSE

Course pre-requisites:

- Knowledge of Computer

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/Source
	Module-1			
Day 1	Computer Graphics:Basics of computer graphics, Application of Computer Graphics	Lecture	PPT	T1
Day 2	Video Display Devices: Random Scan and Raster Scan displays, color CRT monitors	Lecture	PPT	T1
Day 3	Flat panel displays. Raster-scan systems: video controller, raster scan Display processor	Lecture	PPT	T1
Day 4	Graphics workstations and viewing systems, Input.	Lecture	PPT	T1
Day 5	Graphics networks, graphics on the internet, graphics software.	Lecture	PPT	T1
Day 6	Opengl: Introduction to opengl ,coordinate reference frames	Lecture	PPT	T1
Day 7	Specifying two-dimensional world coordinate reference frames in opengl, opengl point functions.	Lecture	PPT	T1
Day 8	Opengl line functions, point attributes, line attributes.	Lecture	PPT	T1

Day 9	Curve attributes, opengl point attribute functions, opengl line attribute functions	Lecture	Black Board	T1
Day 10	Line drawing algorithms(DDA, Bresenham's), circle generation algorithms	Lecture	Black Board	T1
	Module-2			
Day 11	Fill area Primitives: Polygon fill-areas, OpenGL polygon fill area functions.	Lecture	Black Board	T1
Day 12	fill area attributes, general scan line polygon fill algorithm	Lecture	Black Board	T1
Day 13	OpenGL fill-area attribute functions.	Lecture	Black Board	T1
Day 14	2D Geometric Transformations: Basic 2D Geometric Transformations, matrix representations and homogeneous coordinates	Lecture	PPT	T1
Day 15	Inverse transformations	Lecture	PPT	T1
Day 16	2D Composite transformations, other 2D transformations	Lecture	PPT	T1
Day 17	raster methods for geometric transformations, OpenGL raster transformations.	Lecture	PPT	T1
Day 18	OpenGL geometric transformations function	Lecture	PPT	T1
Day 19	2D viewing: 2D viewing pipeline	Lecture	PPT	T1
Day 20	OpenGL 2D viewing functions	Lecture	PPT	T1
	Module-3			
Day 21	Clipping: clipping window, normalization and viewport transformations	Lecture	Black Board	T1
Day 22	Clipping algorithms, 2D point clipping.	Lecture	Black Board	T1
Day 23	2D line clipping algorithms: cohen-sutherland line	Lecture	Black Board	T1
Day 24	Clipping only -polygon fill area clipping: Sutherland-Hodgeman polygon clipping algorithm only	Lecture	Black Board	T1
Day 25	3D Geometric Transformations: 3D translation, rotation, scaling, composite 3D transformations, other 3D transformations	Lecture	Black Board	T1
Day 26	Affine transformations, opengl geometric transformations functions	Lecture	Black Board	T1
Day 27	Color Models: Properties of light, color models, RGB and CMY color models	Lecture	Black Board	T1
Day 28	Illumination Models: Light sources	Lecture	Black Board	T1

Day 50	Corresponding OpenGL functions.	Lecture	Black Board	T1
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Sl. No		Name of Book	Author Name	Publication
1	Prescribed Book	Computer Graphics with OpenGL	Donald Hearn & Pauline Baker	Version,3rd / 4th Edition, Pearson Education,2011
2		Interactive Computer Graphics- A Top Down approach with OpenGL	Edward Angel	5th edition. Pearson Education, 2008
1	Reference Books	Computer graphics with OpenGL	James D Foley, Andries Van Dam, Steven K Feiner, John F Huges	pearson education.
2		Computer Graphics , sham's outline series	Xiang, Plastock	2nd edition, TMG
3		Computer Graphics, concepts and applications	Kelvin Sung, Peter Shirley, steven Baer	Cengage Learning
4		Computer Graphics using OpenGL	M M Raiker	Filip learning/Elsevier

Course Outcome:

After studying this course, students will be able to:

- Design and implement algorithms for 2D graphics primitives and attributes.
- Illustrate Geometric transformations on both 2D and 3D objects.
- Apply concepts of clipping and visible surface detection in 2D and 3D viewing, and Illumination Models.
- Decide suitable hardware and software for developing graphics packages using OpenGL

Internal Assessment Marks :(40)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of three performances.

10 marks for all assignments. Totally 40 (30+10) marks.

Day 29	Basic illumination models-Ambient light, diffuse reflection	Lecture	Black Board	T1
Day 30	Specular and phong model, Corresponding opengl functions	Lecture	Black Board	T1
	Module-4			
Day 31	3dviewing:3D viewing concepts, 3D viewing pipeline	Lecture	Black Board	T1
Day 32	3D viewing coordinate parameters .Transformation from world to viewing coordinates	Lecture	Black Board	T1
Day 33	Projection transformation,orthogonal projections, perspective projections	Lecture	Black Board	T1
Day 34	The viewport transformation and 3D screen coordinates	Lecture	Black Board	T1
Day 35	Opengl 3D viewing functions.	Lecture	Black Board	T1
Day 36	Visible Surface Detection Methods: Classification of visible surface Detection algorithms			
Day 37	Continued	Lecture	Black Board	T1
Day 38	Back face detection	Lecture	Black Board	T1
Day 39	Depth buffer method.	Lecture	Black Board	T1
Day 40	Opengl visibility detection functions	Lecture	Black Board	T1
	Module-5			
Day41	Input and Interaction: Input devices, clients and servers, Display Lists	Lecture	Black Board	T2
Day 42	Display Lists and Modelling, Programming Event Driven Input	Lecture	Black Board	T2
Day 43	Menus Picking, Building Interactive Models, Animating Interactive programs	Lecture	Black Board	T2
Day 44	Design of Interactive programs, Logic operations	Lecture	Black Board	T2
Day 45	Curved surfaces, quadric surfaces	Lecture	Black Board	T1
Day 46	OpenGL Quadric-Surface and Cubic-Surface Functions	Lecture	Black Board	T1
Day 47	Bezier Spline Curves	Lecture	Black Board	T1
Day 48	Bezier surfaces	Lecture	Black Board	T1
Day 49	OpenGL curve functions	Lecture	Black Board	T1

Three Assessment:

PERIODICAL TESTS:	ASSESMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(module 1 & 2 nd half)	30
Assesment - II	Test-II(module 2 nd half & module 3)	30
Assesment - III	Test-III(module 4 & 5)	30

i) Periodical tests:

- Three Cycle test

ii) Carry home exercise

- Given questions from all the modules to answer at home.

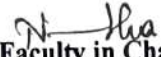
External Marks: (60)

Students have to answer all 5 questions.

Program Outcomes mapping with Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2		3							
CO2	3	2										
CO3	2		2									
CO4	2	2		2	3							

Note: 3 = Above Average (High) 2 = Average (Medium) 1 = Below Average (low)


Faculty in Charge
[Neetha Das]

HOD



ACS College of Engineering
Kambipura, Mysore Road, Bangalore-74
Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2020– 2021 (ODD)
Semester	V-A
Subject Code	18CS54
Subject Title	Automata Theory and Computability
Faculty In-charge/Desgn./Dept.	Dr. Mareswari V/ Asso. Prof. & HOD/ CSE

Course Objectives:

- Introduce core concepts in Automata and Theory of Computation
- Identify different Formal language Classes and their Relationships
- Design Grammars and Recognizers for different formal languages
- Prove or disprove theorems in automata theory using their properties
- Determine the decidability and intractability of Computational problems

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/ Source
Module 1				
Day 1	Why study the Theory of Computation, Languages and Strings: Strings, Languages	Lecture	Black Board	T1
Day 2	A Language Hierarchy, Computation	Lecture	Black Board	T1
Day 3	Finite State Machines (FSM): Deterministic FSM, Regular languages	Lecture	Black Board	T1
Day 4	Designing FSM, Nondeterministic FSMs	Lecture	Black Board	T1
Day 5	From FSMs to Operational Systems	Lecture	Black Board	T1
Day 6	Simulators for FSMs	Lecture	Black Board	T1
Day 7	Minimizing FSMs, Canonical form of Regular languages	Lecture	Black Board	T1
Day 8	Finite State Transducers, Bidirectional Transducers	Lecture	Black Board	T1
Module -2				
Day 9	Regular Expressions (RE): what is a RE?, Kleene's theorem, Applications of REs	Lecture	Black Board	T1
Day 10	Manipulating and Simplifying Res,	Lecture	Black Board	T1
Day 11	Regular Grammars: Definition, Regular Grammars	Lecture	Black Board	T1
Day 12	Regular languages	Lecture	Black Board	T1

Day 13	Regular Languages (RL) and Non-regular Languages	Lecture	Black Board	T1
Day 14	How many RLs. To show that a language is regular	Lecture	Black Board	T1
Day 15	Closure properties of RLs	Lecture	Black Board	T1
Day 16	to show some languages are not RLs	Lecture	Black Board	T1
Module -3				
Day 17	Context-Free Grammars(CFG). Introduction to Rewrite Systems and Grammars	Lecture	Black Board	T1
Day 18	CFGs and languages, designing CFGs, simplifying CFGs	Lecture	Black Board	T1
Day 19	proving that a Grammar is correct, Derivation and Parse trees, Ambiguity, Normal Forms	Lecture	Black Board	T1
Day 20	Pushdown Automata (PDA): Definition	Lecture	Black Board	T1
Day 21	Definition of non-deterministic PDA	Discussion	Black Board	T1
Day 22	Deterministic and Non-deterministic PDAs, Non-determinism and Halting	Lecture	Black Board	T1
Day 23	Alternative equivalent definitions of a PDA	PPT	Black Board	T1
Day 24	Alternatives that are not equivalent to PDA	PPT	Black Board	T1
Module -4				
Day 25	Algorithms and Decision Procedures for CFLs: Decidable questions	PPT	Black Board	T1
Day 26	Un-decidable questions	PPT	Black Board	T1
Day 27	Turing Machine: Turing machine model	Discussion	Black Board	T1
Day 28	Representation	Lecture	Black Board	T1
Day 29	Language acceptability by TM	Lecture	Black Board	T1
Day 30	design of TM	Lecture	Black Board	T1
Day 31	Techniques for TM construction	Discussion	Black Board	T1
Day 32	Variants of Turing Machines (TM), The model of Linear Bounded automata	Lecture	Black Board	T1
Module -5				
Day 33	Decidability: Definition of an algorithm, decidability	PPT	Black Board	T1
Day 34	Undecidable languages, halting problem of TM	PPT	Black Board	T1
Day 35	Post correspondence problem	PPT	Black Board	T2
Day 36	Complexity: Growth rate of functions, the classes of P and NP	Discussion	Black Board	T2

Day 37	Quantum Computation: quantum computers	Lecture	Black Board	T2
Day 38	ChurchTuring thesis.	Lecture	Black Board	T2
Day 39	Applications: G.1 Defining syntax of programming language	Lecture	Black Board	T2
Day 40	Appendix J: Security	Lecture	Black Board	T2

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Book	Automata, Computability and Complexity	Elaine Rich	1st Edition, Pearson Education,2012/2013
2		Theory of Computer Science	K L P Mishra, N Chandrasekaran	3rd Edition, McGraw hill, 2012
1	Reference Books	Introduction to Automata Theory, Languages, and Computation	John E Hopcroft, Rajeev Motwani, Jeffery D Ullman	3rd Edition, Pearson Education, 2013
2		Introduction to the Theory of Computation	Michael Sipser	3rd edition, Cengage learning,2013
3		Introduction to Languages and The Theory of Computation	John C Martin	3rd Edition, Tata McGraw –Hill Publishing Company Limited, 2013
4		An Introduction to Formal Languages and Automata	Peter Linz	3rd Edition, Narosa Publishers, 1998
5		Formal Languages and Automata theory	Basavaraj S . Anami, Karibasappa K G	Wiley India, 2012
6		Formal Languages and Automata Theory	C K Nagpal	Oxford University press, 2012

CO Outcomes: The students should be able to:

- Acquire fundamental understanding of the core concepts in automata theory and Theory of Computation
- Learn how to translate between different models of Computation (e.g., Deterministic and Non-deterministic and Software models).
- Design Grammars and Automata (recognizers) for different language classes and become knowledgeable about restricted models of Computation (Regular, Context Free) and their relative powers.
- Develop skills in formal reasoning and reduction of a problem to a formal model, with an emphasis on semantic precision and conciseness.
- Classify a problem with respect to different models of Computation.

Internal Assessment Marks :(40)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of three internal performances and 10 marks for assignment.

Three Assessment:

PERIODICAL TESTS:	ASSEMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(M-1 & M 2 FIRST HALF)	30
Assesment - II	Test-II(M-2 SECOND HALF & 3)	30
Assesment - III	Test-III(M-4 & M-5)	30

Periodical tests:

- Three Cycle test

External Marks: (100)

Students have to answer 5 questions out of 10 questions choosing EITHER- OR choice.

Program Outcomes mapping with Course

Automata Theory and Computability	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2		2								
CO2	1	3		3								
CO3	1	2		3								
CO4	1	2		3								
CO5	1	3		3								

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1= Slight (low)

V. V. S.
Faculty in Charge

V. V. S.
HOD

HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Tirupathi-517219.



ACS College of Engineering

Kambipura, Mysore Road, Bangalore-74

Dept. of Computer Science and Engineering

LESSON PLAN

Academic Year	2020-2021 (ODD SEM)
Semester	V - A
Subject Code	18CS55
Subject Title	APPLICATION DEVELOPMENT USING PYTHON
Faculty In-charge/Desgn./Dept.	Dr.Prasad A Y/Asst.Prof

Course Learning Objectives :

- Learn the syntax and semantics of Python programming language.
- Illustrate the process of structuring the data using lists, tuples and dictionaries.
- Demonstrate the use of built-in functions to navigate the file system.
- Implement the Object Oriented Programming concepts in Python.
- Appraise the need for working with various documents like Excel, PDF, Word and Others

Subject objectives:

Day	Modules & Topic of Discussion	Mode of delivery	Teaching Aids	Reference /Source
	Module 1			
Day 1	Python Basics, Entering Expressions into the Interactive Shell	Lecture	Black Board	T1
Day 2	The Integer, Floating-Point, and String Data Types, String Concatenation and Replication	Lecture	Black Board	T1
Day 3	Storing Values in Variables, Your First Program, Dissecting Your Program	Lecture	Black Board	T1
Day 4	,Flow control, Boolean Values, Comparison Operators	Lecture	Black Board	T1
Day 5	Boolean Operators,Mixing Boolean and Comparison Operators, Elements of Flow Control, Program Execution	Lecture	Black Board	T1
Day 6	Flow Control Statements, Importing Modules,Ending a Program Early with sys.exit(),	Lecture	Black Board	T1
Day 7	Functions, def Statements with Parameters, Return Values and return Statements,The None Value, Keyword Arguments and print()	Lecture	Black Board	T1
Day 8	, Local and Global Scope, The global Statement, Exception Handling, A Short Program: Guess the Number	Lecture	Black Board	T1

	Module 2			
Day 9	Lists, The List Data Type, Working with Lists, Augmented Assignment Operators	Lecture	Black Board	T1
Day 10	Methods, Example Program: Magic 8 Ball with a List, List-like Type	Lecture	Black Board	T1
Day 11	Strings and Tuples, References	Lecture	Black Board	T1
Day 12	Dictionaries and Structuring Data, The Dictionary Data Type, Pretty Printing	Lecture	Black Board	T1
Day 13	Using Data Structures to Model Real-World Things, Manipulating Strings	Lecture	Black Board	T1
Day 14	Working with Strings, Useful String Methods, Project	Lecture	Black Board	T1
Day 15	Password Locker	Lecture	Black Board	T1
Day 16	Project: Adding Bullets to Wiki Markup			
	Module 3			
Day 17	Pattern Matching with Regular Expressions, Finding Patterns of Text Without Regular Expressions, Finding Patterns of Text with Regular Expressions	Lecture	Black Board	T1
Day 18	More Pattern Matching with Regular Expressions, Greedy and Non-greedy Matching, The findall() Method	Lecture	Black Board	T1
Day 19	Character Classes, Making Your Own Character Classes, The Caret and Dollar Sign Characters, The Wildcard Character, Review of Regex Symbols	Lecture	Black Board	T1
Day 20	Case-Insensitive Matching, Substituting Strings with the sub() Method, Managing Complex Regexes, Combining re.IGNORECASE, re.DOTALL, and re.VERBOSE,	Lecture	Black Board	T1
Day 21	Project: Phone Number and Email Address Extractor, Reading and Writing Files, Files and File Paths, The os.path Module, The File Reading/Writing Process, Saving Variables with the shelve Module, Saving Variables with the pprint.pformat() Function,	Lecture	Black Board	T1
Day 22	Project: Generating Random Quiz Files, Project: Multiclipboard, Organizing Files, The shutil Module, Walking a Directory Tree, Compressing Files with the zipfile Module,	Lecture	Black Board	T1
Day 23	Project: Renaming Files with American-Style Dates to European-Style Dates, Project: Backing Up a Folder into a ZIP File	Lecture	Black Board	T1
Day 24	Debugging, Raising Exceptions, Getting the Traceback as a String, Assertions, Logging, IDLE's Debugger			T1
	Module 4			
Day 25	Classes and objects, Programmer-defined types, Attributes, Rectangles, Instances as	Lecture	Black Board	T2

	return values. Objects are mutable.			
Day 26	Copying, Classes and functions, Time, Pure functions, Modifiers, Prototyping versus planning,	Lecture	Black Board	T2
Day 27	Classes and methods, Object-oriented features, Printing objects, Another example,	Lecture	Black Board	T2
Day 28	A more complicated example. The init method, The <code>str</code> method, Operator overloading,	Lecture	Black Board	T2
Day 29	Type-based dispatch, Polymorphism, Interface and implementation	Lecture	Black Board	T2
Day 30	n. Inheritance, Card objects, Class attributes, Comparing cards, Decks, Printing the deck	Lecture	Black Board	T2
Day 31	Add, remove, shuffle and sort, Inheritance,	Lecture	Black Board	T2
Day 32	Class diagrams, Data encapsulation	Lecture	Black Board	T2
	Module 5			
Day 33	Web Scraping, Project: MAPIT.PY with the webbrowser Module, Downloading Files from the Web with the requests Module, Saving Downloaded Files to the Hard Drive	Lecture	Black Board	T1
Day 34	HTML, Parsing HTML with the BeautifulSoup Module, Project: "I'm Feeling Lucky"	Lecture	Black Board	T1
Day 35	Google Search, Project: Downloading All XKCD Comics, Controlling the Browser with the selenium Module	Lecture	Black Board	T1
Day 36	Working with Excel Spreadsheets, Excel Documents, Installing the openpyxl Module, Reading Excel Documents, Project: Reading Data from a Spreadsheet, Writing Excel Documents, Project: Updating a Spreadsheet	Lecture	Black Board	T1
Day 37	Setting the Font Style of Cells, Font Objects, Formulas, Adjusting Rows and Columns, Charts, Working with PDF and Word Documents, PDF Documents	Lecture	Black Board	T1
Day 38	Project: Combining Select Pages from Many PDFs, Word Documents, Working with CSV files and JSON data	Lecture	Black Board	T1
Day 39	, The csv Module, Project: Removing the Header from CSV Files, JSON	Lecture	Black Board	T1
Day 40	and APIs, The json Module, Project: Fetching Current Weather Data	Lecture	Black Board	T1

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Book	Automate the Boring Stuff with Python	Al Sweigart	1 st Edition, No Starch Press, 2015. (Available under CC-BY-NC-SA license at https://automatetheboringstuff.com/)
2		Think Python: How to Think Like a Computer Scientist	Allen B. Downey	2 nd Edition, Green Tea Press, 2015
1	Reference Books	Introduction to Python Programming	Gowrishankar S, Veena A	1 st Edition, CRC Press/Taylor & Francis, 2018. ISBN-13: 978-0815394372
2		Python Data Science Handbook: Essential Tools for Working with Data	Jake VanderPlas	1 st Edition, O'Reilly Media, 2016. ISBN-13: 978-1491912058
3		Core Python Applications Programming	Wesley J Chun	3rd Edition, Pearson Education India, 2015
4		1st Edition, Wiley India Pvt Ltd	1st Edition, Wiley India Pvt Ltd	1st Edition, Wiley India Pvt Ltd

Course Outcome:

- Demonstrate proficiency in handling of loops and creation of functions.
- Identify the methods to create and manipulate lists, tuples and dictionaries.
- Discover the commonly used operations involving regular expressions and file system.
- Interpret the concepts of Object-Oriented Programming as used in Python.
- Determine the need for scraping websites and working with CSV, JSON and other file formats.

Internal Assessment Marks :(30)

3 Internal Assessment Tests are conducted during the semester and marks allotted based on average of three performances and reduced to 30 marks.

10 marks for assignments and IIT bombay test . Totally 40 (30+10) marks.

Three Assessment:

PERIODICAL TESTS:	ASSESSMENT SCHEME	TOTAL MARKS
Assesment - I	Test-I(module 1 & 2)	30
Assesment - II	Test-II(module 3 & module 4 th half)	30
Assesment - III	Test-III(module 4 th half & 5)	30

i) Periodical tests:

- Three Cycle test

ii) Carry home exercise

- Given questions from all the modules to answer at home.

External Marks: (60)

Students have to answer all 5 questions.

Program Outcomes mapping with Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2	2	2							1
CO2	2	2	2	2	2							1
CO3	2	2	2	2	3							1
CO4	2	2	2	2	3							1
CO5	2	3	3	3	3							1

Note: 3 = Above Average (High) 2 = Average (Medium) 1 = Below Average (low)


Faculty in Charge


HOD

HOD
Dept. of C.S. & Engg.
ACS College of Engineering
Bangalore - 560 074.



ACS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

LESSON PLAN

Academic Year	2020- 2021(EVEN)
Semester	II
Subject Code	18CPS23
Subject Title	C programming for Problem Solving
Faculty In-charge/Desgn./Dept.	Dr.Prasad A Y / Asst Prof/ CSE

Subject objectives:

Day	Unit & Topic of Discussion	Mode of delivery	Teaching Aids	Reference/ Source
Module -1				
Day 1	Introduction To computer Hardware and software: Computer generations, Computer types	Lecture	PPT	T1
Day 2	bits, bytes and words	Lecture	Black Board,PPT	T1
Day 3	CPU, primary memory, secondary memory	Lecture	Black Board	T1
Day 4	ports and connections, input devices, output devices	Lecture	PPT	T1
Day 5	Computers in a network, Network hardware	Lecture	Black Board	T1
Day 6	Software basics, software types.	Lecture	Black Board	T1
Day 7	Basic structure of C program, executing a C program. Constant, variable and data types	Lecture	Black Board,PPT	T1
Day 8	Operators and expressions	Lecture	Black Board,PPT	T1
Module -2				
Day 9	Managing Input and output operations.	Lecture	Black Board,PPT	T1
Day 10	Conditional Branching	Lecture	Black Board,PPT	T1
Day 11	Conditional Branching ent...	Lecture	Black Board,PPT	T1
Day 12	Loops, Example programs	Lecture	BlackBoard	T1
Day 13	Finding roots of a quadratic equation	Lecture	Black Board,PPT	T1
Day 14	computation of binomial coefficients	Lecture	Black Board,PPT	T1
Day 15	Plotting of pascals triangle.	Lecture	Black Board,PPT	T1
Day 16	Programming examples and exercises.	Lecture	Black Board,PPT	T1
Module -3				
Day 17	Arrays: Single dimensional Arrays (1-D)	Lecture	Black Board,PPT	T1
Day 18	Two dimensional Arrays (2-D)	Lecture	Black Board,PPT	T1

Day 19	character arrays and Strings	Lecture	Black Board,PPT	T1
Day 20	Basic Algorithms: Searching and sorting algorithms Linear search	Lecture	Black Board,PPT	T1
Day 21	Binary search	Lecture	Black Board,PPT	T1
Day 22	Bubble sort and Selection sort	Lecture	Black Board,PPT	T1
Day 23	Programming examples and exercises	Lecture	Black Board,PPT	T1
Day 24	Programming examples and exercises	Lecture	Black Board,PPT	T1
Module -4				
Day 25	User Defined Functions	Lecture	Black Board,PPT	T1
Day 26	Recursion	Lecture	Black Board,PPT	T1
Day 27	Example programs	Lecture	Black Board	T1
Day 28	Finding Factorial of a positive integers	Lecture	Black Board,PPT	T1
Day 29	Fibonacci series	Lecture	Black Board,PPT	T1
Day 30	Programming examples and exercises.	Lecture	Black Board,PPT	T1
Day 31	Programming examples and exercises.	Lecture	Black Board,PPT	T1
Day 32	Programming examples and exercises.	Lecture	Black Board,PPT	T1
Module -5				
Day 33	Structure: Basic of structures, structures and Functions	Lecture	Black Board,PPT	T1,T2
Day 34	Array of structures	Lecture	Black Board,PPT	T1,T2
Day 35	structure Data types	Lecture	Black Board,PPT	T1,T2
Day 36	Pointers: pointers and functions (call by reference) Arguments.	Lecture	Black Board,PPT	T1,T2
Day 37	Pointers and arrays.	Lecture	Black Board,PPT	T1,T2
Day 38	pointers to pointer ,Initialization of pointer arrays,	Lecture	Black Board,PPT	T1,T2
Day 39	Preprocessor Directives	Lecture	Black Board,PPT	T1,T2
Day 40	Programming examples and exercises.	Lecture	Black Board,PPT	T1,T2

Sl. No.		Name of Book	Author Name	Publication
1	Prescribed Books	Programming in ANSI C	E. Balaguruswamy	7 th Edition, TMH
2		The C Programming Language	Brian W. Kernighan and Dennis M. Ritchie	2 nd Editions, PHI, 2012.
3	Reference Books	Computer Fundamentals & C Programming	Sumitabha Das	Mc Graw Hill Education
4		ANSI C Programming	Gary J Bronson	4 th Edition, Ceneage Learning
5		Programming in C	Dey and Ghosh	3 rd Edition, Oxford University Press
6		Computer Concepts and C Programming	Vikas Gupta	Dreamtech Press 2013

7	Programming with C	R S Bichkar	University Press, 2013
8	Computer Programming in C	V. Rajaraman	PHI, 2013
9	Computer Concepts and C Programming	Basavaraj S. Anami, Shanmukhappa A Angadi, Sunilkumar S. Manvi	A Holistic Approach to Learning C, Second edition, PHI India, 2010

Course outcomes: The students should be able to:

- Illustrate simple algorithm from the different domains such as mathematical, physics etc.
- construct a programming solution to the given problem using C
- Identify and correct the syntax and logical errors in C Programs
- Modularize the given problem using function and structure

Internal Assessment Marks :(30+10)

3 Internal Assessment Tests are conducted during the semester. Internal are conducted for 50 marks and then reduced to 30 marks. Marks allotted based on average of three Internal .Ten marks for assignment (3 assignment will be given).

Three Assessments:

PERIODICAL TESTS:	ASSESMENT SCHEME	TOTAL MARKS
Assessment - I	Test-I(M-1 & M 2 first half)	30
Assessment - II	Test-II(M-2 second half & 3)	30
Assessment - III	Test-III(M-4 & M-5)	30

External Marks: (60)

Students have to answer 5 questions out of 10 questions choosing EITHER- OR choice.

Program Outcomes mapping with Course

18CPS13	Program Outcomes											
	Po1	Po2	Po3	Po4	Po5	Po6	Po7	Po8	Po9	Po10	Po11	Po12
CO1	1	2	3	3								
CO2	1	2	3	3								
CO3	1	2	3	3								
CO4	1	2	3	3								

Note: 3 = Substantial (High) 2 = Moderate (Medium) 1= Slight (low)

Faculty in Charge
[Dr.Prasad A Y]

HOD

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Calender of Events for Even semesters(2016-17)

From 13/02/2017 To 2/06/2017

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB	13	14	15	16	17	18	6	
2	FEB	20	21	22	23		25	5	24- Mahashivrathri (H)
3	FEB-MAR	27	28	1	2	3	4	6	3-Workshop on NS-2 6-Health awareness program for the children of orphanage visit
4	MAR	6	7	8	9	10		5	11- Second Saturday (H)
5	MAR		14	15	16	17	18	5	13 - Holi (H)
6	MAR	20	21	22	23			6	16,17,18 - I Internal Test
7	MAR-APR	27	28		30	31	1	5	24,25 - Sports Day
8	APR	3	4	5	6	7		5	29- Ugadi (H)
9	APR	10	11	12	13		15	5	8- Second Saturday
10	APR	17	18	19	20	21	22	6	14 - Ambedkar Jayanthi (H)
11	APR	24	25	26	27	28		5	24,25,26 - II Internal Test 29 - Basava Jayanthi
12	APR-MAY		2	3	4	5	6	5	1- May Day
13	MAY	8	9	10	11	12		5	
14	MAY	15	16	17	18	19	20	6	
15	MAY	22	23	24	25	26	27	6	22,23,24- Lab Internals 26,27- III Internal Test
16	MAY-JUN	29	30	31	1	2	3	6	29,30,31- III Internal Test
Total Number of working Days								87	

Last working day of Even semester : 2/06/17

UG-Practical Examinations : 17/7/2017 to 26/7/2017

UG-Theory Examinations : 16/06/2017 to 15/07/2016

Comencement of ODD SEM : 7/8/2017

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Calendar of Events for Odd semesters(2017-18)

From 07/08/2017 To 25/11/2017

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG	7	8	9	10	11	12	6	
2	AUG	14	15	16	17	18	19	4	15-Independence Day / ALUMINI DAY 17-Talk on contemporary issues 19-Third Saturday (H)
3	AUG	21	22	23	24	25	26	5	25 - Ganesh Chaturthi(H)
4	AUG-SEP	28	29	30	31	1	2	5	2 - Bakrid(H)
5	SEP	4	5	6	7	8	9	6	5- Graduation Day
6	SEP	11	12	13	14	15	16	5	13,14,15 - I Internal Test Third Saturday(H)
7	SEP	18	19	20	21	22	23	5	21-National level student symposium 19- Mahalaya Amavasi
8	SEP	25	26	27	28	29	30	4	29- Durga ashtami(H) ; 30 - Vijayadasami(H)
9	OCT	2	3	4	5	6	7	3	2- Gandhi Jayanthi (H); 5 - Valmiki Jayanthi (H) ; 7 - First Saturday(H)
10	OCT	9	10	11	12	13	14	6	13-Department association
11	OCT	16	17	18	19	20	21	3	16-Industrial visits 18-Naraka Chaturthi (H) . 20 -Vikramamavath New Year (H); 21 - Third Saturday (H)
12	OCT	23	24	25	26	27	28	6	17-Awareness program on contemporary issues 26-Technical talk 24-Industry visit 28- II Internal Test
13	OCT-NOV	30	31	1	2	3	4	4	30,31 - II Internal Test ; 1- Kannada Rajathava (H) 4 - First Saturday(H)
14	NOV	6	7	8	9	10	11	5	11-Industrial Visit 6 - Kanakadasa Jayanthi(H)
15	NOV	13	14	15	16	17	18	5	13-Work shop 18-Third Saturday (H)
16	NOV	20	21	22	23	24	25	6	23-National conference 20,21,22 - III Internal Test
17	NOV	27	28	29	30				
18									
19									
20									
Total Number of working Days								78	
Last working day of Odd semester : 25/11/2017									
UG-Practical Examinations : 29/11/2017 to 8/12/2017									
UG-Theory Examinations : 11/12/2017 to 10/1/2017									
Comencement of Even SEM :1/2/2018									

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Calendar of Events for Even semester (2017-18)

From 05/02/2018 To 26 /05/2018

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB	5	6	7	8	9	10	5	10 - Second Saturday(H)
2	FEB	12	13	14	15	16	17	5	13-Mahasivarathri (H)
3	FEB	19	20	21	22	23	24	6	
4	FEB-MAR	26	27	28	1	2	3	5	3- First Saturday (H)
5	MAR	5	6	7	8	9	10	6	8- Womens Day
6	MAR	12	13	14	15	16	17	5	17-Third Saturday(H)
7	MAR	19	20	21	22	23	24	6	19,20,21 - I Internal Test
8	MAR	26	27	28	29	30	31	3	29-Mahaveer Jayanti (H); 30 - Good Friday(H) ; 31 - Link Holiday
9	APR	2	3	4	5	6	7	6	5,6,7 - Sports Day
10	APR	9	10	11	12	13	14	5	14 - Ambedkar Jayanthi(H)
11	APR	16	17	18	19	20	21	4	18 - Basava Jayanthi (H)
12	APR	23	24	25	26	27	28	6	26,27 - Cultural Day
13	APR-MAY	30	31	1	2	3	4	5	1- May Day (H) 2,3,4 - II Internal Test
14	MAY	7	8	9	10	11	12	5	12-Karnataka Election
15	MAY	14	15	16	17	18	19	5	19 - Third Saturday (H)
16	MAY	21	22	23	24	25	26	6	21,22,23 - III Internal Test
17	MAY	28	29	30	31				
18									
19									
20									
Total Number of working Days								83	
Last working day of Odd semester : 26/05/2021									
UG-Practical Examinations : 28/05/2018 to 7/06/2018									
UG-Theory Examinations : 11/06/2018 to 14/06/2018									

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Calendar of Events for Odd semester (2018-19)

From 1/08/2018 To 30/11/2018

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG			1	2	3		3	4-First Saturday(h)
2	AUG	6	7	8	9	10	11	6	
3	AUG	13	14		16	17		4	15- Independence Day(h) ; 18 - Third Saturday(h)
4	AUG	20	21		23	24	25	5	22- Bakrid(h)
5	AUG-SEP	27	28	29	31	31		5	31-Graduation Day ; 1 - First Saturday (h)
6	SEP	3	4	5	6	7	8	6	8- I Internal Test
7	SEP	10	11	12		14		4	10,11,12- I Internal Test ; 13 - Ganesh Chaturthi (H); 15-Third Saturday(H)
8	SEP	17	18	19	20		22	5	21-Muharam (H)
9	SEP	24	25	26	27	28	29	6	
10	OCT	1		3	4	5		4	2- Gandhi Jayanthi (H); 6 - First Saturday(h)
11	OCT		9	10	11	12	13	5	8- Mahalaya Amavasya(H)
12	OCT	15	16	17				3	17-23-5days workshop. 18,19 - Ayudha Pooja(H); 20 - Third Saturday(H)
13	OCT	22	23		25	26	27	5	24- Valmiki Jayanthi (H); 25,26,27- II Internal Test
14	OCT-NOV	29	30	31		2		4	29 and 30-National level symposium "SYNC-CARDIA"
15	NOV	5		7		9	10	4	1-Rajyotsava Day (H); 3 - First Saturday (H) 6- Naraka Chaturthi(H) ; 8 - Balipadyami(H)
16	NOV	12	13	14	15	16		5	17-23_5 day workshop on Internet of Things 17- Third Saturday (H)
17	NOV	19	20		22	23	24	5	21- ID Meelad (H)
18	NOV		27	28	29	30		4	30-National level symposium "SYNC-CARDIA" 26-Kanakadasa Jayanthi (H); 27,28,29 - III Internal Test
19									
20									
Total Number of working Days								83	
Last working day of Odd semester : 30/11/2018									
UG-Practical Examinations : 3/12/2018 to 14/12/2018									
UG-Theory Examinations : 17/12/2018 to 18/12/2018									
Commencement of Even SEM :1/2/2019									

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Calendar of Events for EVEN semester (2018-19)

From 01/02/2019 To 23 /05/2019

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB							1	
2	FEB	4	5	6	7	8	9	6	2-First Saturday (H)
3	FEB	11	12	13	14	15		5	11-15_5 days training session "India smart city Micro accelerator program-U.C Berkeley
4	FEB	18		20	21	22	23	5	16 - Third Saturday (H)
5	FEB-MAR	25	26	27	28	1		5	19-Guru Raviddasa Jayanti (H)
6	MAR		5	6	7	8	9	5	26-Technical talk on Equipments in Radiology"
7	MAR	11	12	13	14	15		5	2-First Saturday (H)
8	MAR	18	19	20	21	22	23	6	4-Mahashivarathi (H)
9	MAR	25	26	27	28	29	30	6	11,12,13 - I Internal Test ; 16 - Third Saturday(H)
10	APR	1	2	3	4	5		5	22,23 - Sports Day
11	APR	8	9	10	11	12	13	6	26-Technical talk on Introduction to healthcare analytics
12	APR	15	16		18			3	2-Technical talk on Advancements and Innovation in the healthcare industry by Med tech and Non med-tech
13	APR	22	23	24	25	26	27	6	4- First Saturday (H)
14	APR-MAY	29	30		2	3		4	10,11,12,13- II Internal Test
15	MAY	6		8	9	10	11	5	15,16 - Cultural Day ; 17 - Mahaveer Jayanthi(h) 19- Good Friday(H) 20 - Third Saturday(H)
16	MAY	13	14	15	16	17		5	2-3_ Workshop on signal and image processing using LABVIEW
17	MAY	20	21	22	23	24	25	4	29-International health day 1-May Day(H); 4- First Saturday(H)
18									7- Ravana Jayanthi(H);
19									15,16,17 - III Internal Test ; 18-Third Saturday(h)
20									
Total Number of working Days								82	
Last working day of Even semester : 23/05/2019									
UG-Practical Examinations : 27/05/2019									
UG-Theory Examinations : 10/06/2019 to 16/07/2019									
Comencement of ODD SEM : 22/07/2019									

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Calender of Events for ODD semester (2019-2020)

From 01/08/2019 To 29 /11/2019

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG				1	2		2	3- First Saturday(H)
2	AUG	5	6	7	8	9	10	6	
3	AUG		13	14		16		3	12-Bakrid (H); 15- Independence Day(H) ; 17 - Third Saturday(H)
4	AUG	19	20	21	22	23	24	6	
5	AUG	26	27	28	29	30	31	6	
6	SEP		3	4	5	6	7	5	2- Ganesh Chathurthi (H) ; 4,5,6 - I Internal Test
7	SEP	9		11	12	13	14	6	10 - Muharam (H)
8	SEP	16	17	18	19	20		5	21-Third Saturday (H)
9	SEP	23	24	25	26	27		5	25-Workshop on mat lab basics and image processing 28-Mahalaya Amavasi(H)
10	SEP-OCT	30	1		3	4		4	2- Gandhi Jayanthi (H); 5- First Saturday(H)
11	OCT			9	10	11	12	4	7,8 :-Ayutha Pooja (H)
12	OCT	14	15	16	17	18	19	6	
13	OCT	21	22	23	24	25	26	6	24,25,26 - II Internal Test
14	OCT-NOV	28		30	31			3	29- Balipadyami; 1- Rajyotsava Day, 2 - First Saturday
15	NOV	4	5	6	7	8	9	6	4-Industrial and practical exposure
16	NOV	11	12	13	14			4	15- Kanakadasa Jayanthi ; 16 - Third Saturday
17	NOV	18	19	20	21	22	23	6	
18	NOV	25	26	27	28	29	30	6	27,28,29 - III Internal Test
19									
20									
Total Number of working Days								89	
Last working day of Odd semester : 30/11/2019									
UG-Practical Examinations : 03/12/2019-13/12/2019									
UG-Theory Examinations : 6/12/2019-7/2/2020									
Comencement of Even SEM :10/2/2020									

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Calender of Events for ODD semester (2019-2020)

From 01/08/2019 To 29 /11/2019

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG				1	2		2	3- First Saturday(H)
2	AUG	5	6	7	8	9	10	6	
3	AUG		13	14		16		3	12-Bakrid (H); 15- Independence Day(H) ; 17 - Third Saturday(H)
4	AUG	19	20	21	22	23	24	6	
5	AUG	26	27	28	29	30	31	6	
6	SEP		3	4	5	6	7	5	2- Ganesh Chaturthi (H) ; 4,5,6 - I Internal Test
7	SEP	9		11	12	13	14	6	10 - Muharam (H)
8	SEP	16	17	18	19	20		5	21-Third Saturday (H)
9	SEP	23	24	25	26	27		5	25-Workshop on mat lab basics and image processing 28-Mahalaya Amavasi(H)
10	SEP-OCT	30	1		3	4		4	2- Gandhi Jayanthi (H); 5- First Saturday(H)
11	OCT			9	10	11	12	4	7,8 :-Ayutha Pooja (H)
12	OCT	14	15	16	17	18	19	6	
13	OCT	21	22	23	24	25	26	6	24,25,26 - II Internal Test
14	OCT-NOV	28		30	31			3	29- Balipadyami; 1- Rajyotsava Day, 2 - First Saturday
15	NOV	4	5	6	7	8	9	6	4-Industrial and practical exposure
16	NOV	11	12	13	14			4	15- Kanakadasa Jayanthi ; 16 - Third Saturday
17	NOV	18	19	20	21	22	23	6	
18	NOV	25	26	27	28	29	30	6	27,28,29 - III Internal Test
19									
20									
Total Number of working Days								89	
Last working day of Odd semester : 30/11/2019									
UG-Practical Examinations : 03/12/2019-13/12/2019									
UG-Theory Examinations : 6/12/2019-7/2/2020									
Comencement of Even SEM :10/2/2020									

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Calender of Events for EVEN semesters(2019-20)

From 10/02/2020 To 1/06/2020

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB	10	11	12	13	12			15-Third Saturday (H)
2	FEB	17	18	19	20		22		21- Mahashivarathri(H)
3	FEB	24	25	26	27	28	29		
4	MAR	2	3	4	5	6			6-Swatch Bharat Abhiyaan vist to BHEEMAN KUPPE LAKE 7- First Saturday (H)
5	MAR	9	10	11	12	13	14		10-WORKSHOP ON Mat lab interface with GUI 12,13,14 - I Internal Test
6	MAR	16	17	18	19	20			21- Third Saturday(H)
7	MAR	23	24		26	27	28		25-Ugadi(H) ; 27,28 - Sports Day,27-Govt School Visit
8	MAR-APR	30	31	1	2	3			4- First Saturday(H)
9	APR		7	8	9		11		6- Mahavira Jayanthi (H) ; 10- Good Friday(H); 11-II Internal Test
10	APR	13		15	16	17			13,15 -II Internal Test; 14 - Ambedkar Jayanti, 18-Third Saturday
11	APR	20	21	22	23	24	25		
12	APR-MAY	27	28	29	30				1-May Day ,2 -First Saturday,Technical talk on opportunities for a biomedical engineer
13	MAY	4	5	6	7	8	9		8,9 - Cultural Day
14	MAY	11	12	13	14	15			16- Third Saturday
15	MAY	18	19	20	21	22	23		18-Technical talk on Biomedical Job Opportunities in India 21,22,23 - III Internal Test
16	MAY		26	27	28	29	30		25 - Ramzan ; 26,27,28 - Lab Internal Test HIGHER EDUCATION IN GERMANY
17	JUN	1	2	3	4	5	6		
18									
19									
20									
Total Number of working Days								0	
Last working day of Even semester : 1/06/2020									
UG-Practical Examinations : 3/06/2020 to 13/06/2020									
UG-Theory Examinations : 15/06/2020 to 20/07/2020									
Comencement of ODD SEM : 27/7/2020									



ACS COLLEGE OF ENGINEERING

Kambipura, Bengaluru-560074.

DEPARTMENT OF BIOMEDICAL ENGINEERING

VI SEMESTER - CRASH COURSE CLASS TIME TABLE -2016 - 2017 (EVEN)(07.02.2017)

ROOM NO: 402

CLASS TEACHER : Mrs Surekha Nigudgi

Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM	
MON	DSP	API	TEA BREAK	C++	CI-II	Lunch Break	<---CI-II/C++ LAB (B1/B2)--->			
TUE	CI-II	API		DSP	HM		DSP/ Tutorial	<---CI-II SRCS-->		
WED	API	DSP		CS	HM		DSP/ Tutorial	C++/tutorial	P & T	
THU	CS	CI-II		C++	API		<---CI-II/C++ LAB (B2/B1)--->			
FRI	C++	HM		CI-II	CS		API	CS/tutorial I	P & T	
SAT	HM	CS		DSP	C++		Embedded C & BM opp			
Sub Code	Name of the Subject				Name of the Faculty		Signature			
10BM61	Communication Systems				Ms. Prathibha.T.P					
10BM62	C++ and Data Structures				Mrs. Surekha Nigudgi					
10BM63	Digital Signal Processing and Applications				Mrs. Vamsha Deepa					
10BM64	Analytical and Pharmaceutical Instrumentation				Dr. Anitha.S					
10BM65	Clinical Instrumentation - II				Mr. Naveen.T.S		Naveen T.S.			
10BM666	Hospital Management				Mr. Hemanth kumar G					
10BML67	C++ and Data Structures Lab				Mrs. Surekha Nigudgi					
10BML68	Clinical Instrumentation Lab II				Mr. Naveen.T.S		Naveen T.S.			

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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ACS COLLEGE OF ENGINEERING
Kambipura, Bengaluru-560074.
DEPARTMENT OF BIOMEDICAL ENGINEERING

VI SEMESTER - CRASH COURSE CLASS TIME TABLE -2017 - 2018 (EVEN)(07.02.2018)

ROOM NO: 402

CLASS TEACHER : Mrs Surekha Nigudgi

Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM	
MON	DSP	API	TEA BREAK	C++	CI-II	Lunch Break	<---CI-II/C++ LAB (B1/B2)--->			
TUE	CI-II	API		DSP	HM		DSP/ Tutorial	<---CI-II SRCS--->		
WED	API	DSP		CS	HM		DSP/ Tutorial	C++/tutorial	P & T	
THU	CS	CI-II		C++	API		<---CI-II/C++ LAB (B2/B1)--->			
FRI	C++	HM		CI-II	CS		API	CS/tutorial I	P & T	
SAT	HM	CS		DSP	C++		Embedded C & BM opp			
Sub Code	Name of the Subject				Name of the Faculty		Signature			
10BM61	Communication Systems				Ms. Prathibha.T.P					
10BM62	C++ and Data Structures				Mrs. Surekha Nigudgi					
10BM63	Digital Signal Processing and Applications				Mrs. Vamsha Deepa					
10BM64	Analytical and Pharmaceutical Instrumentation				Dr. Anitha.S					
10BM65	Clinical Instrumentation - II				Mr. Naveen.T.S		Naveen T.S.			
10BM666	Hospital Management				Mr. Hemanth kumar G					
10BML67	C++ and Data Structures Lab				Mrs. Surekha Nigudgi					
10BML68	Clinical Instrumentation Lab II				Mr. Naveen.T.S		Naveen T.S.			

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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**ACS COLLEGE OF ENGINEERING**

Kambipura, Bengaluru-560074.

DEPARTMENT OF BIOMEDICAL ENGINEERING**III SEMESTER - CLASS TIME TABLE 2018- 2019 (With Effect From 01.08.2018)**

ROOM NO: 303/ All tution hours are held in Seminar hall/B-423 (BMDSP lab)							CLASS TEACHER: Ms. Prathibha.T.P			
Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04:00	
Day										
MON	DDHDL	AEC	TEA BREAK	EI	NA	Lunch Break	AEC(B1)/LD(B2) LAB			
TUE	NA	M3		HAP	AEC		AEC	DDHDL(TUT)	M3(TUT)	
WED	HAP	M3		DDHDL	EI		AEC(B2)/LD(B1) LAB			
THU	AEC	M3		EI	NA		AEC(TUT)	DDHDL	EI	
FRI	EI	NA		AEC	DDHDL		M3	DDHDL	HAP	
SAT	HAP	HOSPITAL		HOSPITAL VISIT			Kannada/CPH	Technical club/Hemanth Kumar		
Sub Code	Name of the Subject				Name of the Faculty		Signature			
17MAT31	Engineering Mathematics-III				Dr. Pradeep kumar K T					
17BM32	Electronic Instrumentation And Measurements				Mrs. Gayatri Joshi					
17BM33	Analog Electronics Circuits				Mr. Hemanth kumar.G					
17BM34	Digital Design and HDL				Ms. Prathibha T P					
17BM35	Human Anatomy and Physiology				Mr. Naveen.T.S					
17BM36	Network Analysis				Mr. H R Vijay Kumar					
17ESL37	Analog Electronics Lab				Mr. Hemanth kumar.G/ Mrs Nanditha					
17ESL38	Digital Design and HDL Lab				Ms. Prathibha T P					
17KL / CPH39/49	Kannada / Constitution of India, Professional Ethics and Human Rights				Dr. JYOTHI LINGAIH					

HOD

Head of Department
Bio Medical Engineering
ACS College of Engineering
Bangalore - 560 074.

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Principal

A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074



ACS COLLEGE OF ENGINEERING

Kambipura, Bengaluru-560074.

DEPARTMENT OF BIOMEDICAL ENGINEERING

V SEMESTER - CLASS TIME TABLE 2018- 2019 (With Effect From 01.08.2018)

ROOM NO: 305/ All tuition hours are held in Seminar hall/B-423 (BMDSP lab)							CLASS TEACHER: Mr. Naveen .T.S		
Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04:00
Day									
MON	VB	BME	Tea Break	SS & DSP	RE	Lunch Break	VB(TUT)	CI-1(TUT)	RE(TUT)
TUE	RE	ME		VB	BME		SCC lab (B1)/CI lab(B2)		
WED	SS & DSP	RE		CI-1	VB		BME	CI-1	RE
THU	VB	SS & DSP		CI-1	ME		SCC lab (B2)/CI lab(B1)		
FRI	ME	SS & DSP		CI-1	BME		ME (TUT)	SS & DSP (TUT)	BME(TUT)
SAT	ME	HOSPITAL VISIT (CI-		HOSPITAL VISIT (CI-1 / B)			Level-2 : Product development and Equipment Servicing lab		
Sub Code	Name of the Subject				Name of the Faculty		Signature		
15ES51	Management & Entrepreneurship				Mr. Hemanth Kumar G				
15BM52	Fundamentals of Signals & DSP				Ms. Prathibha T.P.				
15BM53	Clinical Instrumentation-I				Mr. Naveen T.S.				
15BM54	Biomedical Equipments				Mrs. Surekha Nigudgi				
15BM52	Rehabilitation Engineering(Professional Elective)				Dr. Anitha S				
15BM562	Virtual Bio Instrumentation (Open Elective)				Dr. Punal M Arabi				
15BML57	Signal Conditioning Circuits and Data Acquisition Lab				Mrs. Surekha, Mrs Nanditha				
15BML58	Clinical Instrumentation Lab				Mr. Naveen.T.S				

HOD
Head of Department
Bio Medical Engineering
ACS College of Engineering
Bangalore - 560 074.

Principal
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074

**ACS COLLEGE OF ENGINEERING**

Kambipura, Bengaluru-560074.

DEPARTMENT OF BIOMEDICAL ENGINEERING**VII SEMESTER - CLASS TIME TABLE 2018- 2019 (With Effect From 01.08.2018)****ROOM NO: 304 /ARM theory classes are held at BMDSP lab (B-423) and all tuton hours are held in Seminar hall/B-423**

							CLASS TEACHER: Mrs. GAYATHRI JOSHI		
Time	08.30 to 09.30	09.30 to 10.30	10.30 to 10.45	10.45 to 11.45	11.45 to 12.45	12.45 to 01.30	01.30 to 02.20	02.20 to 03.10	03.10 to 04:00
Day									
MON	BMDSP	CCN	TeaBreak	ARM	BS	Lunch Break	ARM(TUT)	BS	LOF
TUE	ARM	Lab		ARM Lab			BMDSP lab		
WED	ARM	LOF		BS	ARM		CCN	Journal Writing	
THU	BMDSP	BS		CCN	LOF		PROJECT- PHASE 1		
FRI	LOF	CCN		BMDSP	BS		LOF(TUT)	BMDSP(TUT)	CCN(TUT)
SAT	BMDSP	Technical Club/Surekha N		Technical Club/Surekha N			Level-3 : Product development and Equipment Servicing lab		
Sub Code	Name of the Subject				Name of the Faculty			Signature	
15BM71	Biomedical Digital Signal Processing				Mrs. Gayathri Joshi			<i>Gayathri Joshi</i>	
15BM72	Computer Communication in Health care				Dr. Anitha S			<i>Anitha S</i>	
15BM73	ARM processor				Dr. Arul Nambi			<i>Arul Nambi</i>	
15BM744	PE- III(Biometric systems)				Mrs. Surekha Nigudgi			<i>Surekha Nigudgi</i>	
15BM752	PE -IV(Lasers and optical fibers in medicine)				Dr. Punal M Arabi			<i>Punal M Arabi</i>	
15BML76	Biomedical DSP Lab				Mrs. Gayathri Joshi			<i>Gayathri Joshi</i>	
15BML77	ARM processor-LAB				Mrs. Gayathri Joshi			<i>Gayathri Joshi</i>	
15BMP78	Project work phase-1 + Project seminar				Dr. Anitha S and Mrs Nanditha				

P. Nanditha
HODHead of Department
Bio Medical Engineering
ACS College of Engineering
Bangalore - 560 074.*P. Nanditha*
PRINCIPAL
PrincipalA.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074



ACS COLLEGE OF ENGINEERING
DEPARTMENT OF BIOMEDICAL ENGINEERING
INDIVIDUAL WORK LOAD FOR THE ODD SEMESTER OF 2018-19
STUDENT STRENGTH: III SEM (35), V SEM (30), VII SEM (13)

S.NO	NAME OF THE FACULTY WITH DESIGNATION	SEM	NAME OF THE SUBJECT WITH CODE		NO. OF HOURS		NO. OF UNITS		TOTAL LOAD IN UNITS		TOTAL NO. OF UNITS (THEORY + LAB)
			THEORY	LAB	THEORY	LAB	THEORY	LAB	THEORY	LAB	
1	DR.PUNAL.M.ARABI (PROF & HOD)	V	ELECTIVE -2 VIRTUAL BIOINSTRUMENTATION (15BM562)	-	5		5X2 =10	-	10	-	20
		VII	ELECTIVE LASERS & OPTICAL FIBERS IN MEDICINE	-	5		5X2 =10		10		
2	DR.ANITHA S	VII	CCN(15BM72)	-	5		5X2 =10	-	10	-	23
		V	ELECTIVE-I REHABILITATION ENGINEERING(15BM552)	-	5		5X2 =10		10		
		VII	PROJECT PHASE 1 and SEMINAR 1(15BMP78)	-		3		3X1=3		3	
3	DR. ARUL NAMBI	VII	ARM PROCESSOR(15BM73)	-	5		5X2 =10	-	-	-	10
4	MS.PRATHIBA T.P (ASST.PROF)	V	FUNDAMENTALS OF SS&DSP (15BM52)	ARM PROCESSOR LAB (15BML78)	5	6	5X2 =10	3X1=3	20	6	20+6=26
		III	DD&HDL	DD & HDL LAB(15BML38)	5	-	5X2 =10	3X1=3			
5	MRS.SUREKHA NIGUDGI (ASST.PROF)	V	BME(15BM54)	SIGNAL CONDITIONG AND DATA ACQUISITION LAB(15BML57)	5	6	5X2 =10	3X2=6	20	6	20+6=26
		VII	ELECTIVE-2 BIOMETRIC SYSTEMS(15BM744)	-	5	-	5X2 =10	-			



DEPARTMENT OF BIOMEDICAL ENGINEERING

IV SEMESTER - CLASS TIME TABLE - 2019 - 2020 EVEN (With Effect From 10.02.2020)

ROOM NO: 305

CLASS TEACHER: Mrs Nanditha Krishna

Time -- Day	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30	01.30 to 02.30	02.30 to 03.30	03.30 to 04:30
MON	18BM44	18BM43	TEA BREAK	18MAT41	18BM46	LUNCH BREAK	18BM45	18BM43	MENTORING
TUE	18BM44	18BM46		18BM42	18MAT41		←-EC(B1)/BMT(B2)-→		
WED	18BM43	18BM42		18BM44	18BM46		18MAT41	18BM43	18BM45
THU	18BM46	18BM45		18BM43	18MAT41		←-EC(B2)/BMT(B1)-→		
FRI	18BM42	18CPH49		18BM45	18MAT41		18BM44	18BM42	18BM44
SAT	←-CLASSES AS PER			CALENDER OF EVENTS-->					

Sub Code	Name of the Subject	Name of the Faculty	Signature
18MAT41	COMPLEX ANALYSIS ,PROBABILITY AND STATISTICAL METHODS	Maths Faculty	
18BM42	SIGNAL CONDITIONING & DATA ACQUISITION CIRCUITS	Mrs Surekha Nigudgi	
18BM43	EMBEDDED CONTROLLERS	Mrs. Nanditha Krishna	
18BM44	CONTROL SYSTEMS	Mrs Gayatri Joshi	
18BM45	BIOMEDICAL TRANSDUCERS & INSTRUMENTATION	Mr Hemanth kumar.G	
18BM46	SCIENTIFIC & ANALYTICAL INSTRUMENTATION	Mr Shashidhar Joshi	

18BML47	EMBEDDED CONTROLLERS LAB	Mrs. Nanditha K...	<i>[Signature]</i>
18BML48	BIOMEDICAL TRANSDUCERS & MEASUREMENTS LAB	Mr Hemanth kumar.G	<i>[Signature]</i>
18CPH49	CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS	RRCE Faculty	<i>[Signature]</i>

[Signature]
HOD

Head of Department
Bio Medical Engineering
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[Signature]
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DEPARTMENT OF BIOMEDICAL ENGINEERING

VI SEMESTER - CLASS TIME TABLE - 2019 - 2020 EVEN (With Effect From 10.02.2020)

CLASS TEACHER: Mrs Surekha Nigudgi

ROOM NO: 304

Time ----- Day	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 M	11.45 to 12.45 PM	12.45 to 01.30	01.30 to 02.30	02.30 to 03.30	03.30 to 04:30
MON	17BM66X	17BM63	TEA BREAK	17BM62	17BM61	LUNCH BREAK	<--MIP(B1)/C++(B2) lab-->		
TUE	17BM63	17BM65X		17BM62	17BM66X		17BM63	17BM62	MENTORING
WED	17BM64	17BM66X		17BM61	17BM65X		<--MIP(B2)/C++(B1) lab-->		
THU	17BM61	17BM65X		17BM63	17BM64		17BM63	17BM62	17BM66X
FRI	17BM62	PLACEMENT		17BM64	17BM61		17BM64	17BM61	17BM66X
SAT	<--CLASSES AS PER			CALENDER OF EVENTS-->					
Sub Code	Name of the Subject			Name of the Faculty		Signature			
17BM61	ANALOG & DIGITAL COMMUNICATION SYSTEM			Mrs Nanditha Krishna		<i>Nanditha</i>			
17BM62	MEDICAL IMAGE PROCESSING			Mrs Gayatri Joshi		<i>Gayatri</i>			
17BM63	OOPS WITH C++			Mrs Surekha Nigudgi		<i>Surekha</i>			
17BM64	CLINICAL INSTRUMENTATION II			Dr Anitha.S		<i>Anitha</i>			
17BM65X	PROFESSIONAL ELECTIVE II			Dr Punal.M.Arabi		<i>Punal</i>			
17BM66X	OPEN ELECTIVE II			Mr Shashidhar Joshi		<i>Shashidhar</i>			
17BML67	MEDICAL IMAGE PROCESSING LAB			Mrs Gayatri Joshi		<i>Gayatri</i>			
17BML68	OOPS WITH C++ LAB			Mrs Surekha Nigudgi		<i>Surekha</i>			



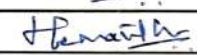

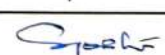
HOD

Head of Department
Bio Medical Engineering
ACS College of Engineering
Bangalore - 560 074.

PRINCIPAL

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ROOM NO: 303

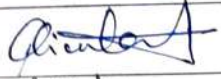
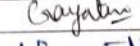
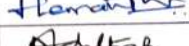
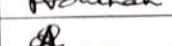


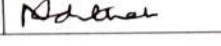

Time -- Day	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30	01.30 to 02.30	02.30 to 03.30	03.30 to 04:30	
MON	15BM83X	15BM81	TEA BREAK	15BM83X	15BM82	LUNCH BREAK	15BM81	←-INTERNSHIP SEMINAR ->		
TUE	15BM82	PLACEMENT		15BM82	15BM81		←-PROJECT WORK ->			
WED	15BM83X	15BM81		15BM82	15BM83X		←-TECHNICAL SEMINAR->			
THU	PROJECT WORK			PROJECT WORK			←-PROJECT WORK ->			
FRI	PROJECT WORK			PROJECT WORK			←-PROJECT WORK ->			
SAT	PROJECT WORK			PROJECT WORK			←-PROJECT WORK ->			
Sub Code	Name of the Subject					Name of the Faculty		Signature		
15BM81	MEDICAL IMAGING SYSTEMS					Dr Punal.M.Arabi//Dr Arul Nambi				
15BM82	BIOMATERIALS & ARTIFICIAL ORGANS					Dr Anitha.S				
15BM83X	PROFESSIONAL ELECTIVE V					Mr Hemanth kumar.G				
15BM84	INTERNSHIP					Mr Hemanth kumar.G				
15BM85	PROJECT WORK PHASE II					Mr Shashidhar Joshi/ /Dr Arul Nambi				
15BML76	SEMINAR					Mr Shashidhar Joshi// Dr Arul Nambi				


 Head of Department
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 PRINCIPAL

ROOM NO: 295

No. of Students:25

Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM
MON		18BM32	TEA BREAK	18BM34	18MAT31	LUNCH BREAK	18BM35	18BM33	
TUE		18BM33		18BM36	18MAT31		18BM34	18BM36	
WED		18BM32		18BM36	18BM34		18BM35	18BM34	
THU		18BM33		18BM35	18MAT31		18BM36	18BM32	
FRI		18BM34		18BM36	18MAT31		18BM32	18BM33	
SAT									
SUB CODE	NAME OF THE SUBJECT					NAME OF THE FACULTY		SIGNATURE	
18MAT31	TRANSFORM CALCULUS,FOURIES SERIES AND NUMERICAL TECHNIQUE					Dr Pradeep Kumar.K.T			
18BM32	ELECTRONIC INSTRUMENTATION AND MEAUREMENTS					Mrs. Gayathri Joshi			
18BM33	ANALOG ELECTRONICS CIRCUITS					Mr. Hemanth Kumar.G			
18BM34	DIGITAL DESIGN AND HDL					Mrs Nanditha Krishna			
18BM35	HUMAN ANATOMY AND PHYSIOLOGY					Dr Arul Nambi			
18BM36	NETWORK ANALYSIS					Mr.Praveen A Patil			
18ESL37	ANALOG ELECTRONICS LAB					Mr. Hemanth Kumar.G			
18ESL38	DIGITAL DESIGN AND HDL LAB					Mrs. Nanditha Krishna			

Note: As per VTU regulation 85% of attendance is compulsory in each subject.



HOD

Head of Department
Bio Medical Engineering
ACS College of Engineering
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PRINCIPAL

ROOM NO: 304

No. of Students: 30

Class Teacher : Mrs Nanditha Krishna

Time Day	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM
MON		18BM52	TEA BREAK	18BM53	18ES51	LUNCH BREAK	18BM52	18BM54	
TUE		18BM54		18BM53	18BM55		18ES51	18BM56	
WED		18BM52		18BM54	18ES51		18BM53	18BM55	
THU		18BM54		18BM55	18BM56		18BM52	18ES51	
FRI		18BM56		18BM55	18BM52		18BM56	18BM53	
SAT									
SUB CODE	NAME OF THE SUBJECT					NAME OF THE FACULTY	SIGNATURE		
18ES51	MANAGEMENT & ENTREPRENEURSHIP					Mr. Hemanth Kumar.G	<i>Hemanth</i>		
18BM52	FUNDAMENTALS OF SIGNALS & DSP					Mr Shashidhar Joshi	<i>Shashidhar</i>		
18BM53	CLINICAL INSTRUMENTATION-I					Dr Punal M Arabi	<i>P</i>		
18BM54	BIOMEDICAL EQUIPMENTS					Mrs. Surekha Nigudgi	<i>Surekha</i>		
18BM55	REHABILITATION ENGINEERING					Dr Anitha.S	<i>Anitha</i>		
18BM56	VLSI DESIGN					Mrs. Gayathri Joshi	<i>Gayathri</i>		
18BML57	SIGNAL CONDITIONING CIRCUITS AND ACQUISITION LAB					Mrs. Surekha Nigudgi	<i>Surekha</i>		
18BML58	CLINICAL INSTRUMENTATION & SIGNAL PROCESSING LAB					Dr Arul Nambi	<i>Arul</i>		
18CIV59	ENVIRONMENTAL STUDIES					Mrs. Nanditha Krishna	<i>Nanditha</i>		

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

[Signature]
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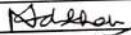


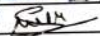



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PRINCIPAL

DEPARTMENT OF BIOMEDICAL ENGINEERING
VII SEMESTER - CLASS TIME TABLE -2019 - 2020(ODD) (With Effect From 01.09.2020)

Class Teacher : Mrs Gayatri Joshi

ROOM NO: 303

No. of Students :36

Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM	
Day										
MON		17BM752	TeaBreak	17BM744	17BM72	Lunch Break	17BM744	17BM71		
TUE		17BM72		17BM71	17BM73		17BM752	17BM72		
WED		17BM71		17BM72	17BM752		17BM73	17BM744		
THU		17BM73		17BM71	17BM744		17BM72	17BM752		
FRI		17BM73		17BM744	17BM752		17BM71	17BM72		
SAT										
SUB CODE	NAME OF THE SUBJECT					NAME OF THE FACULTY		SIGNATURE		
17BM71	BIOMEDICAL DIGITAL SIGNAL PROCESSING					Mrs Nanditha Krishna				
17BM72	COMPUTER COMMUNICATION NETWORKS IN HEALTHCARE					Dr. Anitha S				
17BM73	ARM PROCESSOR					Mr Shashidhar Joshi				
17BM744	BIOMETRIC SYSTEM					Mrs. Surekha Nigudgi				
17BM752	LASER AND OPTICAL FIBERS IN MEDICINE					Dr. Punal.M.Arabai				
17BML76	BIOMEDICAL DSP LAB					Mrs. Gayathri Joshi				
17BML77	ARM PROCESSOR LAB					Mr Shashidhar Joshi				
17BMP78	PROJECT WORK PHASE I+PROJECT WORK SEMINAR					Dr. Anitha S/Dr Arul Nam				

Note: As per VTU regulation 85% of attendance is compulsory in each subject.


HOD

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PRINCIPAL

DEPARTMENT OF BIOMEDICAL ENGINEERING
III SEMESTER - CLASS TIME TABLE - 2019 - 2020 (Odd) (With Effect From 29.07.2019)

ROOM NO: 305

No. of Students: 30

Class Teacher : Mrs Gayatri Joshi

Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM
MON	EI	MATHS	TEA BREAK	DD & HDL	HAP	LUNCH BREAK	-----AEC(B1) / DD & HDL LAB (B2)-----		
TUE	AEC	EI		NA	DD & HDL		AEC	DD & HDL	NA
WED	DD & HDL	HAP		EI	AEC		MATHS	EI	MATHS
THU	NA	MATHS		AEC	HAP		-----AEC(B2) / DD & HDL LAB (B1)-----		
FRI	EI	DD & HDL		HAP	MATHS		NA	ADALITHA KANNADA	
SAT	NA	AEC		VYAVAHARIKA KANNADA			NA(TUT)	MENTORING	LIBRARY
SUB CODE	NAME OF THE SUBJECT				NAME OF THE FACULTY		SIGNATURE		
18MAT31	TRANSFORM CALCULUS, FOURIES SERIES AND NUMERICAL TECHNIQUE				Dr Pradeep Kumar.K.T				
18BM32	ELECTRONIC INSTRUMENTATION AND MEAUREMENTS				Mrs. Gayathri Joshi				
18BM33	ANALOG ELECTRONICS CIRCUITS				Mr. Hemanth Kumar.G				
18BM34	DIGITAL DESIGN AND HDL				Mrs Nanditha Krishna				
18BM35	HUMAN ANATOMY AND PHYSIOLOGY				Mr. Naveen T S				
18BM36	NETWORK ANALYSIS				Mr..Praveen A Patil				
18ESL37	ANALOG ELECTRONICS LAB				Mr. Hemanth Kumar.G				
18ESL38	DIGITAL DESIGN AND HDL LAB				Mrs. Nanditha Krishna				
	LIBRARY				Mrs. Nanditha Krishna / Mr Hemanth Kumar G / Mrs. Gayathri Joshi				
	MENTORING				Mr. Shashidhar Joshi / Mr Naveen T S				

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Note: As per VTU regulation 85% of attendance is compulsory in each subject.

PRINCIPAL 21/08
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DEPARTMENT OF BIOMEDICAL ENGINEERING


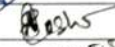



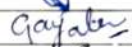




V SEMESTER - CLASS TIME TABLE -2019 - 2020 (Odd) (With Effect From 29.07.2019)

ROOM NO: 304


No. of Students: 35

Class Teacher : Mr Naveen.T.S

Time Day	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM
MON	CI-1	M&E	TEA BREAK	VB	BME	LUNCH BREAK	CI-1	BME	RE
TUE	DSP & SS	CI-1		M&E	RE		-----SCC(B1)/CI(B2) LAB-----		
WED	VB	RE		BME	DSP & SS		-----SCC(B2)/CI(B1) LAB-----		
THU	BME	CI-1		VB	DSP & SS		CI-1	DSP&SS	MENTORING(NTS)
FRI	M&E	RE		DSP & SS	VB		M&E	CI-1	DSP&SS(TUT)
SAT	RE	VB		BME	M&E		-----PLACEMENT TRAINING-----		

UB CODE	NAME OF THE SUBJECT	NAME OF THE FACULTY	SIGNATURE
7ES51	MANAGEMENT & ENTREPRENEURSHIP	Mr. Hemanth Kumar.G	
7BM52	FUNDAMENTALS OF SIGNALS & DSP	Mr Shashidhar Joshi	
7BM53	CLINICAL INSTRUMENTATION-I	Mr. Naveen T S	
7BM54	BIOMEDICAL EQUIPMENTS	Mrs. Surekha Nigudgi	
7BM55	REHABILITATION ENGINEERING	Dr Anitha.S	
7BM562	VIRTUAL BIOINSTRUMENTATION	Mrs. Gayathri Joshi	
7BML57	SIGNAL CONDITIONING CIRCUITS AND ACQUISITION LAB	Mrs. Surekha Nigudgi	
7BML58	CLINICAL INSTRUMENTATION LAB	Mr. Naveen T S	
	PLACEMENT TRAINING	Mr. Hemanth Kumar.G	
	MENTORING	Mr. Naveen T S	

Note: As per VTU regulation 85% of attendance is compulsory in each subject.


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ROOM NO: 303

DEPARTMENT OF BIOMEDICAL ENGINEERING
 VII SEMESTER - CLASS TIME TABLE - 2019 - 2020(ODD) (With Effect From 29.07.2019)
 No. of Students : 29

Class Teacher : Mr Shashidhar Joshi

Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4.00 PM	
MON	ARM	BS	Tea Break	CCN	LOF	Lunch Break	BS	-----BMDSP (B1)/ ARM (B2) LAB-----		
TUE	CCN	BMDSP		BS	LOF			-----BMDSP (B2)/ ARM (B1) LAB-----		
WED	BS	ARM		BMDSP	CCN			PROJECT REVIEW PHASE 1		
THU	BMDSP	ARM		LOF	CCN			TECHNICAL / PAPERS/PERSONALITY TRAINING		
FRI	ARM	LOF		BS	BMDSP			-----PLACEMENT TRAINING, -----		
SAT	LOF	BMDSP		CCN	ARM			TEST(BMDSP/ARM)	TEST(CCN/BS)	TEST(LOF/LIB)
SUB CODE	NAME OF THE SUBJECT					NAME OF THE FACULTY		SIGNATURE		
15BM71	BIOMEDICAL DIGITAL SIGNAL PROCESSING					Mrs Nanditha Krishna		<i>Nanditha</i>		
15BM72	COMPUTER COMMUNICATION & HEALTHCARE NETWORKS					Dr. Anitha S		<i>Anitha</i>		
15BM73	ARM PROCESSOR					Mr Shashidhar Joshi		<i>Shashi</i>		
15BM744	BIOMETRIC SYSTEM					Mrs. Surekha Nigudgi		<i>Surekha</i>		
15BM752	LASER AND OPTICAL FIBERS IN MEDICINE					Dr. Punal.M.Arab		<i>Punal</i>		
15BML76	BIOMEDICAL DSP LAB					Mrs. Gayathri Joshi		<i>Gayathri</i>		
15BML77	ARM PROCESSOR LAB					Mr Shashidhar Joshi		<i>Shashi</i>		
15BMP78	PROJECT WORK PHASE 1+PROJECT SEMINAR					Dr. Anitha S		<i>Anitha</i>		
	PLACEMENT TRAINING TECHNICAL / PERSONALITY TRAINING					Mr. Hemanth Kumar.G		<i>Hemanth</i>		

ALL FACULTIES

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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ACS COLLEGE OF ENGINEERING

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DEPARTMENT OF BIOMEDICAL ENGINEERING

IV SEMESTER - CLASS TIME TABLE -2018 - 2019(EVEN) (With Effect From 01.02.2019)

ROOM NO: 304

Class Teacher : Mrs. Surekha Nigudgi

Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM
MON	SC& DAC	SAI	TEA BREAK	EC	BMT	Lunch Break	Maths 4	SAI	Library
TUE	CS	Maths 4		SC& DAC	SAI		EC	BMT	Mentoring
WED	EC	Maths 4		CS	SAI		BMT Batch 1 lab / EC Batch 2 Lab		
THU	CS	SC& DAC		Maths 4	BMT		BMT Batch 2 lab / EC Batch 1 Lab		
FRI	SAI	CIP		Maths 4	CS		BMT	SC& DAC	EC
SAT	BMT	CS		EC	SC& DAC		Intel lab		
Sub Code	Name of the Subject					Name of the Faculty		Signature	
17MAT41	Engineering Mathematics-IV					Mr. Lokanadhara			
17BM42	Signal Conditioning and Data Acquisition Circuits					Mrs. Surekha Nigudgi			
17BM43	Embedded Controllers					Mrs. Nanditha Krishna			
17BM44	Control Systems					Mrs. Gayathri Joshi			
17BM45	Biomedical Transducers and Measurements					Mr. Hemanth Kumar.G			
17BM46	Scientific and Analytical Instrumentation					Mr. Naveen T S			
17BML47	Embedded Controllers Lab					Mrs. Nanditha Krishna			
17BML48	Biomedical Transducers and Measurements Lab					Mr. Hemanth Kumar.G			
17CPH49	Constitution of India, Professional Ethics and Human Rights					Dr. Punal.M.Arab			
	Intel lab Berekley Internship					Mr. Naveen T S			
	Library					Mr. Hemanth kumar G			

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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DEPARTMENT OF BIOMEDICAL ENGINEERING

VI SEMESTER - CLASS TIME TABLE -2018 - 2019(EVEN) (With Effect From 01.02.2019)

ROOM NO: 303

Class Teacher : Mrs. Nanditha Krishna

Time	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM
MON	ESD	ADC	TEA BREAK	C++	MIP	Lunch Break	MIP Batch 1 LAB/ C++ Batch 2 lab		
TUE	C++	ESD		ADC	MIP		MIP Batch 2 LAB/ C++ Batch 1 lab		
WED	ADC	C++		CI 2	ESD		MIP	C++	Library
THU	BS	CI 2		BS	MIP		ADC	CI 2	Mentoring
FRI	MIP	ESD		BS	C++		ESD	BS	CI 2
SAT	CI 2	ADC		BS	Intel lab		Berekeley Internship		
Sub Code	Name of the Subject				Name of the Faculty		Signature		
17BM61	Analog and Digital Communication Systems				Mrs. Vijaya Dalawai				
17BM62	Medical Image Processing				Mrs. Gayathri Joshi		<i>Gayathri</i>		
17BM63	OOPS With C++				Mrs. Surekha Nigudgi		<i>Surekha</i>		
17BM64	Clinical Instrumentation-II				Dr. Anitha S		<i>Anitha</i>		
17BM651	Biosensors and smart sensors				Mr. Naveen T S		<i>Naveen T.S.</i>		
17BM663	Embedded system design and programming				Mrs. Nanditha Krishna		<i>Nanditha</i>		
17BML67	Medical Image Processing Lab				Mrs. Gayathri Joshi		<i>Gayathri</i>		
17BML68	OOPS With C++ Lab				Mrs. Surekha Nigudgi		<i>Surekha</i>		
	Intel lab Berekley Internship				Mr. Naveen T S		<i>Naveen T.S.</i>		
	Library				Mrs. Gayathri & Surekha		<i>Gayathri Surekha</i>		

* Mentoring classes are engaged by respective Proctors.

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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DEPARTMENT OF BIOMEDICAL ENGINEERING

VIII SEMESTER - CLASS TIME TABLE -2018 - 2019(EVEN) (With Effect From 01.02.2019)

ROOM NO: 305

Class Teacher : Mr Hemanth kumar G

Time ----- Day	08.30 to 09.30 AM	09.30 to 10.30 AM	10.30 to 10.45 AM	10.45 to 11.45 AM	11.45 to 12.45 PM	12.45 to 01.30 PM	01.30 to 02.20 PM	02.20 to 03.10 PM	03.10 to 4:00 PM
MON	BM	MIS	Tea Break	BA	MIS	Lunch Break	Mentoring	Placements	Library
TUE	MIS	BA		BM	BA		Innovation lab(Project Guides)		
WED	BA	BM		MIS	BM		Technical Seminar		
THU	←—Project			Work—→			←—Project Work—→		
FRI	←—Project			Work—→			←—Project Work—→		
SAT	University of Berekley Internship					University of Berekley Internship			
Sub Code	Name of the Subject					Name of the Faculty		Signature	
17BM81	Medical Imaging Systems					Dr. Punal.M.Arabi			
17BM82	Biomaterials and Artificial Organs					Dr. Anitha S			
17BM831	Bio- MEMS					Mr. Hemanth kumar G			
17BM84	Internship / Professional Practice					Mr. Hemanth / Mr. Naveen T S			
17BMP85	Project Work Phase-II					Dr. Anitha S			
17BMS86	Seminar					Mr. Naveen T S		Naveen T S	
	Intel lab Berekley Internship					Mr. Naveen T S		Naveen T S	
	Library					Mrs. Nanditha Krishna		Nanditha	

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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DEPARTMENT OF BIOMEDICAL ENGINEERING

VIII SEMESTER - CLASS TIME TABLE - 2020 - 2021 EVEN (With Effect From 19.04.2021)

ROOM NO: SEMINAR HALL 3

CLASS TEACHER: Mr Hemanth Kumar.G

Time	08.30	09.30	10.30	10.45	11.45	1.00	01.45	02.30		
Day	to 09.30 AM	to 10.30 AM	to 10.45 AM	to 11.45 AM	to 12.45 PM	to 1.45 PM	to 02.30	to 03.30		
MON	BIOMEMS	B & AO	TEA BREAK	MIS	BIOMEMS	LUNCH BREAK	MIS	B & AO		
TUE	B & AO	BIOMEMS		MIS	B & AO		MIS	BIOMEMS		
Sub Code	Name of the Subject				Name of the Faculty		Signature			
17BM81	MEDICAL IMAGING SYSTEMS				Dr Punal.M.Arab					
17BM82	BIOMATERIALS & ARTIFICIAL ORGANS				Dr Anitha.S					
17BM831	PROFESSIONAL ELECTIVE V - BIOMEMS				Mr Hemanth kumar.G					
17BM84	INTERNSHIP				Mr Hemanth kumar.G					
17BMP85	PROJECT WORK PHASE II				Dr Punal.M.Arab					
17BMS86	SEMINAR									

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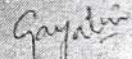

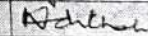
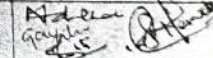
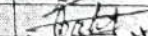

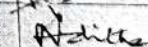
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DEPARTMENT OF BIOMEDICAL ENGINEERING
III SEMESTER

RUNUM NO: 385

Class Teacher : Mr Shashidhar Joshi

Time	09.45 to 10.30 AM	10.45 to 11.30 AM	11.45 to 12.30 PM	12.30 to 01.30 PM	01.30 to 02.15 PM
MON	EI	LD	AEC	LUNCH BREAK	18MAT31
TUE	AEC	EI	NA		18MAT31
WED	LD	NA	HAP		LD/AEC
THU	NA	LD	HAP		18MAT31
FRI	HAP	AEC	EI		18MAT31
SAT					

SUB CODE	NAME OF THE SUBJECT	NAME OF THE FACULTY	SIGNATURE
18MAT31	TRANSFORM CALCULUS,FOURIES SERIES AND NUMERICAL TECHNIQUE	Dr Pradeep Kumar.K.T Dr. Naghavantha K	
18BM32	ELECTRONIC INSTRUMENTATION AND MEAREMENTS	Mrs. Gayathri Joshi	
18BM33	ANALOG ELECTRONICS CIRCUITS	Mr. Hemanth Kumar.G	
18BM34	DIGITAL DESIGN AND HDL	Mrs Nanditha Krishna	
18BM35	HUMAN ANATOMY AND PHYSIOLOGY	All faculties	
18BM36	NETWORK ANALYSIS	Mr. Praveen A Patil	
18ESL37	ANALOG ELECTRONICS LAB	Mr. Hemanth Kumar.G	
18ESL38	DIGITAL DESIGN AND HDL LAB	Mrs. Nanditha Krishna	


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DEPARTMENT OF *MECHANICAL ENGINEERING*

Calender of Events for EVEN semesters(2020-2021)

From 19/04/2021 To 7/08/2021

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	APR	19	20	21	22	23	24	6	
2	APR-MAY	26	27	28	29	30		5	1-MAY DAY
3	MAY	3	4	5	6	7	8	6	
4	MAY	10	11	12			15	4	13- Ramzan ; 14 Basava Jayanthi
5	MAY	17	18	19	20	21	22	6	
6	MAY	24	25	26	27	28	29	6	24,25,26 : I Internal Test
7	MAY-JUN	31	1	2	3	4	5	6	
8	JUN	7	8	9	10	11	12	6	
9	JUN	14	15	16	17	18	19	6	
10	JUN	21	22	23	24	25	26	6	
11	JUN-JUL	28	29	30	1	2	3	6	
12	JUL	5	6	7	8	9	10	6	5,6,7 : II Internal Test
13	JUL	12	13	14	15	16	17	6	
14	JUL	19		21	22	23	24	5	20 - Bakrid
15	JUL	26	27	28	29	30	31	6	
16	AUG	2	3	4	5	6	7	6	
17	AUG	9	10	11	12	13	14	6	9,10,11 : III Internal Test
18	AUG	16	17	18	19	20	21	6	
Total Number of working Days								104	
Last working day of Even semester : 7/8/2021									
UG-Practical Examinations : 9/8/2021 to 19/08/2021									
UG-Theory Examinations : 23/08/2021 to 9/9/2021									
Comencement of odd SEM :13/09/2021									

S. S. S.

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

Calender of Events for EVEN semesters(2019-20)

From 10/02/2020 To 1/06/2020

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No	Activities
1	FEB	10	11	12	13	12			15-Third Saturday (H)
2	FEB	17	18	19	20		22		21- Mahashivarathri(H) VTU Musuem
3	FEB	24	25	26	27	28	29		25th CAD/CAE/CAM (Focus Path)
4	MAR	2	3	4	5	6			7- First Saturday (H)
5	MAR	9	10	11	12	13	14		12,13,14 - I Internal Test
6	MAR	16	17	18	19	20			21- Third Saturday(H)
7	MAR	23	24		26	27	28		25-Ugadi(H) ; 27,28 - Sports Day
8	MAR-APR	30	31	1	2	3			4- First Saturday(H)
9	APR		7	8	9		11		6- Mahavira Jayanthi (H) ; 10- Good Friday(H); 11-II Internal Test
10	APR	13		15	16	17			13,15 -II Internal Test; 14 - Ambedkar Jayanti,
11	APR	20	21	22	23	24	25		
12	APR-MAY	27	28	29	30				1-May Day ,2 -First Saturday
13	MAY	4	5	6	7	8	9		8,9 - Cultural Day
14	MAY	11	12	13	14	15			16- Third Saturday
15	MAY	18	19	20	21	22	23		21,22,23 - III Internal Test
16	MAY		26	27	28	29	30		25 - Ramzan ;
17	JUN	1	2	3	4	5	6		
Total Number of working Days								0	
Last working day of Even semester : 1/06/2020									
UG-Practical Examinations : 3/06/2020 to 13/06/2020									
UG-Theory Examinations : 15/06/2020 to 20/07/2020									
Comencement of ODD SEM : 27/7/2020									

Shree

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

Calender of Events for Odd semesters(2020-2021)

From 01/09/2020 To 16 /01/2021

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No	Activities
1	SEP		1	2	3	4	5	5	
2	SEP	7	8	9	10	11	12	6	GATE EXAM PREPARATION
3	SEP	14	15	16	17	18	19	5	17th Mahalaya Amavase
4	SEP	21	22	23	24	25	26	5	26th-Saturday holiday
5	SEP/OCT	28	29	30	1	2	3	5	02-Gandhi Jayanthi
6	OCT	5	6	7	8	9	10	6	
7	OCT	12	13	14	15	16	17	6	15th,16th&17th First IA
8	OCT	19	20	21	22	23	24	5	19th,20th,21st-First IA 23rd-dasara
9	OCT	26	27	28	29	30	31	5	26th-Dasara Holiday
10	NOV	2	3	4	5	6	7	6	
11	NOV	9	10	11	12	13	14	6	
12	NOV	16	17	18	19	20	21	5	16th-Diwali holiday
13	NOV	23	24	25	26	27	28	6	
14	NOV/DEC	30	1	2	3	4	5	5	3rd-kanakadasa jayanthi,30thnov,1st-5th dec
15	DEC	7	8	9	10	11	12	5	12th -Saturday holiday
16	DEC	14	15	16	17	18	19	6	
17	DEC	21	22	23	24	25	26	5	25th christmas,
18	DEC/JAN	28	29	30	31	1	2	6	29th - Webinar 1
19	JAN	4	5	6	7	8	9	6	7th,8th & 9th third internals,
20	JAN	11	12	13	14	15	16	5	14th-sankranthi
Total Number of working Days								109	
Last working day of Odd semester : 16/01/2021									
UG-Practical Examinations : 21/01/2021 onwards									
UG-Theory Examinations : 8/02/2021-25/03/2021									
Comencement of Even SEM :26/03/2021									

Shankar

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

Calender of Events for ODD semester (2019-2020)

From 01/08/2019 To 29 /11/2019

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No	Activities
1	AUG				1	2		2	3- First Saturday(H)
2	AUG	5	6	7	8	9	10	6	
3	AUG		13	14		16		3	12-Bakrid (H); 15-
4	AUG	19	20	21	22	23	24	6	
5	AUG	26	27	28	29	30	31	6	
6	SEP		3	4	5	6	7	5	2- Ganesh Chaturthi (H); 4,5,6 - I Internal Test
7	SEP	9		11	12	13	14	6	10 - Muharam (H) GATE Exam Preparation
8	SEP	16	17	18	19	20		5	21-Third Saturday (H)
9	SEP	23	24	25	26	27		5	28-Mahalaya Amavasi(H)
10	SEP-OCT	30	1		3	4		4	2- Gandhi Jayanthi (H); First Saturday(H) 5-
11	OCT			9	10	11	12	4	7,8 :-Ayutha Pooja (H)
12	OCT	14	15	16	17	18	19	6	
13	OCT	21	22	23	24	25	26	6	24,25,26 - II Internal Test CAD/CAM Analysis Tools
14	OCT-NOV	28		30	31			3	29- Balipadyani; 1- Rajyotsava Day, 2 - First Saturday
15	NOV	4	5	6	7	8	9	6	Oppotvnites for students in Australia (Higher Education
16	NOV	11	12	13	14			4	15- Kanakadasa Jayanthi ; Third Saturday TOOLS USED CAD CAM ANALYSIS 16 -
17	NOV	18	19	20	21	22	23	6	
18	NOV	25	26	27	28	29	30	6	27,28,29 - III Internal Test
Total Number of working Days								89	
Last working day of Odd semester : 30/11/2019									
UG-Practical Examinations : 03/12/2019-13/12/2019									
UG-Theory Examinations : 6/12/2019-7/2/2020									
Comencement of Even SEM :10/2/2020									

Suday

**ACS COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING**

Calender of Events for EVEN semester (2018-19)

From 01/02/2019 To 23 /05/2019

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB					1		1	2-First Saturday (H)
2	FEB	4	5	6	7	8	9	6	
3	FEB	11	12	13	14	15	16	5	16 - Third Saturday (H)
4	FEB	18	19	20	21	22	23	5	19-Guru Ravidasa Jayanti (H)
5	FEB-MAR	25	26	27	28	1	2	5	2-First Saturday (H)
6	MAR		5	6	7	8	9	5	4-Mahashivarathri (H)
7	MAR	11	12	13	14	15	16	5	11,12,13 - I Internal Test ;
8	MAR	18	19	20	21	22	23	6	22,23 - Sports Day
9	MAR	25	26	27	28	29	30	6	
10	APR	1	2	3	4	5	6	5	6- First Saturday (H)
11	APR	8	9	10	11	12	13	6	10,11,12,13- II Internal Test
12	APR	15	16	17	18	19	20	3	15,16 - Cultural Day ; 17 - Mahaveer Jayanthi(h)
13	APR	22	23	24	25	26	27	6	
14	APR-MAY	29	30	1	2	3	4	4	1-May Day(H); 4- First Saturday(H)
15	MAY	6	7	8	9	10	11	5	7- Basava Jayanthi(H);
16	MAY	13	14	15	16	17	18	5	15,16,17 - III Internal Test ;
17	MAY	20	21	22	23	24	25	4	
Total Number of working Days								82	
Last working day of Even semester : 23/05/2019									
UG-Practical Examinations : 27/05/2019									
UG-Theory Examinations : 10/06/2019 to 16/07/2019									
Comencement of ODD SEM : 22/07/2019									

Sadhu

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

Calender of Events for Odd semester (2018-19)

From 1/08/2018 To 30/11/2018

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No	Activities
1	AUG			1	2	3		3	4-First Saturday(h)
2	AUG	6	7	8	9	10	11	6	
3	AUG	13	14		16	17		4	15- Independence Day(h) 18 - Third Saturday(h)
4	AUG	20	21		23	24	25	5	22- Bakrid(h)
5	AUG-SEP	27	28	29	31	31		5	31-Graduation Day ; 1 - First Saturday (h)Govt tool Room & Traning Center Industrail Area
6	SEP	3	4	5	6	7	8	6	8- I Internal Test
7	SEP	10	11	12		14		4	10,11,12- I Internal Test ;13 - Ganesh Chathurthi (H) 15-Third Saturday(H)
8	SEP	17	18	19	20		22	5	21-Muharam (H)
9	SEP	24	25	26	27	28	29	6	Paper Presentation Technical Quiz Pencil Skecthing &C
10	OCT	1		3	4	5		4	2- Gandhi Jayanthy (H); 6 - First Saturday(h) Workshop on Automation
11	OCT		9	10	11	12	13	5	8-- Mahalaya Amavasya(H) Design of Shafts
12	OCT	15	16	17				3	18,19 - Ayudha Pooja(H); 20 - Third Saturday(H) Prinston Smart Engg HVAC
13	OCT	22	23		25	26	27	5	24- Valmiki Jayanthy (H); 25,26,27- II Internal Test
14	OCT-NOV	29	30	31		2		4	1-Rajyotsava Day (H);3 - First Saturday (H)
15	NOV	5		7		9	10	4	6- Naraka Chathurthi(H) ; 8 - Balipadvami(H)
16	NOV	12	13	14	15	16		5	17- Third Saturday (H)
17	NOV	19	20		22	23	24	5	21- ID Meelad (H)
18	NOV		27	28	29	30		4	26-Kanakadasa Jayanthy (H); 27,28,29 - III Internal Test
Total Number of working Days								83	
Last working day of Odd semester : 30/11/2018									
UG-Practical Examinations : 3/12/2018 to 14/12/2018									
UG-Theory Examinations : 17/12/2018 to 18/12/2018									
Comencement of Even SEM :1/2/2019									

Shankar

ACS COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
Calender of Events for Odd semesters(2017-18)

From 07/08/2017 To 25 /11/2017

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG	7	8	9	10	11	12	6	Writing Research Proposal IPR & Patenting Under ISTE
2	AUG	14	15	16	17	18	19	4	15-Independence Day / ALUMINI DAY 19-Third Saturday (H) Entrepreneurship Awareness camp
3	AUG	21	22	23	24	25	26	5	25 - Ganesh Chaturthi(H) Introduction To Cryogenics
4	AUG-SEP	28	29	30	31	1	2	5	2 - Bakrid(H) Intellectual Property Rights (IPR) & Entrepreneurship, Material Science, Technology & its
5	SEP	4	5	6	7	8	9	6	5- Graduation Day
6	SEP	11	12	13	14	15	16	5	13,14,15- I Internal Test 16- Third Saturday(H)
7	SEP	18	19	20	21	22	23	5	19- Mahalaya Amavasi. Accutech Enterprises
8	SEP	25	26	27	28	29	30	4	29- Durga ashtami(H) ; 30 - Vijayadasami(H)
9	OCT	2	3	4	5	6	7	3	2- Gandhi Jayanthi (H) 5 - Valmiki Jayanthi (H) 7 - First Saturday(H)
10	OCT	9	10	11	12	13	14	6	Principles & Application of Non Traditional Machining
11	OCT	16	17	18	19	20	21	3	18-Naraka Chaturthi (H) , 20 - Vijayadasami(H) 21 - Third
12	OCT	23	24	25	26	27	28	6	28- II Internal Test Overview of Mechanics of Materials
13	OCT-NOV	30	31	1	2	3	4	4	30,31 - II Internal Test 1- Kannada Rajathsova (H) 4 - First Saturday(H)
14	NOV	6	7	8	9	10	11	5	6 - Kanakadasa Jayanthi(H)
15	NOV	13	14	15	16	17	18	5	18-Third Saturday (H)
16	NOV	20	21	22	23	24	25	6	20,21,22 - III Internal Test
17	NOV	27	28	29	30				
Total Number of working Days								78	
Last working day of Odd semester : 25/11/2017									
UG-Practical Examinations : 29/11/2017 to 8/12/2017									
UG-Theory Examinations : 11/12/2017 to 10/1/2018									
Comencement of Even SEM :1/2/2018									

Shadily

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

Calender of Events for Even semesters(2016-17)

From 13/02/2017 To 2/06/2017

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB	13	14	15	16	17	18	6	
2	FEB	20	21	22	23		25	5	24- Mahashivrathri (H)
3	FEB-MAR	27	28	1	2	3	4	6	
4	MAR	6	7	8	9	10		5	11- Second Saturday (H) Energy Conversation & Management Career Opportunies
5	MAR		14	15	16	17	18	5	13 - Holi (H) 16,17,18 - I Internal Test HAL Foundry Divison Bengaluru
6	MAR	20	21	22	23	24	25	6	24,25 - Sports Day
7	MAR-APR	27	28		30	31	1	5	29- Ugadi (H) SUSTAINABLE TECHNOLOGY
8	APR	3	4	5	6	7		5	8- Second Saturday
9	APR	10	11	12	13		15	5	14 - Ambedkar Jayanthi (H)
10	APR	17	18	19	20	21	22	6	
11	APR	24	25	26	27	28		5	24,25,26 - II Internal Test 29 - Basava Jayanthi
12	APR-MAY		2	3	4	5	6	5	1- May Day
13	MAY	8	9	10	11	12		5	
14	MAY	15	16	17	18	19	20	6	IE(I)for Acadamic Growth & Research Devlopment Supp
15	MAY	22	23	24	25	26	27	6	22,23,24- Lab Internals 26,27- III Internal Test
16	MAY-JUN	29	30	31	1	2	3	6	29,30,31- III Internal Test
Total Number of working Days								87	
Last working day of Even semester : 2/06/17									
UG-Practical Examinations : 17/7/2017 to 26/7/2017									
UG-Theory Examinations : 16/06/2017 to 15/07/2016									
Comencement of ODD SEM :7/8/2017									

Shoumy

ACS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

Calendar of Events for Odd semesters(2016-17)

From 01/08/2016 To 26/11/2016

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working	Activities
1	AUG	1	2	3	4	5	6	6	
2	AUG	8	9	10	11	12		5	13-Second Saturday
3	AUG		16	17	18	19	20	5	15 - Independence Day
4	AUG	22	23	24	25	26	27	6	Solar Energy Society of India Student chapter
5	AUG-SEP	29	30	31	1	2	3	6	
6	SEP		6	7	8	9	10	4	5-Ganesh Chaturthi
7	SEP		13	14	15	16	17	5	10 - Second Saturday
8	SEP	19	20	21	22	23	24	6	12 - Bakrid, 14 to 16 - Internal Test I
9	SEP-OCT	26	27	28	29	30	1	6	Career & Business Opportunities In Solar Energy Sector
10	OCT	3	4	5	6	7	8	5	30-Mahalaya Amavas
11	OCT				13	14	15	6	
12	OCT	17	18	19	20	21	22	2	10 - Ayetha Pooja ; 11-Vijayadasami ; 12-Moharam ; 15 - Valmiki Jayanthi; 13,14,17 - Internal Test II
13	OCT	24	25	26	27	28		6	Volvo Industries Peenya
14	OCT-NOV			2	3	4	5	5	29- Naraka Chaturthi
15	NOV	7	8	9	10	11		4	31- Bali Padyami ; 1-Rajyotsava
16	NOV	14	15	16		18	19	5	12- Second Saturday
17	NOV	21	22	23	24	25	26	5	17- Kanakadasa Jayanthi
								6	24,25,26 - Internal Test III
Total Number of working Days								87	
Last working day of Odd semester : 26/11/2016									
UG-Practical Examinations : 1/12/2016 - 10/12/2016									
UG-Theory Examinations : 14/12/2016 - 13/01/2017									
Comencement of Even SEM : 2/2/2017									

A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

SEMESTER – VII: Professional Elective 3

MECHATRONICS

LESSON PLAN

Name of the faculty: Dr. H S Siddesha	Semester: 7
Designation: Asso. Professor & HOD	Course Code:18ME744
CIE Marks:40	SEE Marks:60
Teaching Hours /Week (L:T:P):03	Credits:3

Course Learning Objectives:

1. To acquire a strong foundation in science and focus in mechanical, electronics, control, software, and computer engineering, and a solid command of the newest technologies.
2. To understand the evolution and development of Mechatronics as a discipline.
3. To substantiate the need for interdisciplinary study in technology education
4. To understand the applications of microprocessors in various systems and to know the functions of each element.
5. To demonstrate the integration philosophy in view of Mechatronics technology
6. To be able to work efficiently in multidisciplinary teams.

Module-1

Introduction: Scope and elements of mechatronics, mechatronics design process, measurement system, requirements and types of control systems, feedback principle, Basic elements of feedback control systems, Classification of control system. Examples of Mechatronics Systems such as Automatic Car Park system, Engine management system, Antilock braking system (ABS) control, Automatic washing machine.

Transducers and sensors: Definition and classification of transducers, Difference between transducer and sensor, Definition and classification of sensors, Principle of working and applications of light sensors, Potentiometers, LVDT, Capacitance sensors, force and pressure sensors, Strain gauges, temperature sensors, proximity switches and Hall Effect sensors.

Module-2

Signal Conditioning: Introduction – Hardware – Digital I/O, Analog to digital conversions, resolution, Filtering Noise using passive components – Registers, capacitors, amplifying signals using OP amps. Digital Signal Processing – Digital to Analog conversion, Low pass, high pass, notch filtering. Data acquisition systems (DAQS), data loggers, Supervisory control and data acquisition (SCADA), Communication methods.

Electro Mechanical Drives: Relays and Solenoids – Stepper Motors – DC brushed motors – DC brushless motors – DC servo motors – 4-quadrant servo drives, PWM's – Pulse Width Modulation.

Module-3

Microprocessor & Microcontrollers: Introduction, Microprocessor systems, Basic elements of control systems, Microcontrollers, Difference between Microprocessor and Microcontrollers.

Microprocessor Architecture: Microprocessor architecture and terminology-CPU, memory and address, I/O and Peripheral devices, ALU, Instruction and Program, Assembler, Data Registers, Program Counter, Flags, Fetch cycle, write cycle, state, bus interrupts. Intel's 8085A Microprocessor.

Module-4

Programmable Logic Controller: Introduction to PLCs, Basic structure of PLC, Principle of operation, input and output processing, PLC programming language, ladder diagram, ladder diagrams circuits, timer counters, internal relays, master control, jump control, shift registers, data handling, and manipulations, analogue input and output, selection of PLC for application.

Application of PLC control: Extending and retracting a pneumatic piston using latches, control of two pneumatic pistons, control of process motor, control of vibrating machine, control of process tank, control of conveyer motor etc.

Module-5

Mechatronics in Computer Numerical Control (CNC) machines: Design of modern CNC machines - Machine Elements: Different types of guide ways, Linear Motion guideways. Bearings: anti-friction bearings, hydrostatic bearing and hydrodynamic bearing. Re-circulating ball screws. Typical elements of open and closed loop control systems. Adaptive controllers for machine tools.

Mechatronics Design process: Stages of design process – Traditional and Mechatronics design concepts – Case studies of Mechatronics systems – Pick and place Robot – Automatic car park barrier.

Course Outcomes: At the end of the course the student will be able to:

CO1: Illustrate various components of Mechatronics systems.

CO2: Assess various control systems used in automation.

CO3: Design and conduct experiments to evaluate the performance of a mechatronics system or component with respect to specifications, as well as to analyse and interpret data.

CO4: Apply the principles of Mechatronics design to product design.

CO5: Function effectively as members of multidisciplinary teams

Question paper pattern:

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.

	Title of the Book	Name of the Author/s	Name of the Publisher Edition and Year
1	Mechatronics-Principles Concepts and Applications	Nitaigour Premchand Mahalik	Tata McGraw Hill 1stEdition, 2003
2	Mechatronics–Electronic Control Systems in Mechanical and Electrical Engineering,	W.Bolton	Pearson Education 1 st Edition, 2005
Reference Books			
1	Mechatronics	HMT Ltd	Tata Mc Graw Hill 1st Edition, 2000
2	Introduction to Robotics: Analysis, Systems, Applications.	Saeed B. Niku,	Pearson Education 2006

UNIT	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
	MODULE - 1			
1	Introduction: Definition, Multidisciplinary Scenario, Evolution of Mechatronics, Design of Mechatronics system, Objectives, advantages and disadvantages of Mechatronics.	2	20	20
	Transducers and sensors: Definition and classification of transducers	2		
	Difference between transducer and sensor, Definition and classification of sensors	2		
	Principle of working and applications of light sensors	2		
	Proximity switches and Hall Effect sensors.	2		
	MODULE -2			
2	Signal Conditioning: Introduction – Hardware – Digital I/O, Analog to digital conversions, resolution, Filtering Noise using passive components – Registers, capacitors,	02	40	40
	amplifying signals using OP amps. Digital Signal Processing – Digital to Analog conversion, Low pass, high pass, notch filtering.	02		
	Data acquisition systems (DAQS), data loggers, Supervisory control and data acquisition (SCADA), Communication methods.	02		
	Electro Mechanical Drives: Relays and Solenoids – Stepper Motors – DC brushed motors – DC brushless motors – DC servo motors – 4-quadrant servo drives, PWM's – Pulse Width Modulation.	04		
3	MODULE -3			
	Microprocessor & Microcontrollers: Introduction	02		
	Microprocessor systems, Basic elements of control systems	02		
	Microcontrollers, Difference between Microprocessor and Microcontrollers.	02		
	Microprocessor Architecture: Microprocessor architecture and terminology-CPU, memory and address, I/O and Peripheral devices, ALU, Instruction and Program, Assembler, Data, Registers, Program Counter, Flags, Fetch cycle, write cycle, state, bus interrupts. Intel's 8085A Microprocessor.	04	60	60
	MODULE -4			
4	Programmable Logic Controller: Introduction to PLCs, Basic structure of PLC, Principle of operation, input and output processing.	02	80	80
	PLC programming language, ladder diagram, ladder diagrams circuits, timer counters, internal relays, master control, jump control, shift registers,	02		
	data handling, and manipulations, analogue input and output, selection of PLC for application.	02		
	Application of PLC control: Extending and retracting a pneumatic piston using latches,	04		

	control of two pneumatic pistons, control of process motor, control of vibrating machine, control of process tank, control of conveyer motor etc.			
	MODULE -5			
5	Mechatronics in Computer Numerical Control (CNC) machines: Design of modern CNC machines - Machine Elements: Different types of guide ways, Linear Motion guideways.	02	100	100
	Bearings: anti-friction bearings, hydrostatic bearing and hydrodynamic bearing. Re-circulating ball screws.	02		
	Typical elements of open and closed loop control systems.	02		
	Adaptive controllers for machine tools.	01		
	Mechatronics Design process: Stages of design process – Traditional and Mechatronics design concepts – Case studies of Mechatronics systems – Pick and place Robot – Automatic car park barrier.	03		

Subject: MECHATRONICS

Subject Code: 18ME744

COURSE OUTCOMES (CO's)	
Students are able to:	
CO1: Illustrate various components of Mechatronics systems.	
CO2: Assess various control systems used in automation.	
CO3: Design and conduct experiments to evaluate the performance of a mechatronics system or component with respect to specifications, as well as to analyse and interpret data.	
CO4: Apply the principles of Mechatronics design to product design.	
CO5: Function effectively as members of multidisciplinary teams	

Mapping of Co's with PO's

Course Outcomes (CO's)	Program Outcomes (PO's)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO-1	3	2	2	3	3	2	2	2	2	1	1	1
CO-2	3	2	2	3	3	2	2	2	2	1	1	1
CO-3	3	2	2	3	3	2	2	2	2	1	1	1
CO-4	3	2	2	3	3	2	2	2	2	1	1	1
CO-5	3	2	2	3	3	2	2	2	2	1	1	1

NOTE:

3 = Above Average	2 = Average	1 = Below Average
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[Signature]
HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

A C S COLLEGE OF ENGINEERING
Department of Mechanical Engineering
SEMESTER – VII: Open Elective

INDUSTRIAL SAFETY

LESSON PLAN

Name of the faculty: Dr. H S Siddesha	Semester: 7
Designation: Asso. Professor & HOD	Course Code: 18ME753
CIE Marks: 40	SEE Marks: 60
Teaching Hours /Week (L:T:P): 03	Credits: 3

Course Learning Objectives:

- The present course highlights the importance of general safety and its prevention.
- It enables students to understand about mechanical, electrical and chemical safety.
- The Industrial safety course helps in motivating the students to understand the reason for fire
- Its Controlling of fire by various means are highlighted.
- Importance of chemical safety, labelling of chemicals, hand signals during forklift operations in industrial and aerodromes will help in to understand and apply the techniques in practical field.
- A visit to campus, various labs, workshops, local industries and fire stations helps in analyzing the importance of safety and corrective measures through case studies.

Module-1

Terms used: accident, safety, hazard, safe, safety devices, safety guard, security, precaution, caution, appliance, slip, trip, fall. Ladders and scaffolding. Unsafe acts, reason for accidents, MSDS (material safety data sheet), computer Aided Hazard Analysis, International acts and standards OSHA, WHO. Environment act, control and abatement of environmental pollution-Biomedical waste. Lockout and tag out procedures. Safe material handling and storage. Risk analysis quantification.

Case studies: Student should identify the unsafe acts near their surroundings like housekeeping, lab as well as industrial layouts, road safety, campus layout, safety signs.

Module-2

Introduction, toxicity of products of combustion – vapour clouds – flash fire – jet fires – pool fires – autoignition, sources of ignition . Class A, B, C, D and E fire. Fire triangle, Fire extinguishers, Fire hazard and analysis, prevention of fire. Fire protection and loss prevention, steps after occurrence of fire. notice-first aid for burns, Portable fire extinguishers. Fire detection, fire alarm and firefighting systems. Safety sign boards, instruction on portable fire extinguishers. Case studies: demonstration of fire extinguishers, visit to local fire fighting stations. Visit to fire accident sites to analyze the cause of fire and its prevention for future.

Module-3

PPE, safety guards, Mechanical hazards, workplace hazards, Forklift hazard control Safety while working with machine tools like lathe, drill press, power and band saws, grinding machines. Safety during welding, forging and pressing. Safety while handling Material, compressed gas cylinders, corrosive substance, waste drum and containers.

Case studies: Visit to machine shop, workshops, foundry lab and local industries to record the practical observation and report the same with relevant figures and comments.

Module-4

Introduction to electrical safety, Indian standards on electrical safety, Electric hazards, effect of electric current on human body, causes of electrical accidents, prevention of electric accidents, PPE used. Protection systems: Fuse, circuit breakers and overload relays – protection against over voltage and under voltage. Electric shock. Primary and secondary electric shocks, AC and DC current shocks. Safety precautions against shocks. Safety precautions in small and residential building installations. Safety procedures in electric plant.

Case studies: To visit electrical sub stations, local distribution systems, observe and share the experience and report.

Module-5

Introduction to Chemical safety, Labelling of chemicals, acid hoods. Handling of acids, eye washers and showers. Safety thinking, accident investigation, safety policy of the company, safety, loss prevention and control, check list for LPG installations, safety precautions using CNG, fire prevention and safety audit, confined space entry, risk assessment.

Case studies: To visit chemical laboratory of the college and other chemical industries like LPG , CNG facilities and report.

Course Outcomes: At the end of the course, the student will be able to:

CO1: Understand the basic safety terms and international standards.

CO2: Identify the hazards and risk analysis around the work environment and industries.

CO3: Use the safe measures while performing work in and around the work area of the available laboratories. Able to recognize the sign boards and its application

CO4: Recognize the types of fires extinguishers and to demonstrate the portable extinguishers used for different classes of fires.

CO5: Report the case studies by sharing experience of the employees working in housekeeping, laboratories like workshops, electrical labs, machine shops, electronics and computer laboratories.

CO6: Recognize the chemical and electrical hazards for its prevention and control.

Question paper pattern:

The question paper will have ten full questions carrying equal marks.

- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.

UNIT	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
1	Module-1			
	Terms used: accident, safety, hazard, safe, safety devices, safety guard, security, precaution, caution, appliance, slip, trip, fall. Ladders and scaffolding.	02	20	20
	Unsafe acts, reason for accidents, MSDS (material safety data sheet), computer Aided Hazard Analysis	02		
	International acts and standards OSHA, WHO. Environment act, control and abatement of environmental pollution-Biomedical waste.	02		
	Lockout and tag out procedures. Safe material handling and storage. Risk analysis quantification.	01		
	International acts and standards OSHA, WHO. Environment act, control and abatement of environmental pollution-Biomedical waste. Lockout and tag out procedures.	02		
	Safe material handling and storage. Risk analysis quantification.	01		
Case studies: Student should identify the unsafe acts near their surroundings like housekeeping, lab as well as industrial layouts, road safety, campus layout, safety signs.	02			
2	Module-2			
	Introduction, toxicity of products of combustion - vapour clouds - flash fire - jet fires - pool fires - autoignition, sources of ignition .	02	40	40
	Class A, B, C, D and E fire. Fire triangle, Fire extinguishers, Fire hazard and analysis, prevention of fire. Fire protection and loss prevention, steps after occurrence of fire. notice-first aid for burns, Portable fire extinguishers.	02		
	Fire detection, fire alarm and firefighting systems. Safety sign boards, instruction on portable fire extinguishers. Case studies: demonstration of fire extinguishers, visit to local fire fighting stations.	02		
Visit to fire accident sites to analyze the cause of fire and its prevention for future.	02			
3	Module-3			
	PPE, safety guards, Mechanical hazards, workplace hazards, Forklift hazard control Safety while working with machine tools like lathe, drill press, power and band saws, grinding machines	02	60	60
	Safety during welding, forging and pressing. Safety while handling Material, compressed gas cylinders, corrosive substance, waste drum and containers.	03		
	Case studies: Visit to machine shop, workshops, foundry lab and local industries to record the practical observation and report the same with relevant figures and comments.	03		
4	Module-4			
	Introduction to electrical safety, Indian standards on electrical safety, Electric hazards, effect of electric current on human body,	02		

	causes of electrical accidents, prevention of electric accidents, PPE used.			
	Protection systems: Fuse, circuit breakers and overload relays – protection against over voltage and under voltage.	02	80	80
	Electric shock. Primary and secondary electric shocks, AC and DC current shocks. Safety precautions against shocks.	02		
	Safety precautions against shocks. Safety precautions in small and residential building installations. Safety procedures in electric plant.	02		
	Case studies: To visit electrical sub stations, local distribution systems, observe and share the experience and report.	02		
5	Module-5 Introduction to Chemical safety, Labelling of chemicals, acid hoods. Handling of acids, eye washers and showers.	02	100	100
	Safety thinking, accident investigation, safety policy of the company, safety, loss prevention and control,	02		
	check list for LPG installations, safety precautions using CNG, fire prevention and safety audit, confined space entry, risk assessment.	02		
	Case studies: To visit chemical laboratory of the college and other chemical industries like LPG , CNG facilities and report.	02		

Subject: INDUSTRIAL SAFETY

Subject Code: 18ME753

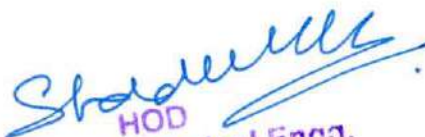
COURSE OUTCOMES (CO's)	
Students are able to:	
CO1: Understand the basic safety terms and international standards.	
CO2: Identify the hazards and risk analysis around the work environment and industries.	
CO3: Use the safe measures while performing work in and around the work area of the available laboratories. Able to recognize the sign boards and its application	
CO4: Recognize the types of fires extinguishers and to demonstrate the portable extinguishers used for different classes of fires	
CO5: Report the case studies by sharing experience of the employees working in housekeeping laboratories like workshops, electrical labs, machine shops, electronics and computer laboratories.	
CO6: Recognize the chemical and electrical hazards for its prevention and control.	

Mapping of Co's with PO's

Course Outcomes (CO's)	Program Outcomes (PO's)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO-1	1	2	1	2	3	2	2	3	2	2	3	3
CO-2	1	2	1	2	3	2	2	3	2	2	3	3
CO-3	1	2	1	2	3	2	2	3	2	2	3	3
CO-4	1	2	1	2	3	2	2	3	2	2	3	3
CO-5	1	2	1	2	3	2	2	3	2	2	3	3
CO-6	1	2	1	2	3	2	2	3	2	2	3	3

NOTE:

3 = Above Average	2 = Average	1 = Below Average
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Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.



A C S COLLEGE OF ENGINEERING
Department of Mechanical Engineering
MECHATRONICS (Professional Elective-3)

LESSON PLAN

Name of the faculty: **Dr. H S Siddesha**
 Designation: **Asso. Professor & HOD**
15ME753

Semester: **7**
 Sub Code:

Hours per week: **05**

Total hours: **50**

COURSE OBJECTIVES

1. Understand the evolution and development of Mechatronics as a discipline.
2. Substantiate the need for interdisciplinary study in technology education.
3. Understand the applications of microprocessors in various systems and to know the functions of each element
4. Demonstrate the integration philosophy in view of Mechatronics technology

COURSE OUTCOMES:

On completion of this subject, students will be able to:

1. Illustrate various components of Mechatronics systems.
2. Assess various control systems used in automation.
3. Develop mechanical, hydraulic, pneumatic and electrical control systems.
4. Demonstrate the integration philosophy in view of Mechatronics technology

UNIT	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
	MODULE -1			
1	Introduction: Definition, Multidisciplinary Scenario, Evolution of Mechatronics, Design of Mechatronics system, Objectives, advantages and disadvantages of Mechatronics.	2	20	20
	Transducers and sensors: Definition and classification of transducers	2		
	Difference between transducer and sensor, Definition and classification of sensors	2		
	Principle of working and applications of light sensors	2		
	Proximity switches and Hall Effect sensors.	2		
	MODULE -2			
2	Microprocessor & Microcontrollers: Introduction	02	20	40
	Microprocessor systems, Basic elements of control systems	02		
	Microcontrollers, Difference between Microprocessor and Microcontrollers.	02		
	Microprocessor Architecture: Microprocessor architecture and terminology-CPU, memory and address, I/O and Peripheral devices, ALU, Instruction and Program, Assembler, Data, Registers, Program Counter, Flags, Fetch cycle, write cycle, state, bus interrupts. Intel's 8085A Microprocessor.	04		

COURSE OUTCOMES (CO's)	
Students are able to:	
CO-1:	Understand the evolution and development of Mechatronics as a discipline and Illustrate various components of Mechatronics systems.
CO-2:	Student will have the knowledge of Substantiate the need for interdisciplinary study in technology education and Assess various control systems used in automation.
CO-3:	Student will have the knowledge of Understand the applications of microprocessors in various systems and to know the functions of each element.
CO-4:	Student will have the knowledge of Interdisciplinary concepts integrating to system and develop mechanical, hydraulic, pneumatic and electrical control systems to Demonstrate the integration philosophy in view of Mechatronics technology

Mapping of Co's with PO's

Course Outcomes (CO's)	Program Outcomes (PO's)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO-1	3	2	2	3	3	2	2	2	2	1	1	1
CO-2	3	2	2	3	3	2	2	2	2	1	1	1
CO-3	3	2	2	3	3	2	2	2	2	1	1	1
CO-4	3	2	2	3	3	2	2	2	2	1	1	1

NOTE:

3 = Above Average	2 = Average	1 = Below Average
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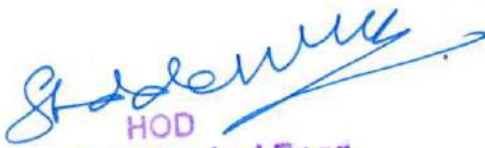
COURSE OUTCOMES (CO's)	
Students are able to:	
CO-1:	Understand the evolution and development of Mechatronics as a discipline and Illustrate various components of Mechatronics systems.
CO-2:	Student will have the knowledge of Substantiate the need for interdisciplinary study in technology education and Assess various control systems used in automation.
CO-3:	Student will have the knowledge of Understand the applications of microprocessors in various systems and to know the functions of each element.
CO-4:	Student will have the knowledge of Interdisciplinary concepts integrating to system and develop mechanical, hydraulic, pneumatic and electrical control systems to Demonstrate the integration philosophy in view of Mechatronics technology

Mapping of Co's with PO's

Course Outcomes (CO's)	Program Outcomes (PO's)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO-1	3	2	2	3	3	2	2	2	2	1	1	1
CO-2	3	2	2	3	3	2	2	2	2	1	1	1
CO-3	3	2	2	3	3	2	2	2	2	1	1	1
CO-4	3	2	2	3	3	2	2	2	2	1	1	1

NOTE:

3 = Above Average	2 = Average	1 = Below Average
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Syllabus

MECHATRONICS

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Mechatronics	15ME753	03	3-0-0	80	20	3 Hrs

Course objectives:

1. Understand the evolution and development of Mechatronics as a discipline.
2. Substantiate the need for interdisciplinary study in technology education.
3. Understand the applications of microprocessors in various systems and to know the functions of each element.
4. Demonstrate the integration philosophy in view of Mechatronics technology.

MODULE -1

Introduction: Definition, Multidisciplinary Scenario, Evolution of Mechatronics, Design of Mechatronics system, Objectives, advantages and disadvantages of Mechatronics.

Transducers and sensors: Definition and classification of transducers, Difference between transducer and sensor, Definition and classification of sensors, Principle of working and applications of light sensors, proximity switches and Hall Effect sensors.

10 Hours

MODULE -2

Microprocessor & Microcontrollers: Introduction, Microprocessor systems, Basic elements of control systems, Microcontrollers, Difference between Microprocessor and Microcontrollers.

Microprocessor Architecture: Microprocessor architecture and terminology-CPU, memory and address, I/O and Peripheral devices, ALU, Instruction and Program, Assembler, Data, Registers, Program Counter, Flags, Fetch cycle, write cycle, state, bus interrupts. Intel's 8085A Microprocessor.

10 Hours

MODULE -3

Programmable logic controller: Introduction to PLC's, basic structure, Principle of operation, Programming and concept of ladder diagram, concept of latching & selection of a PLC.

Integration: Introduction & background, Advanced actuators, Pneumatic actuators, Industrial Robot, different parts of a Robot-Controller, Drive, Arm, End Effectors, Sensor & Functional requirements of robot.

10 Hours

MODULE -4

Mechanical actuation systems: Mechanical systems, types of motion, Cams, Gear trains, Ratchet & Pawl, belt and chain drives, mechanical aspects of motor selection.

Electrical actuation systems: Electrical systems, Mechanical switches, Solenoids, Relays, DC/AC Motors, Principle of Stepper Motors & servomotors.

10 Hours

MODULE -5

Pneumatic and hydraulic actuation systems: Actuating systems, Pneumatic and hydraulic systems, Classifications of Valves, Pressure relief valves, Pressure regulating/reducing valves, Cylinders and rotary actuators.

DCV & FCV: Principle & construction details, types of sliding spool valve, solenoid operated, Symbols of hydraulic elements, components of hydraulic system, functions of various units of hydraulic system. Design of simple hydraulic circuits for various applications.

10 Hours

Course outcomes:

On completion of this subject, students will be able to:

1. Illustrate various components of Mechatronics systems.
2. Assess various control systems used in automation.
3. Develop mechanical, hydraulic, pneumatic and electrical control systems.

TEXT BOOKS:

1. Nitaigour Premch and Mahalik , Mechatronics-Principles, Concepts and Applications, Tata McGraw Hill.
2. W.Bolton-Pearson Education, Mechatronics –1stEdition, 2005 ISBN No. 81-7758-284-4.

REFERENCE BOOKS:

1. Mechatronics by HMT Ltd. – Tata McGrawHill, 1st Edition, 2000. ISBN:9780074636435.
2. Anthony Esposito, Fluid Power , Pearson Education, 6th Edition, 2011, ISBN No.9789332518544.

E- Learning

- VTU, E- learning

Scheme of Examination:

Two question to be set from each module. Students have to answer five full questions, choosing at least one full question from each module.

A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

MECHANICS OF MATERIALS: LESSON PLAN

Name of the faculty: SRINIDHI ACHARYA S R

Designation: Asst. Professor

Sub Code: 18ME32

Hours per week: 4

Total hours: 50

SL NO.	MODULES	No. of hours	% of portions covered	Cumulative % of portions covered
Module 1:				
1	Stresses and Strains: Introduction.	1	20%	20%
2	Properties of materials, Stress, Strain and Hooke's law,	1		
3	Stress strain diagram for brittle and ductile materials,	1		
4	True stress and strain, Calculation of stresses in straight,	1		
5	Stepped and tapered sections, Composite sections, Stresses due to temperature change,	1		
6	Shear stress and strain, Lateral strain and Poisson's ratio,	1		
7	Elastic constants and relations between them	1		
8	Numerical			
9	Numerical	1		
10	Numerical.	1		
Module 2				
11	Analysis of Stress and Strain: Introduction to three dimensional state of stress,	1	20%	40%
12	Stresses on inclined planes, Principal stresses and maximum shear stress,	1		
13	Principal angles, Shear stresses on principal planes, Maximum shear stress,	1		
14	Mohr circle for plane stress conditions.			
15	Numerical			
16	Cylinders: Thin cylinder: Hoop's stress, maximum shear stress, circumferential and longitudinal strains,	1		
17	Thick cylinders: Lames equations.	1		
18	Numerical	1		
19	Numerical	1		
20	Numerical	1		
Module 3				
21	Shear Force and Bending Moment: Type of beams, Loads and reactions,	1	20%	60%
22	Relationship between loads, shear forces and bending moments,	1		
23	Shear force and bending moments of cantilever beams,	1		
24	Shear force and bending moments of Pin support and roller supported beams subjected to concentrated loads, uniformly distributed constant / varying loads.	1		
25	Numerical	1		
26	Stress in Beams: Bending and shear stress distribution in rectangular, I and T section beams.	1		
27	Numerical	4		
28	Numerical			
29	Numerical			
30	Numerical			



MODULE 4			20%	80%
31	Theories of Failure: Maximum Principal stress theory,	1		
32	Maximum shear stress theory.	1		
	Numerical			
33	Torsion: Circular solid and hollow shafts,	1		
34	Torsional moment of resistance,			
35	Power transmission of straight and stepped shafts, Twist in shaft sections,	1		
36	Thin tubular sections, Thin walled sections.	1		
37	Numerical	1		
38	Numerical	1		
39	Numerical	1		
40	Numerical	1		
MODULE - 5			20%	100%
41	Columns: Buckling and stability, Critical load,	1		
42	Columns with pinned ends, Columns with other support conditions,	1		
43	Effective length of columns, Secant formula for columns.	1		
44	Numerical	1		
45	Numerical	1		
46	Strain Energy: Strain energy due to axial, shear, bending,	1		
47	Strain Energy due to torsion and impact load.	1		
48	Castigliano's theorem I and II and their applications.			
49	Numerical	1		
50	Numerical	1		

Course Outcomes:

At the end of the course, the student will be able to:

CO1: Understand simple, compound, thermal stresses and strains their relations and strain energy.

CO2: Analyse structural members for stresses, strains and deformations.

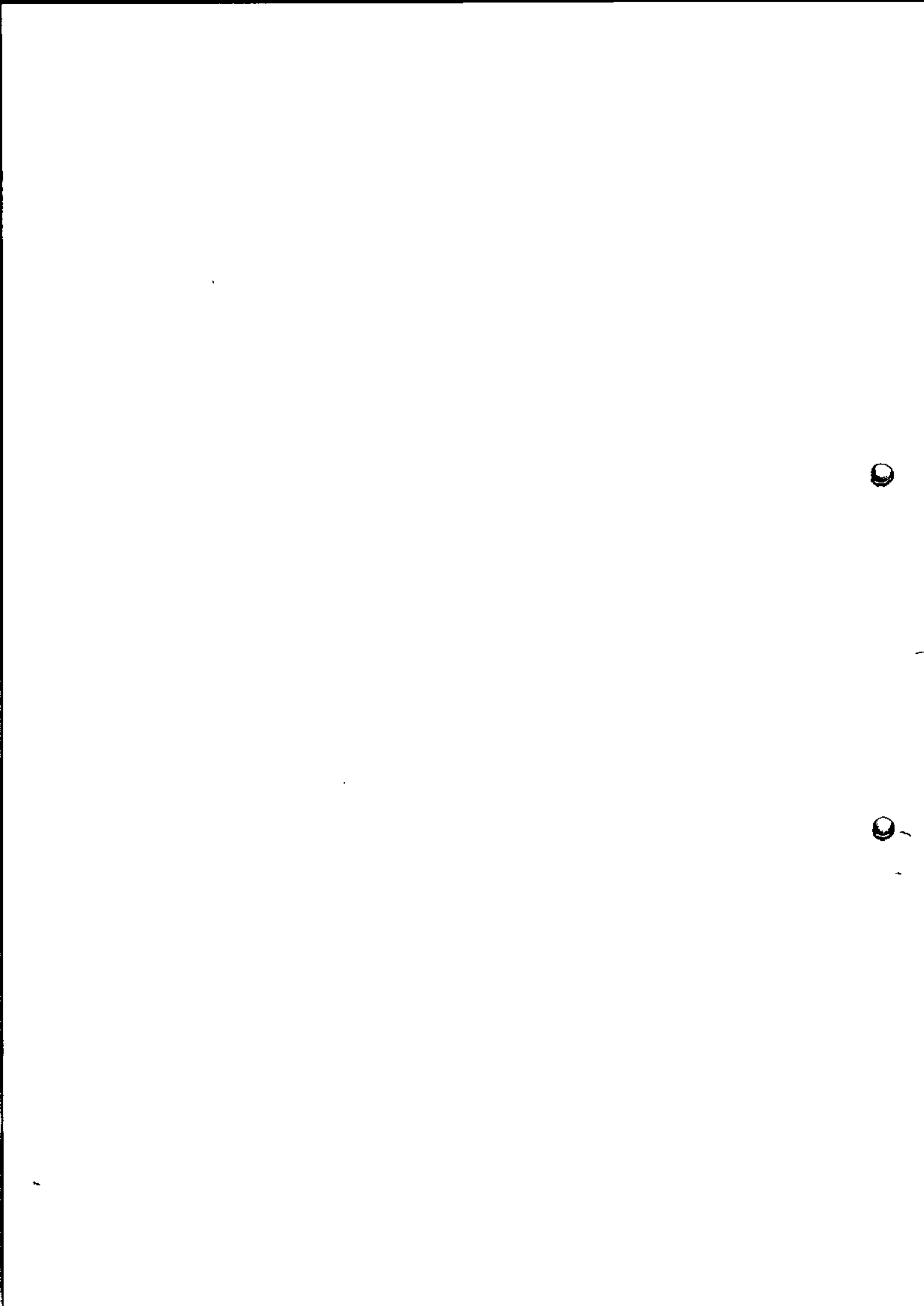
CO3: Analyse the structural members subjected to bending and shear loads.

CO4: Analyse shafts subjected to twisting loads.

CO5: Analyse the short columns for stability.

Sl No	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Mechanics of Materials	J M Gere, B J Goodno,	Cengage	Eighth edition 2013
2	Fundamentals of Strength of Materials	P N Chandramouli	PHI Learning Pvt. Ltd	2013
3	Strength of Materials	R K Rajput	S. Chand and Company Pvt. Ltd	2014
Reference Books				
1	Strength of Materials	R. Subramanian	Oxford	2005
2	Strength of Materials	S. S. Ratan	Tata McGraw Hill	2nd Edition, 2008
3	Mechanics of materials Strength of Materials	S C Pilli and N Balasubramanya	Cengage	2019
4	Mechanics of Materials	Ferdinand Beer, Russell Johston, John Dewolf, David Mazurek	McGraw Hill Education (India) Pvt. Ltd	Latest edition
5	Mechanics of Materials	R C Hibbeler	Pearson	Latest edition

Shobalee
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Dept. of Mechanical Engg.
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Bangalore - 560 074.



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

Heat Transfer

LESSON PLAN

Name of the faculty: KUMAR B.M.

Designation: Asst. Professor

Hours per week: 5

Sub Code: 17ME63

Total hours: 50

Modules	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
Module 1	Introductory concepts and definitions: Modes of heat transfer:	1	20%	20%
	Basic laws governing conduction, convection, and radiation heat transfer	1		
	Thermal conductivity; convective heat transfer coefficient; radiation heat transfer combined heat transfer mechanism,	1		
	Types of boundary conditions	1		
	General Heat Conduction Equation	1		
	Derivation of the equation in (i) Cartesian, (ii) Polar and (iii) Spherical Co-ordinate Systems.	1		
	Steady-state one-dimensional heat conduction problems in Cartesian System	1		
	Steady-state one-dimensional heat conduction problems (i) with and without heat generation.	1		
	Steady-state one-dimensional heat conduction problems (ii) with and without varying thermal conductivity - in Cartesian system with various possible boundary conditions,	2		
Thermal Resistances in Series and in Parallel	1	20%	40%	
Module 2	Critical Thickness of Insulation: Concept, Derivation			1
	Extended Surfaces or Fins: Classification, Straight Rectangular and Circular Fins			1
	Temperature Distribution and Heat Transfer Calculations,			1
	Fin Efficiency and Effectiveness, Applications			2
	Transient [Unsteady-state] heat conduction			1
	Definition, Different cases - Negligible internal thermal resistance,			1
	Negligible surface resistance, comparable internal thermal and surface resistance,			1
	Lumped body, Infinite Body and Semi-infinite Body,			1
	Numerical Problems, Heisler and Grober charts.			1
	Numerical Problems.	1		
	Numerical Analysis of Heat Conduction: Introduction	1		
	One-dimensional steady conduction, one dimensional unsteady conduction	1		
	Two-dimensional steady and unsteady conduction,	1		
	The difference equation, boundary conditions, solution	1		

Module 2	Critical Thickness of Insulation: Concept, Derivation	1	20%	40%
	Extended Surfaces or Fins: Classification, Straight Rectangular and Circular Fins	1		
	Temperature Distribution and Heat Transfer Calculations, Fin Efficiency and Effectiveness, Applications	2		
	Transient [Unsteady-state] heat conduction	1		
	Definition, Different cases - Negligible internal thermal resistance,	1		
	Negligible surface resistance, comparable internal thermal and surface resistance,	1		
	Lumped body, Infinite Body and Semi-infinite Body,	1		
	Numerical Problems, Heisler and Grober charts.	1		
	Numerical Problems.	1		
Module 3	Numerical Analysis of Heat Conduction: Introduction	1	20%	60%
	One-dimensional steady conduction, one dimensional unsteady conduction	1		
	Two-dimensional steady and unsteady conduction,	1		
	The difference equation, boundary conditions, solution methods, cylindrical coordinates and irregular boundaries.	1		
	Thermal Radiation: Fundamental principles - Gray, White, Opaque, Transparent and Black bodies,	1		
	Spectral emissive power, Wien's, Rayleigh-Jeans' and Planck's laws, Hemispherical Emissive Power, Stefan-Boltzmann law for the total emissive power of a black body,	1		
	Emissivity and Kirchhoff's Laws,	1		
	View factor, Net radiation exchange in a two-body enclosure,	1		
Typical examples for these enclosures, Radiation Shield.	1			
Numerical Problems.	1			
Module 4	Forced Convection: Boundary Layer Theory,	1	20%	80%
	Velocity and Thermal Boundary Layers, Prandtl number,	1		
	Governing Equations – Continuity, Navier-Stokes and Energy equations	1		
	Boundary layer assumptions, Integral and Analytical solutions to above equations,	1		
	Turbulent flow, Various empirical solutions, Forced convection flow over cylinders and spheres	1		
	Internal flows –laminar and turbulent flow solutions, Forced Convection Cooling of Electronic Devices.	1		
	Free convection: Laminar and Turbulent flows,	1		
	Vertical Plates, Vertical Tubes and Horizontal Tubes, Empirical solutions.	1		
	Numerical Problems.	1		
	Numerical Problems.	1		
	Heat Exchangers: Definition, Classification, applications,	1	20%	
	LMTD method, Effectiveness - NTU method, Analytical Methods,	1		

Module 5	Fouling Factors, Chart Solution Procedures for solving Heat Exchanger problems	1	100%
	Correction Factor Charts and Effectiveness-NTU Charts, compact heat exchangers.	1	
	Heat Transfer with Phase Change: Introduction to boiling, pool boiling	1	
	Bubble Growth Mechanisms, Nucleate Pool Boiling, Critical Heat Flux in Nucleate Pool Boiling,	1	
	Pool Film Boiling, Critical Heat Flux, Heat Transfer beyond the Critical Point,	1	
	Filmwise and dropwise Condensation	1	
	Heat pipes, entrainment, wicking and boiling limitations.	1	
	Numerical Problems.	1	
	Numerical Problems.	1	

TEXT BOOKS:

1. Principals of heat transfer, Frank Kreith, Raj M. Manglik, Mark S. Bohn, Seventh Edition, Cengage learning, 2011.
2. Yunus A. Cengel - Heat transfer, a practical approach, Fifth edition, Tata Mc Graw Hill.

REFERENCE BOOKS:

1. Heat and mass transfer, Kurt C. Rolfe, second edition, Cengage learning.
2. Heat Transfer, M. Necati Ozisik, A Basic Approach, McGraw Hill, New York, 2005.
3. Fundamentals of Heat and Mass Transfer, Incropera, F. P. and De Witt, D. P., 5th Edition, John Wiley and Sons, New York, 2006.
4. Heat Transfer, Holman, J. P., 9th Edition, Tata McGraw Hill, New York, 2008.

E-Books/Web references:

1. A Text book of Heat Transfer, John H Lienhard, 4th Edition,
2. NPTEL Heat Transfer course for Mechanical Engineering, <http://nptel.ac.in/courses/112101097/>
3. Heat Transfer, Chris Long & Naser Sayma,

Bookboon.com MOOCs:

1. Fluid flow, Heat and Mass Transfer- <http://ocw.tudelft.nl/courses/applied-earth-sciences/fluid-flow-heat-mass-transfer/course>
2. Heat transfer course- <https://legacy.saylor.org/me204/Intro/>

Scheme of Examination:

Two questions to be set from each module. Students have to answer five full questions, choosing at least one full question from each module.

Course Outcomes:

- CO1: Understand the basic modes of heat transfer.
- CO2: Compute temperature distribution in steady-state and unsteady-state heat conduction
- CO3: Understand and interpret heat transfer through extended surfaces.
- CO4: Interpret and compute forced and free convective heat transfer.
- CO5: Explain the principles of radiation heat transfer and understand the numerical formula for heat conduction problems.
- CO6: Design heat exchangers using LMTD and NTU methods.

CO - PO MAPPING

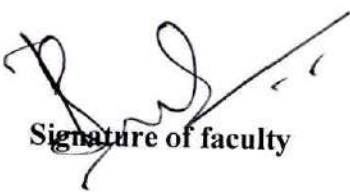
CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	2	2	2	2	2	1	2	1	1
CO2	3	3	3	2	2	1	1	2	1	2	1	1
CO3	3	3	3	2	1	1	1	2	1	2	1	1
CO4	2	2	3	2	1	2	2	2	1	2	1	1
CO5	2	2	3	2	2	1	1	2	1	2	1	1
CO6	2	2	3	2	2	1	2	2	1	2	1	1

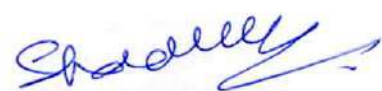
Note:

3 = Above Average

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1 = Below Average


Signature of faculty


Signature of HOD

HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

ACS COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

INSTRUCTIONAL SCHEDULE

Modeling and Analysis Lab (FEA)

Sub Code : 17MEL68

IA Marks : 40

Hrs/ Week Credits : : 01L+ 02P, Credits: 02

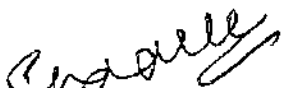
Exam Hours : 03

Semester: VI

Lesson Plan for the Academic Year 2019-2020

Sl. No.	Practical class	Syllabus Covered	Remarks
1	1	Study of a FEA package and modeling and stress analysis of Bars of constant cross section area.	CO1,CO2
2	2	Study of a FEA package and modeling and stress analysis of Bars of tapered cross section area	CO1,CO2
3	3	Study of a FEA package and modeling and stress analysis of stepped bar of different cross section area.	CO1,CO2
4	4	Study of a FEA package and modeling and stress analysis of Trusses of constant cross section area.	CO1,CO2
5	5	Study of a FEA package and modeling and stress analysis of Trusses of different cross section area.	CO1,CO2
6	6	Study of a FEA package and modeling and stress analysis of Simply supported Beams with point load , UDL, beams with varying load	CO1, CO3
7	7	Study of a FEA package and modeling and stress analysis of – , cantilever Beams, beams with point load , UDL, beams with varying load etc	CO1, CO3
8	8	Study of a FEA package and modeling and Stress analysis of a rectangular plate with a circular hole	CO1, CO2, CO3
9	9	Study of a FEA package and Thermal Analysis of 1D problem with conduction boundary conditions	CO1,CO4
10	10	Study of a FEA package and Thermal Analysis of 1D problem with conduction and convection boundary conditions	CO1,CO4
11	11	Study of a FEA package and Thermal Analysis of 2D problem with conduction boundary conditions	CO1,CO4
12	12	Study of a FEA package and Thermal Analysis of 2D problem with conduction and convection boundary conditions	CO1,CO4
13	13	Dynamic Analysis to find Fixed beam for natural frequency determination.	CO1,CO5
14	14	Dynamic Analysis to Bar subjected to forcing function, find natural frequency determination	CO1,CO5
15	15	Dynamic Analysis to fixed beam subjected to forcing function, find natural frequency determination	CO1,CO5
16	16	Demonstrate at least two different type of example to model and analyze bars or plates made from Composite material.	CO1,CO5


Faculty Signature


HOD - ME



Course outcomes:

COs	Upon successful completion of this course you should be able to:
CO1	Demonstrate the basic features of an analysis package
CO2	Use the modern tools to formulate the problem, and able to create geometry, discretize, apply boundary condition to solve problems of bars, truss, beams & plate to find stress with different loading conditions.
CO3	Demonstrate the deflection of beams subjected to point, uniformly distributed and varying loads further to use the available results to draw shear force and bending moment diagrams.
CO4	Analyze the given problem by applying basic principle to solve and demonstrate 1D and 2D heat transfer with conduction and convection boundary conditions.
CO5	Carry out dynamic analysis and finding natural frequencies for various boundary conditions and also analyze with forcing function.

Mapping of COs with POs

Course outcomes (COs)	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	3	3	1	1							
CO2	3	3	3	1	1							
CO3	3	3	3	1	1							
CO4	3	3	3	1	1							
CO5	3	3	3	1	1							


Faculty Signature


HOD - ME



ACS COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

INSTRUCTIONAL SCHEDULE

Subject: Finite Element Analysis

Sub Code: 17ME61

Semester: VI

Lesson Plan for the Academic Year 2019-2020

SL No.	Syllabus Covered	Remarks
1	Module I: Introduction to Finite Element Method	CO1
2	General description of the finite element method	CO1
3	Engineering applications of finite element method	CO1
4	Boundary conditions: homogeneous and non homogeneous for structural, heat transfer and fluid flow problems	CO2
5	Potential energy method of finite element formulation	CO1
6	Rayleigh Ritz method of finite element formulation	CO1
7	Galerkin's method of finite element formulation	CO1
8	Displacement method of finite element formulation	CO1
9	Convergence criteria in FEA	CO2
10	Discretisation process ;Types of elements: 1D, 2D and 3D	CO2
11	Node numbering, Location of nodes.	CO3
12	Strain displacement relations and Stress strain relations	CO3
13	Plain stress and Plain strain conditions, temperature effects	CO3
14	Interpolation models: Simplex, complex and multiplex elements	CO4
15	Linear interpolation polynomials in terms of global coordinates.	CO3
16	1D, 2D, 3D Simplex Elements.	CO4
17	Module II	CO4
	One-Dimensional Elements-Analysis of Bars	CO4
18	One-Dimensional Elements-Analysis of Trusses	CO4
19	Linear interpolation polynomials in terms of local coordinate's for 1D, 2D elements	CO2
20	Higher order interpolation functions for 1D quadratic and cubic elements in natural coordinates	CO2
21	Constant strain triangle(CST Element)	CO2
22	Four-Nodded Tetrahedral Element (TET 4)	CO2
23	Eight-Nodded Hexahedral Element (HEXA 8)	CO2
24	2D isoparametric element, Lagrange interpolation functions	CO3
25	Numerical integration: Gaussian quadrature one point, two point formulae, 2D integrals. Fore terms: Body force, traction force and point loads.	CO1 CO2 CO3
26	Numerical Problems: Solution for displacement, stress and strain in 1D straight bars. using elimination approach and penalty approach	CO1 CO2 CO3 CO4
27	Numerical Problems: Solution for displacement, stress and strain in 1D stepped bars using elimination approach and penalty approach	CO1,CO2, CO3,CO4
28	Numerical Problems: Solution for displacement, stress and strain in 1D tapered bars using elimination approach and penalty approach, Analysis of.	CO1,CO2, CO3,CO4
29	Solution for displacement, stress and strain in trusses (1 element)	CO1,CO2, CO3,CO4

11 2/2 1/2



Sl. No.	Syllabus Covered	Remarks
30	Solution for displacement, stress and strain in trusses (2or 3 Truss)	CO1,CO2, CO3,CO4
31	Module III: Beams and Shafts: Boundary conditions, Load vector,	CO1 CO2 CO3
32	Hermit shape functions.	CO2
33	Beam stiffness matrix based on Euler-Bernoulli beam theory	CO2
34	Examples on cantilever beams, simply supported beams	CO1 CO2 CO3
35	Numerical problems on simply supported beams using direct stiffness method with concentrated and uniformly distributed load	CO1 CO2 CO3
36	Numerical problems on fixed straight beams using direct stiffness method with concentrated and uniformly distributed load	CO1 CO2 CO3
37	Numerical problems on stepped beams using direct stiffness method with concentrated and uniformly distributed load.	CO1 CO2 CO3
38	Torsion of Shafts: Finite element formulation of shafts	CO1
39	Determination of stress and twists in circular shafts	CO2
40	Numerical problems	CO1,CO2 CO3
41	Module IV: Heat Transfer: Basic equations of heat transfer	CO1
42	Energy balance equation, Rate equation: conduction, convection, radiation, energy generated in solid, energy stored in solid	CO2
43	1D finite element formulation using variation method	CO2
44	Problems with temperature gradient and heat fluxes	CO1,CO2 CO3
45	heat transfer in composite sections, straight fins.	CO1,CO2 CO3
46	Fluid Flow: Flow through a porous medium	CO1,CO2 CO3
48	Flow through pipes of uniform and stepped sections	CO1,CO2 CO3
49	Module V :Axi-symmetric Solid Elements	CO1
50	Derivation of stiffness matrix of axisymmetric bodies with triangular elements , Formulation for Lumped mass matrix of bar element and truss element.	CO2
51	Dynamic Considerations: Formulation for point mass, Consistent element mass matrix of one dimensional bar element	CO1 CO2 CO3
52	Numerical solution of axisymmetric triangular element(s) subjected to point loads.	CO1 CO2 CO3


Faculty Signature


HOD - ME

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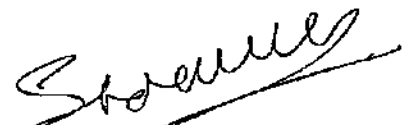
Course outcomes:

COs	Upon successful completion of this course you should be able to:
CO1	Understand the concepts behind formulation methods in FEM.
CO2	Identify the application and characteristics of FEA elements such as bars, beams, plane and Iso-parametric elements.
CO3	Develop element characteristic equation and generation of global equation.
CO4	Able to apply suitable boundary conditions to a global equation for bars, trusses, beams, circular shafts, heat transfer, fluid flow, axi symmetric and dynamic problems and solve them for displacements, stress and strains induced.

Mapping of COs with POs

Course outcomes (COs)	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	3	2	1								
CO2	3	3	2	1								
CO3	3	3	2	1								
CO4	3	3	2	1								


Faculty Signature


HOD - ME

10/10/10



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

EXPERIMENTAL STRESS ANALYSIS

LESSON PLAN

Name of the faculty: SANDEEP.G.R

Designation: Asst. Professor

Hours per week: 4

Sub Code: 17ME832

Total hours:40

SL NO	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
MODULE-1				
1	Electrical Resistance Strain Gages :Definition of terms, Calibration, Standards, Dimension and units generalized measurement system.	1	20	20
2	Basic concepts in dynamic measurements, system response, distortion, impedance matching, Analysis of experimental data, cause and types of experimental errors.	1		
3	General consideration in data analysis.	1		
4	Strain sensitivity in metallic alloys, Gage construction	1		
5	Adhesives and mounting techniques, Gage sensitivity and gage factor	1		
6	Performance Characteristics	1		
7	Environmental effects			
8	Strain Gage circuits, Potentiometer, Wheatstone's bridges, Constant current circuits.			
MODULE-2				
9	Strain Analysis Methods :Two element, three element rectangular	1	20	40
10	Delta rosettes	1		
11	Correction for transverse strain effects.	1		
12	Stress gage,	1		
13	Plane shear gage	1		
14	Stress intensity factor gage.	1		
15	Force, Torque and strain measurements: Mass balance measurement.	1		
16	Elastic element for force measurements, torque measurement.	1		
MODULE-3				
17	Photo-elasticity :Nature of light, Wave theory of light	1	20	60
18	Optical interference , Stress optic law, Effect of stressed model in plane and circular polariscopes	1		
19	Isoclinics & Isochromatics, Fringe order determination, Fringe multiplication techniques	1		

20	Calibration photoelastic model materials, Calibration photoelastic model materials	1		
21	Two Dimensional Photo-elasticity: Separation methods, Shear difference method	1		
22	Analytical separation methods, Model to prototype scaling	1		
23	Properties of 2D photo-elastic model materials	1		
24	Materials for 2D photoelasticity.	1		
	MODULE-4			
25	Three Dimensional Photo elasticity :Stress freezing method, Scattered light photo-elasticity	1		
26	Scattered light as an interior analyzer, Scattered light as an interior polarizer	1		
27	Scattered light polariscope, Stress data Analyses.	1		
28	Photoelastic (Birefringent) Coatings :Birefringence coating stresses, Effects of coating thickness	1	20	80
29	Reinforcing effects, Poisson's	1		
30	Stress separation techniques	1		
31	Stress separation techniques	1		
32	Oblique incidence, Strip coatings.	1		
	MODULE-5			
33	Brittle Coatings :Coatings stresses, Crack patterns,	1		
34	Refrigeration techniques, Load relaxation techniques	1		
35	Crack detection methods, Types of brittle coatings	1		
36	Calibration of coating. Advantages and brittle coating applications	1		
37	Moire Methods :Moire fringes produced by mechanical interference	1	20	100
38	Geometrical approach, Displacement field approach to Moire fringe analysis	1		
39	Out of plane displacement measurements			
40	Out of plane slope measurements, Applications and advantages	1		

TEXT BOOKS:

1. "Experimental Stress Analysis", Dally and Riley, McGraw Hill.
2. "Experimental Stress Analysis". Sadhu Singh, Khanna publisher.
3. Experimental stress Analysis, Srinath L.S tata McGraw Hill.

REFERENCES BOOKS :

1. "Photoelasticity Vol I and Vol II, M.M.Frocht, John Wiley & sons.
2. "Strain Gauge Primer", Perry and Lissner,
3. "Photo Elastic Stress Analysis", Kuske, Albrecht & Robertson John Wiley & Sons.
4. "Motion Measurement and Stress Analysis", Dave and Adams

A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

DYNAMICS OF MACHINES: LESSON PLAN

Name of the faculty: **SRINIDHI ACHARYA S R**

Designation: **Asst. Professor**

Hours per week: **4**

Sub Code: ~~18ME54~~ **17ME54**

Total hours: **50**

SL NO.	MODULES	No. of hours	% of portions covered	Cumulative % of portions covered
Module 1:				
1	Static force Analysis: Static equilibrium.	1	20%	20%
2	Equilibrium of two and three force members. Members with two forces and torque, Free body diagrams.	1		
3	Static force analysis of four bar mechanism and Slider-crank mechanism with and without friction.	1		
4	Numerical	1		
5	Numerical	1		
6	Dynamic force Analysis: D'Alembert's principle,	1		
7	Inertia force, Inertia torque. Dynamic force analysis of four-bar mechanism and Slider crank mechanism without friction, numerical problems.	1		
8	Numerical			
9	Numerical	1		
10	Numerical	1		
Module 2				
11	Balancing of Rotating Masses: Static and dynamic balancing.	1	20%	40%
12	Balancing of single rotating mass by balancing masses in same plane and in different planes.	1		
13	Balancing of several rotating masses by balancing masses in same plane and in different planes.	1		
14	Numerical			
15	Numerical			
16	Balancing of Reciprocating Masses: Inertia effect of crank and connecting rod, Single cylinder engine, balancing in multi cylinder-inline engine (primary and secondary forces), numerical problems.	1		
17	Single cylinder engine, balancing in multi cylinder-inline engine (primary and secondary forces), numerical problems.	1		
18	Numerical	1		
19	Numerical	1		
20	Numerical	1		
Module 3				
21	Governors: Types of governors,	1	20%	60%
22	force analysis of Porter and Hartnell governors	1		
23	Controlling force, Stability, Sensitiveness, Isochronism, Effort and Power.	1		
24	Shear force and bending moments of Pin support and roller supported beams subjected to concentrated loads, uniformly distributed constant / varying loads.	1		
25	Numerical	1		
26	Gyroscope: Vectorial representation of angular motion, Gyroscopic couple. Effect of gyroscopic couple on plane disc,	1		
27	aeroplane, ship, stability of two wheelers and four wheelers, numerical problems.	4		
28	Numerical			
29	Numerical			
30	Numerical			

1954
2 4

MODULE 4			20%	80%
31	Introduction & un damped free Vibrations (Single Degree of Freedom) Types of vibrations, Definitions, Simple Harmonic Motion (SHM),	1		
32	Work done by harmonic force, Principle of super position applied to SHM.	1		
	Methods of analysis – (Newton's, Energy & Rayleigh's methods). Derivations for spring mass systems,.	1		
33	Natural frequencies of simple systems	1		
34	Springs in series and parallel,	1		
35	Torsional and transverse vibrations, Torsional and transverse vibrations, Effect of mass of spring and problems	1		
36	Torsional and transverse vibrations, Effect of mass of spring and problems	1		
37	Numerical			
38	Numerical	1		
39	Numerical	1		
40	Numerical	1		
MODULE - 5			20%	100%
41	Damped free Vibrations (Single Degree of Freedom) Types of damping, Analysis with viscous damping	1		
42	Derivations for over, critical and under damped systems, Logarithmic decrement and numerical problems.	1		
43	Forced Vibrations (Single Degree of Freedom)	1		
44	Analysis of forced vibration with constant harmonic excitation, Magnification factor (M.F)			
45	Vibration isolation - Transmissibility ratio, Excitation of support (absolute and relative),	1		
46	Numerical problems	1		
47	Numerical	1		
48	Numerical	1		
49	Numerical	1		
50	Numerical	1		

Course outcomes:

1. Determine the forces and couples for static and dynamic conditions of four bar and slider crank mechanisms to keep the system in equilibrium.
2. Determine magnitude and angular position of balancing masses under static and dynamic condition of rotating masses in same and different planes.
3. Determine unbalanced primary, secondary forces and couples in single and multi-cylinder engine.
4. Determine sensitiveness, isochronism, effort and power of porter and hartnell governors.
5. Determine gyroscopic couple and effects related to 2, 4 wheeler, plane disc, ship and aeroplanes.
6. Understand types of vibration, SHM and methods of finding natural frequencies of simple mechanical systems.
7. Determine equation of motion, natural frequency, damping factor, logarithmic decrement of damped free vibration (SDOF) systems.
8. Determine the natural frequency, force and motion transmissibility of single degree freedom systems.
9. Determine equation of motion of rotating and reciprocating unbalance systems, magnification factor, and transmissibility of forced vibration (SDOF) systems.

TEXT BOOKS:

1. Theory of Machines, Sadhu Singh, Pearson Education, 2nd Edition. 2007.
2. Mechanism and Machine Theory, A. G. Ambekar PHI, 2007
3. Mechanical Vibrations, V. P. Singh, DhanpatRai and Company,
4. Mechanical Vibrations, G. K. Grover, Nem Chand and Bros.

REFERENCE BOOKS

1. Theory of Machines, Rattan S.S. Tata McGraw Hill Publishing Company Ltd., New Delhi, 3rd Edition, 2009.
2. Mechanical Vibrations, S. S. Rao, Pearson Education Inc, 4edition, 2003.



1

ACS College of Engineering, Bengaluru
Department of Mechanical Engineering
Mechanical Measurements & Metrology
LESSON PLAN

Name of the Faculty: Dr. Suresh P M
 Designation: Professor – PG Studies and R&D
 Hours /Week: 5

SEM: IV SEM
 Sub Code:18ME46B
 Total Hours: 50

Sl. No.	Lesson/Topic	% of portions covered	Cumulative % of portions covered
	Module 1: Introduction to Metrology		
1	Definition, objectives and concept of metrology, Need of inspection, Principles, process,		
2	Methods of measurement, Classification and selection of measuring instruments and systems. Accuracy, precision and errors in measurement. System of measurement,		
3	Material Standard, Wavelength Standards, Subdivision of standards,		
4	Line and End standards,		
5	Classification of standards and Traceability, calibration of End bars		
6	Numerical Problems		
7	Numerical Problems		
8	Standardization. Linear Measurement and angular measurements: Slip gauges- Indian standards on slip gauge,		
9	Method of selection of slip gauge, stack of slip gauge, adjustable slip gauge, wringing of slip gauge, care of slip gauge, slip gauge accessories, problems on building of slip gauges (M87, M112).		
10	Measurement of angles- sine bar, sine center, angle gauges, optical instruments for angular measurements, Auto collimator-applications for measuring straightness and squareness.		
	Module 2: System of Limits, Fits, Tolerance and Gauging:		
13	Definition of tolerance, Specification in assembly, Principle of interchangeability and selective assembly, limits of size, Indian standards		
14	concept of limits of size and tolerances, definition of fits, hole basis system, shaft basis system, types of fits and their designation (IS 919-1963)		
15	Geometric tolerance, position-tolerances. Classification of gauges, brief concept of design of gauges (Taylor's principles), Wear allowance on gauges		
16	Types of gauges-plain plug gauge, ring gauge, snap gauge, limit gauge and gauge materials.		
17	Comparators: Functional requirements, classification, mechanical-Johnson Mikrokator,		
18	sigma comparators, dial indicator,		
19	electrical- principles, LVDT, Pneumatic- back pressure gauges		
20	Solex comparators and optical comparators- Zeiss ultra-optimizer.		
	Module 3: Measurement of screw thread and gear		
21	Terminology of screw threads,		
22	measurement of major diameter, minor diameter, pitch,		
23	angle and effective diameter of screw threads by 2-wire and 3- wire methods,		
		20%	20%
		20%	40%
		20%	60%



24	best size wire. Screw thread gauges, Tool maker's microscope.		
25	Gear tooth terminology, tooth thickness measurement using constant chord method,		
26	addendum comparator method and base tangent method, measurement of pitch,		
27	concentricity, run out, and involute profile.		
28	Gear roll tester for composite error. Advances in metrology: Basic concepts of lasers, advantages of lasers,		
29	laser interferometers, types, applications.		
30	Basic concepts of Coordinate Measuring Machines constructional features, applications.		
	Module 4: Measurement systems and basic concepts of measurement methods:		
31	Definition, significance of measurement,		
32	generalized measurement system, definitions and concept of accuracy, precision,		
33	calibration, threshold, sensitivity, hysteresis, repeatability, linearity, loading effect, system response-time delay.		
34	Errors in measurement, classification of errors.		
35	Transducers, transfer efficiency, primary and secondary transducers,	20%	80%
36	Electrical transducers		
37	Mechanical transducers		
38	electronic transducers, advantages of each type transducers.		
39	Intermediate modifying and terminating devices: Mechanical systems		
40	inherent problems, electrical intermediate modifying devices		
41	input circuitry, ballast circuit,		
42	electronic amplifiers. Terminating devices,		
43	Cathode ray oscilloscope,		
44	Oscillographs.		
	Module 5: Force, Torque and Pressure Measurement:		
45	Direct methods and indirect method,		
46	force measuring inst. Torque measuring inst.,		
47	Types of dynamometers, Absorption dynamometer		
48	Prony brake and rope brake dynamometer		
49	power measuring instruments. Pressure measurement, principle		
50	use of elastic members, Bridgeman gauge, McLeod gauge, Pirani gauge		
51	Measurement of strain and temperature: Theory of strain gauges, types, electrical resistance strain gauge,	20%	100%
52	preparation and mounting of strain gauges, gauge factor, methods of strain measurement.		
53	Temperature Compensation, Wheatstone bridge circuit, orientation of strain gauges for force and torque, Strain gauge based load cells and torque sensors.		
54	Resistance thermometers, thermocouple, law of thermocouple, materials used for construction, pyrometer, optical pyrometer.		

Course Objectives: Students will be able to:

- Understand metrology, its advancements & measuring instruments,
- Acquire knowledge on different standards of length, calibration of End Bars, linear and angular measurements, Screw thread and gear measurement & comparators.
- Equip with knowledge of limits, fits, tolerances and gauging.
- Acquire knowledge of measurement systems and methods with emphasis on different transducers, intermediate modifying and terminating devices.
- Understand the measurement of Force, Torque, Pressure, Temperature and Strain.



Course Outcomes

- Understand the objectives of metrology, methods of measurement, selection of measuring instruments, standards of measurement and calibration of end bars.
- Describe slip gauges, wringing of slip gauges and building of slip gauges, angle measurement using sine bar, sine center, angle gauges, optical instruments and straightness measurement using Autocollimator.
- Explain tolerance, limits of size, fits, geometric and position tolerances, gauges and their design.
- Understand the principle of Johnson Mikrokator, sigma comparator, dial indicator, LVDT, back pressure gauges, Solex comparators and Zeiss Ultra Optimeter
- Describe measurement of major diameter, minor diameter, pitch, angle and effective diameter of screw threads by 2 – wire, 3 – wire methods, screw thread gauges and tool maker's microscope.
- Explain measurement of tooth thickness using constant chord method, addendum comparator methods and base tangent method, composite error using gear roll tester and measurement of pitch, concentricity, run out and involute profile
- Understand laser interferometers and Coordinate measuring machines.
- Explain measurement systems, transducers, intermediate modifying devices and terminating devices.
- Describe functioning of force, torque, pressure, strain and temperature measuring devices.

Text Books:

1. Mechanical Measurements, Beckwith Marangoni and Lienhard, Pearson Education, 6th Ed., 2006.
2. Engineering Metrology, R.K. Jain, Khanna Publishers, Delhi, 2009.

Reference Books:

1. Engineering Metrology and Measurements, Bentley, Pearson Education.
2. Theory and Design for Mechanical Measurements, III edition, Richard S Figliola, Donald E Beasley, WILEY India Publishers.
3. Engineering Metrology, Gupta I.C., DhanpatRai Publications.
4. Deoblin's Measurement system, Ernest Deoblin, Dhaneshmanick, McGraw –Hill.
5. Engineering Metrology and Measurements, N.V.Raghavendra and L.Krishnamurthy, Oxford University Press.



CO/PO Mapping

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	PO11	PO12
CO1	2	3	3	3	2	1	1	1	2	1	2	2
CO2	3	3	3	3	1	1	1		2	1	2	2
CO3	3	3	3	3	2	1	1		2	1	2	2
CO4	1	2	2	3	1	1	1		2	1	2	1
CO5	2	3	3	3	2	1	1		2	1	2	2
CO6	2	3	3	3	2	1	1		2	1	2	2
CO7	1	1	1	1	2	1	1		1		1	1
CO8	1	2	1	2	2	1	1		2	1	1	2
CO9	1	2	2	3	2	1	1		2	1	2	2


HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.



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A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

MECHANICS OF MATERIALS: LESSON PLAN

Name of the faculty: **SRINIDHI ACHARYA S R**

Designation: **Asst. Professor**

Hours per week: **4**

Sub Code: **18ME34**

Total hours: **50**

SL NO.	MODULES	No. of hours	% of portions covered	Cumulative % of portions covered
Module 1:				
1	Stresses and Strains: Introduction.	1	20%	20%
2	Properties of materials, Stress, Strain and Hooke's law,	1		
3	Stress strain diagram for brittle and ductile materials,	1		
4	True stress and strain, Calculation of stresses in straight,	1		
5	Stepped and tapered sections, Composite sections, Stresses due to temperature change,	1		
6	Shear stress and strain, Lateral strain and Poisson's ratio,	1		
7	Elastic constants and relations between them	1		
8	Numerical			
9	Numerical	1		
10	Numerical.	1		
Module 2		1	20%	40%
11	Analysis of Stress and Strain: Introduction to three dimensional state of stress,	1		
12	Stresses on inclined planes, Principal stresses and maximum shear stress,	1		
13	Principal angles, Shear stresses on principal planes, Maximum shear stress,	1		
14	Mohr circle for plane stress conditions.			
15	Numerical			
16	Cylinders: Thin cylinder: Hoop's stress, maximum shear stress, circumferential and longitudinal strains,	1		
17	Thick cylinders: Lames equations.	1		
18	Numerical	1		
19	Numerical	1		
20	Numerical	1		
Module 3			20%	60%
21	Shear Force and Bending Moment: Type of beams, Loads and reactions,	1		
22	Relationship between loads, shear forces and bending moments,	1		
23	Shear force and bending moments of cantilever beams,	1		
24	Shear force and bending moments of Pin support and roller supported beams subjected to concentrated loads, uniformly distributed constant / varying loads.	1		
25	Numerical	1		
26	Stress in Beams: Bending and shear stress distribution in rectangular, I and T section beams.	1		
27	Numerical	4		
28	Numerical			
29	Numerical			
30	Numerical			



MODULE 4			20%	80%
31	Theories of Failure: Maximum Principal stress theory,	1		
32	Maximum shear stress theory.	1		
	Numerical			
33	Torsion: Circular solid and hollow shafts,	1		
34	Torsional moment of resistance,			
35	Power transmission of straight and stepped shafts, Twist in shaft sections,	1		
36	Thin tubular sections, Thin walled sections.	1		
37	Numerical	1		
38	Numerical	1		
39	Numerical	1		
40	Numerical	1		
MODULE - 5			20%	100%
41	Columns: Buckling and stability, Critical load,	1		
42	Columns with pinned ends, Columns with other support conditions,	1		
43	Effective length of columns, Secant formula for columns.	1		
44	Numerical	1		
45	Numerical	1		
46	Strain Energy: Strain energy due to axial, shear, bending,	1		
47	Strain Energy due to torsion and impact load.	1		
48	Castigliano's theorem I and II and their applications.			
49	Numerical	1		
50	Numerical	1		

Course Outcomes:

At the end of the course, the student will be able to:

CO1: Understand simple, compound, thermal stresses and strains their relations and strain energy.

CO2: Analyse structural members for stresses, strains and deformations.

CO3: Analyse the structural members subjected to bending and shear loads.

CO4: Analyse shafts subjected to twisting loads.

CO5: Analyse the short columns for stability.

Sl No	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Mechanics of Materials	J M Gere, B J Goodno,	Cengage	Eighth edition 2013
2	Fundamentals of Strength of Materials	P N Chandramouli	PHI Learning Pvt. Ltd	2013
3	Strength of Materials	R K Rajput	S. Chand and Company Pvt. Ltd	2014
Reference Books				
1	Strength of Materials	R. Subramanian	Oxford	2005
2	Strength of Materials	S. S. Ratan	Tata McGraw Hill	2nd Edition, 2008
3	Mechanics of materials Strength of Materials	S C Pilli and N Balasubramanya	Cengage	2019
4	Mechanics of Materials	Ferdinand Beer, Russell Johnston, John Dewolf, David Mazurek	McGraw Hill Education (India) Pvt. Ltd	Latest edition
5	Mechanics of Materials	R C Hibbeler	Pearson	Latest edition

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13

ACS COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN METAL CASTING & WELDING

Name of the faculty: **RAKESH S.**
 Designation: **Assistant Professor**
 Hours per week: **5 hrs**

Sub Code **18ME35B**
 Total hours: **50**

	Topics	No. of Hours	CO's	PO's
MODULE-I				
INTRODUCTION & BASIC MATERIALS USED IN FOUNDRY				
1	Introduction: Definition, Classification of manufacturing processes	1	CO1	PO1
2	Metals cast in the foundry-classification	1	CO1	PO1
3	Factors that determine the selection of a casting alloy	1	CO1	PO1
4	Introduction to casting process & steps involved	1	CO1	PO1
5	Patterns: Definition, classification materials used for pattern, various pattern allowances and their importance.	1	CO2	PO1
6	Sand molding: Types of base sand, requirement of base sand. Binder, Additives definition, need and types	1	CO2	PO1
7	Preparation of sand molds: Molding machines- Jolt type, squeeze type and Sand slinger	1	CO2	PO1
8	Study of important molding process: Green sand, core sand, dry sand, sweep mold, CO2 mold, shell mold, investment mold, plaster mold, cement bonded mold	1	CO2	PO1
9	Cores: Definition,-need, types. Method of making cores	1	CO2	PO1
10	Concept of gating (top, bottom, parting line, horn gate) and risering (open, blind) Functions and types	1	CO2	PO1
MODULE-2				
MELTING & METAL MOLD CASTING METHODS				
11	Melting furnaces: Classification of furnaces	1	CO3	PO1
12	Gas fired pit furnace, Resistance furnace	1	CO3	PO1
13	Coreless induction furnace, electric arc furnace,	1	CO3	PO1
14	Constructional features & working principle of cupola furnace	1	CO3	PO1
15	Casting using metal molds: Gravity die casting	1	CO4	PO1
16	Pressure die casting, centrifugal casting	1	CO4	PO1
17	Squeeze casting	1	CO4	PO1
18	Slush casting, thixocasting	1	CO4	PO1
19	Continuous casting processes	1	CO4	PO1
20	Revision of module two	1	CO4	PO1
MODULE - 3				
SOLIDIFICATION & NON FERROUS FOUNDRY PRACTICE				
21	Solidification: Definition, Nucleation, solidification variables	1	CO5	PO1
22	Directional solidification-need and methods	1	CO5	PO1
23	Degasification in liquid metals-Sources of gas	1	CO5	PO1
24	Degasification methods introduction of fettling and cleaning	1	CO5	PO1
25	Fettling and cleaning of castings: Basic steps involved. Sand Casting defects- causes	1	CO5	PO1
26	Features and remedies. Advantages & limitations of casting process	1	CO5	PO1
27	Nonferrous foundry practice: Aluminum castings - Advantages, limitations	1	CO5	PO1
28	Melting of aluminum using lift-out type crucible furnace. Hardeners used, dressing, gas absorption	1	CO5	PO1
29	Fluxing and flushing, grain refining, pouring temperature.	1	CO5	PO1

30	Stir casting set up, procedure, uses, advantages and limitations.	1	CO5	PO1
MODULE – 4 WELDING PROCESS				
31	Welding process: Definition, Principles, Classification	1	CO6	PO1
32	Application, Advantages & limitations of welding	1	CO6	PO1
33	Arc welding: Principle, Metal arc welding (MAW)	1	CO6	PO1
34	Flux Shielded Metal Arc Welding (FSMAW), Inert Gas Welding	1	CO6	PO1
35	Submerged Arc Welding (SAW) and Atomic Hydrogen Welding (AHW).	1	CO6	PO1
36	Special type of welding: Resistance welding principles	1	CO6	PO1
37	Seam welding, Butt welding,	1	CO6	PO1
38	Spot welding and Projection welding	1	CO6	PO1
39	Friction welding, Explosive welding, Thermit welding	1	CO6	PO1
40	Laser welding and electron beam welding.	1	CO6	PO1
MODULE -5 SOLDERING , BRAZING AND METALLURGICAL ASPECTS IN WELDING				
41	Structure of welds, Formation of different zones during welding, Heat Affected Zone (HAZ)	1	CO7	PO1
42	Parameters affecting HAZ	1	CO7	PO1
43	Effect of carbon content on structure and properties of steel	1	CO7	PO1
44	Shrinkage in welds & Residual stresses, Concept of electrodes, filler rod and fluxes	1	CO7	PO1
45	Welding defects- Detection, causes & remedy	1	CO7	PO1
46	Soldering, brazing, gas welding: Soldering, Brazing, Gas Welding: Principle, oxy-Acetylene welding, oxy-hydrogen welding	1	CO7	PO1
47	air-acetylene welding, Gas cutting, powder cutting	1	CO7	PO1
48	Inspection methods: Methods used for inspection of casting and welding	1	CO7	PO1
49	Visual, magnetic particle, fluorescent particle, ultrasonic	1	CO7	PO1
50	Radiography, eddy current, holography methods of inspection	1	CO7	PO1

TEXT BOOKS:

1. "Manufacturing Process-I", Dr.K. Radhakrishna, Sapna Book House, 5th Revised Edition 2009.
2. "Manufacturing & Technology: Foundry Forming and Welding", P.N. Rao, 3rd Ed., Tata McGraw Hill. 2003

REFERENCE BOOKS:

1. "Process and Materials of Manufacturing", Roy A Lindberg, 4th Ed. Pearson Edu. 2006.
2. "Manufacturing Technology", Serope Kalpakjian, Steuen. R. Sechmid, Pearson Education Asia, 5th Ed. 2006.
3. "Principles of metal casting", Rechar W. Heine, Carl R. Loper Jr., Philip C. Rosenthal, Tata McGraw Hill Education Private Limited Ed.1976.

Question paper pattern:

- The question paper will have ten questions.
- Each full question consisting of 16 marks.
- There will be 2 full questions (with a **maximum** of 4 sub questions) from each module.
- Each full question will have sub questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module


Staff In charge


HOD HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074

A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

FLUID MECHANICS

LESSON PLAN

Name of the faculty: **Kumar B.M.**

Designation: **Asst. Professor**

Hours per week: **5**

Sub Code: **18ME43**

Total hours: **50**

Module	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
1	Introduction			
	Properties of fluids-Mass density, Weight density and Specific volume. Specific gravity and Viscosity.	1	20	20
	Surface tension and Capillarity.	1		
	Vapour pressure, Compressibility and Bulk Modulus.	1		
	Concept of continuum, Types of fluids etc, pressure at a point in the static mass of fluid.	1		
	Variation of pressure, Pascal's law, Absolute, gauge, atmospheric and vacuum pressures.	1		
	Pressure measurement by simple, differential manometers and mechanical gauges.	1		
	Fluid Statics: Total pressure and center of pressure for horizontal plane. Vertical plane surface and inclined plane surface submerged in static fluid.	1		
	Buoyancy, center of buoyancy, meta center and meta centric heights.	1		
	Application in shipping, Stability of floating bodies.	1		
	Numerical problems.	1		
	Numerical problems.	1		
	Numerical problems.	1		
2	Fluid Kinematics: Types of Flow-steady, unsteady, uniform, non-uniform, laminar, turbulent, Problems.	1		
	One, two and three dimensional, compressible, incompressible, rotational, irrotational flow.	1		
	Stram lines, path lines, streak lines, velocity components, convective and local acceleration.	1		
	Velocity potential, stream function, continuity equation in Cartesian co-ordinates.	1		
	Vorticity and circulation, Laplace equation in velocity potential and Poisson equation in stream function, flow Net.	1		
	Numerical problems	1		
	Numerical problems	1		
	Fluid Dynamics: Momentum equation, Impacts of jets-force on fixed and moving vanes	1		
	Flat and curved Vanes, Euler's equation.	1		
	Integration of Euler's equation to obtain Bernoulli's equation, Bernoulli's theorem.	1		

	Application of Bernoulli's theorem such as venture meter.	1		
	Orifice meter, Rectangular and triangular notch.	1		
	Pitot tube, orifices etc., related numericals.	1		
	Numerical problems.	1		
3	Laminar and turbulent flow: Reynods Number, Entrance flow and Developed flow,	1	20	60
	Navier-Stokes Equation (no derivation),Laminar flow between parallel plates,	1		
	Poiseuille equation –velocity profile, Counter flow, Fully developed laminar flow in circular pipes.	1		
	Hagen – Poiseuille equation.	1		
	Numerical problems.	1		
	Numerical problems.	1		
	Energy consideration in pipe flow, Loss of Pressure Head due to Fluid Friction.	1		
	DarcyWeishach formula, major and minor losses in pipes.	1		
	Commercial pipe, Colebrook equation, Moody equation/ diagram. Pipes in series, parallel, equivalent pipe	1		
	Related Numericals and simple pipe design problems.	1		
4	Flow over bodies : Development of boundary layer, Prandtl's boundary layer equations	1	20	80
	Blasius solution, laminar layer over a flat plate,	1		
	Boundary layer separation and its control.	1		
	Basic concept of Lift and Drag, Types of drag, Co-efficient of drag and lift,	1		
	Streamline body and bluff body, flow around circular bodies and airfoils, Lift and drag on airfoil,	1		
	Numerical problems.	1		
	Dimensional analysis: Need for dimensional analysis, Dimensions and units.	1		
	Dimensional Homogeneity and dimensionless ratios,	1		
	Methods of dimensional analysis, Rayleigh's method, Buckingham Pi theorem,	1		
	Similitude and Model studies. Numerical problems.	1		
5	Compressible Flows: Introduction, thermodynamic relations of perfect gases.	1	20	100
	Internal energy and enthalpy, speed of sound, pressure field due to a moving source.	1		
	Basic Equations for one dimensional flow, stagnation and sonic Properties, normal and oblique shocks.	1		
	Introduction to CFD: Necessity, limitations.	2		
	Philosophy behind CFD, applications.	2		

10/10/10

10/10/10

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TEXT BOOKS:

1. Fluid Mechanics (SI Units), Yunus A. Cengel John M.Cimbala, 3rd Ed., Tata McGraw Hill, 2014.
2. Fluid Mechanics, F M White, McGraw Hill Publications Eighth edition. 2016

REFERENCE BOOKS:

1. Fundamentals of Fluid Mechanics by Munson, Young, Okiishi & Huebsch, John Wiley Publications. 7th edition.
2. Fluid Mechanics, Pijush.K.Kundu, IRAM COCHEN, ELSEVIER, 3rd Ed. 2005.

Course outcomes:

- CO1: Identify and calculate the key fluid properties used in the analysis of fluid behavior.
- CO2: Understand and apply the principles of pressure, buoyancy and floatation
- CO3: Apply the knowledge of fluid statics, kinematics and dynamics while addressing problems of mechanical and chemical engineering.
- CO4: Understand and apply the principles of fluid kinematics and dynamics.
- CO5: Understand the concept of boundary layer in fluid flow and apply dimensional analysis to form dimensionless numbers in terms of input output variables.
- CO6: Understand the basic concept of compressible flow and CFD


CO – PO MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	1	1	1	2	2	2	1	2	1	1
CO2	3	3	1	1	1	1	1	2	1	2	1	1
CO3	3	3	1	1	1	1	1	2	1	2	1	1
CO4	2	2	1	1	1	2	2	2	1	2	1	1
CO5	2	2	1	1	1	1	1	2	1	2	1	1
CO6	2	2	1	1	1	1	2	2	1	2	1	1

Note:

3 = Above Average	2 = Average	1 = Below Average
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Signature of faculty


Signature of HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

ACS COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

MODULE WISE LESSON PLAN

Course title and code: Kinematics of Machines (18ME44)	
Module 1	Planned Hours: 10

Learning Objectives:

At the end of this chapter student will be able to,

- Define link or element, Machine, mechanism, structure, kinematic pair. Kinematic chain.
- Compute the degree of freedom of various mechanisms.
- Explain mobility of mechanism and inversion.
- Explain the working of Quick return mechanisms- Drag link mechanisms, Whitworth mechanism and Crank and slotted lever mechanism.
- Demonstrate the Straight line motion mechanisms- Peaucellier's mechanism, Robert's mechanism.
- Explain the working of intermittent motion mechanisms- Geneva mechanism, Ratchet and Pawl mechanism etc

Lesson Schedule:

Lecture No	Topics Covered	Teaching Method	Po's Attained	Co's Attained	Reference Book/Chapter No
L1	INTRODUCTION- Definitions; link or element, kinematic pair.	Chalk & Board	a, e, h, i	1	T1, T2, R1
L2	Definitions; link or element, kinematic pair, Kinematic chain, mechanism, structure, mobility of mechanism.	PPT	a, e, h, i	1	T1, T2, R1
L3	Degrees of freedom, Grubler's criterion (without derivation), Groshoff's Criteria and inversions	Chalk & Board	a, e, h, i	1	T1, T2, R1
L4	KINEMATIC CHAIN AND INVERSIONS: Inversions of four bar chain,	PPT Chalk & Board	a, e, h, i	1	T1, T2, R1
L5	Inversions single slider crank chain, double slider crank chain	Chalk & Board PPT	a, e, h, i	1	T1, T2, R1



L6	MECHANISMS: Quick return Mechanisms- Drag link mechanisms, Whitworth mechanism and Crank and slotted lever mechanism.	Chalk & Board	a, e, h, i	1	T1, T2, R1, R2
L7	Straight line motion mechanisms- Peaucellier's mechanism, Robert's mechanism,	PPT/Chalk & Board	a, e, h, i	1	T1, T2, R1, R2
L8	Intermittent motion mechanisms- Geneva mechanism and Ratchet and Pawl mechanism.	PPT/Chalk & Board	a, e, h, i	1	T1, T2, R1, R2
L9	Toggle mechanisms, Pantograph mechanism,	PPT/Chalk Board	a, e, h, i	1	T1, T2, R1, R2
L10	Ackerman steering mechanism.	Chalk & Board	a, e, h, i	1	T1, T2, R1, R2

MODULE WISE LESSON PLAN

Course title and code : Kinematics of Machines (18ME44)
Module 2 Planned Hours: 10

Learning Objectives:

At the end of this chapter students will be able to,

- Evaluate the velocity and acceleration by vector polygons of four bar mechanism, slider crank chain mechanism and simple mechanisms
- Explain the relative velocity and acceleration of particles on a common link.
- Explain and determine the velocity and acceleration of coincident particles on separate links. Explain and determine Coriolis component of acceleration.
- Evaluate the angular velocity angular acceleration of links, velocity of rubbing.
- Explain the Kennedy's theorem.
- Evaluate linear and angular velocity using instantaneous center method.
- Demonstrate the velocity and acceleration diagrams of single crank mechanism using Klein's construction method.

Lesson Schedule:

Lecture No	Topics Covered	Teaching Method	Po's Attained	Co's Attained	Reference Book/Chapter No
L11	Velocity and acceleration analysis of four bar mechanism by vector polygons,	Chalk & Board	a, e, h, i	2,3	T1, T2, R1



L12	Slider crank chain mechanism and simple mechanisms by vector polygons: relative velocity and acceleration of particles on a common link, Velocity and Acceleration of Coincident particles on separate links. Problems	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L13	Coriolis component of acceleration,Problems	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L14	Angular velocity angular acceleration of links, velocity of rubbing,Problems	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L15	Definition, Kennedy's theorem, determination of linear and angular velocity using instantaneous center method.	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L16	Problems	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L17	KLEIN'S CONSTRUCTION: Analysis of velocity and acceleration of single crank mechanism	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L18	Problems	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L19	Problems	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L20	Problems	Chalk & Board	a, e, h, i	2,3	T1,T2,R1

MODULE WISE LESSON PLAN

Course title and code: Kinematics of Machines (18ME44)	
Module 4	Planned Hours: 10

Learning Objectives:

At the end of this chapter students will be able to,

- Explain gear terminology and law of gearing.
- Explain the characteristics of involutes action, path of contact, arc of contact and contact ratio and principle of interference in involutes gears.
- Explain the methods of avoiding interference, backlash.
- Compare involutes and cycloidal teeth profile.
- Explain simple gear trains, compound gear trains for large speed reduction, epicyclical gear trains.
- Explain the algebraic methods of finding velocity ratio of epicyclical gear trains.
- Explain the tabular methods of finding velocity ratio of epicyclical gear trains.
- Evaluate the tooth load and torque calculations in epicyclical gear trains.

Lesson Schedule:

Lecture No	Topics Covered	Teaching Method	Po's Attained	Co's Attained	Reference Book/Chapter No
L21	SPUR GEARS: Gear Terminology law of gearing, Path of Contact.	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,
L22	Arc of contact, Contact ratio, Problem	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,
L23	Interference in involutes gears. Methods of avoiding interference, Problems	Chalk & Board	a, e, h, i	2,3	T1,T2,R1,
L24	Backlash, comparison of involutes and cycloidal teeth	Chalk & Board PPT	a, e, h, i	2,3	T1,T2 ,R1,
L25	GEAR TRAINS: Simple gear trains , Compound gear trains for large speed reduction,	Chalk & Board PPT	a, e, h, i	2,3	T1,T2 ,R1,
L26	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,
L27	Epicyclical gear trains, algebraic methods of finding velocity ratio of epicyclical gear trains.	Chalk & Board	a, e, h, i	2,3	T1,T2,R1,
L28	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,
L29	Epicyclical gear trains tabular methods of finding velocity ratio of epicyclical gear trains. Tooth load and torque calculations in epicyclical gear trains.	Chalk & Board	a, e, h, i	2,3	T1,T2,R1,
L30	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 , R1,

MODULE WISE LESSON PLAN

Course title and code: Kinematics of Machines (18ME44)	
Module 5	Planned Hours: 10

Learning objectives:

At the end of this chapter students will be able to,

- Explain types of cams, types of follower.
- Explain the displacement, velocity and acceleration time curves for SHM, uniform velocity, uniform acceleration and retardation and cycloidal motion.
- Create the disc cam profiles for reciprocating follower having knife- edge, roller and flat faced follower.
- Identify disc cam profile for oscillating roller follower.

Lesson Schedule:

Lecture No	Topics Covered	Teaching Method	Po's Attained	Co's Attained	Reference Book/Chapter No
L31	Types of cams, types of follower,	Chalk & Board PPT	a, e, h, i	2,3	T1,T2 ,R1
L32	Displacement, velocity and acceleration time curves for cam profiles.	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1
L33	Follower motions including SHM, uniform velocity, uniform acceleration and retardation and cycloidal motion.	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L34	Disc cam with reciprocating follower having knife- edge, roller	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1
L35	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2,R1
L36	Flat faced follower, disc cam with oscillating roller follower.	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1
L37	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 R1
L38	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1
L39	Analysis of arc Cams with flat faced follower	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1
L40	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1

MODULE WISE LESSON PLAN

Course title and code: Kinematics of Machines (18ME44)	
Module 3	Planned Hours: 10

Learning Objectives:

At the end of this chapter students will be able to,

- Compute the velocity and accelerations of the four bar chain and slider crank chain using analytical expression. (Complex algebra).
- Compute the velocity and accelerations the four bar chain and slider crank chain using analytical expression. (Vector algebra).

Lesson Schedule:

Lecture No	Topics Covered	Teaching Method	PO's Attained	CO's Attained	Reference Book/Chapter No
L41	Velocity and acceleration analysis of mechanisms analytical method): Analysis of four bar chain	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,R2
L42	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,R2
L43	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,R2
L44	Slider crank chain using analytical expression use of complex algebra	Chalk & Board	a, e, h, i	2,3	T1,T2,R1,R2
L45	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,R2
L46	Freudenstein's Equation: Four bar & Slider crank Mechanism	Chalk & Board	a, e, h, i	2,3	T1,T2,R1,R2
L47	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,R2
L48	Function Generation for Four bar Mechanism	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,R2
L49	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,R2
L50	PROBLEMS	Chalk & Board	a, e, h, i	2,3	T1,T2 ,R1,R2

---: End of Kinematics of Machines Lesson Plan:--



FACULTY INCHARGE



HOD MECHANICAL
HOD

Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

ACS COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN METAL CUTTING & FORMING

Name of the faculty: **RAKESH S.**
 Designation: **Assistant Professor**
 Hours per week: **5 hrs**

Sub Code: **18ME45A**
 Total hours: **50**

	Topics	No. of Hours	CO's	PO's
MODULE-1				
1	Orthogonal and oblique cutting	1	1, 2	1, 2, 3, 6, 8, 10, 11
2	Classification of cutting tools: single, and multipoint; tool signature for single point cutting tool	1	1, 2	1, 2, 3, 6, 8, 10, 11
3	Classification of cutting tools: single, and multipoint; tool signature for single point cutting tool	1	1, 2	1, 2, 3, 6, 8, 10, 11
4	Mechanics of orthogonal cutting; chip formation, shear angle and its significance, Merchant circle diagram	1	1, 2	1, 2, 3, 6, 8, 10, 11
5	Cutting tool materials and applications	1	1, 2	1, 2, 3, 6, 8, 10, 11
6	Numerical problems	1	1, 2	1, 2, 3, 6, 8, 10, 11
7	Lathe- Parts of lathe machine	1	1, 2	1, 2, 3, 6, 8, 10, 11
8	accessories of lathe machine	1	1, 2	1, 2, 3, 6, 8, 10, 11
9	Various operations carried out on lathe. Kinematics of lathe	1	1, 2	1, 2, 3, 6, 8, 10, 11
10	Turret and Capstan lathe	1	1, 2	1, 2, 3, 6, 8, 10, 11
MODULE-2				
11	Various Milling operations, classification of milling machines	1	3	1, 2, 3, 6, 8, 10, 11
12	Vertical & Horizontal milling	1	3	1, 2, 3, 6, 8, 10, 11
13	up milling & down milling	1	3	1, 2, 3, 6, 8, 10, 11
14	Indexing: need of indexing	1	3	1, 2, 3, 6, 8, 10, 11
15	simple, compound & differential indexing	1	3	1, 2, 3, 6, 8, 10, 11
16	Difference between drilling, boring & reaming, types of drilling machines	1	3	1, 2, 3, 6, 8, 10, 11
17	Boring operations & boring machines	1	3	1, 2, 3, 6, 8, 10, 11
18	Shaping, Planing and Slotting machines-machining operations and operating parameters	1	3	1, 2, 3, 6, 8, 10, 11
19	Grinding operation, classification of grinding processes	1	3	1, 2, 3, 6, 8, 10, 11
20	cylindrical, surface & centerless grinding	1	3	1, 2, 3, 6, 8, 10, 11
MODULE - 3				



21	Introduction to tool wear	1	4	1, 2, 3, 6, 8, 10, 11
22	tool wear mechanisms, tool life equations	1	4	1, 2, 3, 6, 8, 10, 11
23	effect of process parameters on tool life, machinability	1	4	1, 2, 3, 6, 8, 10, 11
24	Cutting fluid-types and applications	1	4	1, 2, 3, 6, 8, 10, 11
25	surface finish, effect of machining parameters on surface finish	1	4	1, 2, 3, 6, 8, 10, 11
26	Economics of machining process	1	4	1, 2, 3, 6, 8, 10, 11
27	choice of cutting speed and feed, tool life for minimum cost and production time	1	4	1, 2, 3, 6, 8, 10, 11
28	Numerical problems	1	4	1, 2, 3, 6, 8, 10, 11
29	Numerical problems	1	4	1, 2, 3, 6, 8, 10, 11
30	Numerical problems	1	4	1, 2, 3, 6, 8, 10, 11
MODULE - 4				
31	Introduction to metal forming processes	1	5	1, 2, 3, 6, 8, 10, 11
32	classification of metal forming processes	1	5	1, 2, 3, 6, 8, 10, 11
33	Hot working & cold working of metals	1	5	1, 2, 3, 6, 8, 10, 11
34	Forging: Smith forging, drop forging & press forging	1	5	1, 2, 3, 6, 8, 10, 11
35	Forging Equipment, Defects in-forging	1	5	1, 2, 3, 6, 8, 10, 11
36	Rolling: Rolling process, Angle of bite	1	5	1, 2, 3, 6, 8, 10, 11
37	Types of rolling mills, Variables of rolling process	1	5	1, 2, 3, 6, 8, 10, 11
38	Rolling defects	1	5	1, 2, 3, 6, 8, 10, 11
39	Drawing & Extrusion: Drawing of wires, rods & pipes, Variables of drawing process	1	5	1, 2, 3, 6, 8, 10, 11
40	Difference between drawing & extrusion. Various types of extrusion processes	1	5	1, 2, 3, 6, 8, 10, 11
MODULE -5				
41	Sheet Metal Operations: Introduction	1	6	1, 2, 3, 6, 8, 10, 11
42	Blanking, piercing, punching	1	6	1, 2, 3, 6, 8, 10, 11
43	drawing, draw ratio,	1	6	1, 2, 3, 6, 8, 10, 11
44	drawing force, variables in drawing, Trimming	1	6	1, 2, 3, 6, 8, 10, 11
45	Trimming, and Shearing	1	6	1, 2, 3, 6, 8, 10, 11
46	Bending — types of bending dies	1	6	1, 2, 3, 6, 8, 10, 11
47	Bending force calculation	1	6	1, 2, 3, 6, 8, 10, 11

				8, 10, 11
48	Embossing and coining	1	6	1, 2, 3, 6, 8, 10, 11
49	Types of dies: Progressive	1	6	1, 2, 3, 6, 8, 10, 11
50	Types of dies: compound and combination dies	1	6	1, 2, 3, 6, 8, 10, 11

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Manufacturing Technology Vol I & II	P.N.Rao	Tata McGraw Hill Pub. Co. Ltd., New Delhi	1998
2	A textbook of Production Technology Vol I and II	Sharma, P.C.,	S. Chand & Company Ltd., New Delhi	1996
3	Manufacturing Science	Amithab Gosh & A.K.Malik	East-West press	2001
Reference Books				
3	Workshop Technology Vol. I and II	Chapman W. A. J.	Arnold Publisher New Delhi	1998
4	Elements of Manufacturing Technology Vol II,	Hajra Choudhary, S. K. and Hajra Choudhary, A. K.	Media Publishers, Bombay	1988
5	Metal Forming Handbook	Schuler	Springer Verlag Publication	
6	Metal Forming: Mechanics and Metallurgy	Hosford, WF and Caddell, R.M	Prentice Hall	1993
7	Manufacturing Engineering and Technology	Kalpakjian	Addision Wesley Congmen Pvt. Ltd.	2000
8	Production Technology	HMT		

Question paper pattern:

- The question paper will have ten questions.
- Each full question consisting of 16 marks.
- There will be 2 full questions (with a **maximum** of 4 sub questions) from each module.
- Each full question will have sub questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module


Staff In charge


HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

A C S COLLEGE OF ENGINEERING
Department of Mechanical Engineering
MANAGEMENT AND ENGINEERING ECONOMICS
LESSON PLAN

Name of the faculty: **SUNILRAJ B.A.**

Designation: **Asst. Professor**

Hours per week: **4**

Sub Code: **15ME51**

Total hours: **50**

SL NO.	MODULES	NO. of hours	% of portions covered	Cumulative % of portions covered
Module 1:				
1	Management: Introduction - Meaning - nature and characteristics of Management,	1	20%	20%
2	Scope and Functional areas of management	1		
3	Management as a science, art of profession	1		
4	Management & Administration - Roles of Management	1		
5	Levels of Management, Development of Management Thought	1		
6	Early management approaches, Roles of Manager Modern management approaches	1		
7	Planning: Nature, importance of Planning, purpose of planning process	1		
8	Objectives - Types of plans (Meaning Only)			
9	Decision making Importance of planning	1		
10	Steps in planning & planning premises, Hierarchy of plans.	1		
	Module 2	1	20%	40%
11	Organizing And Staffing: Nature and purpose of organization	1		
12	Principles of organization - Types of organization	1		
13	Departmentation Committees- Centralization Vs Decentralization of authority. and responsibility	1		
14	Span of control - MBO and MBE (Meaning Only)			
15	Nature and importance of staffing-			
16	Process of Selection & Recruitment (in brief)	1		
17	Directing & Controlling: Meaning and nature of directing	1		
18	Leadership styles, Motivation Theories, Communication	1		
19	Meaning and importance – coordination, meaning and importance, Techniques of Co Ordination, Meaning and steps in controlling	1		
20	Essentials of a sound control system, Method of Establishing Control	1		

Module 3			20%	60%
21	Engineering and Economics	1		
22	Engineering Decision-Makers, Problem solving and Decision making	1		
23	Intuition and Analysis, Tactics and Strategy. Engineering Economic Decision, Maze	1		
24	Law of demand and supply, Law of returns.	1		
25	Interest and Interest factors: Interest rate,	1		
26	Simple interest, Compound interest, Cash - flow diagrams.	1		
27	Personal loans and EMI Payment, Exercises and Discussion.	1		
28	Problems Exercises and Discussion			
29	Problems Exercises and Discussion			
30	Problems Exercises and Discussion			
MODULE 4			20%	80%
31	Present-Worth Comparisons: Conditions for present worth comparisons	1		
32	Basic Present worth comparisons and problems, Present-worth equivalence, Net Present worth,	1		
33	Assets with unequal lives infinite lives, Future-worth comparison, Pay-back comparison and problems.	1		
34	Exercises, Discussions and problems.			
35	Equivalent Annual-Worth Comparisons: Equivalent Annual-Worth Comparison methods	1		
36	Situations for Equivalent Annual-Worth Comparisons.	1		
37	Consideration of asset life, Comparison of assets with equal and unequal lives and problems.	1		
38	Use of shrinking fund method, Annuity contract for guaranteed income, Exercises, Problems.	1		
39	Rate of return, Minimum acceptable rate of return,	1		
40	IRR, IRR misconceptions.	1		
		1		
MODULE - 5			20%	100%
41	Cost of capital concepts, Causes of Depreciation.			
42	Basic methods of computing depreciation charges.	1		
43	Tax concepts, and corporate income tax.	1		
44	Numerical Solved and Discussed	1		
45	Estimating and Costing Introduction	1		
46	Components of costs such as Direct Material Costs.	1		
47	Components of costs such as Direct Labor Costs.	1		
48	Fixed Over-Heads, Factory cost, Administrative Over-Heads.			
49	First cost, Marginal cost, Selling price	1		
50	Estimation for simple components.	1		

TEXT BOOKS

1. Principles of Management by Tripathy and Reddy
2. Mechanical estimation and costing, T.R. Banga & S.C. Sharma, 17th edition 2015
3. Engineering Economy, Riggs J.L. McGraw Hill, 2002
4. Engineering Economy, Thuesen H.G. PHI , 2002

REFERENCE BOOKS

1. Management Fundamentals - Concepts, Application, Skill Development - Robers Lusier - Thomson
2. Basics of Engineering Economy, Leland Blank & Anthony Tarquin, McGraw Hill Publication (India) Private Limited
3. Engineering Economics, R.Paneerselvam, PHI publication
4. Fundamentals of Management: Essential Concepts and Applications, Pearson Education, Robbins S.P. and Decenzo David A.
5. Economics: Principles of Economics, N Gregory Mankiw, Cengage Learning
6. Modern Economic Theory, By Dr. K. K. Dewett & M. H. Navalur, S. Chand Publications

Course outcomes on completion of this subject student will be able to

1. Understand needs, functions, roles, scope and evolution of Management
2. Understand importance, purpose of Planning and hierarchy of planning and also analyze its types
3. Discuss Decision making, Organizing, Staffing, Directing and Controlling
4. Select the best economic model from various available alternatives
5. Understand various interest rate methods and implement the suitable one.
6. Estimate various depreciation values of commodities
7. Prepare the project reports effectively.




HOD
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Bangalore - 560 074.

Mapping of Course outcome (Cos) to Program Outcome (PO's)(15ME51)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO.1		1				2		3	3	2		2
CO.2				2				2	1	1		1
CO.3				1		1		3	3	2		
CO.2					1	1		2	3	2		2
CO.4	2	1	1				1				2	3
CO.5		1	1				2	1				1
CO.6		1		1	1	2	2					2
CO.7									2	1	2	3
Average	2	1	1	2	1	2	2	3	3	2	2	3

Internal Assessment Syllabus:

IA Test	Syllabus
1	Module 1, 2
2	Unit 3,4
3	Unit 5

A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CBCS

DESIGN OF MACHINE ELEMENTS- I

LESSON PLAN

Name of the Faculty: SANDEEP G R

Hours per week: 5 Hours

Designation: Assistant Professor

Total hours: 50

Sub Code: 17ME54

SL NO	TOPICS	Cumulative No. of Hours	% of portions covered	Cumulative % of portions covered
	Module- 1: Fundamentals of Mechanical Engineering Design			
1	Mechanical engineering design	1		
2	Phases of design process, Design considerations	2		
3	Standards and Codes, Factor of safety	3		
4	Engineering Materials and their Mechanical properties, Stress tensor, Principal Stresses.	4		
5	Material selection	5	20	20
6	Static Stresses: Static loads .Normal, Bending, Shear and Combined stresses.	6		
7	Stress concentration	7		
8	Determination of stress concentration factor. Stress-Strain diagrams, Stress Analysis.	8		
9	Numerical	9		
10	Numerical	10		
	Module- 2: Design for Impact and Fatigue Loads			
1	Impact stress due to Axial loads.	11		
2	Impact stress due to Bending loads.	12		
3	Impact stress due to Torsional loads.	13		
4	Fatigue failure: Endurance limit, S-N Diagram	14		
5	Low cycle fatigue, High cycle fatigue	15		
6	Modifying factors: size effect, surface effect. Stress concentration effects	16	20	40
7	Notch sensitivity, fluctuating stresses	17		
8	Goodman and Soderberg's relationship, stresses due to combined loading, cumulative fatigue damage	18		
9	Numerical	19		
10	Numerical	20		

	Module – 3: Design of Shafts, Joints, Couplings and Keys			
1	Torsion of shafts, design for strength and rigidity with steady loading.	21	20	60
2	ASME codes for power transmission shafting, shafts under combined loads.	22		
3	Numerical	23		
4	Numerical	24		
5	Numerical	25		
6	Design of Cotter and Knuckle joints, Rigid and flexible couplings.	26		
7	Numerical.	27		
8	Flange coupling, Bush and Pin type coupling and Oldham's coupling.	28		
9	Numerical.	29		
10	Design of keys-square, saddle, flat and feather. Numerical	30		
	Module – 4: Riveted Joints and Weld Joints			
1	Rivet types, rivet materials, failures of riveted joints, Joint Efficiency.	31	20	80
2	Numerical	32		
3	Numerical	33		
4	Boiler Joints, Lozanze Joints, Riveted Brackets, eccentrically loaded joints.	35		
5	Numerical	35		
6	Numerical	36		
7	Types of welded joints, Strength of butt and fillet welds, welded brackets with transverse and parallel fillet welds.	37		
8	Numerical	38		
9	Numerical	39		
10	Eccentrically loaded welded joint	40		
	Module – 5 Threaded Fasteners and Power Screws			
1	Stresses in threaded fasteners, Effect of initial tension,	41	20	100
2	Numerical	42		
3	Numerical	43		
4	Design of threaded fasteners under static loads, Design of eccentrically loaded bolted joints.	44		
5	Numerical	45		
6	Numerical	46		
7	Types of power screws, efficiency and self-locking, Design of power screw,	47		
8	Numerical	48		
9	Numerical	49		
10	Design of screw jack: (Complete Design).	50		

TEXT BOOKS:

1. **Mechanical Engineering Design**, Joseph E Shigley and Charles R. Mischke. McGraw Hill International edition, 6th Edition 2009.
2. **Design of Machine Elements**, V.B. Bhandari, Tata McGraw Hill Publishing Company Ltd., New Delhi, 2nd Edition 2007.

DESIGN DATA HANDBOOK:

1. **Design Data Hand Book**, K. Lingaiah, McGraw Hill, 2nd Ed.
2. **Data Hand Book**, K. Mahadevan and Balaveera Reddy, CBS Publication
3. **Design Data Hand Book**, H.G. Patil, I. K. International Publisher, 2010.

REFERENCE BOOKS:

1. **Machine Design**, Robert L. Norton, Pearson Education Asia, 2001.
2. **Design of Machine Elements**, M. F. Spotts, T. E. Shoup, L. E. Hornberger, S. R. Jayram and C. V. Venkatesh, Pearson Education, 2006.
3. **Machine Design**, Hall, Holowenko, Laughlin (Schaum's Outlines series) Adapted by S.K. Somani, Tata McGraw Hill Publishing Company Ltd., New Delhi, Special Indian Edition, 2008.
4. **Fundamentals of Machine Component Design**, Robert C. Juvinall and Kurt M Marshek, Wiley India Pvt. Ltd., New Delhi, 3rd Edition, 2007.

m. k. sarkar

1/2" x 1/4"



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CBCS

DESIGN OF MACHINE ELEMENTS- II

LESSON PLAN

Name of the Faculty: SANDEEP G R

Designation: Assistant Professor

Sub Code: 17ME64/15ME64

Hours per week: 5 Hours

Total hours: 50

SL NO	TOPICS	Cumulative No. of Hours	% of portions covered	Cumulative % of portions covered
	Module- 1: Design of Curved Beams , Cylinders & Cylinder Heads			
1	Curved Beams: Stresses in curved beams of standard cross sections used in crane hook.	1		
2	Stresses in curved beams of standard cross sections used in punching presses and clamps	2		
3	Stresses in curved beams of standard cross sections used in, closed rings and links	3		
4	Numerical	4	20	20
5	Numerical	5		
6	Cylinders & Cylinder Heads: Review of Lame's equations; compound cylinders,	6		
7	Stresses due to different types of fit on cylinders; cylinder heads and flats.	7		
8	Numerical	8		
9	Numerical	9		
10	Numerical	10		
	Module- 2: Design of Belts, ropes, Chains and Springs			
1	Belts: Materials of construction of flat and V belts, power rating of belts, concept of slip and creep, initial tension, effect of centrifugal tension, maximum power condition.	11		
2	Selection of flat and V belts- length & cross section from manufacturers catalogues. Construction and application of timing belts	12	20	40
3	Numerical	13		
4	Wire ropes: Construction of wire ropes, stresses in wire ropes, and selection of wire ropes.	14		
5	Numerical	15		

6	Chain drive: Types of power transmission chains, modes of failure for chain, and lubrication of chains.	16				
7	Numerical	17				
8	Types of springs, spring materials, stresses in helical coil springs of circular and non-circular cross sections. Tension and compression springs, concentric springs; springs under fluctuating loads.	18				
		19				
9	Leaf Springs: Stresses in leaf springs, equalized stresses, and nipping of leaf springs. Introduction to torsion and Belleville springs.	19				
10	Numerical	20				
Module 3: Design of Spur Gear, Helical Gear and Gear Drives					20	60
1	Gear drives: Classification of gears, materials for gears, standard systems of gear tooth, gear tooth failure modes and lubrication of gears	21				
2	Numerical	22				
3	Numerical	23				
4	Spur Gears: Definitions, stresses in gear tooth: Lewis equation and form factor, design for strength, dynamic load and wear.	24				
5	Numerical	25				
6	Numerical	26				
7	Helical Gears: Definitions, transverse and normal module, formative number of teeth, design based on strength, dynamic load and wear.	27				
8	Numerical	28				
9	Bevel Gears: Definitions, formative number of teeth, design based on strength, dynamic load and wear.	29				
10	Numerical	30				
Module 4: Design of worm Gear, Clutches and Brakes			20	80		
1	Worm Gears: Definitions, types of worm and worm gears, and materials for worm and worm wheel.	31				
2	Numerical	32				
3	Design based on strength, dynamic, wear loads and efficiency of worm gear drives.	33				
4	Numerical	35				
5	Design of Clutches: Types of clutches and their applications, single plate and multi-plate clutches. (Numerical examples only on single and multi-plate clutches)	35				
		36				
6	Numerical	37				
7	Numerical	38				
8	Design of Brakes: Types of Brakes, Block and Band brakes, self locking of brakes, and heat generation in brakes.	38				
9	Numerical	39				
10	Numerical	40				

Module 5: Lubrication And Bearings and Anti Friction Bearings.				
1	Lubrication and Bearings: Lubricants and their properties, bearing materials and properties; mechanisms of lubrication,	41	20	100
2	Numerical	42		
3	Hydrodynamic lubrication, pressure development in oil film, bearing modulus, coefficient of friction, minimum oil film thickness, heat generated, and heat dissipated.	43		
4	Numerical examples on hydrodynamic journal and thrust bearing design.	44		
5	Numerical	45		
6	Anti friction bearings: Types of rolling contact bearings and their applications, static and dynamic load carrying capacities, equivalent bearing load, load life relationship;	46		
7	selection of deep groove ball bearings from the manufacturers' catalogue; Numerical	47		
8	Numerical	48		
9	Numerical	49		
10	Numerical	50		

TEXT BOOKS:

1. **Mechanical Engineering Design**, Joseph E Shigley and Charles R. Mischke. McGraw Hill International edition, 6th Edition 2009.
2. **Design of Machine Elements**, V.B. Bhandari, Tata McGraw Hill Publishing Company Ltd., New Delhi, 2nd Edition 2007.

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1. **Machine Design**, Robert L. Norton, Pearson Education Asia, 2001.
2. **Design of Machine Elements**, M. F. Spotts, T. E. Shoup, L. E. Hornberger, S. R. Jayram and C. V. Venkatesh, Pearson Education, 2006.
3. **Machine Design**, Hall, Holowenko, Laughlin (Schaum's Outlines series) Adapted by S.K. Somani, Tata McGraw Hill Publishing Company Ltd., New Delhi, Special Indian Edition, 2008.
4. **Fundamentals of Machine Component Design**, Robert C. Juvinall and Kurt M Marshek, Wiley India Pvt. Ltd., New Delhi, 3rd Edition, 2007.

2



A C S COLLEGE OF ENGINEERING
Department of Mechanical Engineering
MECHATRONICS (Professional Elective-3)

LESSON PLAN

Name of the faculty: **Dr. H S Siddesha**
 Designation: **Asso. Professor & HOD**
 Hours per week: **05**

Semester: **7**
 Sub Code: **17ME753**
 Total hours: **50**

COURSE OBJECTIVES

1. Understand the evolution and development of Mechatronics as a discipline.
2. Substantiate the need for interdisciplinary study in technology education.
3. Understand the applications of microprocessors in various systems and to know the functions of each element
4. Demonstrate the integration philosophy in view of Mechatronics technology

COURSE OUTCOMES:

On completion of this subject, students will be able to:

1. Illustrate various components of Mechatronics systems.
2. Assess various control systems used in automation.
3. Develop mechanical, hydraulic, pneumatic and electrical control systems.
4. Demonstrate the integration philosophy in view of Mechatronics technology

UNIT	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
	MODULE -1			
1	Introduction: Definition, Multidisciplinary Scenario, Evolution of Mechatronics, Design of Mechatronics system, Objectives, advantages and disadvantages of Mechatronics.	2	20	20
	Transducers and sensors: Definition and classification of transducers	2		
	Difference between transducer and sensor, Definition and classification of sensors	2		
	Principle of working and applications of light sensors	2		
	Proximity switches and Hall Effect sensors.	2		
	MODULE -2			
2	Microprocessor & Microcontrollers: Introduction	02	20	40
	Microprocessor systems, Basic elements of control systems	02		
	Microcontrollers, Difference between Microprocessor and Microcontrollers.	02		
	Microprocessor Architecture: Microprocessor architecture and terminology-CPU, memory and address, I/O and Peripheral devices, ALU, Instruction and Program, Assembler, Data, Registers, Program Counter, Flags, Fetch cycle, write cycle, state, bus interrupts. Intel's 8085A Microprocessor.	04		

	MODULE -3			60
3	Programmable logic controller: Introduction to PLC's, basic structure, Principle of operation, Programming and concept of ladder diagram, concept of latching & selection of a PLC.	05	20	
	Integration: Introduction & background, Advanced actuators, Pneumatic actuators, Industrial Robot, different parts of a Robot-Controller, Drive, Arm, End Effectors, Sensor & Functional requirements of robot.	05		
	MODULE -4		20	
4	Mechanical actuation systems: Mechanical systems, types of motion, Cams, Gear trains, Ratchet & Pawl, belt and chain drives, mechanical aspects of motor selection.	05		80
	Electrical actuation systems: Electrical systems, Mechanical switches, Solenoids, Relays, DC/AC Motors, Principle of Stepper Motors & servomotors.	05		
	MODULE -5			
	Pneumatic and hydraulic actuation systems: Actuating systems, Pneumatic and hydraulic systems, Classifications of Valves, Pressure relief valves, Pressure regulating/reducing valves, Cylinders and rotary actuators.	05	20	100
	DCV & FCV: Principle & construction details, types of sliding spool valve, solenoid operated, Symbols of hydraulic elements, components of hydraulic system, functions of various units of hydraulic system. Design of simple hydraulic circuits for various applications.	05		

TEXT BOOKS:

1. Nitaigour Premchand Mahalik , Mechatronics-Principles, Concepts and Applications, Tata McGraw Hill, 1st Edition, 2003 ISBN.No. 0071239243, 9780071239240.
2. W.Bolton-Pearson Education, Mechatronics – Electronic Control Systems in Mechanical and Electrical Engineering, 1st Edition, 2005 ISBN No. 81-7758-284-4.

REFERENCE BOOKS:

1. Mechatronics by HMT Ltd. – Tata McGraw Hill, 1st Edition, 2000. ISBN:9780074636435.
2. Anthony Esposito, Fluid Power , Pearson Education, 6th Edition, 2011, ISBN No.978933251854

E- Learning

- VTU, E- learning

Scheme of Examination: Two question to be set from each module. Students have to answer five full questions, choosing at least one full question from each module.

COURSE OUTCOMES (CO's)	
Students are able to:	
CO-1:	Understand the evolution and development of Mechatronics as a discipline and Illustrate various components of Mechatronics systems.
CO-2:	Student will have the knowledge of Substantiate the need for interdisciplinary study in technology education and Assess various control systems used in automation.
CO-3:	Student will have the knowledge of Understand the applications of microprocessors in various systems and to know the functions of each element.
CO-4:	Student will have the knowledge of Interdisciplinary concepts integrating to system and develop mechanical, hydraulic, pneumatic and electrical control systems to Demonstrate the integration philosophy in view of Mechatronics technology

Mapping of Co's with PO's

Course Outcomes (CO's)	Program Outcomes (PO's)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO-1	3	2	2	3	3	2	2	2	2	1	1	1
CO-2	3	2	2	3	3	2	2	2	2	1	1	1
CO-3	3	2	2	3	3	2	2	2	2	1	1	1
CO-4	3	2	2	3	3	2	2	2	2	1	1	1

NOTE:

3 = Above Average	2 =Average	1 = Below Average
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Shodumy
HOD
 Dept. of Mechanical Engg.
 ACS College of Engineering
 Bangalore - 560 074.



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CBCS

AUTOMOBILE ENGINEERING

LESSON PLAN

Name of the Faculty: RAKESH S.

Hours per week: 5 Hours

Designation: Assistant Professor

Total hours: 50

Sub Code: 15ME655

SL NO	TOPICS	Cumulative No. of Hours	% of portions covered	Cumulative % of portions covered
	Module- 1: Engine Components & It's Principle parts and Cooling and Lubrication			
1	Spark Ignition (SI) & Compression Ignition (CI) engines, cylinder – arrangements and their relatives merits Liners, Piston, connecting rod	1		
2	Spark Ignition (SI) & Compression Ignition (CI) engines crankshaft, valves, valve actuating mechanisms	2		
3	Spark Ignition (SI) & Compression Ignition (CI) engines valve and port timing diagrams	3		
4	Types of combustion chambers for S. I. Engine and C. I. Engines, methods of a Swirl generation	4	20	20
5	Choice of materials for different engine components, engine positioning	5		
6	Concept of HCCI engines, hybrid engines, twin spark engine, electric car.	6		
7	Cooling requirements, types of cooling- thermo siphon system	7		
8	Forced circulation water cooling system	8		
9	Water pump, Radiator, thermostat valves	9		
10	Significance of lubrication, splash and forced feed system.	10		
	Module - 2: Transmission Systems & Brakes			
1	Clutch-types and construction	11		
2	Gear boxes- manual and automatic, gear shift mechanisms	12		
3	Over drive, transfer box, fluid flywheel, torque converter	13		
4	Propeller shaft, slip joints, universal joints	14		
5	Differential and rear axle, Hotchkiss Drive and Torque Tube Drive.	15	20	40
6	Types of brakes, mechanical compressed air braking system	16		
7	Vacuum and hydraulic braking systems	17		
8	Construction and working of master and wheel cylinder	18		
9	Brake shoe arrangements, Disk brakes, drum brakes	19		



10	Antilock –Braking systems, purpose and operation of antilock-braking system, ABS Hydraulic Unit, Rear-wheel antilock & Numerical	20		
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	Module – 3: Steering and Suspension Systems & Ignition Systems			
1	Steering geometry and types of steering gear box-Power Steering	21	20	60
2	Types of Front Axle	22		
3	Suspension, Torsion bar suspension systems	23		
4	Leaf spring	24		
5	Coil spring	25		
6	Independent suspension for front wheel and rear wheel	26		
7	Air suspension system.	27		
8	Battery Ignition system	28		
9	Magneto Ignition system	29		
10	Electronic Ignition system.	30		
	Module – 4: Superchargers and Turbochargers, Fuels, Fuel Supply Systems for SI and CI Engines			
1	Naturally aspirated engines	31	20	80
2	Forced Induction, Types of superchargers	32		
3	Turbocharger construction and operation	33		
4	Intercooler, Turbocharger lag.	35		
5	Conventional fuels, alternative fuels	35		
6	Normal and abnormal combustion, Cetane and Octane numbers	36		
7	Fuel mixture requirements for SI engines, types of carburetors, C.D.& C.C. carburetors, multi point and single point fuel injection systems	37		
8	fuel transfer pumps, Fuel filters, fuel injection pumps and injectors	38		
9	Electronic Injection system	39		
10	Common Rail Direct Injection System.	40		
	Module – 5 Automotive Emission Control Systems and Emission Standards			
1	Different air pollutants	41	20	100
2	Formation of photochemical smog and causes	42		
3	Automotive emission controls, Controlling crankcase emissions	43		
4	Controlling evaporative emissions, Cleaning the exhaust gas	44		
5	Controlling the air-fuel mixture	45		
6	Controlling the combustion process, Exhaust gas recirculation	46		
7	Treating the exhaust gas, Air-injection system	47		
8	Air-aspirator system, Catalytic converter.	48		
9	Euro I, II, III and IV norms	49		

10	Bharat Stage II, III, IV norms. Motor Vehicle Act	50		
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TEXT BOOKS:

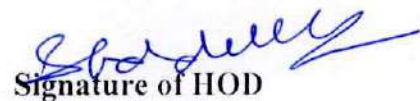
1. Automobile engineering, Kirpal Singh, Vol I and II (12th Edition) Standard Publishers 2011
2. Automotive Mechanics, S. Srinivasan, (2nd Edition) Tata McGraw Hill 2003.

REFERENCE BOOKS:

1. Automotive mechanics, William H Crouse & Donald L Anglin (10th Edition) Tata McGraw Hill Publishing Company Ltd., 2007
2. Automotive mechanics: Principles and Practices, Joseph Heitner, D Van Nostrand Company, Inc
3. Fundamentals of Automobile Engineering, K.K.Ramalingam, Scitech Publications (India) Pvt. Ltd.
4. Automobile Engineering, R. B. Gupta, Satya Prakashan, (4th Edition) 1984.



Signature of faculty



Signature of HOD

HOD
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.

38	THRISHEEL BALAJI R.	1AH16ME041	19	15	20	20
39	UNDAVALLI PRASHANTH	1AH16ME042	05	15	19	17
40	VARUN KUMAR M.	1AH16ME044	14	14	05	14
41	ARUN KUMAR K	1AH17ME401	05	13	17	15
42	VIJAY KUMAR. B	1AH17ME406	05	09	20	15
43	YESHWANTH.S	1AH17ME408	05	13	20	17

ACS COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN: ENERGY ENGINEERING

Name of the faculty: RAKESH S.
 Designation: Assistant Professor
 Hours per week: 5 hrs

Sub Code 15ME71
 Total hours: 50

	Topics	No. of Hours	CO's	PO's
MODULE-I				
Thermal Energy Conversion System				
1	Review of energy scenario in India, General Philosophy and need of Energy	1	CO1	PO1
2	Different Types of Fuels used for steam generation, Equipment for burning coal in lump form, stokers, different types	1	CO1	PO1
3	Oilburners, Advantages and Disadvantages of using pulverized fuel, Equipment for preparation and burning of pulverized coal, unit system and bin system.	1	CO1	PO1
4	Pulverized fuel furnaces, cyclone furnace, Coal and ash handling, Generation of steam using forced circulation, high and supercritical pressures.	1	CO1	PO1
5	Chimneys: Natural, forced, induced and Balanced draft, Calculations and numerical involving height of chimney to produce a given draft.	1	CO1	PO1
6	Cooling towers and Ponds.	1	CO1	PO1
7	Accessories for the Steam generators such as Super-heaters, De-superheater	1	CO1	PO1
8	Control of superheaters, Economizers, Air preheaters and re-heaters.	1	CO1	PO1
9	Numericals	1	CO1	PO1
MODULE-2				
Diesel & Hydro-Energy System				
10	Applications of Diesel Engines in Power field.	1	CO2	PO1
11	Method of starting Diesel engines.	1	CO2	PO1
12	Auxiliaries like cooling and lubrication system & filters.	1	CO2	PO1
13	Centrifuges, Oil heaters, intake and exhaust system Layout of diesel power plant.	1	CO2	PO1
14	Hydrographs, flow duration and mass curves, unit hydrograph and numerical.	1	CO2	PO1
15	Storage and pondage, pumped storage plants, low, medium and high head plants, Penstock, water hammer, surge tanks, gates and valves.	1	CO2	PO1
16	General layout of hydel power plants.	1	CO2	PO1
MODULE - 3				
Renewable Source of Energy (Solar-Energy System)				
17	Fundamentals; Solar Radiation; Estimation of solar radiation on	1	CO3	PO1

	horizontal and inclined surfaces; Measurement of solar radiation data, Solar Thermal systems			
18	Introduction; Basics of thermodynamics and heat transfer; Flat plate collector	1	CO3	PO1
19	Evacuated Tubular Collector; Solar air collector	1	CO3	PO1
20	Solar concentrator; Solar distillation; Solar cooker	1	CO3	PO1
21	Solar refrigeration and air conditioning	1	CO3	PO1
22	Thermal energy storage systems	1	CO3	PO1
23	Solar Photovoltaic systems: Introduction; Solar cell Fundamentals; Characteristics and classification	1	CO3	PO1
24	Solar cell: Module, panel and Array construction; Photovoltaic thermal systems	1	CO3	PO1
	MODULE – 4 Renewable Source of Energy (Wind & Tidal-Energy System)			
25	Properties of wind, availability of wind energy in India	1	CO4	PO1
26	Wind velocity and power from wind	1	CO4	PO1
27	Major problems associated with wind power, wind machines	1	CO4	PO1
28	Types of wind machines and their characteristics, horizontal and vertical axis wind mills	1	CO4	PO1
29	coefficient of performance of a wind mill rotor	1	CO4	PO1
30	Tides and waves as energy suppliers and their mechanics	1	CO4	PO1
31	Fundamental characteristics of tidal power, harnessing tidal energy, limitations.	1	CO4	PO1
32	Numericals	1	CO4	PO1
	MODULE -5 Renewable Source of Energy (Bio-Mass & Green-Energy System)			
33	Introduction; Photosynthesis Process	1	CO5	PO1
34	Biofuels; Biomass Resources	1	CO5	PO1
35	Biomass conversion technologies	1	CO5	PO1
36	Urban waste to energy conversion; Biomass gasification.	1	CO5	PO1
37	Introduction: Fuel cells: Overview; Classification of fuel cells	1	CO5	PO1
38	Operating principles; Fuel cell thermodynamics Nuclear	1	CO6	PO1
39	Ocean, MHD, thermoelectric and geothermal energy applications	1	CO6	PO1
40	Origin and their types; Working principles, Zero energy Concepts	1	CO6	PO1

TEXT BOOKS:

1. B H Khan, "Non-Conventional Energy Resources", 3rd Edition, McGraw Hill Education
2. "Principles of Energy Conversion", A. W. Culp Jr., McGraw Hill. 1996

REFERENCE BOOKS:

1. S.P. Sukhatme, Solar Energy: "Principles of Thermal Collection and Storage", Tata McGraw-Hill (1984).
2. C. S. Solanki, "Solar Photovoltaic's: Fundamental Applications and Technologies, Prentice Hall of India, 2009.
3. L.L. Freris, "Wind Energy Conversion Systems", Prentice Hall, 1990.

Question paper pattern:

- The question paper will have ten questions.
- Each full question consisting of 16 marks.
- There will be 2 full questions (with a **maximum** of 4 sub questions) from each module.
- Each full question will have sub questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module

Staff In charge

Shobhila
HOD

A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

TRIBOLOGY

LESSON PLAN

Name of the faculty: Sandeep G R

Designation: Asst. Professor

Hours per week: 4

Sub Code: 15ME742

Total hours: 50

COURSE OBJECTIVES

1. To educate the students on the importance of friction, the related theories/laws of sliding and rolling friction and the effect of viscosity of lubricants.
2. To expose the students to the consequences of wear, wear mechanisms, wear theories and analysis of wear problems.
3. To make the students understand the principles of lubrication, lubrication regimes, theories of hydrodynamic and the advanced lubrication techniques.
4. To expose the students to the factors influencing the selection of bearing materials for different sliding applications.
5. To introduce the concepts of surface engineering and its importance in tribology.

COURSE OUTCOMES:

1. Understand the fundamentals of tribology and associated parameters.
2. Apply concepts of tribology for the performance analysis and design of components experiencing relative motion.
3. Analyse the requirements and design hydrodynamic journal and plane slider bearings for a given application.
4. Select proper bearing materials and lubricants for a given tribological application.
5. Apply the principles of surface engineering for different applications of tribology.

UNIT	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
1	Module - 1		20	20
	Introduction to Tribology: Historical background, practical importance, and subsequent use in the field.	2		
	Lubricants: Types and specific field of applications.	1		
	Properties of lubricants, viscosity, Its measurement.	1		
	Effect of temperature and pressure on viscosity, lubrication types.	2		
	Standard grades of lubricants, and selection of lubricants.	2		

2	Module - 2		20	40
	Friction: Origin, friction theories, measurement methods.	2		
	Friction of metals and non-metals.	2		
	Wear: Classification and mechanisms of wear, delamination theory.	2		
	Debris analysis, testing methods and standards. Related case studies.	2		
3	Module - 3		20	60
	Hydrodynamic journal bearings: Friction forces and power loss in a lightly loaded journal bearing.	2		
	Petroff's equation, mechanism of pressure development in an oil film.	2		
	Reynold's equation in 2D, Introduction to idealized journal bearing.	2		
	Load carrying capacity, condition for equilibrium, Sommerfeld's number and its significance.	2		
	Partial bearings, end leakages in journal bearing, numerical examples on full journal bearings only.	2		
4	Module - 4		20	80
	Plane slider bearings with fixed/pivoted shoe: Pressure distribution, Load carrying capacity.	2		
	Coefficient of friction, frictional resistance in a fixed/pivoted shoe bearing, center of pressure, numerical examples.	2		
	Hydrostatic Lubrication: Introduction to hydrostatic lubrication, hydrostatic step bearings.	2		
	Load carrying capacity and oil flow through the hydrostatic step bearing, numerical examples.	2		
5	Module - 5		20	100
	Bearing Materials: Commonly used bearings materials, and properties of typical bearing materials.	2		
	Advantages and disadvantages of bearing materials. Introduction to Surface engineering: Concept and scope of surface engineering.	2		
	Surface modification – transformation hardening, surface melting, thermo chemical processes.	2		
	Surface Coating – plating, fusion processes, vapor phase processes. Selection of coating for wear and corrosion resistance.	2		

TEXT BOOKS:

1. "Introduction to Tribology", B. Bhushan, John Wiley & Sons, Inc., New York, 2002
2. "Engineering Tribology", Prasanta Sahoo, PHI Learning Private Ltd, New Delhi, 2011.
3. "Engineering Tribology", J. A. Williams, Oxford Univ. Press, 2005.

REFERENCE BOOKS:

1. "Introduction to Tribology in bearings", B. C. Majumdar, Wheeler Publishing.
2. "Tribology, Friction and Wear of Engineering Material", I. M. Hutchings, Edward Arnold, London, 1992.
3. "Engineering Tribology", G. W. Stachowiak and A. W. Batchelor, Butterworth-Heinemann, 1992.
4. "Friction and Wear of Materials", Ernest Rabinowicz, John Wiley & sons, 1995.
5. "Basic Lubrication Theory", A. Cameron, Ellis Horwood Ltd., UK.

Scheme of Examination: Two questions to be set from each module. Students have to answer five full questions, choosing one full question from each module.

Use of approved Design Data Handbook/charts can be permitted during the examination.

M. R. Sandhu

10



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

DESIGN OF MACHINE ELEMENTS- I

LESSON PLAN

Name of the Faculty: SANDEEP G R

Designation: Assistant Professor

Sub Code: 18ME52

Hours per week: 5 Hours

Total hours: 50

SL NO	TOPICS	Cumulative No. of Hours	% of portions covered	Cumulative % of portions covered
	Module- 1: Introduction, Design for static strength			
1	Mechanical engineering design	1		
2	Phases of design process, Design considerations	2		
3	Standards and Codes, Factor of safety	3		
4	Engineering Materials and their Mechanical properties, Stress tensor, Principal Stresses.	4		
5	Material selection	5		
6	Static Stresses: Static loads .Normal, Bending, Shear and Combined stresses.	6	20	20
7	Stress concentration	7		
8	Determination of stress concentration factor. Stress-Strain diagrams, Stress Analysis.	8		
9	Numerical	9		
10	Numerical	10		
	Module- 2: Impact Strength, Fatigue loading			
1	Impact stress due to Axial loads.	11		
2	Impact stress due to Bending loads.	12		
3	Impact stress due to Torsional loads.	13		
4	Fatigue failure: Endurance limit, S-N Diagram	14		
5	Low cycle fatigue, High cycle fatigue	15		
6	Modifying factors: size effect, surface effect. Stress concentration effects	16	20	40
7	Notch sensitivity, fluctuating stresses	17		
8	Goodman and Soderberg's relationship, stresses due to combined loading, cumulative fatigue damage	18		
9	Numerical	19		
10	Numerical	20		

	Module –3: Design of shafts, Design of keys and couplings			
1	Torsion of shafts, design for strength and rigidity with steady loading.	21	20	60
2	ASME codes for power transmission shafting, shafts under combined loads.	22		
3	Numerical	23		
4	Numerical	24		
5	Numerical	25		
6	Design of Cotter and Knuckle joints, Rigid and flexible couplings.	26		
7	Numerical.	27		
8	Flange coupling, Bush and Pin type coupling and Oldham's coupling.	28		
9	Numerical.	29		
10	Design of keys-square, saddle, flat and feather. Numerical	30		
	Module – 4: Design of Permanent Joints, Riveted joints, Welded joints			
1	Rivet types, rivet materials, failures of riveted joints, Joint Efficiency.	31	20	80
2	Numerical	32		
3	Numerical	33		
4	Boiler Joints, Lozanze Joints, Riveted Brackets, eccentrically loaded joints.	35		
5	Numerical	35		
6	Numerical	36		
7	Types of welded joints, Strength of butt and fillet welds, welded brackets with transverse and parallel fillet welds.	37		
8	Numerical	38		
9	Numerical	39		
10	Eccentrically loaded welded joint	40		
	Module – 5: Design of Temporary Joints, Design of Cotter and Knuckle Joint, Threaded Fasteners, Power screws			
1	Stresses in threaded fasteners, Effect of initial tension,	41	20	100
2	Numerical	42		
3	Numerical	43		
4	Design of threaded fasteners under static loads, Design of eccentrically loaded bolted joints.	44		
5	Numerical	45		
6	Numerical	46		
7	Types of power screws, efficiency and self-locking, Design of power screw,	47		
8	Numerical	48		
9	Numerical	49		
10	Design of screw jack: (Complete Design).	50		

TEXT BOOKS:

1. **Mechanical Engineering Design**, Joseph E Shigley and Charles R. Mischke. McGraw Hill International edition, 6th Edition 2009.
2. **Design of Machine Elements**, V.B. Bhandari, Tata McGraw Hill Publishing Company Ltd., New Delhi, 2nd Edition 2007.

DESIGN DATA HANDBOOK:

1. **Design Data Hand Book**, K. Lingaiah, McGraw Hill, 2nd Ed.
2. **Data Hand Book**, K. Mahadevan and Balaveera Reddy, CBS Publication
3. **Design Data Hand Book**, H.G. Patil, I. K. International Publisher, 2010.

REFERENCE BOOKS:

1. **Machine Design**, Robert L. Norton, Pearson Education Asia, 2001.
2. **Design of Machine Elements**, M. F. Spotts, T. E. Shoup, L. E. Hornberger, S. R. Jayram and C. V. Venkatesh, Pearson Education, 2006.
3. **Machine Design**, Hall, Holowenko, Laughlin (Schaum's Outlines series) Adapted by S.K. Somani, Tata McGraw Hill Publishing Company Ltd., New Delhi, Special Indian Edition, 2008.
4. **Fundamentals of Machine Component Design**, Robert C. Juvinall and Kurt M Marshek, Wiley India Pvt. Ltd., New Delhi, 3rd Edition, 2007.



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CBCS

DESIGN OF MACHINE ELEMENTS- I

LESSON PLAN

Name of the Faculty: SANDEEP G R

Designation: Assistant Professor

Sub Code: 18ME62

Hours per week: 5 Hours

Total hours: 50

SL NO	TOPICS	Cumulative No. of Hours	% of portions covered	Cumulative % of portions covered
	Module- 1: Springs, Belts, Wire ropes			
1	Curved Beams: Stresses in curved beams of standard cross sections used in crane hook.	1		
2	Stresses in curved beams of standard cross sections used in punching presses and clamps	2		
3	Stresses in curved beams of standard cross sections used in, closed rings and links	3		
4	Numerical	4		
5	Numerical	5	20	20
6	Cylinders & Cylinder Heads: Review of Lamé's equations; compound cylinders,	6		
7	Stresses due to different types of fit on cylinders; cylinder heads and flats.	7		
8	Numerical	8		
9	Numerical	9		
10	Numerical	10		
	Module- 2: Gear drives, Spur gears, Helical gears			
1	Belts: Materials of construction of flat and V belts, power rating of belts, concept of slip and creep, initial tension, effect of centrifugal tension, maximum power condition.	11		
2	Selection of flat and V belts- length & cross section from manufacturers catalogues. Construction and application of timing belts	12	20	40
3	Numerical	13		
4	Wire ropes: Construction of wire ropes, stresses in wire ropes, and selection of wire ropes.	14		
5	Numerical	15		

6	Chain drive: Types of power transmission chains, modes of failure for chain, and lubrication of chains.	16				
7	Numerical	17				
8	Types of springs, spring materials, stresses in helical coil springs of circular and non-circular cross sections. Tension and compression springs, concentric springs; springs under fluctuating loads.	18				
9	Leaf Springs: Stresses in leaf springs, equalized stresses, and nipping of leaf springs. Introduction to torsion and Belleville springs.	19				
10	Numerical	20				
Module 3: Bevel Gears, Worm gears					20	60
1	Gear drives: Classification of gears, materials for gears, standard systems of gear tooth, gear tooth failure modes and lubrication of gears	21				
2	Numerical	22				
3	Numerical	23				
4	Spur Gears: Definitions, stresses in gear tooth: Lewis equation and form factor, design for strength, dynamic load and wear.	24				
5	Numerical	25				
6	Numerical	26				
7	Helical Gears: Definitions, transverse and normal module, formative number of teeth, design based on strength, dynamic load and wear.	27				
8	Numerical	28				
9	Bevel Gears: Definitions, formative number of teeth, design based on strength, dynamic load and wear.	29				
10	Numerical	30	20	80		
Module 4: Design of Clutches and Brakes						
1	Worm Gears: Definitions, types of worm and worm gears, and materials for worm and worm wheel.	31				
2	Numerical	32				
3	Design based on strength, dynamic, wear loads and efficiency of worm gear drives.	33				
4	Numerical	35				
5	Design of Clutches: Types of clutches and their applications, single plate and multi-plate clutches. (Numerical examples only on single and multi-plate clutches)	35				
6	Numerical	36				
7	Numerical	37				
8	Design of Brakes: Types of Brakes, Block and Band brakes, self locking of brakes, and heat generation in brakes.	38				
9	Numerical	39				
10	Numerical	40				

Module 5: Lubrication And Bearings and Anti Friction Bearings.				
1	Lubrication and Bearings: Lubricants and their properties, bearing materials and properties; mechanisms of lubrication,	41	20	100
2	Numerical	42		
3	Hydrodynamic lubrication, pressure development in oil film, bearing modulus, coefficient of friction, minimum oil film thickness, heat generated, and heat dissipated.	43		
4	Numerical examples on hydrodynamic journal and thrust bearing design.	44		
5	Numerical	45		
6	Anti friction bearings: Types of rolling contact bearings and their applications, static and dynamic load carrying capacities, equivalent bearing load, load life relationship;	46		
7	selection of deep groove ball bearings from the manufacturers' catalogue; Numerical	47		
8	Numerical	48		
9	Numerical	49		
10	Numerical	50		

TEXT BOOKS:

1. **Mechanical Engineering Design**, Joseph E Shigley and Charles R. Mischke. McGraw Hill International edition, 6th Edition 2009.
2. **Design of Machine Elements**, V.B. Bhandari, Tata McGraw Hill Publishing Company Ltd., New Delhi, 2nd Edition 2007.

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2. **Data Hand Book**, K. Mahadevan and Balaveera Reddy, CBS Publication
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1. **Machine Design**, Robert L. Norton, Pearson Education Asia, 2001.
2. **Design of Machine Elements**, M. F. Spotts, T. E. Shoup, L. E. Hornberger, S. R. Jayram and C. V. Venkatesh, Pearson Education, 2006.
3. **Machine Design**, Hall, Holowenko, Laughlin (Schaum's Outlines series) Adapted by S.K. Somani, Tata McGraw Hill Publishing Company Ltd., New Delhi, Special Indian Edition, 2008.
4. **Fundamentals of Machine Component Design**, Robert C. Juvinall and Kurt M Marshek, Wiley India Pvt. Ltd., New Delhi, 3rd Edition, 2007.



A C S COLLEGE OF ENGINEERING
Department of Mechanical Engineering
COMPUTER INTEGRATED MANUFACTURING
LESSON PLAN

Name of the faculty: **SUNILRAJ B.A.**

Designation: **Asst. Professor**

Hours per week: **4**

Sub Code: **15ME62**

Total hours: **50**

SL NO.	MODULES	NO. of hours	% of portions covered	Cumulative % of portions covered
MODULE 1				
1	Introduction to CIM and Automation: Automation in Production Systems, ,	1	20%	20%
2	Automated manufacturing systems- types of automation, reasons for automating	1		
3	Computer Integrated Manufacturing, computerized elements of a CIM system, CAD/CAM and CIM.	1		
4	Mathematical models and matrices: production rate, production capacity, utilization and availability,.	1		
5	Manufacturing lead time, work-in- process, numerical problems	1		
6	Automated Production Lines and Assembly Systems: Fundamentals, system configurations, applications,	1		
7	Automated flow lines, buffer storage	1		
8	Control of production line, analysis of transfer lines,			
9	Analysis of flow lines without storage, partial automation, analysis of automated flow lines with storage buffer,	1		
10	Fundamentals of automated assembly systems, numerical problems.	1		
MODULE 2				
11	CAD and Computer Graphics Software: The design process, applications of computers in design	1	20%	40%
12	Software configuration, functions of graphics package	1		
13	Constructing the geometry	1		
14	Transformations: 2D transformations, translation, rotation and scaling	1		
15	Homogeneous transformation matrix, concatenation, numerical problems on transformations.	1		
16	Computerized Manufacture Planning and Control System: Computer Aided Process Planning, Retrieval and Generative Systems,	1		



17	Benefits of CAPP, Production Planning and Control Systems, typical activities of PPC System,	1		
18	Computer integrated production management system, Material Requirement Planning	1		
19	Inputs to MRP system, working of MRP, outputs and benefits.	1		
20	Capacity Planning, Computer Aided Quality Control, Shop floor control	1		
MODULE 3				
21	Flexible Manufacturing Systems: Fundamentals of Group Technology and Flexible Manufacturing Systems,	1		
22	Types of FMS, FMS components,	1		
23	Material handling and storage system, applications, benefits,	1		
24	computer control systems, FMS planning and design issues, Automated Storage and Retrieval Systems	1	20%	60%
25	AS/RS and Automatic parts identification systems and data capture.	1		
26	Line Balancing: Line balancing algorithms, methods of line balancing	1		
27	Numerical problems on largest candidate rule	1		
28	Kilbridge and Wester method			
29	Ranked Positional Weights method, Mixed Model line balancing,	1		
30	Computerized line balancing methods.	1		
MODULE 4				
31	Computer Numerical Control: Introduction, components of CNC, CNC programming,	1		
32	Manual part programming, G Codes, M Codes	1		
33	Programming of simple components in turning	1	20%	80%
34	Drilling and milling systems, programming with canned cycles			
35	Cutter radius compensations.	1		
36	Robot Technology: Robot anatomy, joints and links, common robot configurations	1		
37	Robot control systems, accuracy and repeatability, end effectors,	1		
38	Robot programming methods: on-line and off-line methods	1		
39	Robot industrial applications, sensors in robotics	1		
40	Material handling, processing and assembly and inspection.	1		

1



MODULE - 5				
41	Additive Manufacturing Systems: Basic principles of additive manufacturing, slicing CAD models for AM	1	20%	100%
42	Advantages and limitations of AM technologies, Additive manufacturing processes;	1		
43	Photo polymerization, material jetting, binder jetting, material extrusion, Powder bed sintering techniques	1		
44	Sheet lamination, direct energy deposition techniques, applications of AM.	1		
45	Recent trends in manufacturing, Hybrid manufacturing.	1		
46	Future of Automated Factory: Industry 4.0, functions, applications and benefits	1		
47	Components of Industry 4.0, Internet of Things (IOT),	1		
48	IOT applications in manufacturing, Big-Data and Cloud Computing for IOT, IOT for smart manufacturing, ,	1		
49	influence of IOT on predictive maintenance, industrial automation, supply chain optimization	1		
50	Supply-chain & logistics, cyber-physical manufacturing systems.	1		

Text Books:

1. Automation, Production Systems and Computer-Integrated Manufacturing, by Mikell P Groover, 4th Edition, 2015, Pearson Learning.
2. CAD / CAM Principles and Applications by P N Rao, 3rd Edition, 2015, Tata McGrawHill.
3. CAD/CAM/CIM, Dr. P. Radhakrishnan, 3rd edition, New Age International Publishers, New Delhi.

Reference Books:

1. CAD/CAM by Ibrahim Zeid, Tata McGraw Hill.
2. Principles of Computer Integrated Manufacturing, S.Kant Vajpayee, 1999, Prentice Hall of India, New Delhi.
3. Work Systems And The Methods, Measurement And Management of Work, Groover M. P. Pearson/Prentice Hall, Upper Saddle River, NJ, 2007.
4. Computer Automation in Manufacturing, Boucher, T. O., Chapman & Hall, London, UK, 1996.
5. Introduction to Robotics: Mechanics And Control, Craig, J. J., 2nd Ed., Addison Wesley Publishing Company, Readong, MA, 1989.

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HOB
Dept. of Mechanical Engg.
ACS College of Engineering
Bangalore - 560 074.



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Syllabus

Modeling and Analysis Lab (FEA)

Sub Code : 17MEL68

Hrs/ Week Credits : : 01L+ 02P, Credits: 02

Total Hrs.: 45

CIE Marks : 40

Exam Hours : 03

SEE Marks : 60

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Modeling and Analysis Lab	17MEL68	02	1-0-2	60	40	3Hrs
RBT Levels	L1, L2,L3					Exam Hours 03

Prerequisites: Knowledge of any Modeling software, knowledge of coordinate systems and Geometric transformations etc.

Course objectives:

The course is intended to provide basic understanding of Modeling and Analysis techniques students with following aspects:

1. To acquire basic understanding of Modeling and Analysis software -
2. To understand the different kinds of analysis and apply the basic principles to find out the stress and other related parameters of bars, beams loaded with loading conditions.
3. To learn how to apply the basic principles to carry out dynamic analysis to know the natural frequency of different kind of beams.

PART – A

Study of a FEA package and modeling and stress analysis of:

1. Bars of constant cross section area, tapered cross section area and stepped bar
2. Trusses – (Minimum 2 exercises of different types)
3. Beams – Simply supported, cantilever, beams with point load , UDL, beams with varying load etc
(Minimum 6 exercises different nature)
4. Stress analysis of a rectangular plate with a circular hole

PART – B

1. Thermal Analysis – 1D & 2D problem with conduction and convection boundary conditions
(Minimum 4 exercises of different types)
2. Dynamic Analysis to find
 - a) Fixed – fixed beam for natural frequency determination
 - b) Bar subjected to forcing function
 - c) Fixed – fixed beam subjected to forcing function



PART – C (only for demo and oral exam)

- 1) Demonstrate the use of graphics standards (IGES, STEP etc) to import the model from modeler to solver
- 2) Demonstrate one example of contact analysis to learn the procedure to carry out contact analysis.
- 3) Demonstrate at least two different type of example to model and analyze bars or plates made from Composite material.

Course Outcomes:

At the end of the course the students are able to:

1. Demonstrate the basic features of an analysis package
2. Use the modern tools to formulate the problem, and able to create geometry, discretize, apply boundary condition to solve problems of bars, truss, beams & plate to find stress with different loading conditions.
3. Demonstrate the deflection of beams subjected to point, uniformly distributed and varying loads further to use the available results to draw shear force and bending moment diagrams.
4. Analyze the given problem by applying basic principle to solve and demonstrate 1D and 2D heat transfer with conduction and convection boundary conditions.
5. Carry out dynamic analysis and finding natural frequencies for various boundary conditions and also analyze with forcing function.

REFERENCE BOOKS:

1. A first course in the Finite element method, Daryl L Logan, Thomason, Third Edition
2. Fundamentals of FEM, Hutton – McGraw Hill, 2004
3. Finite Element Analysis, George R. Buchanan, Schaum Series

Scheme for Examination:

One Question from Part A - 32 Marks (08 Write up +24)

One Question from Part B - 32 Marks (08 Write up +24)

Viva-Voce - 16 Marks

Total 80 Marks



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

FLUID POWER SYSTEM

LESSON PLAN

Name of the faculty: Sunilraj B.A.

Designation: Asst. Professor

Hours per week: 5

Sub Code: 15ME72

Total hours: 50

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Fluid power system	15ME72	04	3-2-0	80	20	3 Hrs

Course Objectives:

CL01	To provide an insight into the capabilities of hydraulic and pneumatic fluid power
CL02	To understand concepts and relationships surrounding force, pressure, energy and power in fluid power systems.
CL03	To examine concepts centering on sources of hydraulic power, rotary and linear actuators, distribution systems, hydraulic flow in pipes, and control components in fluid power systems.
CL04	Exposure to build and interpret hydraulic and pneumatic circuits related to industrial applications
CL05	To familiarize with logic controls and trouble shooting

MODULE	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
1	Introduction to Fluid Power System		20	20
	Components, advantages and applications	1		
	Transmission of power at static and dynamic states	1		
	Pascal's law and its applications	1		
	Fluids for hydraulic system: Types, properties, and selection. Additives	1		
	Effect of temperature and Pressure on hydraulic fluid. Seals, sealing materials	1		
	Compatibility of seal with fluids,	1		
	Types of pipes, hoses, and quick acting couplings, Pressure drop in hoses/pipes	2		
Fluid conditioning through filters, strainers; sources of contamination and contamination control; heat exchangers	2			



2	Pumps and Actuators		20	40
	Pumps: Classification of pumps, Pumping theory of positive displacement pumps, construction and working of Gear pumps, Vane pumps.	1		
	Piston pumps, fixed and variable displacement pumps, Pump performance characteristics, pump selection factors, problems on pumps.	2		
	Accumulators: Types, selection/ design procedure, applications of accumulators. Types of Intensifiers, Pressure switches /sensor, Temperature switches/sensor, Level sensor.	2		
	Actuators: Classification cylinder and hydraulic motors, Hydraulic cylinders, single and double acting cylinder, mounting arrangements, cushioning, special types of cylinders, problems on cylinders.	2		
	Construction and working of rotary actuators such as gear, vane, piston motors, and HydraulicMotor.	1		
	Theoretical torque, power, flow rate, and hydraulic motor performance; numerical Problems. Symbolic representation of hydraulic actuators (cylinders and motors).	2		
3	Components and hydraulic circuit design		20	60
	Components: Classification of control valves, Directional Control Valves-symbolic representation, constructional features of poppet, sliding spool,	2		
	rotary type valves solenoid and pilot operated DCV, shuttle valve, and check valves. Pressure control valves	1		
	- types, direct operated types and pilot operated types.	1		
	Flow Control Valves -compensated and non-compensated FCV, needle valve, temperature compensated,	1		
	pressure compensated, pressure and temperature compensated FCV, symbolic representation.	1		
	Hydraulic Circuit Design: Control of single and Double - acting hydraulic cylinder, regenerative circuit, pump unloading circuit, double pump	2		
	hydraulic system, counter balance valve application, hydraulic cylinder sequencing circuits, cylinder synchronizing circuit using different methods, hydraulic circuit for force multiplication;			
	speed control of hydraulic cylinder metering in, metering out and bleed off circuits			
	Pilot pressure operated circuits. Hydraulic circuit examples with accumulator			



4	Pneumatic power systems		20	80
	Introduction to Pneumatic systems: Pneumatic power system, advantages, limitations, applications, Choice of working medium.	1		
	Characteristics of compressed air and air compressors. \	1		
	Structure of pneumatic control System, fluid conditioners-dryers and FRL unit	1		
	Pneumatic Actuators: Linear cylinder – types of cylinders, working, end position cushioning,	1		
	Seals, mounting arrangements, and applications	1		
	Rotary cylinders- types, construction and application, symbols.	1		
	Pneumatic Control Valves: DCV such as poppet, spool, suspended seat type slide valve, pressure control valves,	2		
	Flow control valves, types and construction, use of memory valve,	1		
Quick exhaust valve, time delay valve, shuttle valve, twin pressure valve, symbols.	1			
5	Pneumatic control circuits		20	100
	Simple Pneumatic Control: Direct and indirect actuation pneumatic cylinders, speed control of cylinders - supply air throttling and exhaust air throttling.	2		
	Processing Elements: Use of Logic gates - OR and AND gates in pneumatic applications. Practical examples involving the use of logic gates.	3		
	Multi- Cylinder Application: Coordinated and sequential motion control, motion and control diagrams. Signal elimination methods, Cascading method- principle, Practical application examples (up to two cylinders) using cascading method (using reversing valves).	3		
	Electro- Pneumatic Control: Principles - signal input and output, pilot assisted solenoid control of directional control valves, use of relay and contactors. Control circuitry for simple signal cylinder application	2		

TEXT BOOKS:

1. Anthony Esposito, "Fluid Power with applications", Pearson edition, 2000 .
2. Majumdar S.R., "Oil Hydraulics", Tata McGraw Hill, 2002 .
3. Majumdar S.R., "Pneumatic systems - Principles and Maintenance", Tata McGraw-Hill, New Delhi, 2005

REFERENCE BOOKS:

1. John Pippenger, Tyler Hicks, "Industrial Hydraulics", McGraw Hill International Edition, 1980.
2. Andrew Par, Hydraulics and pneumatics, Jaico Publishing House, 2005.
3. FESTO, Fundamentals of Pneumatics, Vol I, II and III.
4. Herbert E. Merritt, "Hydraulic Control Systems", John Wiley and Sons, Inc.
5. Thomson, Introduction to Fluid power, Prentice Hall, 2004
6. John Watton, "Fundamentals of fluid power control", Cambridge University press, 2012.

SRP

Shoddy



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A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

OPERATION RESEARCH

LESSON PLAN

Name of the faculty: **Sunilraj B.A.**

Designation: **Asst. Professor**

Hours per week: **5**

Sub Code: **15ME81**

Total hours: **50**

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CLA	
Operation Research	15ME81	04	3-2-0	80	20	3 Hrs

Course Objectives:

CL01	To enable the students to understand the scientific methods of providing various departments of an organization with a quantitative basis of decision making
CL02	To enable the students to understand the importance of various tools and techniques in finding optimal solutions to problems involving limited resources in the form of Men, Materials and machinery.

MOD ULE	TOPICS	NO. of hours	CO's	PO's	% of portions covered	Cumulat ive % of portions covered
1	Module 1: Introduction to Operation Research					
	Introduction: Evolution of OR, Definitions of OR, Scope of OR,	1	CO1	PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-12	20	20
	Applications of OR	1	CO1			
	Phases in OR study	1	CO1			
	Characteristics and limitations of OR	1	CO1			
	models used in OR	1	CO2			
	Linear Programming Problem (LPP)	1	CO2			
	Generalized LPP- Formulation of problems	1	CO2			
	L.P.P. Solutions to LPP by graphical method (Two Variables)	1	CO2			
2	Module 2: LPP: Simplex method,					
	Canonical and Standard form of LP problem,	2	CO2	PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-12	20	40
	Solutions to LPP by Simplex method,	2	CO2			
	Big-M Method, slack, surplus and artificial variables,	2	CO2			
	Two Phase Simplex Method, Degeneracy in LPP.	2	CO2			
	Concept of Duality, writing Dual of given LPP.	2	CO2			
	Solutions to L.P.P by Dual Simplex Method	2	CO2			



Module 3: Transportation and Assignment Problem						
3	Transportation Problem: Formulation of transportation problem, types, rule	1	CO3	PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-12	20	60
	initial basic feasible solution using North-West Corner	1	CO3			
	Vogel's Approximation method.	1	CO3			
	Optimality in Transportation problem by Modified Distribution (MODI) method.	1	CO3			
	Unbalanced T.P. Maximization T.P.	1	CO3			
	Degeneracy in transportation problems, application of transportation problem	1	CO3			
	Assignment Problem-Formulation, ,	1	CO3			
	Solutions to assignment problems by Hungarian method	1	CO3			
	Special cases in assignment problems, unbalanced,).	1	CO3			
	Maximization assignment problems. Travelling Salesman Problem (TSP	1	CO3			
	Difference between assignment and T.S.P,	1	CO3			
Finding best route by Little's method. Numerical Problems.	1	CO3				
Module 4: Network and Queuing						
4	Network analysis: Introduction, Construction of networks,	1	CO4	PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-12	20	80
	Fulkerson's rule for numbering the nodes, AON and AOA diagrams;	1	CO4			
	Critical path method to find the expected completion time of a project,	1	CO6			
	determination of floats in networks, PERT networks,	1	CO6			
	determining the probability of completing a project,	1	CO6			
	predicting the completion time of project;	1	CO6			
	Cost analysis in networks. Crashing of networks-Problems.	1	CO6			
	Queuing Theory: Queuing systems and their characteristics,	1	CO4			
	Pure-birth and Pure-death models (only equations),	1	CO5			
	Kendall & Lee's notation of Queuing	2	CO5			
	empirical queuing models – Numerical on M/M/1 and M/M/C Queuing model	1	CO5			
Module 5: Game Theory and Sequencing						
	Game Theory: Definition, Pure Strategy problems, Saddle point, Max-Min and Min-Max criteria	1	CO4	PO-1 PO-2 PO-3		
	Principle of Dominance, Solution of games with Saddle point	1	CO4			
	Mixed Strategy problems. Solution of 2X2 games	1	CO4			



5	by Arithmetic method			PO-4	20	100
	Solution of $2 \times n$ m and $m \times 2$ games by graphical method. Formulation of games	1	CO4	PO-5		
	Sequencing: Basic assumptions, Johnson's algorithm	1	CO7	PO-6		
	sequencing 'n' jobs on single machine using priority rules, sequencing using Johnson's rule- 'n' jobs on 2 machines	1	CO7	PO-7 PO-8		
	n' jobs on 3 machines, 'n' jobs on 'm' machines. Sequencing of 2 jobs on 'm' machines using graphical method.	2	CO7	PO-9 PO-10 PO-12		

COURSE OUTCOMES:

After studying this course, students will be able to:

CO1	Understand the meaning, definitions, scope, need, phases and techniques of operations research
CO2	Formulate as L.P.P and derive optimal solutions to linear programming problems by graphical method, Simplex method, Big-M method and Dual Simplex method
CO3	Formulate as Transportation and Assignment problems and derive optimum solutions for transportation, Assignment and travelling salesman problems.
CO4	Solve problems on game theory for pure and mixed strategy under competitive environment
CO5	Solve waiting line problems for M/M/1 and M/M/K queuing models.
CO6	Construct network diagrams and determine critical path, floats for deterministic and PERT networks including crashing of Networks.
CO7	Determine minimum processing times for sequencing of n jobs-2 machines, n jobs-3machines, n jobs-m machines and 2 jobs-n machines using Johnson's algorithm.

TEXT BOOKS:

1. Operations Research, P K Gupta and D S Hira, S. Chand and Company LTD. Publications, New Delhi – 2007
2. Operations Research, An Introduction, Seventh Edition, Hamdy A. Taha, PHI Private Limited, 2006.

REFERENCE BOOKS:

1. Operations Research, Theory and Applications, Sixth Edition, J K Sharma, Trinity Press, Laxmi Publications Pvt.Ltd. 2016.
2. Operations Research, Paneerselvan, PHI
3. Operations Research, A M Natarajan, P Balasubramani, Pearson Education, 2005
4. Introduction to Operations Research, Hillier and Lieberman, 8th Ed., McGraw Hill

Scheme of Examination:

Two questions to be set from each module. Students have to answer five full questions, choosing at least one full question from each module.



ACS COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

CO-PO MAPPING

Course Title : OPERATION RESEARCH

Course Code : 15ME81

Semester : VIII

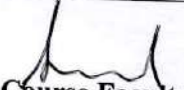
Course Outcome

CO	Description (Student able to)
CO1	Understand the meaning, definitions, scope, need, phases and techniques of operations research
CO2	Formulate as L.P.P and derive optimal solutions to linear programming problems by graphical method, Simplex method, Big-M method and Dual Simplex method
CO3	Formulate as Transportation and Assignment problems and derive optimum solutions for transportation, Assignment and travelling salesman problems.
CO4	Solve problems on game theory for pure and mixed strategy under competitive environment
CO5	Solve waiting line problems for M/M/1 and M/M/K queuing models.
CO6	Construct network diagrams and determine critical path, floats for deterministic and PERT networks including crashing of Networks.
CO7	Determine minimum processing times for sequencing of n jobs-2 machines, n jobs-3machines, n jobs-m machines and 2 jobs-n machines using Johnson's algorithm.

CO-PO MAPPING

Mapping of Course outcome (Cos) to Program Outcome (PO's)(15ME81)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO.1	2	2	2	1	2	2	1	1	1	1		2
CO.2	2	2	3	1	2	2	1	1	1	1		2
CO.3	1	2	3	1	2	2	1	1	1	1		2
CO.4	1	2	2	1	2	2	1	1	1	1		2
CO.5	2	2	2	1	2	2	1	1	1	1		2
CO.6	2	2	2	1	2	2	1	1	1	1		2
CO.7	2	2	2	1	2	2	1	1	1	1		2
Average	2	2	3	2	2	2	1	1	1	1		2


Course Faculty


HOD/Mech

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ACS College of Engineering, Bengaluru
Department of Mechanical Engineering

Control Engineering
LESSON PLAN

Name of the Faculty: Dr. Suresh P M
Designation: Professor – PG Studies and R&D
Hours /Week: 4

Sem: VIII Sem
Sub Code:15ME82
Total Hours: 52

Sl. No.	Lesson/Topic	% of portions covered	Cumulative % of portions covered
	Unit-1: Introduction:		
1	Concept of automatic controls	12.5%	12.5%
2	Open and closed loop systems		
3	Concepts of feedback Requirement of an ideal control system		
4	Types of controllers: Proportional Controller		
5	Integral Controller		
6	Proportional Integral Controller		
7	Proportional Integral Differential Controller		
	Unit-3: Block Diagrams and Signal Flow Graphs:		
8	Transfer Functions definition	12.5%	25%
9	Function block representation of system elements		
10	Reduction of block diagrams		
11	Transfer Function calculations after reduction		
12	Signal flow graphs		
13	Masons gain formula		
14	Numerical problems related to signal flow graphs		
	Unit-4: Transient and Steady State Analysis:		
15	Introduction to transient and steady state response analysis	12.5%	37.5%
16	First order and second order systems		
17	System response to step, ramp and impulse inputs		
18	Concepts of time constant		
19	Importance of time constant in speed of response		
20	System stability criteria		
21	Rouths Hurwitz Criterion		
	Unit-6: Frequency Response Analysis Using Bode Plots:		
22	Bode attenuation diagrams	12.5%	50%
23	Stability Analysis using Bode plots		
24	Simplified Bode Diagrams		
25	Numerical Problems		
26	Numerical Problems		
27	Numerical Problems		
28	Numerical Problems		



	Unit -7: Root Locus Plots:		
29	Definition of root loci	12.5%	62.5%
30	General rules for constructing root loci		
31	Analysis using root locus plots		
32	Analysis using root locus plots		
33	Numerical Problems		
34	Numerical Problems		
	Unit-2: Mathematical Models:		
35	Transfer function models	12.5%	75%
36	Models of mechanical systems		
37	Models of electrical circuits		
38	DC and AC motors in control systems		
39	Models of thermal systems, hydraulic systems and pneumatic system		
40	Analogous systems: Force voltage and Force current		
	Unit-5: Frequency Response Analysis:		
41	Polar plots	12.5%	87.5%
42	Nyquist Stability Criterion		
43	Stability Analysis		
44	Relative stability concepts		
45	Phase and gain margin		
46	M and N circles		
	Unit-8: System Compensation and State Variable Characteristics of Linear systems:		
47	Series and feedback compensation	12.5%	100%
48	Lead, Lag, Lead-Lag Compensation		
49	Introduction to State Concepts		
50	State equation of linear continuous data system		
51	Matrix representation of state equations		
52	Kalman and Gilberts test for Controllability and observability		

Text Books:

1. Modern Control Engineering: Katsuhiko Ogatta, Pearson Education 2004
2. Control Systems Principles and Design: M Gopal 3rd Ed TMH 2000

Reference Books:

1. Modern Control Systems: Richard C Dorf and Robert H Bishop, Addison Wesley 1999
2. System Dynamics & Control: Eronini-Umez, Thomson Asia pte Ltd, Singapore, 2002
3. Feedback Control System: Schaum's series, 2001

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ACS College of Engineering, Bengaluru
Department of Mechanical Engineering

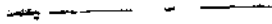
Additive Manufacturing
LESSON PLAN

Name of the Faculty: Dr. Suresh P M
Designation: Professor – PG Studies and R&D
Hours /Week: 5

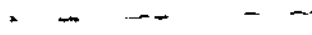
SEM: VIII SEM
Sub Code: 15ME82
Total Hours: 50

Sl. No.	Lesson/Topic	% of portions covered	Cumulative % of portions covered
	Module 5: MANUFACTURING CONTROL AND AUTOMATION CNC Technology		
1	An overview: Introduction to NC/CNC/DNC machine tools,		
2	An overview: Introduction to NC/CNC/DNC machine tools,		
3	Classification of NC /CNC machine tools,		
4	Advantage, disadvantages of NC /CNC machine tools,		
5	Application of NC/CNC Part programming: CNC programming and introduction		
6	Manual part programming: Basic (Drilling, milling, turning etc.)		
7	Manual part programming: Basic (Drilling, milling, turning etc.)		
8	Special part programming, Advanced part programming, Computer aided part programming (APT)	20%	20%
9	Introduction: Automation in production system principles and strategies of automation		
10	Basic Elements of an automated system. Advanced Automation functions.		
11	Levels of Automations, introduction to automation productivity Control Technologies in Automation: Industrial control system.		
12	Process industry vs discrete manufacturing industries. Continuous vs discrete control. Continuous process and its forms. Other control system components.		
	Module 2: System Drives and Devices		
13	Hydraulic and pneumatic motors and their features,		
14	Hydraulic and pneumatic motors and their features,		
15	Electrical motors AC/DC and their features		
16	Actuators: Electrical Actuators; Solenoids, Relays, Diodes, Thyristors, Triacs	20%	40%
17	Hydraulic and Pneumatic actuators		
18	Design of Hydraulic and Pneumatic circuits		
19	Design of Hydraulic and Pneumatic circuits		
20	Piezoelectric actuators, Shape memory alloys.		
	Module 1: Introduction to Additive Manufacturing		
21	Introduction to AM, AM evolution,		
22	Distinction between AM & CNC machining, Advantages of AM, AM process chain: Conceptualization, CAD,		
23	Conversion to STL, Transfer to AM, STL file manipulation, Machine setup, build, removal and clean up, post processing.	20%	60%
24	Classification of AM processes: Liquid polymer system, Discrete particle system,		

2



25	Molten material systems and Solid sheet system.		
26	Post processing of AM parts: Support material removal, surface texture improvement, accuracy improvement, aesthetic improvement,		
27	Preparation for use as a pattern, property enhancements using non-thermal and thermal techniques.		
28	Guidelines for process selection: Introduction, selection methods for a part, challenges of selection		
29	AM Applications: Functional models, Pattern for investment and vacuum casting, Medical models, art models, Engineering analysis models, Rapid tooling,		
30	New materials development, Bi-metallic parts, Re-manufacturing. Application examples for Aerospace, defence, automobile, Bio-medical and general engineering industries		
	Module 3: POLYMERS & POWDER METALLURGY		
31	Basic Concepts: Introduction to Polymers used for additive manufacturing: polyamide, PF resin, polyesters etc.		
32	Classification of polymers, Concept of functionality Polydispersity and Molecular weight [MW], Molecular Weight Distribution [MWD]		
33	Polymer Processing: Methods of spinning for additive manufacturing: Wet spinning, Dry spinning.		
34	Biopolymers, Compatibility issues with polymers.		
35	Moulding and casting of polymers, Polymer processing techniques		
36	General Concepts: Introduction and History of Powder Metallurgy (PM), Present and Future Trends of PM		
37	Powder Production Techniques: Different Mechanical and Chemical methods, Atomisation of Powder, other emerging processes.		
38	Characterization Techniques: Particle Size & Shape Distribution, Electron Microscopy of Powder,		
39	Interparticle Friction, Compression ability, Powder Structure, Chemical Characterization	20%	80%
40	Microstructure Control in Powder: Importance of Microstructure Study, Microstructures of Powder by Different techniques Powder Shaping: Particle Packing Modifications, Lubricants & Binders, Powder Compaction & Process Variables, Pressure & Density Distribution during Compaction,		
41	Isotactic Pressing, Injection Moulding, Powder Extrusion, Slip Casting, Tape Casting. Sintering: Theory of Sintering, Sintering of Single & Mixed Phase Powder, Liquid Phase Sintering Modern Sintering Techniques,		
42	Physical & Mechanical Properties Evaluation, Structure-Property Correlation Study,		
43	Modern Sintering techniques, Defects Analysis of Sintered Components		
44	Application of Powder Metallurgy: Filters, Tungsten Filaments, Self-Lubricating Bearings, Porous Materials, Biomaterials etc		
	Module 4: NANO MATERIALS & CHARACTERIZATION TECHNIQUES:		
45	Introduction: Importance of Nano-technology, Emergence of Nanotechnology, Bottomup and Top-down approaches, challenges in Nanotechnology		
46	Nano-materials Synthesis and Processing: Methods for creating Nanostructures;		
47	Processes for producing ultrafine powders- Mechanical grinding; Wet Chemical Synthesis of Nano-materials- sol-gel process;		



48	Gas Phase synthesis of Nano-materials, Furnace, Flame assisted ultrasonic spray pyrolysis; Gas Condensation Processing (GPC), Chemical Vapour Condensation (CVC).	20%	100%
49	Optical Microscopy - principles, Imaging Modes, Applications, Limitations.		
50	Scanning Electron Microscopy (SEM) - principles, Imaging Modes, Applications, Limitations.		
51	Transmission Electron Microscopy (TEM) - principles, Imaging Modes, Applications, Limitations.		
52	X- Ray Diffraction (XRD) - principles, Imaging Modes, Applications, Limitations. Scanning Probe Microscopy (SPM) - principles, Imaging Modes, Applications, Limitations.		
53	Atomic Force Microscopy (AFM) - basic principles, instrumentation, operational modes, Applications, Limitations.		
54	Electron Probe Micro Analyzer (EPMA) - Introduction, Sample preparation, Working procedure, Applications, Limitations.		

Course Objectives: Students will be able to:

1. Understand the additive manufacturing process, polymerization and powder metallurgy process
2. Understand characterisation techniques in additive manufacturing.
3. Acquire knowledge on CNC and Automation.

Course Outcomes

1. Understand the different process of Additive Manufacturing using Polymer, Powder and Nano materials manufacturing.
2. Understand the hydraulic, pneumatic & electric motors and actuators, Design of Hydraulic and Pneumatic circuits.
3. Analyse the different characterization techniques.
4. Describe the various NC, CNC machine programing and Automation techniques.

Text Books:

1. Chua Chee Kai, Leong Kah Fai, "Rapid Prototyping: Principles & Applications", World Scientific, 2003.
2. G Odian Principles of Polymerization, Wiley Inerscience John Wiley and Sons, 4th edition, 2005
3. Mark James Jackson, Microfabrication and Nanomanufacturing, CRC Press, 2005.
4. Powder Metallurgy Technology, Cambridge International Science Publishing, 2002.
5. P. C. Angelo and R. Subramanian: Powder Metallurgy- Science, Technology and Applications, PHI, New Delhi, 2008.
6. Mikell P Groover, Automation, Production Systems and Computer Integrated Manufacturing, 3rd Edition, Prentice Hall Inc., New Delhi, 2007.

Reference Books:

1. Wohler's Report 2000 - Terry Wohlers - Wohler's Association -2000
2. Computer Aided Manufacturing - P.N. Rao, N.K. Tewari and T.K. Kundra Tata McGraw Hill 1999
3. Ray F. Egerton, Physical Principles of Electron Microscopy: An Introduction to TEM, SEM, and AEM, Springer, 2005.
4. P. C. Angelo and R. Subramanian: Powder Metallurgy- Science, Technology and Applications, PHI, New Delhi, 2008.

1-1-8



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

EXPERIMENTAL STRESS ANALYSIS

LESSON PLAN

Name of the faculty: **SANDEEP.G.R**

Designation: **Asst. Professor**

Hours per week: **4**

Sub Code: **15ME832**

Total hours: **40**

SL NO	TOPICS	NO. of hours	% of portions covered	Cumulative % of portions covered
MODULE-1				
1	Electrical Resistance Strain Gages: Definition of terms, Calibration, Standards, Dimension and units generalized measurement system.	1	20	20
2	Basic concepts in dynamic measurements, system response, distortion, impedance matching, Analysis of experimental data, cause and types of experimental errors.	1		
3	General consideration in data analysis.	1		
4	Strain sensitivity in metallic alloys, Gage construction	1		
5	Adhesives and mounting techniques, Gage sensitivity and gage factor	1		
6	Performance Characteristics	1		
7	Environmental effects			
8	Strain Gage circuits, Potentiometer, Wheatstone's bridges, Constant current circuits.			
MODULE-2				
9	Strain Analysis Methods : Two element, three element rectangular	1	20	40
10	Delta rosettes	1		
11	Correction for transverse strain effects.	1		
12	Stress gage,	1		
13	Plane shear gage	1		
14	Stress intensity factor gage.	1		
15	Force, Torque and strain measurements: Mass balance measurement.	1		
16	Elastic element for force measurements, torque measurement.	1		
MODULE-3				
17	Photo-elasticity : Nature of light, Wave theory of light	1	20	60
18	Optical interference , Stress optic law, Effect of stressed model in plane and circular polariscopes	1		
19	Isoclinics & Isochromatics, Fringe order determination, Fringe multiplication techniques	1		
20	Calibration photoelastic model materials, Calibration photoelastic model materials	1		

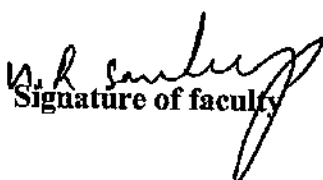
21	Two Dimensional Photo-elasticity: Separation methods, Shear difference method	1		
22	Analytical separation methods, Model to prototype scaling	1		
23	Properties of 2D photo-elastic model materials	1		
24	Materials for 2D photoelasticity.	1		
	MODULE-4			
25	Three Dimensional Photo elasticity : Stress freezing method, Scattered light photo-elasticity	1	20	80
26	Scattered light as an interior analyzer, Scattered light as an interior polarizer	1		
27	Scattered light polariscope, Stress data Analyses.	1		
28	Photoelastic (Birefringent) Coatings : Birefringence coating stresses, Effects of coating thickness	1		
29	Reinforcing effects, Poisson's	1		
30	Stress separation techniques	1		
31	Stress separation techniques	1		
32	Oblique incidence, Strip coatings.	1		
	MODULE-5			
33	Brittle Coatings : Coatings stresses, Crack patterns,	1	20	100
34	Refrigeration techniques, Load relaxation techniques	1		
35	Crack detection methods, Types of brittle coatings	1		
36	Calibration of coating. Advantages and brittle coating applications	1		
37	Moire Methods : Moire fringes produced by mechanical interference	1		
38	Geometrical approach, Displacement field approach to Moire fringe analysis	1		
39	Out of plane displacement measurements			
40	Out of plane slope measurements, Applications and advantages	1		

TEXT BOOKS:

1. "Experimental Stress Analysis", Dally and Riley, McGraw Hill.
2. "Experimental Stress Analysis". Sadhu Singh, Khanna publisher.
3. Experimental stress Analysis, Srinath L.S tata McGraw Hill.

REFERENCES BOOKS :

1. "Photoelasticity Vol I and Vol II, M.M.Frocht, John Wiley & sons.
2. "Strain Gauge Primer", Perry and Lissner,
3. "Photo Elastic Stress Analysis", Kuske, Albrecht & Robertson John Wiley & Sons.
4. "Motion Measurement and Stress Analysis", Dave and Adams


Signature of faculty

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ENGINEERING GRAPHICS

LESSON PLAN

Sub Code: 18EGDL15/25

Hrs/ Week : 06 (Instruction 2 hr. + Sketching & Practice 4 hr)

Total Hrs. 84 (Instruction 28 hr. + Sketching & Practice 56 hr.)

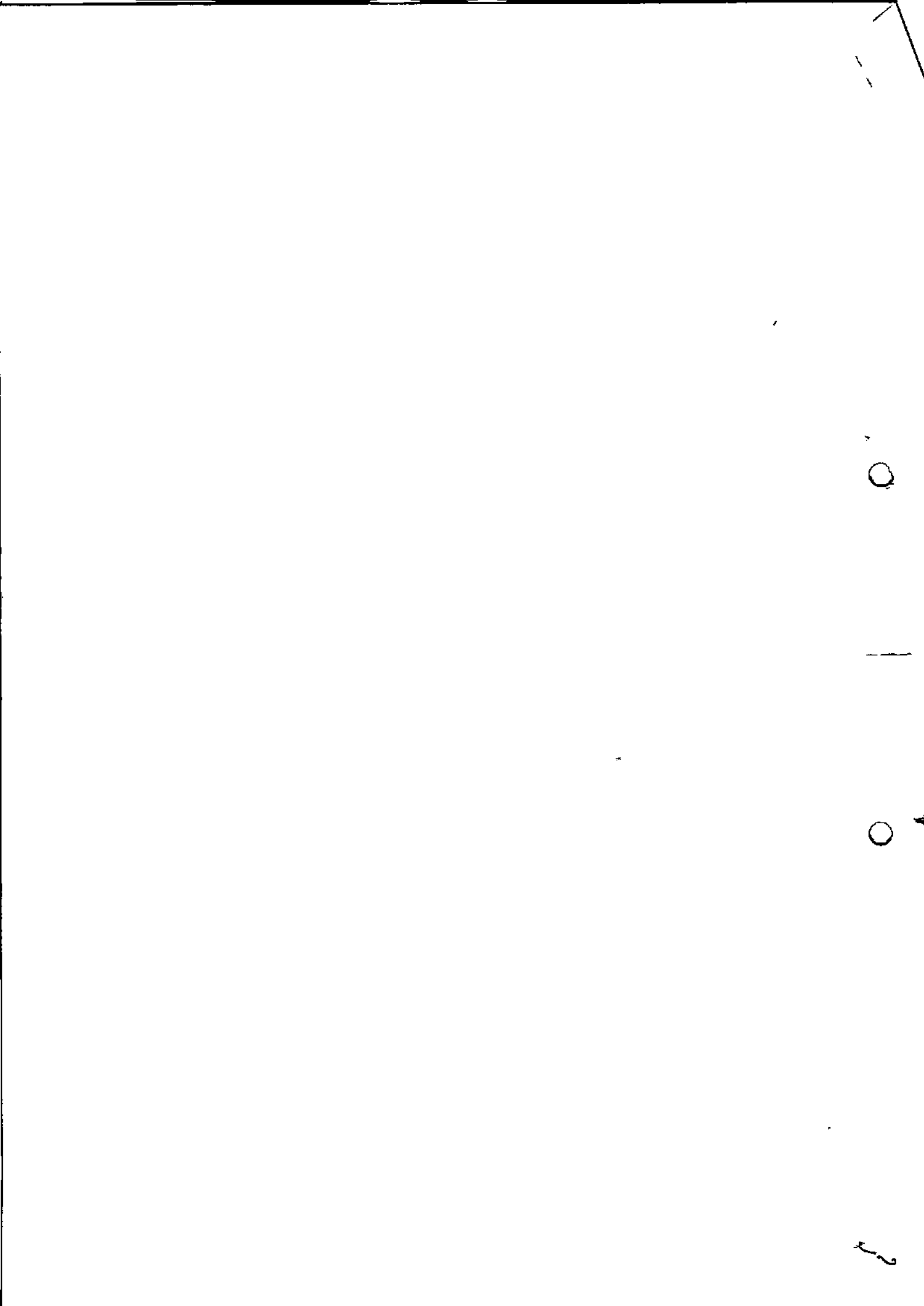
IA Marks:40

Exam Marks:100

Exam Hours:03

LESSON PLAN

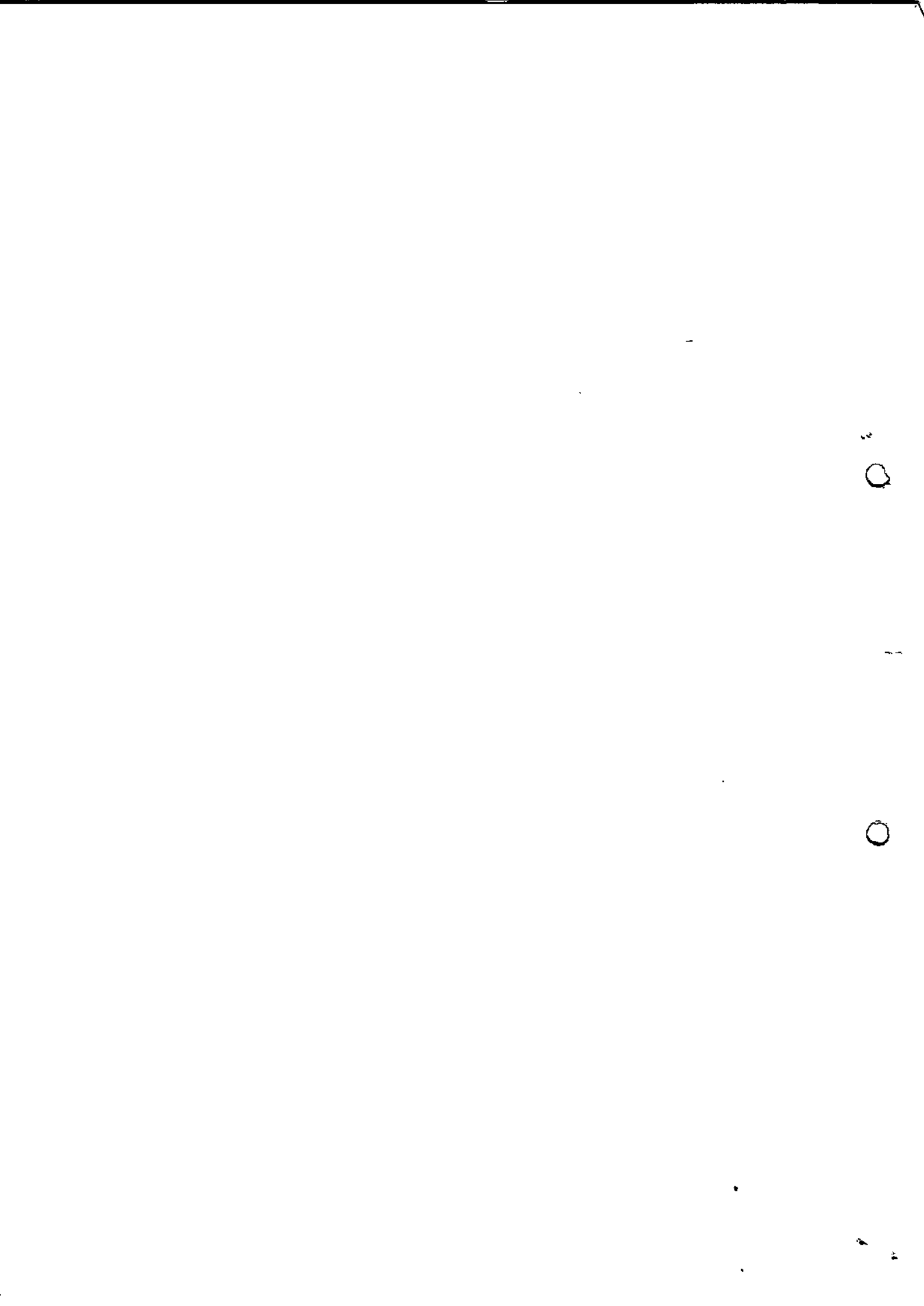
Sl.No	Syllabus covered	Cumulative No of Hours	CO's	PO's
1.	Introduction to computer Aided Sketching. Definitions - Planes of projection, reference line, Geometric Dimensioning and Conventions employed	2	CO 1	2,3,4,5
	Projections of points in all the four quadrants	4	CO 3	2,3,4,5
	Projections of points in all the four quadrants	6	CO 3	2,3,4,5
3.	True and apparent lengths-problems	10	CO 3	2,3,4,5
4.	True and apparent inclinations to reference planes -problems	12	CO 3	2,3,4,5
6.	True and apparent inclinations to reference planes - problems	14	CO 3	2,3,4,5
14.	Definitions-projections of plane surfaces-triangle	16	CO 3	2,3,4,5
15.	projections of plane surfaces-square	18	CO 3	2,3,4,5
16.	projections of plane surfaces-rectangle	20	CO 3	2,3,4,5
17.	projections of plane surfaces- pentagon	24	CO 3	2,3,4,5
18.	projections of plane surfaces- hexagon	26	CO 3	2,3,4,5
20.	Introduction, Definitions – Projections of solids	2	CO 4	2,3,4,5,11
21.	Projections of solids – Square Prism resting on one of its edge /corner on HP & inclined to VP	4	CO 4	2,3,4,5,11
22.	Projections of solids - Triangular Prism resting on one of its edge on HP & inclined to VP	6	CO 4	2,3,4,5,11



23.	Projections of solids - Pentagon Prism resting on one of its edge on HP & inclined to VP	8	CO 4	2,3,4,5,11
24.	Projections of solids - Hexagon Prism resting on one of its edge on HP & inclined to VP	10	CO 4	2,3,4,5,11
25.	Projections of solids - Square Prism resting on one of its edge on HP ,axis inclined to HP&VP	12	CO 4	2,3,4,5,11
26.	Projections of solids - Pentagon Prism resting on one of its edge on HP , axis inclined to HP&VP	14	CO 4	2,3,4,5,11
27.	Projections of solids - Hexagon Prism resting on one of its edge on HP , axis inclined to HP&VP	16	CO 4	2,3,4,5,11
28.	Projections of solids – Pyramid resting on one of its edge /corner on HP & inclined to VP	18	CO 4	2,3,4,5,11
29.	Projections of solids – Pyramid resting on one of its slant edge& axis inclined to VP	20	CO 4	2,3,4,5,11
30.	Projections of solids – Pyramid resting on one of its triangular face& axis inclined to VP	22	CO 4	2,3,4,5,11
31.	Projections of solids – Prism freely suspended in space and axis inclined to VP	24	CO 4	2,3,4,5,11
34.	Projections of solids – Tetrahedron on one of its edge /corner on HP & inclined to VP	24	CO 4	2,3,4,5,11
	Projections of solids – Hexahedron on one of its edge /corner on HP & inclined to VP	26	CO 4	2,3,4,5,11
36.	Introduction, Isometric scale, Isometric projection of simple plane figures	2	CO 5	2,3,4,5,11
37.	Isometric projection of tetrahedron, right regular prisms, regular pyramid	4	CO 5	2,3,4,5,11
40.	Isometric projection of right regular cylinder, cone, hemisphere & sphere	10	CO 5	2,3,4,5,11
41.	Isometric projection of combination of solids	12	CO 5	2,3,4,5,11
47.	Apparent shapes and True shapes of Sections of right regular prisms	15	CO 5	2,3,4,5,11


FACULTY INCHARGE


HOD MECHANICAL



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CBCS

ELEMENTS OF MECHANICAL ENGINEERING

LESSON PLAN

Name of the Faculty: SRINIDHI ACHARYA S R

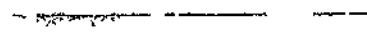
Hours per week: 5 Hours

Designation: Assistant Professor

Total hours: 50

Sub Code: 18ME25

SL NO	TOPICS	Cumulative No. of Hours	% of portions covered	Cumulative % of portions covered
	Module- 1:			
1	Introduction and application of energy sources like fossil fuels, hydel, solar, wind	1		
2	Introduction and application of energy sources like nuclear fuels and bio-fuels; environmental issues like global warming and ozone depletion	2		
3	Introduction, states, concept of work, heat, temperature	3		
4	Zeroth, 1st, 2nd and 3rd laws of thermodynamics	4	20	20
5	Concept of internal energy, enthalpy and entropy	5		
6	Numerical on zeroth, 1 st , 2 nd & 3 rd law of thermodynamics, internal energy, enthalpy & entropy	6		
7	Formation of steam and thermodynamic properties of steam	7		
8	Numerical on steam & thermodynamic properties of steam	8		
	Module - 2:			
1	Introduction to boilers, classification, Lancashire boiler	9		
2	Babcock and Wilcox boiler. Introduction to boiler mountings and accessories	10		
3	Hydraulic Turbines – Classification and specification	11		
4	Principles and operation of Pelton wheel turbine, Francis turbine and Kaplan turbine	12	20	40
5	Introduction, classification of pumps	13		
6	Specification of pumps	14		
7	Reciprocating pump and centrifugal pump	15		
8	concept of cavitation and priming	16		



	Module – 3:			
1	Classification, I.C. Engines parts, 2 and 4 stroke petrol and 4-stroke diesel engines	17	20	60
2	P-V diagrams of Otto and Diesel cycles	18		
3	Simple problems on indicated power, brake power, indicated thermal efficiency, brake thermal efficiency, mechanical efficiency and specific fuel consumption	19		
4	Simple problems on indicated power, brake power, indicated thermal efficiency, brake thermal efficiency, mechanical efficiency and specific fuel consumption	20		
5	Refrigeration - Definitions - Refrigerating effect, Ton of Refrigeration, Ice making capacity, COP, relative COP, Unit of Refrigeration	21		
6	Refrigerants, Properties of refrigerants, List of commonly used refrigerants	22		
7	Principle and working of vapor compression refrigeration and vapor absorption refrigeration	23		
8	Domestic refrigerator. Principles and applications of air conditioners, window and split air conditioners	24		
	Module – 4:			
1	Metals – Ferrous: cast iron, tool steels and stainless steels and nonferrous: aluminum, brass, bronze. Polymers - Thermoplastics and thermosetting polymers. Ceramics - Glass, optical fiber glass, cements	25	20	80
2	Composites - Fiber reinforced composites, Metal Matrix Composites Smart materials – Piezoelectric materials, shape memory alloys, semiconductors and insulators	26		
3	Definitions. Classification and methods of soldering, brazing and welding. Brief description of arc welding, oxy-acetylene welding, TIG welding, and MIG welding	27		
4	Open & crossed belt drives, Definitions -slip, creep, velocity ratio, derivations for length of belt in open and crossed belt drive, ratio of tension in flat belt drives, advantages and disadvantages of V belts and timing belts	28		
5	Simple numerical	29		
6	Types—spur, helical, bevel, worm and rack and pinion	30		
7	Velocity ratio, advantages and disadvantages over belt drives	31		
8	simple numerical problems on velocity ratio	32		
	Module – 5			
1	Principle of working of a center lathe. Parts of a lathe.	33	20	100



	Operations on lathe - Turning, Facing, Knurling, Thread Cutting		
2	Drilling, Taper turning by Tailstock offset method and Compound slide swiveling method, Specification of Lathe	34	
3	Principle of milling, types of milling machines. Working of horizontal and vertical milling machines	35	
4	Milling processes - plane milling, end milling, slot milling, angular milling, form milling, straddle milling, and gang milling	36	
5	Introduction, components of CNC, open loop and closed loop systems	37	
6	advantages of CNC, CNC Machining centers and Turning centers	38	
7	Robot anatomy, joints and links, common robot configurations	39	
8	Applications of Robots in material handling, processing and assembly and inspection	40	

TEXT BOOKS:

1. Elements of Mechanical Engineering, K. R. Gopalakrishna, Subhas Publications, Bangalore, 2008
2. Elements of Mechanical Engineering, Vol.-1 & 2, Hajra Choudhury, Media Promoters, New Delhi, 2001
3. A Text Book of Elements of Mechanical Engineering”, S. Trymbaka Murthy, 3rd revised edition 2006, I.K. International Publishing House Pvt. Ltd., New Delhi

REFERENCE BOOKS:

1. **Elements of Mechanical Engineering**, R.K. Rajput, Firewall Media, 2005.
2. **Elements of Mechanical Engineering**, Dr. A. S. Ravindra, Best Publications, 7th edition, 2009.
3. CAD/CAM/CIM, Dr. P Radhakrishnan, 3rd edition, New Age International Publishers, New Delhi
4. Introduction to Robotics: Mechanics And Control, Craig, J. J., 2nd Ed. Addison-Wesley Publishing Company, Readong, MA, 1989.
5. Introduction to Engineering Materials”, B.K. Agrawal ,Tata McGraHill Publication, New Delhi
6. Thermal Science and Engineering”, Dr. D.S. Kumar, S.K. Kataria & sons Publication, New Delhi



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ACS College of Engineering
Bangalore - 560 074.



A C S COLLEGE OF ENGINEERING

Department of Mechanical Engineering

CBCS

ELEMENTS OF MECHANICAL ENGINEERING

LESSON PLAN

Name of the Faculty: RAKESH S.

Hours per week: 5 Hours

Designation: Assistant Professor

Total hours: 50

Sub Code: 18ME15/25

Sl No	TOPICS	Cumulative No. of Hours	CO's	PO's
Module- 1:				
1	Introduction and application of energy sources like fossil fuels, hydel, solar, wind	1	CO1	1,2,3
2	Introduction and application of energy sources like nuclear fuels and bio-fuels; environmental issues like global warming and ozone depletion	2	CO1	1,2,3
3	Introduction, states, concept of work, heat, temperature	3	CO1	1,2,3
4	Zeroth, 1st, 2nd and 3rd laws of thermodynamics	4	CO1	1,2,3,
5	Concept of internal energy, enthalpy and entropy	5	CO1	1,2,3
6	Numerical on zeroth, 1 st , 2 nd & 3 rd law of thermodynamics, internal energy, enthalpy & entropy	6	CO1	1,2,3
7	Formation of steam and thermodynamic properties of steam	7	CO1	1,2,3
8	Numerical on steam & thermodynamic properties of steam	8	CO1	1,2,3
Module - 2:				
1	Introduction to boilers, classification, Lancashire boiler	9	CO1	1,2,3
2	Babcock and Wilcox boiler. Introduction to boiler mountings and accessories	10	CO1	1,2,3
3	Hydraulic Turbines – Classification and specification	11	CO1	1,2,3
4	Principles and operation of Pelton wheel turbine, Francis turbine	12	CO1	1,2,3
5	Principles and operation of Kaplan turbine	13	CO1	1,2,3
6	Introduction, classification of pumps	14	CO1	1,2,3
7	Specification of pumps	15	CO1	1,2,3
8	Reciprocating pump and centrifugal pump	16	CO1	1,2,3
9	concept of cavitation and priming	17	CO1	1,2,3



Module – 3:				
1	Classification, I.C. Engines parts, 2 and 4 stroke petrol and 4-stroke diesel engines	18	CO2	1,2,3
2	P-V diagrams of Otto and Diesel cycles	19	CO2	1,2,3
3	Simple problems on indicated power, brake power, indicated thermal efficiency, brake thermal efficiency, mechanical efficiency and specific fuel consumption	20	CO2	1,2,3
4	Simple problems on indicated power, brake power, indicated thermal efficiency, brake thermal efficiency, mechanical efficiency and specific fuel consumption	21	CO2	1,2,3
5	Refrigeration - Definitions - Refrigerating effect, Ton of Refrigeration, Ice making capacity, COP, relative COP, Unit of Refrigeration	22	CO2	1,2,3
6	Refrigerants, Properties of refrigerants, List of commonly used refrigerants	23	CO2	1,2,3
7	Principle and working of vapor compression refrigeration and vapor absorption refrigeration	24	CO2	1,2,3
8	Domestic refrigerator. Principles and applications of air conditioners, window and split air conditioners	25	CO2	1,2,3

Module – 4:				
1	Metals – Ferrous: cast iron, tool steels and stainless steels and nonferrous: aluminum, brass, bronze. Polymers	26	CO4	1,2,3
2	Thermoplastics and thermosetting polymers. Ceramics - Glass, optical fiber glass, cements	27	CO4	1,2,3
3	Composites - Fiber reinforced composites, Metal Matrix Composites Smart materials – Piezoelectric materials, shape memory alloys, semiconductors and insulators	28	CO4	1,2,3
4	Definitions. Classification and methods of soldering, brazing and welding. Brief description of arc welding, oxy-acetylene welding,	29	CO3	1,2,3
5	TIG welding, and MIG welding	30	CO3	1,2,3
6	Open & crossed belt drives, Definitions -slip, creep, velocity ratio, derivations for length of belt in open and crossed belt drive, ratio of tension in flat belt drives, advantages and disadvantages of V belts and timing belts	31	CO3	1,2,3
7	Simple numerical	32	CO3	1,2,3
8	Types–spur, helical, bevel, worm and rack and pinion	33	CO3	1,2,3
9	Velocity ratio, advantages and disadvantages over belt drives	34	CO3	1,2,3
10	simple numerical problems on velocity ratio	35	CO3	1,2,3

Module – 5				
1	Principle of working of a center lathe. Parts of a lathe. Operations on lathe - Turning, Facing, Knurling, Thread Cutting	36	CO5	1,2,3
2	Drilling, Taper turning by Tailstock offset method and Compound slide swiveling method, Specification of Lathe	37	CO5	1,2,3
3	Principle of milling, types of milling machines. Working of	38	CO5	1,2,3

	horizontal and vertical milling machines			
4	Milling processes - plane milling, end milling, slot milling, angular milling, form milling, straddle milling, and gang milling	39	CO5	1,2,3
5	Introduction, components of CNC, open loop and closed loop systems	40	CO6	1,2,3
6	advantages of CNC, CNC Machining centers and Turning centers	41	CO6	1,2,3
7	Robot anatomy, joints and links, common robot configurations	42	CO6	1,2,3
8	Applications of Robots in material handling, processing and assembly and inspection	43	CO6	1,2,3

Course Outcomes:

Upon completion of this course, students will be able to

CO1- Identify different sources of energy and their conversion process.

CO2- Explain the working principle of hydraulic turbines, pumps, IC engines and refrigeration.

CO3- Recognize various metal joining processes and power transmission elements.

CO4- Understand the properties of common engineering materials and their applications in engineering industry.

CO5- Discuss the working of conventional machine tools, machining processes, tools and accessories.


CO6- Describe the advanced manufacturing systems.

TEXT BOOKS:

1. Elements of Mechanical Engineering, K. R. Gopalakrishna, Subhas Publications, Bangalore, 2008
2. Elements of Mechanical Engineering, Vol.-1 & 2, Hajra Choudhury, Media Promoters, New Delhi, 2001
3. A Text Book of Elements of Mechanical Engineering", S. Trymbaka Murthy, 3rd revised edition 2006, I.K. International Publishing House Pvt. Ltd., New Delhi

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2. **Elements of Mechanical Engineering**, Dr. A. S. Ravindra, Best Publications, 7th edition, 2009.
3. CAD/CAM/CIM, Dr. P Radhakrishnan, 3rd edition, New Age International Publishers, New Delhi
4. Introduction to Robotics: Mechanics And Control, Craig, J. J., 2nd Ed. Addison-Wesley Publishing Company, Readong, MA, 1989.
5. Introduction to Engineering Materials", B.K. Agrawal ,Tata McGraHill Publication, New Delhi
6. Thermal Science and Engineering", Dr. D.S. Kumar, S.K. Kataria & sons Publication, New Delhi



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 ACS College of Engineering
 Bangalore - 560 074.



ACS College of Engineering

207, Kambipura, Mysore Road, Bangalore -560074

CALENDER OF EVENTS ODD SEMESTER FEB - MAY 2018

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	Feb				01	02	03	02	
2	Feb	05	06	07	08	09	10	06	
3	Feb	12	13	14	15	16	17	04	Feb-13-Maha Shivaratri
4	Feb	19	20	21	22	23	24	06	
5	Feb	26	27	28				03	
6	Mar				01	02	03	02	
7	Mar	05	06	07				06	8,9,10-First IAT
8	Mar	12	13	14				05	15,16,17-Sports Day
9	Mar	19	20	21	22	23	24	06	
10	Mar	26	27	28	29	30	31	04	Mar-29-Mahavir Jayanthi Mar-30-Good Friday
11	April	02	03	04	05	06	07	05	
12	April	09	10	11				05	Apr-14-Ambedkar Jayanthi 12,13,14-Cultural Day
13	April	16	17	18	19	20	21	05	Apr-18-Basava Jyanthi
14	April	23	24	25				06	26,27,28-Second IAT
15	April	30						01	
16	May		01	02	03	04	05	03	May1-May Day
17	May	07	08	09	10	11	12	06	
18	May	14	15				19	05	16,17,18-Third IAT
19	May							04	21,22,23,24-Lab Internals

Commencement of ODD Semester 01.02.2018

I Internal Test - 8,9,10th of March 2018

II Internal Test - 26,27 & 28th of April 2018

III Internal Test - 16,17 & 18th of May 2018

Murali
Principal

ACS College of Engineering
Kambipura, Mysore Road, Bangalore -560074

(Signature)



ACS College of Engineering

207, Kambipura, Mysore Road, Bangalore -560074

CALENDER OF EVENTS ODD SEMESTER AUG-NOV 2017

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	AUG	07	08	09	10	11	12	05	
2	AUG	14	15	16	17	18	19	04	15.08.2017- Independence Day/Alumni Day 19.08.2017-Third Saturday Holiday
3	AUG	21	22	23	24	25	26	05	25.08.2017-Ganesh chaturthi 26.08.017-Holiday
4	AUG SEP	28	29	30	31	01	02	05	02.09.2017-Bakr Id
5	SEP	04	05	06	07	08	09	06	05.09.2017-5 th Graduation day
6	SEP	11	12	13	14	15	16	05	11,12,13.09.2017-I Internal test 16.09.2017-Third Saturday Holiday
7	SEP	18	19	20	21	22	23	05	19.09.2017-Mahalaya Amavasya
8	SEP	25	26	27	28	29	30	04	29.09.2017-Durgastami, 30.09.2017-Vijaya Dhasami
9	OCT	02	03	04	05	06	07	03	02.10.2017-Gandhi Jayanthi 05.10.2017-Maharishi Valmiki Jayanthi 07.10.2017-First Saturday Holiday
10	OCT	09	10	11	12	13	14	06	
11	OCT	16	17	18	19	20	21	04	18.10.2017- Narak Chaturdashi 20.10.2017-Vikram Samvat New Year 21.10.2017-Third Saturday Holiday
12	OCT	23	24	25	26	27	28	06	23,24,25.10.2017-II Internal test
13	OCT NOV	30	31	01	02	03	04	04	01.11.2017-Kannada Rajathsova 04.11.2017-First Saturday Holiday
14	NOV	06	07	08	09	10	11	05	06.11.2017- kanakadasa Jayanthi
15	NOV	13	14	15	16	17	18	05	18.11.2017-Third Saturday Holiday
16	NOV	20	21	22	23	24	25	06	20,21,22.11.2017-III Internal test
17	NOV	26	27	28	29	30		05	

Commencement of Odd Semester 07.08.2017 Last Working Day of ODD Semester-25.11.2017

I Internal Test - 11.09.2017-13.09.2017

II Internal Test - 23.10.2017-25.10.2017

III Internal Test - 20.11.2017-22.11.2017

Reg/CS/10

[Signature]

Principal

A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074



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207, Kambipura, Mysore Road, Bangalore - 560074

CALENDAR OF EVENTS FOR SEMESTER I (AUG-DEC) 2018

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	AUG			1	2	3	4	3	AUG 4 - 1 st Saturday
2	AUG	5	6	7	8	9	10	6	
3	AUG	13	14	15	16	17	18	4	AUG 25 - 26 th Dussehra Day AUG 28 - 1 st Saturday
4	AUG	20	21	22	23	24	25	5	AUG 30 Holiday
	AUG/SEP	27	28	29	30		1	5	SEP 1 - 1 st Saturday AUG 31 - Dussehra Day
5	SEP	3	4	5	6	7		6	
6	SEP			12	13	14	15	4	SEP 13 - Ganesh Chaturthi SEP 15 - 5 th Saturday
7	SEP	17	18	19	20	21	22	5	SEP 21 - Moharats
8	SEP	24	25	26	27	28	29	6	
9	OCT	1	2	3	4	5	6	4	OCT 2 - Gandhi Jyanti OCT 6 - 1 st Saturday
10	OCT	8	9	10	11	12	13	5	OCT 8 - Mahalaya Amavasya
11	OCT	15	16	17	18	19	20	3	OCT 18 - 1 st Dussehra with Saraswati Puja OCT 20 - 3 rd Saturday
12	OCT	22	23	24				2	OCT 26 - Ganesh Puja
13	OCT/NOV	29	30	31	1	2	3	4	NOV 1 - Ganesh Navaratri NOV 2 - 1 st Saturday
14	NOV	5	6	7	8	9	10	4	NOV 6 - Ganesh Chaturthi NOV 8 - Dussehra
15	NOV	12	13	14	15	16	17	5	NOV 17 - 3 rd Saturday
16	NOV	19	20	21	22	23	24	5	NOV 25 - Eid Mubarak
17	NOV/DEC	26				30	1	4	NOV 28 - Ganesh Navaratri DEC 1 - 1 st Saturday
18	DEC	3	4					2	

Commencement of OGD Semester 01.08.2018
 I Internal Test - 8th, 10th & 11th of September 2018
 II Internal Test - 25, 26 & 27th of October 2018
 III Internal Test - 27, 28th, 29th of November 2018
 Last working day for 3rd and 5th Semester / 30.11.2018, 7th Semester - 04.12.2018

[Signature]

Principal

A.C.S. College of Engineering
 Kambipura, Mysore Road, Bangalore - 560074

Academic Calendar of VTU, Belagavi for EVEN Semester of 2018-2019 (Feb 2019 – July 2019)

	II Sem B. E. / B. Tech. / B. Arch	IV & VI Sem B. E. /B. Tech. IV, VI, VIII Sem B, Arch.	VIII Sem B.E / B.Tech & X Sem B. Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M. Tech.	IV Sem M. Arch.	II Sem M. Tech.	II Sem MCA	II Sem MBA	II Sem M. Arch.
Commencement of EVEN Semester	25.02.2019	01.02.2019	01.02.2019	01.02.2019	01.02.2019	18.02.2019	28.12.2018	01.02.2019	01.03.2019	01.03.2019	25.02.2019	25.02.2019
Last Working day of EVEN Semester	17.06.2019	23.05.2019	23.05.2019	18.05.2019	18.05.2019	01.06.2019	13.04.2019	18.05.2019	21.06.2019	21.06.2019	17.06.2019	17.06.2019
Practical Examination	19.06.2019 To 29.06.2019	27.05.2019 To 07.06.2019	-	21.05.2019 To 25.05.2019	-	-	-	-	24.06.2019 To 29.06.2019	24.06.2019 To 29.06.2019	-	-
Theory Examinations	01.07.2019 To 16.07.2019	10.06.2019 To 16.07.2019	27.05.2019 To 07.06.2019	27.05.2019 To 15.06.2019	-	03.06.2019 To 28.06.2019	27.05.2019 To 31.05.2019	-	01.07.2019 To 12.07.2019	01.07.2019 To 12.07.2019	20.06.2019 To 04.07.2019	20.06.2019 To 04.07.2019
Viva Voce	-	-	11.06.2019 To 17.06.2019	-	-	-	-	-	-	-	-	-
Summer Project / Professional training /	-	-	-	-	20.05.2019 To 29.05.2019 [Submissio n of report to VTU]	01.04.2019 To 15.04.2019 [Submissio n of report to VTU]	03.06.2019 To 18.06.2019 [Submissio n of report to VTU]	-	-	-	-	-
Commencement of ODD Semester	22.07.2019	22.07.2019	-	22.07.2019	-	-	-	-	22.07.2019	22.07.2019	22.07.2019	22.07.2019

NOTE

- College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
- The faculty/staff shall be available to undertake any work assigned by the university.
- If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
- Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time


REGISTRAR

Academic Calendar of VTU, Belagavi for ODD Semester of 2019-2020 (Jul 2019 – Jan 2020)

	I Sem B. E. / B. Tech. / B. Arch. (Tentative)	III, V & VII Sem B. E. /B. Tech. III, V, VII & IX Sem B. Arch.	III & V Sem MCA	III Sem MBA	III Sem M. Tech.	III Sem M. Arch.
Commencement of ODD Semester	01.08.2019	29.07.2019	29.07.2019	08.08.2019	26.08.2019	08.09.2019
Last Working day of ODD Semester	29.11.2019	30.11.2019	30.11.2019	05.12.2019	23.12.2019	06.01.2020
Practical Examinations	03.12.2019 To 13.12.2019	03.12.2019 To 13.12.2019	03.12.2019 To 07.12.2019	-	-	-
Theory Examinations	16.12.2019 To 04.01.2020	16.12.2019 To 07.02.2020	09.12.2019 To 28.12.2019	09.12.2019 To 04.01.2020	27.12.2019 To 10.01.2020	08.01.2020 To 22.01.2020
Internship Viva-Voce	-	-	-	-	12.01.2020 To 19.01.2020	-
Professional training / Organization study	-	-	-	-	-	-
Commencement of EVEN Semester	27.01.2020	10.02.2020	27.01.2020	27.01.2020	27.01.2020	01.02.2020

NOTE:

- VII Semester B. E / B. Tech students shall have to undergo Internship for a period of four Weeks.
- I Semester B. E/ B. Tech / B. Arch Students shall compulsorily undergo Induction Program for a period of 3 Weeks (two phases) as per the schedule given by VTU. First phase 11 days in first semester and second phase 10 days in second semester.

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time.

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REGISTRAR

Academic Calendar of VTU, Belagavi for ODD Semester of 2019-2020 (Sept 2019 – Mar 2020)

First Semester- M. Tech/M. Arch/ MBA/MCA

	1 Sem M. Tech.	1 Sem M. Arch.	1 Sem MBA	1 Sem MCA
Commencement of ODD Semester	30.09.2019	30.09.2019	30.09.2019	30.09.2019
Last Working day of ODD Semester	21.01.2020	21.01.2020	21.01.2020	21.01.2020
Practical Examinations	24.01.2020 To 29.01.2020	-	-	24.01.2020 To 29.01.2020
Theory Examinations	01.02.2020 To 12.02.2020	24.01.2020 To 05.02.2020	24.01.2020 To 05.02.2020	01.02.2020 To 12.02.2020
Internship Viva-Voce	-	-	-	-
Professional training / Organization study	-	-	-	-
Commencement of EVEN Semester	05.03.2020	14.02.2020	14.02.2020	05.03.2020

NOTE:

1. College Timetable shall be arranged for five and a half weekdays and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday, then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time.

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REGISTRAR

ACS College of Engineering

207, Kambipura, Mysore Road, Bangalore - 560074

CALENDAR OF EVENTS Even SEMESTER FEB - MAY 2020

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	Feb	10	11	12	13	14	15	5	15 th 3 rd Saturday
2	Feb	17	18	19	20	21	22	5	21 st Feb Mahashivaratri 22 nd Friday Time Table
3	Feb	24	25	26	27	28	29	6	29 th Thursday Time Table
4	Mar	2	3	4	5	6	7	5	7 th 1 st Saturday
5	Mar	9	10	11	12	13	14	6	12 th , 13 th & 14 th First IA
6	Mar	16	17	18	19	20	21	5	21 st 3 rd Saturday
7	Mar	23	24	25	26	27	28	5	25 th Ugadi 27 th & 28 th Sports Day
8	Mar/Apr	30	31	1	2	3	4	5	4 th April 1 st Saturday
9	April	6	7	8	9	10	11	4	6 th Mahaveer Jayanthi 10 th Good Friday Second IA
10	April	13	14	15	16	17	18	5	Second IA 14 th Ambedkar Jayanthi 18 th 3 rd Saturday
11	April	20	21	22	23	24	25	5	25 th Wednesday Time Table
12	April/May	27	28	29	30	1	2	4	1 st May Day, 2 nd 1 st Saturday
13	April/May	4	5	6	7	8	9	6	8 th & 9 th Cultural Day
14	May	11	12	13	14	15	16	5	16 th May 3 rd Saturday
15	May	18	19	20	21	22	23	6	Third IA
16	May	25	26	27	28	29	30	5	25 th Ramzan 30 th Friday Time Table

Commencement of Even Semester 10.02.2020

I Internal Test - 12th, 13th & 14th of March 2020

II Internal Test - 11th, 13th & 15th of April 2020

III Internal Test - 21st, 22nd & 23rd of May 2020

Last working day :

Principal

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Kambipura, Mysore Road, Kengeri Ho
Bangalore - 560 074.

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**Academic Calendar of VTU, Belagavi for EVEN Semester of 2021-2022
(March 2021 to July 2021)**

	IV Sem MCA	VI Sem MCA#	IV Sem M. Tech.	IV Sem M. Arch.
Commencement of EVEN Semester	03.03.2021	10.03.2021	03.03.2021	03.03.2021
Last Working day of EVEN Semester	19.06.2021	19.06.2021	19.06.2021	19.06.2021
Practical Examination	21.06.2021 To 25.06.2021	--	--	--
Theory Examinations	28.06.2021 To 12.07.2021	--	28.06.2021 To 12.07.2021	--
Internship	--	--	--	--
Internship Viva Voce	--	--	--	--
Summer Project / Professional training /Organization Study	--	--	--	--
Submission of the report to the University	--	23.06.2021 To 03.07.2021	13.07.2021 To 26.07.2021	--
Commencement of ODD Semester	19.07.2021	--	--	--

- # MCA students have to complete their internship during the vacation period between V and VI semesters.
- The classroom sessions for even the semester should commence from the dates mentioned above.
- The Institute needs to function for **six days a week with additional hours (Saturday is a full working day)**. If required the college can plan to have extra classes even on Sundays also.
- The faculty/staff shall be available to undertake any work assigned by the university.
- If any of the above dates are declared to be a holiday then the corresponding event will come into effect on the next working day.
- Notification regarding the Calendar of Events relating to the conduct of **University Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Revised Academic Calendar is also applicable for **Autonomous Colleges**. In case if any changes are to be affected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.

vised - Academic Calendar of VTU, Belagavi for ODD Semester of 2016-2017 (Aug 2016 – Jan 2017)

	III, V & VII Sem B.E/B.Tech III, V, VII & IX Sem B.Arch	III & V Sem MCA	III Sem MBA	III Sem M.Tech	III Sem M.Arch.	I Sem B.E/B.Tech/ B.Arch	I Sem MCA	I Sem MBA	I Sem M.Tech.	I Sem M.Arc
Commencement of ODD Semester	01.08.2016	01.08.2016	01.08.2016	01.08.2016 [Internship of 16 Weeks]	26.08.2016	01.08.2016	01.09.2016	01.09.2016	01.09.2016	01.09.2016
Last Working day of ODD Semester	*26.11.2016	*26.11.2016	*26.11.2016	*26.11.2016	29.12.2016	*26.11.2016	21.12.2016	21.12.2016	21.12.2016	04.01.2017
Practical Examination	*01.12.2016 To 10.12.2016	*01.12.2016 To 09.12.2016				*01.12.2016 To 10.12.2016	26.12.2016 To 31.12.2016		26.12.2016 To 28.12.2016	
Theory Examinations	*14.12.2016 To 13.01.2017	*14.12.2016 To 28.12.2016	*01.12.2016 To 30.12.2016	02.12.2016 To 20.12.2016 [Theory examination of arrear Subjects]	02.01.2017 To 14.01.2017	*14.12.2016 To 10.01.2017	02.01.2017 To 13.01.2017	26.12.2016 To 10.01.2017	30.12.2016 To 12.01.2017	09.01.2017 To 20.01.2017
Internship/ Project Work			*02.01.2017 To 10.03.2017 [Submission report to VTU by 10.04.2017]		01.07.2016 To 25.08.2016 [Professional Training]					
Commencement of EVEN Semester	02.02.2017	02.02.2017	16.02.2017	26.12.2016	02.02.2017	02.02.2017	02.02.2017	02.02.2017	02.02.2017	02.02.2017

Note: In Above Table * : Indicates Revised Schedule

Revised - Academic Calendar of VTU, Belagavi for EVEN Semester of 2016-2017 (Feb 2017 – July 2017)

	II, IV & VI Sem B.E/B.Tech II, IV, VI, VIII Sem B.Arch	VIII Sem BE/B.Tech & X Sem B.Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M.Tech	IV Sem M.Arch	II Sem MCA	II Sem MBA	II Sem M.Tech	II Sem M.Arch
Commencement of EVEN Semester	13.02.2017	13.02.2017	13.02.2017	13.02.2017	13.03.2017	02.02.2017	13.02.2017	13.02.2017	13.02.2017	13.02.2017	13.02.2017
Last Working day of EVEN Semester	02.06.2017	02.06.2017	02.06.2017	02.06.2017	30.06.2017	22.05.2017	16.06.2017	02.06.2017	02.06.2017	02.06.2017	16.06.2017
Practical Examination	17.07.2017 To 26.07.2017	-	13.07.2017 To 19.07.2017	-	-	-	-	13.07.2017 To 19.07.2017	-	13.07.2017 To 19.07.2017	-
Theory Examinations	16.06.2017 To 15.07.2017	05.06.2017 To 16.06.2017	27.05.2017 To 10.07.2017	-	03.07.2017 To 29.07.2017	05.07.2017 To 10.07.2017	-	21.06.2017 To 10.07.2017	27.06.2017 To 10.07.2017	27.06.2017 To 10.07.2017	27.06.2017 To 10.07.2017
Viva Voce	-	19.06.2017 To 24.06.2017	-	-	-	-	-	-	-	-	-
Summer Project / Professional Training	-	-	-	05.06.2017 To 17.06.2017 (Submission of Report to VTU)	02.05.2017 To 16.05.2017 (Submission of Report to VTU)	24.05.2017 To 09.06.2017 (Submission of Report to VTU)	-	-	-	-	-
Commencement of ODD Semester	07.08.2017	-	07.08.2017	-	-	-	-	07.08.2017	07.08.2017	07.08.2017 [Internship of 16 Weeks]	07.08.2017

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time


REGISTRAR

Academic Calendar of VTU, Belagavi for ODD Semester of 2017-2018 (Aug 2017 – Jan 2018)

	III, V & VII Sem B.E/B.Tech III, V, VII & IX Sem B.Arch.	I Sem B.E/B.Tech/ B.Arch	III & V Sem MCA	III Sem MBA	III Sem M.Tech	III Sem M.Arch.
Commencement of ODD Semester	07.08.2017	07.08.2017	07.08.2017	21.08.2017	07.08.2017 [Internship of 16 Weeks]	11.09.2017
Last Working day of ODD Semester	25.11.2017	25.11.2017	25.11.2017	09.12.2017	25.11.2017	13.01.2018
Practical Examination	29.11.2017 To 08.12.2017	29.11.2017 To 08.12.2017	29.11.2017 To 08.12.2017	-	-	-
Theory Examinations	11.12.2017 To 10.01.2018	11.12.2017 To 30.12.2017	11.12.2017 To 30.12.2017	13.12.2017 To 10.01.2018	12.12.2017 To 30.12.2017 (Arrear subjects)	15.01.2018 To 27.01.2018
Summer Project / Professional training	-	-	-	15.01.2018 To 24.03.2018 [Submission report to VTU by 24.04.2018]	-	17.07.2017 To 09.09.2017 [Professional training]
Commencement of EVEN Semester	01.02.2018	01.02.2018	01.02.2018	26.03.2018	08.01.2018	01.02.2018

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time


 12/01/18
 REGISTRAR

Academic Calendar of VTU, Belagavi for EVEN Semester of 2014-2015 (Feb 2015 – July 2015)

	II, IV & VI Sem B.E/B.Tech II, IV, VI, VIII Sem B.Arch	VII Sem BE/B.Tech & X Sem B.Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M.Tech	IV Sem M.Arch	II Sem MCA	II Sem MBA	II Sem M.Tech	II Sem M.Arch
Commencement of EVEN Semester	02.02.15	02.02.15	02.02.15	02.02.15	16.02.15	26.12.14	02.02.15	02.02.15	02.02.15	02.02.15	02.02.15
Last Working day of EVEN Semester	23.05.15	23.05.15	23.05.15	23.05.15	06.06.15	11.04.15	06.06.15	23.05.15	23.05.15	23.05.15	06.06.15
Practical Examination	26.05.15 To 04.06.15	-	26.05.15 To 30.05.15	-	-	Report Writing and Submission	-	26.05.15 To 30.05.15	-	25.05.15 To 27.05.15	-
Theory Examinations	08.06.15 To 10.07.15	26.05.15 To 04.06.15	01.06.15 To 20.06.15	-	10.06.15 To 25.06.15	18.05.15 To 05.06.15	-	01.06.15 To 20.06.15	26.05.15 To 10.06.15	30.05.15 To 15.06.15	15.06.15 To 30.06.15
Viva Voce	-	08.06.15 To 13.06.15	-	-	-	-	-	-	-	-	-
Summer Project / Professional Training	-	-	-	25.05.15 To 10.06.15 (Submission of Report to VTU)	30.03.15 To 15.04.15 (Submission of Report to VTU)	-	-	-	-	-	-
Commencement of ODD Semester	03.08.15	-	03.08.15	-	-	-	-	03.08.15	03.08.15	03.08.15 [Internship of 16 Weeks]	03.08.15

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1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
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3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time.

[Signature]

Revised - Academic Calendar of VTU, Belagavi for EVEN Semester of 2017-2018 (Feb 2018 - July 2018)

	II, IV & VI Sem B.E/B.Tech II IV, VI, VIII Sem B.Arch	VIII Sem BE / B.Tech & X Sem B.Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M.Tech	IV Sem M.Arch	II Sem MCA	II Sem MBA	II Sem M.Tech	II Sem M.Arch
Commencement of EVEN Semester	05.02.2018	05.02.2018	05.02.2018	05.02.2018	26.03.2018	08.01.2018	05.02.2018	17.02.2018	10.02.2018	17.02.2018	23.02.2018
Last Working day of EVEN Semester	26.05.2018	26.05.2018	26.05.2018	26.05.2018	13.07.2018	28.04.2018	09.06.2018	08.06.2018	31.05.2018	08.06.2018	28.06.2018
Practical Examination	28.05.2018 To 07.06.2018		28.05.2018 To 02.06.2018					11.06.2018 To 16.06.2018		11.06.2018 To 16.06.2018	
Theory Examinations	11.06.2018 To 14.07.2018	28.05.2018 To 08.06.2018	04.06.2018 To 20.06.2018		16.07.2018 To 08.08.2018	28.05.2018 To 02.06.2018		16.06.2018 To 30.06.2018	04.06.2018 To 18.06.2018	18.06.2018 To 30.06.2018	02.07.2018 To 12.07.2018
Viva Voce		11.06.2018 To 16.06.2018									
Summer Project / Professional Training				28.05.2018 To 08.06.2018 [Submission of Report to VTU]	15.05.2018 To 30.05.2018 [Submission of Report to VTU]	02.05.2018 To 19.05.2018 [Submission of Report to VTU]			*	25.06.2018 To 21.07.2018 [Internship]	
Commencement of ODD Semester	01.08.2018	-	01.08.2018	-	-	-	-	01.08.2018	01.08.2018	01.08.2018 [Internship of 16 Weeks]	01.08.2018

In the above table * Mark indicates Internship for MBA.

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time


REGISTRAR

Revised - Academic Calendar of VTU Belagavi for ODD Semester of 2016-2017 (Aug 2016 – Jan 2017)

	III, V & VII Sem B.E/B.Tech III, V, VII & IX Sem B.Arch	III & V Sem MCA	III Sem MBA	III Sem M.Tech	III Sem M.Arch.	I Sem B.E/B.Tech/ B.Arch	I Sem MCA	I Sem MBA	I Sem M.Tech.	I Sem M.Arc
Commencement of ODD Semester	01.08.2016	01.08.2016	01.08.2016	01.08.2016 [Internship of 16 Weeks]	26.08.2016	01.08.2016	01.09.2016	01.09.2016	01.09.2016	01.09.2016
Last Working Day of ODD Semester	*26.11.2016	*26.11.2016	*26.11.2016	*26.11.2016	29.12.2016	*26.11.2016	21.12.2016	21.12.2016	21.12.2016	04.01.2017
Practical Examination	*01.12.2016 To 10.12.2016	*01.12.2016 To 09.12.2016	-	-	-	*01.12.2016 To 10.12.2016	26.12.2016 To 31.12.2016	-	26.12.2016 To 28.12.2016	-
Theory Examinations	*14.12.2016 To 13.01.2017	*14.12.2016 To 28.12.2016	*01.12.2016 To 30.12.2016	02.12.2016 To 20.12.2016 [Theory examination of arrear Subjects]	02.01.2017 To 14.01.2017	*14.12.2016 To 10.01.2017	02.01.2017 To 13.01.2017	26.12.2016 To 10.01.2017	30.12.2016 To 12.01.2017	09.01.2017 To 20.01.2017
Internship/ Project Work	-	-	*02.01.2017 To 10.03.2017 [Submission report to VTU by 10.04.2017]	-	01.07.2016 To 25.08.2016 [Professional Training]	-	-	-	-	-
Commencement of EVEN Semester	02.02.2017	02.02.2017	16.02.2017	26.12.2016	02.02.2017	02.02.2017	02.02.2017	02.02.2017	02.02.2017	02.02.2017

Note: In Above Table * : Indicates Revised Schedule

Revised - Academic Calendar of VTU, Belagavi for EVEN Semester of 2017-2018 (Feb 2018 – July 2018)

	II, IV & VI Sem B.E/B.Tech II, IV, VI, VIII Sem B.Arch	VIII Sem BE / B.Tech & X Sem B.Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M.Tech	IV Sem M.Arch	II Sem MCA	II Sem MBA	II Sem M.Tech	II Sem M.Arch
Commencement of EVEN Semester	05.02.2018	05.02.2018	05.02.2018	05.02.2018	26.03.2018	08.01.2018	05.02.2018	17.02.2018	10.02.2018	17.02.2018	23.02.2018
Last Working day of EVEN Semester	26.05.2018	26.05.2018	26.05.2018	26.05.2018	13.07.2018	28.04.2018	09.06.2018	08.06.2018	31.05.2018	08.06.2018	28.06.2018
Practical Examination	28.05.2018 To 07.06.2018	-	28.05.2018 To 02.06.2018	-	-	-	-	11.06.2018 To 16.06.2018	-	11.06.2018 To 16.06.2018	-
Theory Examinations	11.06.2018 To 14.07.2018	28.05.2018 To 09.06.2018	04.06.2018 To 20.06.2018	-	16.07.2018 To 08.08.2018	28.05.2018 To 02.06.2018	-	18.06.2018 To 30.06.2018	04.06.2018 To 18.06.2018	18.06.2018 To 30.06.2018	02.07.2018 To 12.07.2018
Viva Voce	-	11.06.2018 To 16.06.2018	-	-	-	-	-	-	-	-	-
Summer Project / Professional Training	-	-	-	28.05.2018 To 08.06.2018 (Submission of Report to VTU)	15.05.2018 To 30.05.2018 (Submission of Report to VTU)	02.05.2018 To 19.05.2018 (Submission of Report to VTU)	-	-	25.06.2018 To 21.07.2018 (Internship)	-	-
Commencement of ODD Semester	01.08.2018	-	01.08.2018	-	-	-	-	01.08.2018	01.08.2018	01.08.2018 [Internship of 16 Weeks]	01.08.2018

In the above table bold indicates – Revised Schedule for VIII Semester B.E

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time

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REGISTRAR

ACS COLLEGE OF ENGINEERING

CALENDER OF EVENTS OF ODD SEMESTERS AUG-NOV 2016

Week No	Month	Mon	Tue	Wed	Thu	Fri	Sat	No of Working Days	Activities
1	Aug	01	02	03	04	05	06	06	1st Commencement of Odd Sem
2	Aug	08	09	10	11	12	13	05	13th Second Saturday Holiday
3	Aug	15	16	17	18	19	20	05	15th Independence Day
4	Aug	22	23	24	25	26	27	06	
5	Aug/Sep	29	30	31	01	02	03	06	
6	Sep	05	06	07	08	09	10	04	05th Ganesh Chaturthi / 10th Second Saturday Holiday
7	Sep	12	13	14	15	16	17	05	6th, 7th & 8th is 1st Internal Test 12th Bakrid Holiday 17th Parents Teachers meeting
8	Sep	19	20	21	22	23	24	06	
9	Sep/Oct	26	27	28	29	30	01	05	30th Mahalaya Amavasya Holiday
10	Oct	03	04	05	06	07	08	05	4th, 5th & 6th is 2nd Internal Test
11	Oct	10	11	12	13	14		02	10th Ayudha Puja, 11th Vijaya Dashmi, 12th Moharam, 15th Valmiki Jayanthi
12	Oct	17	18	19	20	21	22	06	
13	Oct	24	25	26	27	28	29	05	29th Naraka Chathudashi
14	Oct/Nov	31	01	02	03	04	05	04	31st Balipadyami, 1st Karnataka Rajyotsava
15	Nov	07	08	09	10	11	12	05	7th, 8th & 9th is 3rd Internal Test 12th Second Saturday Holiday
16	Nov	14	15	16	17	18	19	05	14, 15 & 16th Lab Test 17th Kanakadas Jayanthi 19th Last Working Day

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+91 90085 45678, +91-80-28437955 / 956

admission@acsce.edu.in

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CALENDER OF EVENTS ODD SEMESTER FEB - JUNE 2017

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	Feb	13	14	15	16	17	18	06	
2	Feb	20	21	22	23	24	25	05	24 th Feb Mahashivarathri
3	Feb	27	28					02	
4	Mar			01	02	03	04	04	
5	Mar	06	07	08	09	10	11	05	11 th March Second Saturday
6	Mar	13	14	15	16	17	18	05	13 th March Holi 16 th , 17 th & 18 th Internal Test
7	Mar	20	21	22	23	24	25	06	23 rd & 24 th Sports Day
8	Mar	27	28	29	30	31		04	29 th March Ugadi
9	April						01	01	
10	April	03	04	05	06	07	08	05	8 th April Second Saturday 4 th & 5 th Cultural Day
11	April	10	11	12	13	14	15	05	14 th April Ambedkar Jayanthi / Good Friday
12	April	17	18	19	20	21	22	06	20 th , 21 st & 22 nd II Internal Day
13	April	24	25	26	27	28	29	05	29 th April Basava Jayanthi
14	May	01	02	03	04	05	06	05	1 st May - May Day
15	May	08	09	10	11	12	13	05	May 13 th Second Saturday
16	May	15	16	17	18	19	20	06	
17	May	22	23	24	25	26	27	06	Lab Internals
18	May	29	30	31				03	29 th , 30 th & 31 st III Internal Test
19	Jun				01	02		02	

Commencement of Even Semester 13.02.2017

I Internal Test - 16th, 17th & 18th of March 2017

II Internal Test - 20th, 21st & 22nd of April 2017

III Internal Test - 29th, 30th & 31st of May 2017

Last Working Day - 02.06.2017

Total no. of working days - 86

[Signature]
Principal

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Academic Calendar of VTU Belagavi for EVEN Semester of 2016-2017 (Feb 2017 – July 2017)

	II, IV & VI Sem B.E./B.Tech II, IV, VI, VIII Sem B.Arch	VIII Sem BE/B.Tech & X Sem B.Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M.Tech	IV Sem M.Arch	II Sem MCA	II Sem MBA	II Sem M.Tech	II Sem M.Arch
Commencement of EVEN Semester	13.02.2017	13.02.2017	13.02.2017	13.02.2017	13.03.2017	02.02.2017	13.02.2017	13.02.2017	13.02.2017	13.02.2017	13.02.2017
Last Working day of EVEN Semester	02.06.2017	02.06.2017	02.06.2017	02.06.2017	30.06.2017	22.05.2017	16.06.2017	02.06.2017	02.06.2017	02.06.2017	16.06.2017
Practical Examination	05.06.2017 To 14.06.2017	-	05.06.2017 To 10.06.2017	-	-	-	-	05.06.2017 To 10.06.2017	-	05.06.2017 To 10.06.2017	-
Theory Examinations	16.06.2017 To 20.07.2017	05.06.2017 To 16.06.2017	12.06.2017 To 28.06.2017	-	03.07.2017 To 29.07.2017	12.06.2017 To 17.06.2017	-	12.06.2017 To 28.06.2017	05.06.2017 To 17.06.2017	12.06.2017 To 30.06.2017	19.06.2017 To 30.06.2017
Viva Voce	-	19.06.2017 To 24.06.2017	-	-	-	-	-	-	-	-	-
Summer Project / Professional Training	-	-	-	05.06.2017 To 17.06.2017 (Submission of Report to VTU)	02.05.2017 To 16.05.2017 (Submission of Report to VTU)	24.05.2017 To 09.06.2017 (Submission of Report to VTU)	-	-	-	-	-
Commencement of ODD Semester	01.08.2017	-	01.08.2017	-	-	-	-	01.08.2017	01.08.2017	01.08.2017 [Internship of 16 Weeks]	01.08.2017

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots; the schedule of which will be notified separately.
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[Signature]
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07/07/17



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CALENDER OF EVENTS ODD SEMESTER FEB – MAY 2017

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	Feb				02	03	04	03	02 nd Feb Reopening Day
2	Feb	06	07	08	09	10	11	06	11 th Feb Second Saturday
3	Feb	13	14	15	16	17	18	06	
4	Feb	20	21	22	23	24	25	06	24 th Feb Mahashivarathri
5	Feb	27	28					02	
6	Mar			01	02	03	04	04	
7	Mar	06	07	08	09	10	11	06	11 th March Second Saturday I Internal Test
8	Mar	13	14	15	16	17	18	06	13 th March Holi
9	Mar	20	21	22	23	24	25	06	
10	Mar	27	28	29	30	31		05	29 th March Ugadi
11	April						01	01	
12	April	03	04	05	06	07	08	06	8 th April Second Saturday II Internal Test
13	April	10	11	12	13	14	15	06	14 th April Ambedkar Jayanthi
14	April	17	18	19	20	21	22	06	
15	April	24	25	26	27	28	29	06	
16	May	01	02	03	04	05	06	06	1 st May - May Day
17	May	08	09	10	11	12	13	06	III Internal Test
18	May	15	16	17	18	19	20	06	

Commencement of Even Semester 02.02.2017

I Internal Test – 6th, 7th & 8th of March 2017

II Internal Test – 3rd, 4th & 5th of April 2017

III Internal Test – 11th, 12th & 13th of May 2017

10/05/17

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ACS College of Engineering Bangalore -560074

Department of Civil Engineering

CALENDER OF EVENTS ODD SEMESTER FEB - MAY 2017

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	Feb			01	02	03	04	03	1 st Feb Faculty Meeting 02 nd Feb Reopening Day
2	Feb	06	07	08	09	10	11	06	11 th Feb Second Saturday
3	Feb	13	14	15	16	17	18	06	16 th Feb Faculty Meeting 18 th Feb Student Development Programme (SDP)
4	Feb	20	21	22	23	24	25	06	22 nd Feb - Guest Lecture - 1 24 th Feb Mahashivarathri
5	Feb	27	28					02	
6	Mar			01	02	03	04	04	2 nd March Faculty Meeting 4 th March NBA - Review of Documents
7	Mar	06	07	08	09	10	11	06	I Internal Test - 6th, 7th & 8th 11 th March Second Saturday
8	Mar	13	14	15	16	17	18	06	13 th March Holi 16 th March Faculty Meeting 18 th March Student Development Programme (SDP)
9	Mar	20	21	22	23	24	25	06	23 rd March - Guest Lecture - 2
10	Mar	27	28	29	30	31		05	29 th March Ugadi 30 th March Faculty Meeting
11	April						01	01	1 st April Student Development Programme (SDP)
12	April	03	04	05	06	07	08	06	II Internal Test - 3rd, 4th & 5 th 8 th April Second Saturday
13	April	10	11	12	13	14	15	06	13 th April Faculty Meeting 14 th April Ambedkar Jayanthi
14	April	17	18	19	20	21	22	06	20 th April NAAC - Review of Documents
15	April	24	25	26	27	28	29	06	27 th April Faculty Meeting 26 th April - Guest Lecture - 2
16	May	01	02	03	04	05	06	06	1 st May - May Day
17	May	08	09	10	11	12	13	06	10 th May Faculty Meeting III Internal Test - 11th, 12th & 13th
18	May	15	16	17	18	19	20	06	International Conference ENWARM - 2017 on 24 th -26 th May

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PRINCIPAL

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Academic Calendar of VTU, Belagavi for ODD Semester of 2017-2018 (Aug 2017 - Jan 2018)

	III, V & VII Sem B.E/B.Tech III, V, VII & IX Sem B.Arch	I SEM B.E/B.Tech/ B.Arch	III & V Sem MCA	III Sem MBA	III Sem M.Tech	III Sem M.Arch.
Commencement of ODD Semester	07.08.2017	07.08.2017	07.08.2017	21.08.2017	07.08.2017 [Internship of 16 Weeks]	11.09.2017
Last Working day of ODD Semester	25.11.2017	25.11.2017	25.11.2017	09.12.2017	25.11.2017	13.01.2018
Practical Examination	29.11.2017 to 08.12.2017	29.11.2017 to 08.12.2017	29.11.2017 to 08.12.2017	-	-	-
Theory Examinations	11.12.2017 to 10.01.2018	11.12.2017 to 30.12.2017	11.12.2017 to 30.12.2017	13.12.2017 to 10.01.2018	12.12.2017 to 30.12.2017 (Arrears subjects)	15.01.2018 to 27.01.2018
Summer Project / Professional training	-	-	-	15.01.2018 to 24.03.2018 (Submission report to VTU by 24.04.2018)	-	17.07.2017 to 09.09.2017 [Professional training]
Commencement of EVEN Semester	01.02.2018	01.02.2018	01.02.2018	26.03.2018	08.01.2018	01.02.2018

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the University.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar(Evaluation) from time to time.

Sd/-
Registrar, VTU

Visvesvaraya Technological University Belagavi

Academic Calendar for ODD Semester of 2018-2019 (Aug 2018 – Jan 2019)

	I Sem B.E/B.Tech/ B.Arch	III, V Sem B.E/B.Tech III, V VII, & IX Sem B.Arch	VII Sem B.E / B.Tech	III & V Sem MCA	III Sem MBA	III Sem M.Tech	III Sem M.Arch.
Commencement of ODD Semester	13.08.2018	01.08.2018	06.08.2018	01.08.2018	01.08.2018	01.08.2018 [Internship of 16 Weeks]	10.09.2018
Last Working day of ODD Semester	17.01.2019 [Includes 3 Weeks Induction Program]	30.11.2018	04.12.2018	30.11.2018	30.11.2018	30.11.2018	05.01.2019
Practical Examination	21.01.2019 To 30.01.2019	03.12.2018 To 14.12.2018	06.12.2018 To 14.12.2018	03.12.2018 To 07.12.2018			
Theory Examinations	04.02.2019 To 18.02.2019	17.12.2018 To 18.01.2019	17.12.2018 To 18.01.2019	10.12.2018 To 28.12.2018	05.12.2018 To 29.12.2018	05.12.2018 To 22.12.2018	09.01.2019 To 22.01.2019
Summer Project / Professional training					03.01.2019 To 16.02.2019 [Submission of report to VTU by 08.03.2019]		23.07.2018 To 07.09.2018 [Professional training]
Commencement of EVEN Semester	25.02.2019	01.02.2019	01.02.2019	01.02.2019	18.02.2019	28.12.2018	01.02.2019

NOTE.

- VII Semester B.E / B.Tech students shall have to undergo Internship for a period of four Weeks.
 - I Semester B.E/ B.Tech / B.Arch Students shall compulsorily undergo Induction Program for a period of 3 Weeks as per the schedule given by VTU.
1. The faculty/staff shall be available to undertake any work assigned by the university.
 2. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
 3. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time.

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Calender of Events for EVEN semesters (2020-2021)

From 19/04/2021 To 7/08/2021

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	APR	19	20	21	22	23	24	6	
2	APR-MAY	26	27	28	29	30	1	5	1-MAY DAY
3	MAY	3	4	5	6	7	8	6	
4	MAY	10	11	12	13	14	15	4	13- Ramzan ; 14 Basava Jayanthi
5	MAY	17	18	19	20	21	22	6	
6	MAY	24	25	26	27	28	29	6	24,25,26 : I Internal Test
7	MAY-JUN	31	1	2	3	4	5	6	5th - Webinar on Missile Aerodynamics
8	JUN	7	8	9	10	11	12	6	12th - Webinar on Transition from a Fresh graduate to a professional
9	JUN	14	15	16	17	18	19	6	19th - Webinar on Winning Resume Writing
10	JUN	21	22	23	24	25	26	6	26th - Webinar on How to Face an Interview
11	JUN-JUL	28	29	30	1	2	3	6	3rd - Industrial Visit
12	JUL	5	6	7	8	9	10	6	5,6,7 : II Internal Test
13	JUL	12	13	14	15	16	17	6	
14	JUL	19	20	21	22	23	24	5	20 - Bakrid
15	JUL	26	27	28	29	30	31	6	
16	AUG	2	3	4	5	6	7	6	
17	AUG	9	10	11	12	13	14	6	9,10,11 : III Internal Test
18	AUG	16	17	18	19	20	21	6	
Total Number of working Days								104	
Last working day of Even semester : 7/8/2021									
UG-Practical Examinations : 9/8/2021 to 19/08/2021									
UG-Theory Examinations : 23/08/2021 to 9/9/2021									
Comencement of odd SEM : 13/09/2021									
ALL CLASSES ARE HELD ONLINE UNTIL FURTHER NOTICE									

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Calender of Events for Odd semesters (2020-2021)

From 01/09/2020 To 16 /01/2021

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	SEP		1	2	3	4	5	5	
2	SEP	7	8	9	10	11	12	6	
3	SEP	14	15	16	17	18	19	5	17th Mahalaya Amavase
4	SEP	21	22	23	24	25	26	5	26th-Saturday holiday
5	SEP/OCT	28	29	30	1	2	3	5	02-Gandhi Jayanthi
6	OCT	5	6	7	8	9	10	6	
7	OCT	12	13	14	15	16	17	6	15th - Kalam 89 (Online Festival);
8	OCT	19	20	21	22	23	24	5	15th,16th&17th First IA
9	OCT	26	27	28	29	30	31	5	19th,20th,21st - First IA
10	NOV	2	3	4	5	6	7	6	23rd-dasara holiday
11	NOV	9	10	11	12	13	14	6	26th - Dasara Holiday
12	NOV	16	17	18	19	20	21	5	7th - Industrial Visit
13	NOV	23	24	25	26	27	28	6	16th-Diwali holiday
14	NOV/DEC	30	1	2	3	4	5	5	25th - Webinar on Key challenges in Industry 4.0;
15	DEC	7	8	9	10	11	12	5	28th -Webinar on Systems Tool Kit - Software
16	DEC	14	15	16	17	18	19	6	3rd-kanakadasa jayanthi,
17	DEC	21	22	23	24	25	26	5	30th Nov,1st-5th dec -Second IA
18	DEC/JAN	28	29	30	31	1	2	6	12th - Webinar on Evolution of FV control, guidance and sensors,
19	JAN	4	5	6	7	8	9	6	12th -Saturday holiday
20	JAN	11	12	13	14	15	16	5	25th christmas
									7th,8th & 9th third internals
									14th-sankranti
Total Number of working Days								109	
Last working day of Odd semester : 16/01/2021									
UG-Practical Examinations : 21/01/2021 onwards									
UG-Theory Examinations : 8/02/2021-25/03/2021									
Comencement of Even SEM :26/03/2021									



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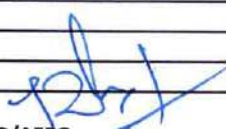
DEPARTMENT OF AERONAUTICAL ENGINEERING

Calendar of Events for EVEN semesters(2019-20)

From 10/02/2020 To 1/06/2020

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB	10	11	12	13	14	15	5	15-Third Saturday (H)
2	FEB	17	18	19	20	21	22	5	21- Mahashivarathri(H)
3	FEB	24	25	26	27	28	29	6	
4	MAR	2	3	4	5	6	7	5	2nd - Seminar on Aircraft Icing and its effect, 3rd - Seminar on Career opportunities in Higher studies, 4th - Seminar on Career opportunities in Aeronautical Industries, 7- First Saturday (H)
5	MAR	9	10	11	12	13	14	6	9th - Seminar on The new age of Robotics; 12,13,14 - I Internal Test
6	MAR	16	17	18	19	20	21	5	21- Third Saturday(H)
7	MAR	23	24	25	26	27	28	5	25-Ugadi(H) ; 27,28 - Sports Day;
8	MAR-APR	30	31	1	2	3	4	5	4- First Saturday(H)
9	APR	6	7	8	9	10	11	4	6- Mahavira Jayanthi (H) ; 10- Good Friday(H); 11 - II Internal Test
10	APR	13	14	15	16	17	18	4	13,15 -II Internal Test; 14 - Ambedkar Jayanti; 18-Third Saturday
11	APR	20	21	22	23	24	25	6	25th - Industrial Visit
12	APR-MAY	27	28	29	30	1	2	4	1-May Day; 2 -First Saturday
13	MAY	4	5	6	7	8	9	6	8,9 - Cultural Day
14	MAY	11	12	13	14	15	16	5	16- Third Saturday
15	MAY	18	19	20	21	22	23	6	19th - Webinar on Global trends and opportunities in UAV; 21st - Webinar on Compressible flow in aerodynamics; 23rd - Webinar onr on FEA in Aerospace industry; 21,22,23 - III Internal Test
16	MAY	25	26	27	28	29	30	5	25 - Ramzan; 26,27,28 - Lab Internal Test; 29th - Webinar on Post Covid-19 challengers for aerospace engineer; 30th - Webinar on Preparation for competitive exam
17	JUN	1	2	3	4	5	6	1	1st - Webinar on Emerging Global trends in space system
Total Number of working Days								83	
Last working day of Even semester : 1/06/2020									
UG-Practical Examinations : 3/06/2020 to 13/06/2020									
UG-Theory Examinations : 15/06/2020 to 20/07/2020									
Comencement of ODD SEM : 27/7/2020									

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Calender of Events for ODD semester (2019-2020).

From 01/08/2019 To 29 /11/2019

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG				1	2	3	2	3 - First Saturday(H)
2	AUG	5	6	7	8	9	10	6	
3	AUG	12	13	14	15	16	17	3	12-Bakrid (H); 17 - Third Saturday(H) 15- Independence Day(H) ;
4	AUG	19	20	21	22	23	24	6	
5	AUG	26	27	28	29	30	31	6	31st - Industrial Visit
6	SEP	2	3	4	5	6	7	5	2- Ganesh Chaturthi (H) ; 4,5,6 - I Internal Test
7	SEP	9	10	11	12	13	14	6	10 - Muharam (H)
8	SEP	16	17	18	19	20	21	5	20th -Seminar on Oppurtunities In Technical Publications; 21-Third Saturday (H)
9	SEP	23	24	25	26	27	28	5	28-Mahalaya Amavasi(H)
10	SEP-OCT	30	1	2	3	4	5	4	2- Gandhi Jayanthi (H); 5- First Saturday(H)
11	OCT	7	8	9	10	11	12	4	7,8 :- Ayutha Pooja (H), 10th - Seminar on Gate Aerospace-2020
12	OCT	14	15	16	17	18	19	6	17th - Kalams' Day 2019 (Festival)
13	OCT	21	22	23	24	25	26	6	24,25,26 - II Internal Test
14	OCT-NOV	28	29	30	31	1	2	3	29- Balipadyami; 1- Rajyotsava Day; 2 - First Saturday
15	NOV	4	5	6	7	8	9	6	8th - Seminar on Growing Oppurtunities In Uav
16	NOV	11	12	13	14	15	16	4	14th - Aerospace Skill Development program; 15- Kanakadasa Jayanthi ; 16 - Third Saturday
17	NOV	18	19	20	21	22	23	6	
18	NOV	25	26	27	28	29	30	6	27,28,29 - III Internal Test
Total Number of working Days								89	
Last working day of Odd semester : 30/11/2019									
UG-Practical Examinations : 03/12/2019-13/12/2019									
UG-Theory Examinations : 6/12/2019-7/2/2020									
Comencement of Even SEM :10/2/2020									



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ACS COLLEGE OF ENGINEERING

DEPARTMENT OF AERONAUTICAL ENGINEERING

Calendar of Events for EVEN semester (2018-19)

From 01/02/2019 To 23 /05/2019

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB					1	2	1	2-First Saturday (H)
2	FEB	4	5	6	7	8	9	6	
3	FEB	11	12	13	14	15	16	5	16 - Third Saturday (H)
4	FEB	18	19	20	21	22	23	5	19-Guru Ravidasa Jayanti (H)
5	FEB-MAR	25	26	27	28	1	2	5	2-First Saturday (H)
6	MAR	4	5	6	7	8	9	5	5th - Seminar on Opportunities and Innovations in aviation, 4-Mahashivarathri (H)
7	MAR	11	12	13	14	15	16	5	11,12,13 - I Internal Test ; 16 - Third Saturday(H); 16th - CAD & CAE software
8	MAR	18	19	20	21	22	23	6	19th - Seminar on Modern Software's in aerospace industry; 22,23 - Sports Day
9	MAR	25	26	27	28	29	30	6	30th - Industrial Visit
10	APR	1	2	3	4	5	6	5	6- First Saturday (H)
11	APR	8	9	10	11	12	13	6	10,11,12,13- II Internal Test
12	APR	15	16	17	18	19	20	3	15,16 - Cultural Day ; 17 - Mahaveer Jayanthi(h) 19- Good Friday(H) 20 - Third Saturday(H)
13	APR	22	23	24	25	26	27	6	
14	APR-MAY	29	30	1	2	3	4	4	1-May Day(H); 4- First Saturday(H)
15	MAY	6	7	8	9	10	11	5	7- Basava Jayanthi(H);
16	MAY	13	14	15	16	17	18	5	15,16,17 - III Internal Test ; 18 -Third Saturday(h)
17	MAY	20	21	22	23	24	25	4	
Total Number of working Days								82	
Last working day of Even semester : 23/05/2019									
UG-Practical Examinations : 27/05/2019									
UG-Theory Examinations : 10/06/2019 to 16/07/2019									
Comencement of ODD SEM : 22/07/2019									


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Calender of Events for Odd semester (2018-19)

From 1/08/2018 To 30/11/2018

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG			1	2	3	4	3	4-First Saturday(h)
2	AUG	6	7	8	9	10	11	6	6th - Seminar on 3D printing; 7th Satellite Operations; 8th - Seminar on Applications of CFD; 11th - Aero modelling
3	AUG	13	14	15	16	17	18	4	15- Independence Day(h) ; 18 - Third Saturday(h)
4	AUG	20	21	22	23	24	25	5	22- Bakrid(h)
5	AUG-SEP	27	28	29	31	31	1	5	31-Graduation Day ; 1 - First Saturday (h)
6	SEP	3	4	5	6	7	8	6	8- I Internal Test
7	SEP	10	11	12	13	14	15	4	10,11,12- I Internal Test ; 13 - Ganesh Chaturthi (H); 15-Third Saturday(H)
8	SEP	17	18	19	20	21	22	5	18th - Seminar on Opportunities in Airline and airport Operations, 21-Muharam (H)
9	SEP	24	25	26	27	28	29	6	29th - Industrial Visit
10	OCT	1	2	3	4	5	6	4	2 - Gandhi Jayanthi (H); 5th - Pilot training program 6 - First Saturday(h)
11	OCT	8	9	10	11	12	13	5	8- Mahalaya Amavasya(H)
12	OCT	15	16	17	18	19	20	3	15 - Kalam 87 (Festival); 18,19 - Ayudha Pooja(H); 20 - Third Saturday(H)
13	OCT	22	23	24	25	26	27	5	24- Valmiki Jayanthi (H); 25,26,27- II Internal Test
14	OCT-NOV	29	30	31	1	2	3	4	30th - Seminar on Cube Satellite; 1-Rajyotsava Day (H); 3 - First Saturday (H)
15	NOV	5	6	7	8	9	10	4	6- Naraka Chaturthi(H) ; 8 - Balipadyami(H)
16	NOV	12	13	14	15	16	17	5	17- Third Saturday (H)
17	NOV	19	20	21	22	23	24	5	21- ID Meelad (H)
18	NOV	26	27	28	29	30		4	26 - Kanakadasa Jayanthi (H); 27,28,29 - III Internal Test
Total Number of working Days								83	
Last working day of Odd semester : 30/11/2018									
UG-Practical Examinations : 3/12/2018 to 14/12/2018									
UG-Theory Examinations : 17/12/2018 to 18/12/2018									
Comencement of Even SEM :1/2/2019									


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Calender of Events for Even semester (2017-18)

From 05/02/2018 To 26 /05/2018

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB	5	6	7	8	9	10	5	10 - Second Saturday(H)
2	FEB	12	13	14	15	16	17	5	13-Mahasivarathri (H)
3	FEB	19	20	21	22	23	24	6	24th - Industrial Visit
4	FEB-MAR	26	27	28	1	2	3	5	3- First Saturday (H)
5	MAR	5	6	7	8	9	10	6	8- Womens Day
6	MAR	12	13	14	15	16	17	5	17-Third Saturday(H)
7	MAR	19	20	21	22	23	24	6	19,20,21 - I Internal Test
8	MAR	26	27	28	29	30	31	3	29-Mahaveer Jayanti (H); 30 - Good Friday(H) ; 31 - Link Holiday
9	APR	2	3	4	5	6	7	6	5,6,7 - Sports Day
10	APR	9	10	11	12	13	14	5	14 - Ambedkar Jayanthi(H)
11	APR	16	17	18	19	20	21	4	18 - Basava Jayanthi (H)
12	APR	23	24	25	26	27	28	6	26,27 - Cultural Day
13	APR-MAY	30	1	2	3	4	5	5	1- May Day (H) 2,3,4 - II Internal Test
14	MAY	7	8	9	10	11	12	5	12-Karnataka Election
15	MAY	14	15	16	17	18	19	5	19 - Third Saturday (H)
16	MAY	21	22	23	24	25	26	6	21,22,23 - III Internal Test
17	MAY	28	29	30	31				
Total Number of working Days								83	
Last working day of Odd semester : 26/05/2021									
UG-Practical Examinations : 28/05/2018 to 7/06/2018									
UG-Theory Examinations : 11/06/2018 to 14/06/2018									
Comencement of ODD SEM :1/08/2018									


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Calendar of Events for Odd semesters(2017-18)

From 07/08/2017 To 25 /11/2017

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG	7	8	9	10	11	12	6	
2	AUG	14	15	16	17	18	19	4	15 - Independence Day / ALUMINI DAY 18th - Seminar on 6Sigma concepts; 19-Third Saturday (H)
3	AUG	21	22	23	24	25	26	5	25 - Ganesh Chaturthi(H)
4	AUG-SEP	28	29	30	31	1	2	5	2 - Bakrid(H)
5	SEP	4	5	6	7	8	9	6	5- Graduation Day
6	SEP	11	12	13	14	15	16	5	13,14,15- I Internal Test 16- Third Saturday(H)
7	SEP	18	19	20	21	22	23	5	19- Mahalaya Amavasi
8	SEP	25	26	27	28	29	30	4	25th - Seminar on Career opportunities in Aerospace, Aviation and Defence, 29- Durga ashtami(H) ; 30 - Vijayadasami(H)
9	OCT	2	3	4	5	6	7	3	2- Gandhi Jayanthi (H); 5 - Valmiki Jayanthi (H) ; 7 - First Saturday(H)
10	OCT	9	10	11	12	13	14	6	14th - Industrial Visit
11	OCT	16	17	18	19	20	21	3	18-Naraka Chaturthi (H) , 20 -Vikramsavath New Year (H); 21 - Third Saturday
12	OCT	23	24	25	26	27	28	6	24th - Seminar on Career opportunities in Higher Education's in Aerospace fields,; 28- II Internal Test
13	OCT-NOV	30	31	1	2	3	4	4	30,31 - II Internal Test ; 1- Kannada Rajathsova (H) ; 4 - First Saturday(H)
14	NOV	6	7	8	9	10	11	5	10th - Seminar on Recent Advancements in Aircrafts & Simulators; 11th - Seminar on Advancements in Helicopter Design; 6 - Kanakadasa Javanthi(H)
15	NOV	13	14	15	16	17	18	5	18-Third Saturday (H)
16	NOV	20	21	22	23	24	25	6	20,21,22 - III Internal Test
17	NOV	27	28	29	30				

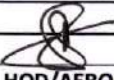
Total Number of working Days 78

Last working day of Odd semester : 25/11/2017

UG-Practical Examinations : 29/11/2017 to 8/12/2017

UG-Theory Examinations : 11/12/2017 to 10/1/2017

Comencement of Even SEM :1/2/2018


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Calender of Events for Even semesters(2016-17)

From 13/02/2017 To 2/06/2017

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	FEB	13	14	15	16	17	18	6	
2	FEB	20	21	22	23	24	25	5	24- Mahashivrathri (H)
3	FEB-MAR	27	28	1	2	3	4	6	
4	MAR	6	7	8	9	10	11	5	11- Second Saturday (H)
5	MAR	13	14	15	16	17	18	5	13 - Holi (H) 16,17,18 - I Internal Test
6	MAR	20	21	22	23	24	25	6	24,25 - Sports Day
7	MAR-APR	27	28	29	30	31	1	5	29- Ugadi (H)
8	APR	3	4	5	6	7	8	5	8- Second Saturday
9	APR	10	11	12	13	14	15	5	14 - Ambedkar Jayanthi (H)
10	APR	17	18	19	20	21	22	6	21st - Industrial Visit
11	APR	24	25	26	27	28	29	5	24,25,26 - II Internal Test 29 - Basava Jayanthi
12	APR-MAY	1	2	3	4	5	6	5	1- May Day
13	MAY	8	9	10	11	12	13	5	
14	MAY	15	16	17	18	19	20	6	
15	MAY	22	23	24	25	26	27	6	22,23,24- Lab Internals 26,27- III Internal Test
16	MAY-JUN	29	30	31	1	2	3	6	29,30,31- III Internal Test
Total Number of working Days								87	
Last working day of Even semester : 2/06/17									
UG-Practical Examinations : 17/7/2017 to 26/7/2017									
UG-Theory Examinations : 16/06/2017 to 15/07/2016									
Comencement of ODD SEM :7/8/2017									


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Calender of Events for Odd semesters(2016-17)

From 01/08/2016 To 26 /11/2016

Week No	Month	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
1	AUG	1	2	3	4	5	6	6	
2	AUG	8	9	10	11	12	13	5	13-Second Saturday
3	AUG	15	16	17	18	19	20	5	15 - Independence Day 20th - Seminar on Recent Advancements in Manufacturing Technologies in Aerospace Industries
4	AUG	22	23	24	25	26	27	6	
5	AUG-SEP	29	30	31	1	2	3	6	1st - Seminar on Recent Developments in Design software and 3D developments in design software
6	SEP	5	6	7	8	9	10	4	5 - Ganesh Chaturthi 10 - Second Saturday
7	SEP	12	13	14	15	16	17	5	12 - Bakrid, 14 to 16 - Internal Test I
8	SEP	19	20	21	22	23	24	6	23rd - Seminar on Career advancement in Aerospace Technical Publications
9	SEP-OCT	26	27	28	29	30	1	5	30-Mahalaya Amavas
10	OCT	3	4	5	6	7	8	6	8th - Industrial Visit
11	OCT	10	11	12	13	14	15	2	10 - Ayutha Pooja ; 11-Vijayadasami ; 12-Moharam ; 15 - Valmiki Jayanthi; 13,14,17 - Internal Test II
12	OCT	17	18	19	20	21	22	6	19th - Seminar on Design of Commercial Satellites – Cubesat
13	OCT	24	25	26	27	28	29	5	29- Naraka Chaturthi
14	OCT-NOV	31	1	2	3	4	5	4	31- Bali Padyami ; 1-Rajyotsava
15	NOV	7	8	9	10	11	12	5	12- Second Saturday
16	NOV	14	15	16	17	18	19	5	17- Kanakadasa Jayanthi
17	NOV	21	22	23	24	25	26	6	24,25,26 - Internal Test III
Total Number of working Days								87	
Last working day of Odd semester : 26/11/2016									
UG-Practical Examinations : 1/12/2016 - 10/12/2016									
UG-Theory Examinations : 14/12/2016 - 13/01/2017									
Comencement of Even SEM : 2/2/2017									


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IV Semester

W.E.F 09/02/2015

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45-12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	10CV45	10CV41	BREAK	10CV43(RK)	10CV42	LUNCH	10CVL47 (Batch 1)/10CVL48(Batch 2)		
Tuesday	10CV41	10CV45		10CV44(HOD)	10CV42		10CVL47 (Batch 2)/10CVL48(Batch 1)		
Wednesday	10CV45	10CV41		10CV43(RK)	10CV46		10CV46	10CV43	
Thursday	10CV44	10CV43(RK)		10CV41	10CV44(HOD)		10CV44	10CV45	
Friday	10CV44	10CV43		10CV42	10CV45		10CV41		10CV42
Saturday	10CV43	10CV44		10CV41	10CV42				

Sub Code	Name of the Subject	Name of the Faculty
10MAT41	Engineering mathematics-IV	Mr. Ramakrishna D T
10CV42	Concrete Technology	Mrs. Shashi Kiran C R
10CV43	Structural analysis-I	Mrs.Kalaignan
10CV44	Surveying-II	Mr. Venkatesh R
10CV45	Hydraulic & hydraulic machines	Mrs. Reena K
10CV46	Building planning & drawing	Mr. Gangadhar N
10CVL-47	Surveying Practice-II lab	Mr. Venkatesh R/ Mr. Shashi Kiran C R
10CVL-48	Applied engineering geology lab	Prof. Ganganna


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VIII Semester**

W.E.F 09/02/2015

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday	10CV843	10CV82	BREAK	10CV843	10CV81	LUNCH	10CV82	10CV835		
Tuesday	10CV81	10CV843		10CV81	10CV835		10CV82			
Wednesday	10CV835	10CV843		10CV81	10CV835					
Thursday	SEMINAR			SEMINAR			PROJECT WORK			
Friday	PROJECT WORK			PROJECT WORK			SEMINAR			
Saturday	PROJECT WORK			PROJECT WORK						

Sub Code	Name of the Subject	Name of the Faculty
10CV81	Advanced concrete technology	Mrs. Laxmi G
10CV82	Design & drawing of Steel structures	Ms. Sugandha N
10CV835	Industrial Waste water Treatment(Group D)	Mr. Shashi Kiran C R
10CV843	Urban Transport Planning (Group E)	Mr. Venkatesh R
10CV85	Project work	
10CV86	seminar	


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DEPARTMENT OF CIVIL ENGINEERING**

VI Semester

W.E.F 09/02/2015

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	10CV61	10CV64	BREAK	10CV61	10CV666		10CV62		
Tuesday	10CV61	10CV62		10CV62	10CV63		10CV65		
Wednesday	10CV64	10CV666		10CV64	10CV63		10CVL67/68		
Thursday	10CV61	10CV666		10CV63	10CV64		10CVL67/68		
Friday	10CV666	10CV65		10CV63	10CV61		10CV62		
Saturday	10CV63	10CV61		10CV65					

Sub Code	Name of the Subject	Name of the Faculty
10CV61	Environmental Engineering I	Mr. Shashi Kiran C R
10CV 62	Design and drawing of RCC Structural Elements	Mrs. Umadevi R
10CV 63	Transportation Engineering II	Mr. Venkatesh R
10CV 64	Geotechnical Engg-II	Mrs. Kavitha
10CV 65	Hydraulics Structure and Irrigation Design & Drawing	Mrs. Reena K
10CV 666	Rural water supply and sanitation	Mr. Kalaignan
10CVL 67	Geotechnical Engg lab	Mrs. Kavitha
10CVL 68	Extensive survey viva voce	Mr. Venkatesh R/ Mr. Shashi Kiran C R


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DEPARTMENT OF CIVIL ENGINEERING**

W.E.F 09/02/2015

II Semester(M.Tech)

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	14CSE22	14CSE23		14CSE24	14CSE253	LUNCH			
Tuesday	14CSE21	14CSE23		14CSE22	14CSE253			14CSE26	
Wednesday	14CSE24	14CSE21		14CSE21	14CSE23				
Thursday	14CSE22	14CSE253		14CSE24	14CSE23				
Friday	14CSE253	14CSE24		14CSE22	14CSE21				
Saturday									

M.Tech IInd Sem		
Subject Code	Subject	Faculty
14CSE21	Design of Plates & Shells	Ms. Sugandha N
14CSE22	Earthquake Resistant Structures	Mr. Gangadhar N
14CSE23	Finite Element Method of Analysis	Mrs. Manjula
14CSE24	Design Concept of Substructures	Mrs. Umadevi
14CSE253	Design of Masonry Structures	Ms. Kavitha
14CSE26	Structural Engg. Lab II	Mr. Gangadhar


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III SEMESTER - CLASS TIME TABLE - 2013- 2014-ODD SEM-W.E.F. 06.08.2013

ROOM NO: 305

CLASS TEACHER:

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 12.45 PM	12.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM
-- Day									
MON	15MAT31	15CV32	TEA BREAK	15CV33	15CV32	Lunch Break	15CV34	15CV35	Dip Maths
TUE	15CV33	10CV32		15CV35			15CV34	15MAT31	Dip Maths
WED	15CV34	15CV33		15CV32	15MAT31		15CV36	15CV35	
THU	15CV33	15CVL37/38		15CVL37/38			15CV33	15MAT31	
FRI	15CV34	15CVL37/38		15CVL37/38			15CV36		
SAT	15CV33	15CV36		10MAT31	15CV32				
Sub Code	Name of the Subject					Name of the Faculty			
15MAT31	Engineering Mathematics-III					Mr. Raghavendra			
15CV32	Building Materials & Construction Technology					Mr. Shashi Kiran C R			
15CV33	Strength of Materials					Dr. Hanume Gowda			
15CV34	Surveying I					Mr. Venkatesh R			
15CV35	Fluid Mechanics					Ms. Reena K			
15CV36	Applied Engineering Geology					Mr. Ganganna			
15CVL37	Basic Material Testing Laboratory					Ms. Umadevi R			
15CVL38	Surveying Practice I					Mr. Venkatesh R/Mr. Shashi Kiran C R			

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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DEPARTMENT OF CIVIL ENGINEERING**V SEMESTER - CLASS TIME TABLE - 2013 - 2014-ODD SEM-W.E.F. 06.08.2013****ROOM NO: 306****CLASS TEACHER:**

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 12.45 PM	12.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM
Day									
MON	10CV53	10CV56	TEA BREAK	10CV52	10CV54	Lunch Break	10CV52	10CV54	10AL51
TUE	10CV54	10CV56		10CV52	10CV55		10CV53	10AL51	
WED	10CV52	10CV53		10CV55	10CV56		10CVL57/58		
THU	10AL51	10CV55		10CV53	10CV56		10CVL57/58		
FRI	10CV56	10CV55		10CV54	10AL51		10CV52		
SAT	10CV56	10CV54		10AL51	10CV55				
Sub Code	Name of the Subject					Name of the Faculty			
10AL51	Management & Entrepreneurship					Mr. Shiju Easo John			
10CV52	Design of RCC Structural Elements					Ms. Umadevi R			
10CV53	Structural Analysis II					Mr. Rajkumar Vade			
10CV54	Geotechnical Engineering I					Mrs. Kavitha S			
10CV55	Hydrology and Irrigation Engineering					Mr. K N S Reddy			
10CV56	Transportation Engineering I					Mrs. Vindhyashree M P			
10CVL57	hydraulics & hydraulic machinery lab					Ms. Reena K/Mr. Shiju			
10CVL58	computer aided design lab					Mr. Rajkumar Vade			

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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DEPARTMENT OF CIVIL ENGINEERING**VII SEMESTER - CLASS TIME TABLE - 2013 - 2014-ODD SEM-W.E.F. 06.08.2013****ROOM NO: 307****CLASS TEACHER:**

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 12.45 PM	12.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM	
Day										
MON	10CV73	10CV72	TEABREAK	10CV757	10CV74	LUNCH BREAK	10CVL77/78			
TUE	10CV71	10CV74		10CV765	10CV72		10CV73			
WED	10CV757	10CV71		10CV765	10CV74		10CVL77/78			
THU	10CV71	10CV757		10CV73			10CV72	10CV71		
FRI	10CV765	10CV72		10CV71	10CV765		10CV74	10CV757		
SAT	10CV74	10CV72		10CV765	10CV73					
Sub Code	Name of the Subject				Name of the Faculty					
10CV71	Environmental Engineering II				Mr. Shashi Kiran C R					
10CV72	Desigh of steel structures				Dr. Hanume Gowda					
10CV73	Estimation and valuation				Mr. Venkatesh R					
10CV74	Design of prestressed concrete structures				Ms. Savitha					
10CV757	Solid waste management				Mr. Shashi Kiran C R					
10CV765	Air pollution and control				Mrs. Panindra Pallavi					
10CVL77	Environmental Engineering Lab				Mr. Shiju Easo John/Mrs.Panindra Pallavi					
10CVL78	concrete and highway material testing lab				Mrs. Vindhyashree M P					

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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M TECH II SEMESTER - CLASS TIME TABLE - 2013 - 2014-ODD SEM-W.E.F. 06.08.2013

ROOM NO: 307

CLASS TEACHER:

Time	08.30 AM	09.30 AM	10.30 AM	10.45 AM	11.45 AM	14.45 PM	01.30 PM	02.20 PM	03.10 PM
Day	to 09.30 AM	to 10.30 AM	to 10.45 AM	to 11.45 AM	to 14.45 PM	to 01.30 PM	to 02.20 PM	to 03.10 PM	to 4:00 PM
MON	14CSE11		TEABREAK	14CSE12		LUNCH BREAK			
TUE	14CSE11	14CSE13		14CSE14					
WED	14CSE14	14CSE13		14CSE153					
THU	14CSE11	14CSE13		14CSE153			14CSE16		
FRI	14CSE14	14CSE12		14CSE12	14CSE13				
SAT									
Sub Code	Name of the Subject					Name of the Faculty		Signature	
14CSE11	Computational Structural Mechanics								
14CSE12	Advanced RCC Design								
14CSE13	Mechanics of Deformable Bodies								
14CSE14	Structural Dynamics								
14CSE15	Repair & Rehabilitation of Structures								
14CSE16	Structural Engineering Lab I								

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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DEPARTMENT OF CIVIL ENGINEERING

IV Semester

W.E.F 01/02/2014

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45-12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	10CV45	10CV41	BREAK	10CV43(RK)	10CV42	LUNCH	10CVL47 (Batch 1)/10CVL48(Batch 2)		
Tuesday	10CV41	10CV45		10CV44	10CV42		10CVL47 (Batch 2)/10CVL48(Batch 1)		
Wednesday	10CV45	10CV41		10CV43(RK)	10CV46		10CV46		
Thursday	10CV44	10CV43(RK)		10CV41	10CV44(HOD)		10CV46		
Friday	10CV44	10CV43		10CV42	10CV45		10CV43		
Saturday	10CV43	10CV44		10CV41	10CV42				

Sub Code	Name of the Subject	Name of the Faculty
10MAT41	Engineering mathematics-IV	Mr. Ramakrishna D T
10CV42	Concrete Technology	Mrs. Umadevi R
10CV43	Structural analysis-I	Ms. Reena K
10CV44	Surveying-II	Mr. Venkatesh R
10CV45	Hydraulic & hydraulic machines	Mr. K N S Reddy
10CV46	Building planning & drawing	Mr. Gangadhar N
10CVL-47	Surveying Practice-II lab	Mr. Venkatesh R/Mr.Shashi Kiran C R
10CVL-48	Applied engineering geology lab	Mr. Ganganna

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DEPARTMENT OF CIVIL ENGINEERING
VIII Semester**

W.E.F 0102/2014

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday	10CV843	10CV82	BREAK	10CV843	10CV81	LUNCH	10CV82	10CV835		
Tuesday	10CV81	10CV843		10CV81	10CV835		10CV82			
Wednesday	10CV835	10CV843		10CV81	10CV835					
Thursday	SEMINAR			SEMINAR			PROJECT WORK			
Friday	PROJECT WORK			PROJECT WORK			SEMINAR			
Saturday	PROJECT WORK			PROJECT WORK						

Sub Code	Name of the Subject	Name of the Faculty
10CV81	Advanced concrete technology	Mrs. Laxmi G
10CV82	Design & drawing of Steel structures	Ms. Sugandha N
10CV835	Industrial Waste water Treatment(Group D)	Mr. Shashi Kiran C R
10CV843	Urban Transport Planning (Group E)	Mr. Venkatesh R
10CV85	Project work	
10CV86	seminar	


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DEPARTMENT OF CIVIL ENGINEERING**

VI Semester

W.E.F 09/02/2014

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00		
Monday	10CV61	10CV64	BREAK	10CV61	10CV666		10CV62		10CV3		
Tuesday	10CV61	10CV62		10CV62			10CV63	10CV64		10CV666	
Wednesday	10CV64	10CV666		10CV64			10CV63	10CVL67/68			
Thursday	10CV61	10CV666		10CV63			10CV64	10CVL67/68			
Friday	10CV666	10CV65		10CV63			10CV61	10CV62			
Saturday	10CV65			10CV65							

Sub Code	Name of the Subject	Name of the Faculty
10CV61	Environmental Engineering I	Mr. Shashi Kiran C R
10CV 62	Design and drawing of RCC Structural Elements	Mrs. Umadevi R
10CV 63	Transportation Engineering II	Mr. Vindhyashree M P
10CV 64	Geotechnical Engg-II	Mrs. Kavitha S
10CV 65	Hydraulics Structure and Irrigation Design & Drawing	Mrs. Reena K
10CV 666	Rural water supply and sanitation	Dr. Shashi Kiran C R
10CVL 67	Geotechnical Engg lab	Ms. Umadevi/Mrs. Kavitha
10CVL 68	Extensive survey viva voce	Mr. Venkatesh R/Mr. Shashi Kiran C R


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W.E.F 09/02/2015

II Semester(M.Tech)

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	14CSE22	14CSE23		14CSE24	14CSE253	LUNCH			
Tuesday	14CSE21	14CSE23		14CSE22	14CSE253		14CSE26		
Wednesday	14CSE24	14CSE21		14CSE21	14CSE23				
Thursday	14CSE22	14CSE253		14CSE24	14CSE23				
Friday	14CSE253	14CSE24		14CSE22	14CSE21				
Saturday									

M.Tech IInd Sem		
Subject Code	Subject	Faculty
14CSE21	Design of Plates & Shells	Ms. Sugandha N
14CSE22	Earthquake Resistant Structures	Mr. Gangadhar N
14CSE23	Finite Element Method of Analysis	Mrs. Manjula
14CSE24	Design Concept of Substructures	Mrs. Umadevi
14CSE253	Design of Masonry Structures	Ms. Kavitha
14CSE26	Structural Engg. Lab II	Mr. Gangadhar

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DEPARTMENT OF CIVIL ENGINEERING**III SEMESTER - CLASS TIME TABLE - 2016 - 2017-ODD SEM-W.E.F. 01.08.2016****ROOM NO: 305****CLASS TEACHER: Dr. Kumar Raju B.C**

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 12.45 PM	12.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM
MON	15MAT31	15CV34	TEA BREAK	15CV32	15CV36	Lunch Break	15CVL37/38		
TUE	15CV33	15CV32		15CV35			15CV36	Dip Maths	
WED	15CV34	15CV33		15CV32	15MAT31		15CV34	15CV35	
THU	15CV36	15CVL37/38		15CVL37/38			15CV33	15MAT31	15CV36
FRI	15CV33	15CV34		15CV32	15CV34		15CV36	15CV33	15MAT31
SAT	15CV34	15CV36		15CV31	15CV33				
Sub Code	Name of the Subject					Name of the Faculty			
15MAT31	Engineering Mathematics-III					Prof. Deepa			
15CV32	Strength of Materials					Dr. V. Seenappa			
15CV33	Mechanics of Fluid					Dr. Kumar Raju B. C.			
15CV34	Basic Surveying					Prof. Vishwanath G			
15CV35	Applied Engineering Geology					Prof. Ganganna			
15CV36	Building Materials and Construction					Prof Pranathi Reddy B			
15CVL37	Building Materials Laboratory					Prof.Umadevi R / Prof Shruthi S K			
15CVL38	Basic Surveying Practice					Prof. Vishwanath G / Prof. Pranathi Reddy B			

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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DEPARTMENT OF CIVIL ENGINEERING

V SEMESTER - CLASS TIME TABLE - 2016 - 2017-ODD SEM-W.E.F. 01.08.2016

ROOM NO: 306

CLASS TEACHER: Prof. Vishwanath G

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45	10.45 AM to 11.45	11.45 AM to 12.45 PM	12.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM
MON	10CV53	10CV52	TEA BREAK	10CV55	10CV54	Lunch Break	10CV53	10CV55	10CV54
TUE	10CV56	10AL51		10CV52	10CV53		10CV56	10CV55	10CV52
WED	10CV52	10CV53		10CV56	10AL51		10CVL57/58		
THU	10AL51	10CV55		10CV53	10CV54		10CVL57/58		
FRI	10CV54	10CV55		10CV54	10AL51		10CV56	10CV52	10CV53
SAT	10CV52	10CV54		10AL51	10CV56				
Sub Code	Name of the Subject				Name of the Faculty				
10AL51	Management & Entrepreneurship				Prof. Tanuja M R				
10CV52	Design of RCC Structural Elements				Prof Umadevi R				
10CV53	Structural Analysis II				Prof Tanuja M R				
10CV54	Geotechnical Engineering I				Prof. B. Nageswara Gupta				
10CV55	Hydrology and Irrigation Engineering				Dr. D L Venkatesh Babu				
10CV56	Transportation Engineering I				Prof Vishwanatha G				
10CVL57	Hydraulics & hydraulic machinery lab				Prof Kumar Raju B.C				
					Prof. Amurth Karjigi				
10CVL58	computer aided design lab				Prof. Kavitha S				

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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VII SEMESTER - CLASS TIME TABLE - 2016 - 2017-ODD SEM-W.E.F. 01.08.2016

ROOM NO: 307

CLASS TEACHER: Prof. Gayathri G

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 12.45 PM	12.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM
MON	10CV71	10CV757	TEABREAK	10CV72	10CV765	LUNCH BREAK	10CV72	10CV74	10CV71
TUE	10CV757	10CV71		10CV73	10CV73		10CVL77/78		
WED	10CV765	10CV74		10CV757	10CV72		10CVL77/78		
THU	10CV73	10CV765		10CV74	10CV757		10CV72	10CV71	10CV765
FRI	10CV765	10CV72		10CV74	10CV757		10CV73	10CV74	10CV757
SAT	10CV71	10CV72		10CV765	10CV73				
Sub Code	Name of the Subject					Name of the Faculty			
10CV71	Environmental Engineering II					Prof Shruthi S Kannur			
10CV72	Desigh of Steel Structures					Prof Arpritha. K			
10CV73	Estimation and valuation					Prof B. Nageswara Gupta			
10CV74	Design of prestressed concrete structures					Prof Laxmi G G			
10CV757	Solid waste management					Prof Gayathri G			
10CV765	Air pollution and control					Prof Gayathri G			
10CVL77	Environmental Engineering Lab					Prof Gayathri G			
10CVL78	Concrete and highway material testing lab					Prof Tanuja M R/ Prof Laxmi G G			

Note: As per VTU regulation 85% of attendance is compulsory in each subject.


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I SEM(M.Tech) - CLASS TIME TABLE - 2016 - 2017-ODD SEM-W.E.F. 1.08.2016

ROOM NO: 307

CLASS TEACHER: Prof. Kavitha S

Time ----- Day	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 16.45 PM	16.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM	
MON	16CSE11	16CSE14	TEABREAK	16CSE12	16CSE14	LUNCH BREAK				
TUE	16CSE12	16CSE13		16CSE14	16CSE11					
WED	16CSE13	16CSE12		16CSE152						
THU	16CSE14	16CSE13		16CSE152						
FRI	16CSE12	16CSE11		16CSE11	16CSE13			16CSE16		
SAT										
Sub Code	Name of the Subject					Name of the Faculty				
16CSE11	Computational Structural Mechanics					Dr. R Balamurugan				
16CSE12	Advanced RCC Design					Prof. Kavitha S				
16CSE13	Mechanics of Deformable Bodies					Dr. Naveen Kumar. D. T				
16CSE14	Structural Dynamics					Prof. Laxmi G G				
16CSE152	Special Concrete					Er. Sunil R K				
16CSE16	Structural Engineering Lab I					Prof. Laxmi G G				

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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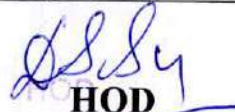
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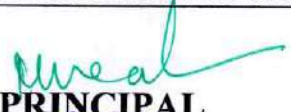
**ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
IV Semester**

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	15MAT41	←		→ 15CVL47 (Batch 1)/ 15CVL48(Batch 2)		LUNCH	15CV42	15CV44	15CV46
Tuesday	15CV45	15CV46		15CV42	15CV43		15CV46	15CV43	15MAT41
Wednesday	15CV44	←		→ 15CVL47 (Batch 2)/ 15CVL48(Batch 3)			15MAT41	15CV43	15CV44
Thursday	15CV43	15CV42	BREAK	15CV45	15CV46		15MAT41	15CV45	15CV44
Friday	15MAT41	←		→ 15CVL47 (Batch 3)/ 15CVL48(Batch 1)			15CV46	15CV45	15CV43
Saturday	15CV46	15CV42		Dip Maths/ SMP					

Sub Code	Name of the Subject	Name of the Faculty
15CV41	Mathematics-IV	Ms. Shruthi
15CV42	Analysis of Determinate Structures	Dr. Seenappa V. S
15CV43	Applied Hydraulics	Dr. Kumar Raju B C
15CV44	Concrete Technology	Mrs. Laxmi G
15CV45	Basic Geotechnical Engineering	Dr. Sanjeev G
15CV46	Advanced Surveying	Mr. Viswanath G
15CV47	Fluid Mechanics Lab	Dr. Kumar Raju B C/ Ms. B. Pranathi Reddy /Ms. Shruthi S Kannur
15CV48	Applied Engg. Geology Lab	Mr. Ganaganna
	Student Mentoring Program	Dr. Kumar Raju B C/ Ms. Pranathi Reddy B /Ms. Shruthi S Kannur/ Mrs. Umadevi R/ Mrs. Kavitha

Class Teacher- Dr. Kumar Raju B C


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DEPARTMENT OF CIVIL ENGINEERING
VI Semester

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	10CV64	10CV63	BREAK	10CV65		LUNCH	10CVL 67/10CVL 68		
Tuesday	10CV61	10CV62		10CV62	10CV666		10CVL 68/10CVL 67		
Wednesday	10CV64	10CV63		10CV63	10CV64		10CV 65 (D & D)		
Thursday	10CV63	10CV61		10CV666	10CV61		10CV 62 (D & D)		
Friday	10CV666	10CV64		10CV61	10CV666		10CV 62/65 (D & D)		
Saturday	10CV64	10CV61		10CV63	10CV666				

Sub Code	Name of the Subject	Name of the Faculty
10CV61	Environmental Engineering I	Ms. Shruthi S Kannur
10CV 62	Design and drawing of RCC Structural Elements	Ms. Pranathi Reddy B / Mrs. Umadevi R
10CV 63	Transportation Engineering II	Mr. Vishwanath G
10CV 64	Geotechnical Engg-II	Dr.Sanjeev G
10CV 65	Hydraulics Structure and Irrigation Design & Drawing	Dr. Kumar Raju B.C/ Mrs. Tanuja M R
10CV 666	Rural water supply and sanitation	Mrs. Gayathri G
10CVL 67	Geotechnical Engg lab	Dr. Sanjeev G
10CVL 68	Extensive survey viva voce	Mr. Viswanath G/ Mrs. Gayathri G / Mrs. Laxmi G/ Mrs. Tanuja M R

Class Teacher- Mr. Viswanath G


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VIII Semester

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	10CV81	10CV82	BREAK	10CV82	10CV847	LUNCH	10CV81	10CV835	10CV847
Tuesday	10CV847	10CV81		10CV81	10CV835		10CV82 (D&D)		
Wednesday	10CV835	10CV81		10CV847	10CV835		Technical Seminar		
Thursday	Project Work			Project Work			Project Work		
Friday	Project Work			Project Work			Project Work		
Saturday	Project Work			Project Work					

Sub Code	Name of the Subject	Name of the Faculty
10CV81	Advanced concrete technology	Dr. Venkatesh Babu D L ⁹
10CV82	Design & drawing of Steel structures	Mrs. Tanuja M R ¹⁰
10CV835	Industrial Waste water Treatment(Group D)	Ms. Shruthi S Kannur
10CV847	Environmental Impact Assessment	Mrs. Gayathri G
10CV85	Project work	Respective Guides
10CV86	Seminar	Respective Guides

Class Teacher- Tanuja M R


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II Semester M.Tech

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	16CSE21	16CSE23	BREAK	16CSE22		LUNCH			
Tuesday	16CSE21	16CSE21		16CSE23	16CSE24				
Wednesday	16CSE22	16CSE24		16CSE252					
Thursday	16CSE23	16CSE22		16CSE252					
Friday	16CSE24	16CSE23		16CSE24	16CSE21				
Saturday	Seminar			Seminar					

Subject Code	Subject	Faculty
16CSE21	Advanced Design Of Steel Structures	Dr. Naveen Kumar D T
16CSE22	Earthquake Resistant Structures	Ms. Pranathi Reddy B
16CSE23	Finite Element Method of Analysis	Mrs. Laxmi G
16CSE24	Design Concept of Substructures	Mrs. Tanuja M R
16CSE252	Repair and Rehabilitation of Structures	Mr. R K Sunil
16CSEL26	Structural Engineering Lab-2	Mrs. Kavitha / Ms. Pranathi Reddy

PG Co-ordinator- Dr. Naveen Kumar D T

Class Teacher- Mrs. Laxmi G


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DEPARTMENT OF CIVIL ENGINEERING**

IV Semester M.Tech

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	14CSE41	14CSE422	BREAK	14CSE41	Project Work	LUNCH	Project Work		
Tuesday	14CSE41			14CSE422			Project Work		
Wednesday	Project Work			Project Work			Project Work		
Thursday	Project Work			Project Work			Project Work		
Friday	Project Work			Project Work			Project Work		
Saturday	Project Work			Project Work			Project Work		

Subject Code	Subject	Faculty
14CSE41	Stability of Structures	Mrs. Kavitha S 13
14CSE422	Optimisation of Structures	Mrs. Umadevi R 14
14CSE43	Project	Respective Guides

PG Co-ordinator- Dr. Naveen Kumar D T

Class Teacher- Mr. Umadevi R

[Signature]
HOD

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ACS College of Engineering
Bangalore - 560 074.

[Signature]
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ACS COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING: CONSOLIDATED TIME TABLE(2016- 2017) EVEN SEM

Time/Day	SEM	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45-12:45	12:45-1:30	01:30-2:20	02:20-03:10	03:10-4:00	
Monday	4th	15MAT41	15CVL47/48						15CV42	15CV44	15CV46
	6th	10CV64	10CV63		10CV65			10CVL67/68			
	8th	10CV81	10CV82		10CV82	10CV847		10CV81	10CV835	10CV847	
	2nd [M tech]	16CSE21	16CSE23		16CSE22						
	4th [M tech]	14CSE41	14CSE422		14CSE41	14CSE43		14CSE43			
Tuesday	4th	15CV45	15CV46		15CV42	15CV43		15CV46	15CV43	15MAT41	
	6th	10CV61	10CV62		10CV62	10CV666		10CVL67/68			
	8th	10CV847	10CV81		10CV81	10CV835		10CV82			
	2nd [M tech]	16CSE21	16CSE21		16CSE23	16CSE24		16CSE26			
	4th [M tech]	14CSE41			14CSE422			14CSE43			
Wednesday	4th	15CV44	15CVL47/48						15MAT41	15CV43	15CV44
	6th	10CV64	10CV63		10CV63	10CV64		10CV65			
	8th	10CV835	10CV81		10CV847	10CV835		10CV86			
	2nd [M tech]	16CSE22	16CSE24		16CSE252						
	4th [M tech]	14CSE43			14CSE43			14CSE43			
Thursday	4th	15CV43	15CV42		15CV45	15CV46		15MAT41	15CV45	15CV44	
	6th	10CV63	10CV61		10CV666	10CV61		10CV62			
	8th	10CV85			10CV85			10CV85			
	2nd [M tech]	16CSE23	16CSE22		16CSE252						
	4th [M tech]	14CSE43			14CSE43			14CSE43			
Friday	4th	15MAT41	15CVL47/48						15CV46	15CV45	15CV43
	6th	10CV666	10CV64		10CV61	10CV666		10CV62/65			
	8th	10CV85			10CV85			10CV85			
	2nd [M tech]	16CSE24	16CSE23		16CSE24	16CSE21					
	4th [M tech]	14CSE43			14CSE43			14CSE43			
Saturday	4th	15CV46	15CV42		DIP MATHS						
	6th	10CV64	10CV61		10CV63	10CV666					
	8th	10CV85			10CV85						
	2nd [M tech]	Seminar			Seminar						
	4th [M tech]	14CSE43			14CSE43						

Mrs. UMADEVI R

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday	15CV23	14CSE422	BREAK		14CSE422	LUNCH				
Tuesday		15CV23		14CSE422						
Wednesday				15CV23					15CV23	
Thursday								← 10CV62 →		
Friday				15CV23						
Saturday				15CV23						

HOD

Dept. of Civil Engg.
 College of Engineering
 Mrs. Kavitha V

Mural
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Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday	14CSE41	15CV23	BREAK	14CSE41		LUNCH			15CV23	
Tuesday	← 14CSE41 →							← 16CSEL26 →		
Wednesday							15CV23			
Thursday	15CV23								15CV23	
Friday								15CV23		
Saturday										

HOD

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 College of Engineering

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Mr. Vishwanath G

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday		10CV63	BREAK			LUNCH	← 10CVL68 (B1) Batch →		15CV46	
Tuesday		15CV46					15CV46	← 10CVL68 (B2) Batch →		
Wednesday		10CV63		10CV63						
Thursday	10CV63				15CV46					
Friday								15CV46		
Saturday	15CV46				10CV63					

HOD



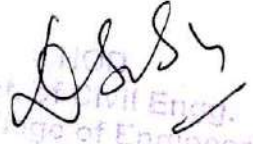
PRINCIPAL



Mrs. Gayathri G

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday			BREAK		10CV847	LUNCH	← 10CVL68 (B1) Batch →		10CV847	
Tuesday	10CV847				10CV666			← 10CVL68 (B2) Batch →		
Wednesday				10CV847						
Thursday				10CV666						
Friday	10CV666						10CV666		15CV28	
Saturday				15CV28	10CV666					

HOD



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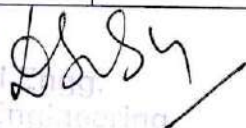
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Bangalore - 560 074

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Mrs. Tanuja M R

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday			BREAK	10CV82		LUNCH	10CVL68 (B1) Batch			
Tuesday					16CSE24		10CV82(D&D)			
Wednesday		16CSE24					10CV65(D&D)			
Thursday										
Friday	16CSE24				16CSE24					
Saturday										

HOD



PRINCIPAL

Mr. Ganganna

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday			BREAK	15CVL48 (Batch 2)		LUNCH				
Tuesday										
Wednesday					15CVL48 (Batch 3)					
Thursday										
Friday					15CVL48 (Batch 1)					
Saturday										

HOD



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**ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING**

IV Semester

W.E.F 01/02/2016

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45-12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	10CV45	10CV41	BREAK	10CV43(RK)	10CV42	LUNCH	10CVL47 (Batch 1)/10CVL48(Batch 2)		
Tuesday	10CV41	10CV45		10CV44(HOD)	10CV42		10CVL47 (Batch 2)/10CVL48(Batch 1)		
Wednesday	10CV42	10CV41		10CV43(RK)	10CV46		10CV46		
Thursday	10CV44	10CV43(RK)		10CV41	10CV44(HOD)		10CV46		
Friday	10CV44	10CV43		10CV45			10CV41	10CV43	10CV44
Saturday	10CV43	10CV44		10CV41	10CV42				

Sub Code	Name of the Subject	Name of the Faculty
10MAT41	Engineering mathematics-IV	Mr. Ramakrishna D T
10CV42	Concrete Technology	Mr. Shashi Kiran C R
10CV43	Structural analysis-I	Mrs.Sugandha N
10CV44	Surveying-II	Mr. Vishwanath G
10CV45	Hydraulic & hydraulic machines	Mr.Shloksingh
10CV46	Building planning & drawing	Mrs. Tanuja M R
10CVL-47	Surveying Practice-II lab	Mr. Vishwanath G/ Mr. Shashi Kiran C R
10CVL-48	Applied engineering geology lab	Prof. Ganganna

J. K. Srinivas
HOD

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K. Srinivas
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**ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
VI Semester**

W.E.F 01/02/2016

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday	10CV61	10CV64	BREAK	10CV61	10CV666					
Tuesday	10CV61	10CV62		10CV62	10CV63					
Wednesday	10CV64	10CV666		10CV64	10CV63					10CVL67/68
Thursday	10CV61	10CV666		10CV63	10CV64					10CVL67/68
Friday	10CV666	10CV65		10CV63	10CV61					10CV62
Saturday	10CV65			10CV65						

Sub Code	Name of the Subject	Name of the Faculty
10CV61	Environmental Engineering I	Mr. Shashi Kiran C R
10CV 62	Design and drawing of RCC Structural Elements	Mrs. Umadevi R
10CV 63	Transportation Engineering II	Mr. Vishwanath G
10CV 64	Geotechnical Engg-II	Mrs. Shlok Singh
10CV 65	Hydraulics Structure and Irrigation Design & Drawing	Mr. Kalaignan
10CV 666	Rural water supply and sanitation	Mrs. Gayathri G
10CVL 67	Geotechnical Engg lab	Ms. Umadevi/Mrs. Kavitha
10CVL 68	Extensive survey viva voce	Mr. Vishwanath G/Mr.Shashi Kiran C R

Gayathri G
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Dept. of Environmental Engineering
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**ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
VIII Semester**

W.E.F 01/02/2016

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday	10CV843	10CV82	BREAK	10CV843	10CV81	LUNCH	10CV82	10CV835		
Tuesday	10CV81	10CV843		10CV81	10CV835		10CV82			
Wednesday	10CV835	10CV843		10CV81	10CV835					
Thursday	SEMINAR			SEMINAR			PROJECT WORK			
Friday	PROJECT WORK			PROJECT WORK			SEMINAR			
Saturday	PROJECT WORK			PROJECT WORK						

Sub Code	Name of the Subject	Name of the Faculty
10CV81	Advanced concrete technology	Mrs. Laxmi
10CV82	Design & drawing of Steel structures	Mrs. Sugandha N
10CV835	Industrial Waste water Treatment(Group D)	Mrs. Gayathri G
10CV843	Environmental Impact Assesment (Group E)	Mr. S Sankaran
10CV85	Project work	
10CV86	seminar	

T/c Gayathri G.

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P. Raju

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**ACS COLLEGE OF ENGINEERING**

Kambipura, Bengaluru-560074.

DEPARTMENT OF CIVIL ENGINEERING**III SEMESTER - CLASS TIME TABLE - 2014- 2015-ODD SEM-W.E.F. 06.08.2014****ROOM NO: 305****CLASS TEACHER:**

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 12.45 PM	12.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM	
-- Day										
MON	15MAT31	15CV32	TEA BREAK	15CV33	15CV32	Lunch Break	15CV34	15CV36	Dip Maths	
TUE	15CV34	10CV32		15CV35			10CV33	15CV31	Dip Maths	
WED	15CV34	15CV33		15CV32	15MAT31		15CV36	15CV35		
THU	15CV33	15CVL37/38		15CVL37/38			15CV33	15MAT31		
FRI	15CV34	15CVL37/38		15CVL37/38			15CV35		15CV36	
SAT	15CV34	15CV36		15CV31	15CV36					
Sub Code	Name of the Subject					Name of the Faculty				
15MAT31	Engineering Mathematics-III					Mr. Raghavendra				
15CV32	Building Materials & Construction Technology					Mr. Shashi Kiran C R				
15CV33	Strength of Materials					Mr. I Subramanian				
15CV34	Surveying I					Mr. Venkatesh R				
15CV35	Fluid Mechanics					Mrs. Reena K				
15CV36	Applied Engineering Geology					Mr. Ganganna				
15CVL37	Basic Material Testing Laboratory					Ms. Umadevi R/Mrs. Laxmi G				
15CVL38	Surveying Practice I					Mr. Venkatesh R/Mr. Shashi Kiran C R				

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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ACS COLLEGE OF ENGINEERING
Kambipura, Bengaluru-560074.
DEPARTMENT OF CIVIL ENGINEERING

V SEMESTER - CLASS TIME TABLE - 2014 - 2015-ODD SEM-W.E.F. 06.08.2014

ROOM NO: 306

CLASS TEACHER:

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 12.45 PM	12.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM	
Day										
MON	10CV53	10CV56	TEA BREAK	10CV52	10CV54	Lunch Break	10CV52	10CV54	10CV51	
TUE	10CV51	10CV56		10CV52			10CV53		10CV54	
WED	10CV52	10CV53		10CV55	10CV56		10CVL57/58			
THU	10CV56	10CV55		10CV53	10CV51		10CVL57/58			
FRI	10CV55			10CV54	10CV56		10CV51	10CV52		
SAT	10CV52	10CV54		10CV51	10CV55					
Sub Code	Name of the Subject					Name of the Faculty				
10AL51	Management & Entrepreneurship					Mr. Gangadhar N				
10CV52	Design of RCC Structural Elements					Ms. Umadevi R				
10CV53	Structural Analysis II					Mrs. Reena K				
10CV54	Geotechnical Engineering I					Mrs. Kavitha S				
10CV55	Hydrology and Irrigation Engineering					Mr. Kalaignan				
10CV56	Transportation Engineering I					Mrs. Vindhyashree M P				
10CVL57	hydraulics & hydraulic machinery lab					Mrs. Reena K/Mr.Kalaignan				
10CVL58	computer aided design lab					Ms. Sugandha N/Mrs. Kavitha S				

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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Kambipura, Bengaluru-560074.
DEPARTMENT OF CIVIL ENGINEERING

VII SEMESTER - CLASS TIME TABLE - 2014 - 2015-ODD SEM-W.E.F. 06.08.2014

ROOM NO: 307

CLASS TEACHER:

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 12.45 PM	12.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM	
Day										
MON	10CV71	10CV72	TEABREAK	10CV757	10CV74	LUNCH BREAK	10CVL77/78			
TUE	10CV74	10CV71		10CV757	10CV72		10CV73	10CV765		
WED	10CV757	10CV71		10CV74			10CVL77/78			
THU	10CV71	10CV757		10CV73			10CV72	10CV765		
FRI	10CV765	10CV72		10CV71	10CV757		10CV74		10CV73	
SAT	10CV74	10CV72		10CV765	10CV73					
Sub Code	Name of the Subject				Name of the Faculty					
10CV71	Environmental Engineering II				Mr. Shashi Kiran C R					
10CV72	Design of steel structures				Ms. Sugandha N					
10CV73	Estimation and valuation				Mr. Venkatesh R					
10CV74	Design of prestressed concrete structures				Mrs. Laxmi G					
10CV757	Solid waste management				Mr. Shashi Kiran C R					
10CV765	Air pollution and control				Mr. Kalaignan					
10CVL77	Environmental Engineering Lab				Mr. Shashi Kiran C R/Mr. Venkatesh R					
10CVL78	concrete and highway material testing lab				Mrs. Laxmi G/Mrs. Vindhyashree M P					

Note: As per VTU regulation 85% of attendance is compulsory in each subject.

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Dept. of Civil Engg.
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Bangalore - 560 074



ACS COLLEGE OF ENGINEERING
Kambipura, Bengaluru-560074.
DEPARTMENT OF CIVIL ENGINEERING

M TECH II SEMESTER - CLASS TIME TABLE - 2013 - 2014-ODD SEM-W.E.F. 06.08.2013

ROOM NO: 307

CLASS TEACHER:

Time	08.30 AM to 09.30 AM	09.30 AM to 10.30 AM	10.30 AM to 10.45 AM	10.45 AM to 11.45 AM	11.45 AM to 14.45 PM	14.45 PM to 01.30 PM	01.30 PM to 02.20 PM	02.20 PM to 03.10 PM	03.10 PM to 4:00 PM	
Day										
MON	14CSE11		TEABREAK	14CSE12		LUNCH BREAK				
TUE	14CSE11	14CSE13		14CSE14						
WED	14CSE14	14CSE13		14CSE153						
THU	14CSE11	14CSE13		14CSE153			14CSE16			
FRI	14CSE14	14CSE12		14CSE12	14CSE13					
SAT										
Sub Code	Name of the Subject					Name of the Faculty		Signature		
14CSE11	Computational Structural Mechanics									
14CSE12	Advanced RCC Design									
14CSE13	Mechanics of Deformable Bodies									
14CSE14	Structural Dynamics									
14CSE15	Repair &n Rehabilitation of Structures									
14CSE16	Structural Engineering Lab I									

Note: As per VTU regulation 85% of attendance is compulsory in each subject.


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Dept. of Civil Engg.
ACS College of Engineering
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Bangalore - 560 074

ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

W.E.F 09/02/2015

II Semester(M.Tech)

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	14CSE22	14CSE23		14CSE24	14CSE253	LUNCH			
Tuesday	14CSE21	14CSE23		14CSE22	14CSE253			14CSE26	
Wednesday	14CSE24	14CSE21		14CSE21	14CSE23				
Thursday	14CSE22	14CSE253		14CSE24	14CSE23				
Friday	14CSE253	14CSE24		14CSE22	14CSE21				
Saturday									

M.Tech IInd Sem		
Subject Code	Subject	Faculty
14CSE21	Design of Plates & Shells	Ms. Sugandha N
14CSE22	Earthquake Resistant Structures	Mr. Gangadhar N
14CSE23	Finite Element Method of Analysis	Mrs. Manjula
14CSE24	Design Concept of Substructures	Mrs. Umadevi
14CSE253	Design of Masonry Structures	Ms. Kavitha
14CSE26	Structural Engg. Lab II	Mr. Gangadhar

Gangadhar N

HOD

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Dept. of Civil Engg.
ACS College of Engineering
Bangalore - 560 074.

Gangadhar N

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**ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
VII Semester
(W.E.From 27/7/2015)**

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday	10CV75	10CV71	BREAK	10CV72	10CV73	LUNCH				
Tuesday	10CV71	10CV75		10CV74	10CV76		10CVL-77/10CVL-78			
Wednesday	10CV75	10CV73		10CV74	10CV71					
Thursday	10CV74	10CV72		10CV76	10CV73					
Friday	10CV76	10CV74		10CV72	10CV75		10CVL-77/10CVL-78			
Saturday	10CV71	10CV73		10CV76	10CV72					

Sub Code	Name of the Subject	Name of the Faculty
10CV71	Environmental engg-II	Shashi Kiran C R
10CV72	Design of Steel structures	Sugandha
10CV73	Estimation and valuation	Shlok Singh
10CV74	Design of prestressed concrete structures	Laxmi
10CV757	Elective-II (Group B) – solid waste Management	Gayathri
10CV765	Elective-II (Group C) – Air Pollution	Gayathri
10CVL-77	Environmental engg lab	Shashi Kiran C R/ Gayathri
10CVL-78	Concrete and Highway Materials lab	NF-I/Shlok Singh

HOD

Prof. of Civil Engg.
ACS College of Engineering
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Handwritten notes:
To circulation
among the staff members
PAC
27/7/15

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ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
M.Tech I Semester
(W.E.From 27/7/2015)

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	14CSE14	14CSE12	BREAK	14CSE11		LUNCH	Structural ENGG LAB 1		
Tuesday	14CSE15	14CSE13		14CSE14					
Wednesday	14CSE14	14CSE15		14CSE13					
Thursday	14CSE11	14CSE15		14CSE12					
Friday	14CSE15	14CSE11		14CSE12	14CSE13				
Saturday									

Sub Code	Name of the Subject	Name of the Faculty
14CSE11	Computational Structural Mechanics	Umadevi
14CSE12	Advanced Design of RCC Structural Elements	Dr.Prahallada
14CSE13	Structural Dynamics	Dr.Prem Kumar
14CSE14	Mechanics of Deformable Bodies	Sugandha
14CSE15	Elective	NF-I
14CSE16	Structural ENGG LAB 1	Gangadhar/ Umadevi

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Bangalore - 560 074

H. Shankar
PRINCIPAL
Principal
A.C.S. College of Engineering
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ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
III Semester
(W.E.From 27/7/2015)

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45-12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	10CV32	10CV33		10CV31	10CV35	LUNCH			
Tuesday	10CV36	10CV36		10CV32	10CV33				
Wednesday	10CV32	10CV35		10CV34	10CV31				
Thursday	10CV33	10CV34		10CV31	10CV32			BMT LAB/ SURVEY PRACTICE -I	
Friday	10CV36	10CV36		10CV35	10CV34			BMT LAB/ SURVEY PRACTICE -I	
Saturday	10CV31	10CV33		10CV34	10CV35				

Sub Code	Name of the Subject	Name of the Faculty
10CV31	Engineering mathematics-III	Ramakrishna D T
10CV32	Building Materials and Construction Technology	NF-1
10CV33	Strength of Materials	Dr.Prem Kumar
10CV34	Surveying-I	Vishwanath
10CV35	Fluid Mechanics	Reena
10CV36	Applied Engg Geology	Ganganna
10CVL-37	Civil Engg. Material Testing Laboratory	Laxmi
10CVL-38	Surveying Practice-I	Vishwanath

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HOD
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ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
V Semester
(W.E.From 27/7/2015)

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	10CV 54	10CV 53	BREAK	10CV 55	10CV 56	LUNCH	HHM LAB/CADD LAB		
Tuesday	10CV 52	10CV 54		10CV 56	10CV 51				
Wednesday	10CV 56	10CV 52		10CV 51	10CV 53		HHM LAB/CADD LAB		
Thursday	10CV 55	10CV 54		10CV 52	10CV 53				
Friday	10CV 56	10CV 51		10CV 55	10CV 52				
Saturday	10CV 55	10CV 53		10CV 51	10CV 54				

Sub Code	Name of the Subject	Name of the Faculty
10AL51	Management & Entrepreneurship	
10CV 52	Design of RCC Structural Elements	Umadevi
10CV 53	Structural Analysis II	Reena
10CV 54	Geotechnical Engg-I	Shlok Singh
10CV 55	Hydrology and Irrigation Engineering	NF-I
10CV 56	Transportation Engineering -I	Vishwanath
10CVL 57	Hydraulics and hydraulic machinery lab	Reena/Vishwanath
10CVL 58	Computer Aided Design lab	Sugandha/ Shlok Singh

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**ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING**

**III Semester
(W. E. From 03/08/2015)**

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45-12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday	10MAT31	10CV33		10CV32	10CV35	LUNCH	Co-curricular activities			
Tuesday	10CV36			10CV32	10CV35		10MAT31	10CV33		
Wednesday	10CV32	10CV34		10CV35	10MAT31		Co-curricular activities			
Thursday	10CV33	10CV32		10CV34	10MAT31		B M T Lab(1-20,B1)/Surveying Practice-I(21-41,B2)			
Friday	10CV36			10CV34	10CV33		B M T Lab(1-20,B1)/Surveying Practice-I(21-41,B2)			
Saturday	10MAT31	10CV35		10CV33	10CV34					

Sub Code	Name of the Subject	Name of the Faculty
10MAT31	Engineering Mathematics-III	Prof. Shruthi.
10CV32	Building Materials And Construction Technology	Prof. Shashi Kiran. C. R.
10CV33	Strength of Materials	Prof. W.P. Prem Kumar. Dr
10CV34	Surveying-I	Prof. Vishwanatha. G.
10CV35	Fluid Mechanics	Prof. Reena. K.
10CV36	Applied Engg Geology	Prof. Ganganna.
10CVL-37	Civil Engg. Material Testing Laboratory	Prof. Laxmi G / Prof. Umadevi. R.
10CVL-38	Surveying Practice-I	Prof. Vishwanath .G / Prof. Shashi Kiran C. R

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Bangalore - 560 074.

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DEPARTMENT OF CIVIL ENGINEERING
V Semester
(W. E. From 03/08/2015)

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00	
Monday	10CV 55	10CV 53	BREAK	10CV 56	10AL51	LUNCH	Co-curricular activities			
Tuesday	10CV 53	10CV 54		10AL51	10CV 52		H H M lab(1-20, B1)/ CAD Lab(21-40, B2)			
Wednesday	10CV 54	10CV 52		10CV 55	10CV 56		10CV 52	10CV 53		
Thursday	10CV 56	10AL51		10CV 52	10CV 53		H H M lab(41-59, B3)/ CAD Lab(1-20, B1)			
Friday	10AL51	10CV 55		10CV 53	10CV 54		H H M lab(21-40, B2)/ CAD Lab(41-59, B3)			
Saturday	10CV 54	10CV 56		10CV 52	10CV 55					

Sub Code	Name of the Subject	Name of the Faculty
10AL51	Management and Entrepreneurship	Prof. Gangadhar.N/Sugandha N
10CV 52	Design of RCC Structural Elements	Prof. Umadevi.R
10CV 53	Structural Analysis II	Prof. Reena.K
10CV 54	Geotechnical Engg-I	Prof. Shlok Singh.
10CV 55	Hydrology and Irrigation Engineering	Prof. Gayathri.G.
10CV 56	Transportation Engineering -I	Prof. Vishwanatha.G.
10CVL 57	Hydraulics and Hydraulic Machinery Lab	Prof. Reena K / Prof. Shlok Singh
10CVL 58	Computer Aided Design Lab	Prof. Sugandha N/

M. Prasad
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ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
VII Semester
(W. E. From 03/08/2015)

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	10CV74	10CV71	BREAK	10CV757	10CV73	LUNCH	E E Lab(1-20, B1)/ C & H M Lab(21-35,B2)		
Tuesday	10CV71	10CV765		10CV74	10CV757		E E Lab(21-35, B2)/ C & H M Lab(1-20, B1)		
Wednesday	10CV757	10CV72		10CV73 ← → 10CV74	10CV74		10CV72	10CV73	10CV74
Thursday	10CV73	10CV757		10CV72	10CV765		Co-curricular activities		
Friday	10CV72	10CV71		10CV74	10CV765		Co-curricular activities		
Saturday	10CV72	10CV765		10CV71	10CV73				

Sub Code	Name of the Subject	Name of the Faculty
10CV71	Environmental Engg-II	Prof. Shashi Kiran C. R.
10CV72	Design of Steel Structures	Prof. Sugandha. N
10CV73	Estimation and Valuation	Prof. Shlok Singh
10CV74	Design of Prestressed Concrete Structures	Prof. Laxmi. G.
10CV757	Elective-II (Group B) – Solid Waste Management	Prof. Gayathri .G.
10CV765	Elective-II (Group C) – Air Pollution	Prof. Gayathri. G.
10CVL-77	Environmental Engineering Lab	Prof. Shashi Kiran C. R./ Prof. Gayathri.G
10CVL-78	Concrete and Highway Materials Lab	Prof. Umadevi. R / Prof. Shlok Singh

M. Kalalenda
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ACS COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
M. Tech I Semester
(W. E. From 28/09/2015)

Time/Day	8:30-9:30	9:30-10:30	10:30-10:45	10:45-11:45	11:45 To 12:45	12:45 To 1:30	01:30 To 2:20	02:20 To 03:10	03:10 To 4:00
Monday	14CSE14	14CSE12	BREAK	14CSE11	14CSE152	LUNCH	14CSE17		
Tuesday	14CSE14	14CSE11		14CSE13	14CSE12				
Wednesday	14CSE12	14CSE13		14CSE152	14CSE14		14CSE16		
Thursday	14CSE11	14CSE12		14CSE13	14CSE152				
Friday	14CSE13	14CSE152		14CSE14	14CSE11				

Sub Code	Name of the Subject	Name of the Faculty
14CSE11	Computational Structural Mechanics	Prof. Umadevi R
14CSE12	Advanced Design of RCC Structural Elements	Prof. Prahallada M C. Dr
14CSE13	Structural Dynamics	Prof. Prem Kumar W P. Dr
14CSE14	Mechanics of Deformable Bodies	Prof. Sugandha N
14CSE152	Elective-I	Prof. Prahallada M C. Dr
14CSE16	Structural Engineering Lab-I	Prof. Laxmi G
14CSE17	Seminar	Prof. Prem Kumar W P. Dr

mehrahalalada
HOD
24/9/15

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ACS college of Engineering
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Beena
24/9/15
PG. Co-ordinator

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Kambipura, Mysore Road, Kengeri Hobli,
Bangalore - 560 074