

## DEPARTMENT OF AEROSPACE ENGINEERING

### Report for “International Conference on Advances in Aerospace and Navigation Systems.

<b>Name of the Event</b>	:	International Conference
<b>Resource Person(s)</b>	:	1. Dr. R. Krishnakumar Group Director, DRDL, Hyderabad 2. Dr. Suryanarayanan G K. Professor, Dayananda Sagar University, Bangalore 3. Dr. Nikil Shende, Director, S & I Engineering Solutions, Bangalore 4. Dr. Punyawati Jamjareegulgarn, Professor, King Mongkut’s University, Bangkok, Thailand
<b>Date &amp; Time</b>	:	22 <sup>nd</sup> and 23 <sup>rd</sup> August 2024 & 09:30 AM to 04:00 PM
<b>Venue</b>	:	IV floor Seminar Hall
<b>No. of Papers</b>	:	196 Papers.

### 1. Introduction

The International Conference on Advances in Aerospace and Navigation Systems (iCAAN 2024) was successfully conducted on August 22-23, 2024, at ACS College of Engineering, Bengaluru. This prestigious conference provided a platform for researchers, academicians, industry experts, and students to discuss and share advancements in aerospace engineering and navigation systems.



**ACS COLLEGE OF ENGINEERING**  
#207, Kambipura, Mysore Road, Bengaluru - 560 074, Karnataka  
**DEPT. OF AEROSPACE ENGINEERING**

**TWO DAYS INTERNATIONAL CONFERENCE ON ADVANCES IN AEROSPACE AND NAVIGATION SYSTEMS (iCAAN - 2024)**

**Chief Patron**  
**Dr. A.C. Shanmugam** (R.A. IIS, FRCPS (Glasgow, UK) Chairman)  
**Sri. A.C.S Arun Kumar** (B.Tech (Hons.), LMSTE, MIE, IUK, LMCSI, Vice Chairman)

*RajaRajeswari Group of Institutions*      *RajaRajeswari Group of Institutions*

**Guest Speakers**  
**Dr. Punyawati Jamjareegulgarn** (King Mongkut's University of Technology Wangsawang, Bangkok Thailand)  
**Dr. R. Krishnamurthy** (Group Director, DRDL, Hyderabad)  
**Dr. G.K. Suryanarayana** (Professor, Department of Aerospace, Dayananda Sagar University, Bangalore)  
**Dr. Nikil Shende** (Director, SKI Engineering Solutions, Bangalore)

**Date: 22<sup>nd</sup> - 23<sup>rd</sup> Aug 2024 Time: 9-30 am - 4:00 pm Venue: 4<sup>th</sup> Floor Seminar Hall**

**Dr. S.Vijayanand**, M.Tech, Ph.D. Executive Director, RRG  
**Sri. C.N.Seetharaman**, I.A.S.(Retd.) Chief Executive Officer, RRG  
**Dr. S.Jeyabalan**, Ph.D. Special Officer, RRG  
**Dr. Karthikeyan**, Assoc. ACCE  
**Dr. A.K.Murugan**, Assoc. ACCE  
**Dr. Anandharaja B. Gudi**, Prinsipal, ACCE  
**Dr. S. Srinivasan**, Vice Prinsipal, ACCE  
**Dr. P. Theerthamalai**, Professor & Dean, Counselor



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### 2. About the Event

iCAAN 2024 aimed to foster knowledge exchange and collaboration in aerospace and navigation systems. The conference featured technical paper presentations, keynote speeches, panel discussions, and exhibitions, covering four primary tracks:

- Aerodynamics & Computational Fluid Dynamics (CFD)
- Propulsion and Structures
- Navigation & Communication
- Artificial Intelligence in Aerospace Engineering

### 3. Day 1 (August 22, 2024)

#### Inauguration:

The conference was inaugurated with a welcoming address by Dr.Theerthamalai P, followed by an introduction to the conference objectives and agenda.

#### Release of the Proceedings:



#### Keynote Addresses:

The day featured keynote speeches from:

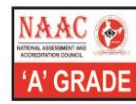
- **Dr. R. Krishnakumar**, Group Director, DRDL, Hyderabad
- **Dr. Suryanarayanan G K.**, Professor, Dayananda Sagar University, Bangalore

Their talks provided valuable insights into current trends and future directions in aerospace and navigation systems.

#### Technical Sessions:

The first day included technical sessions across the four primary tracks. Presentations were followed by Q&A sessions, fostering interactive discussions and feedback.





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### Networking and Exhibition:

Participants had the opportunity to network and explore exhibitions showcasing the latest technologies and innovations in the aerospace sector.

### 4. Day 2 (August 23, 2024)

#### Keynote Addresses:

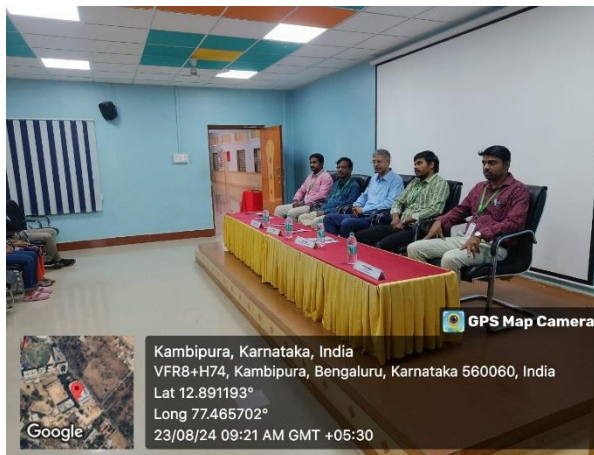
The second day featured keynote speeches from:

- **Dr. Nikil Shende**, Director, S & I Engineering Solutions, Bangalore
- **Dr. Punyawati Jamjareegulgarn**, Professor, King Mongkut's University, Bangkok, Thailand

These addresses continued to highlight key developments and research in the field.

#### Technical Sessions:

The second day comprised further technical sessions, including additional paper presentations and discussions.





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### Panel Discussions:

Panel discussions on emerging topics and future challenges in aerospace and navigation systems were held, providing a platform for in-depth exploration of various subjects.

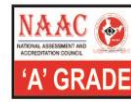
### Closing Ceremony:

The conference concluded with a closing ceremony, where the best papers and presentations were awarded, and a summary of the conference outcomes was presented.



## 5. Agenda

Details	Time
Assemble in the Auditorium	09.00 – 09.30
Invocation Song	09.30 – 09.35
Lighting the lamp	09.35 – 09.40
Welcome Address by Convener	09.40 – 09.45
Address by the Principal	09.45 – 09.50
Chief Guest & Guest of Honor Felicitation	09.50 - 09.55
Release of Conference Proceedings	09.55 – 10.00
Introduction of the chief Guest	10.00 – 10.05
Chief Guest Presentation (Session I – Keynote Address - I)	10.05 – 10.30
Introduction of the Guest of Honor	10.30 – 10.35
Guest of Honor Presentation (Session II – Keynote Address - II)	10.35 – 11.00
Vote of Thanks by ICAAN Coordinator	11.00 – 11.05



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Details	Time
Tea Break	11.05 – 11.30

### Session details

Day 1  
22 August 2024

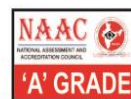
Session	Time	Event	Venue
Paper Presentation I	11.30 AM to 12.45 PM	Paper Presentation I <b>Offline Presentation</b>	4 <sup>th</sup> Floor Seminar Hall
Paper Presentation II	11.30 AM to 12.45 PM	Paper Presentation II <b>Offline Presentation</b>	Room No : 408
Break	12.45 PM to 2.00 PM	<b>LUNCH BREAK</b>	Near 4 <sup>th</sup> Floor Seminar Hall
Paper Presentation III	2.00 PM to 4.00 PM	Paper Presentation III <b>Offline Presentation</b>	4 <sup>th</sup> Floor Seminar Hall
Paper Presentation IV	2.00 PM to 4.00 PM	Paper Presentation IV <b>Offline Presentation</b>	Room No : 408
Paper Presentation V	2.00 PM to 4.00 PM	Paper Presentation V <b>Online Presentation</b> Track 1: Aerodynamics & Computational Fluid Dynamics (CFD) <b>Session Chair</b> <b>Dr. Suresh (ACSCE)</b>	Online
Paper Presentation VI	2.00 PM to 4.00 PM	Paper Presentation VI <b>Online Presentation</b> Track 2: Propulsion and Structures <b>Session Chair</b> <b>Dr. Ramanan (ACSCE)</b>	Online
Paper Presentation VII	2.00 PM to 4.00 PM	Paper Presentation VII <b>Online Presentation</b> Track 3: Navigation & Communication <b>Session Chair</b> <b>Dr. Selvi (GCE Bargur)</b>	Online
Paper Presentation VIII	2.00 PM to 4.00 PM	Paper Presentation VIII <b>Online Presentation</b> Track 4: Artificial Intelligence in Aerospace Engineering <b>Session Chair</b> <b>Dr. Mukesh R (Saranathan College of Engineering, Trichy), Dr. Muruganandam (RRCE, Bangalore),</b>	Online

### Session details

Day 2  
23 August 2024

Session	Time	Event	Venue
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Day 2 23 August 2024			
Session III Keynote address III	9.30 AM to 10.00 AM	Keynote address III <b>Dr. Nikil Shende</b> Director, S&I Engineering Solutions.	4th Floor Seminar Hall
Session IV Keynote address IV	10.15 AM to 11.00 AM	Keynote address IV <b>Dr. Punyawi Jamjareegulgarn</b> Professor, King Mongkut's University of Technology, Thailand.	4th Floor Seminar Hall (Online)
Paper Presentation IX	11.00 AM to 12.45 PM	<b>Online Presentation</b> Track 1: Aerodynamics & Computational Fluid Dynamics (CFD) <b>Session Chair</b> <b>Dr. Paramaguru (ACSCE)</b>	Online
Paper Presentation X	11.00 AM to 12.45 PM	<b>Online Presentation</b> Track 2: Propulsion and Structures <b>Session Chair</b> <b>Dr. Radha Krishnan (ACSCE)</b>	Online
Paper Presentation XI	11.00 AM to 12.45 PM	<b>Online Presentation</b> Track 2: Propulsion and Structures <b>Session Chair</b> <b>Mr. Siva J (MVJCE)</b>	Online
Paper Presentation XII	11.00 AM to 12.45 PM	<b>Online Presentation</b> Track 3: Navigation & Communication <b>Session Chair</b> <b>Dr. Supraja CBIT</b>	Online
Paper Presentation XIII	11.00 AM to 12.45 PM	<b>Online Presentation</b> Track 4: Artificial Intelligence in Aerospace Engineering <b>Session Chair</b> <b>Dr. T. Senthil Kumaran (ACSCE),</b> <b>Dr. Krishna Kumar (ACSCE)</b>	Online
Break	1.00 PM to 2.00 PM	<b>LUNCH BREAK</b>	Near 4th Floor Seminar Hall
Paper Presentation XIV	2.00 PM to 3.30 PM	<b>Online Presentation</b> Track 1: Aerodynamics & Computational Fluid Dynamics (CFD) <b>Session Chair</b> <b>Dr. Inamul Hassan (ACSCE)</b>	Online
Paper Presentation XV	2.00 PM to 3.30 PM	<b>Online Presentation</b> Track 2: Propulsion and Structures <b>Session Chair</b> <b>Dr. Anand (ACSCE)</b>	Online
Paper Presentation XVI	2.00 PM to 3.30 PM	<b>Online Presentation</b> Track 2: Propulsion and Structures <b>Session Chair</b> <b>Mr. Dhanya Prakash (ACSCE)</b>	Online
Valedictory	3.45 PM to 4.15 PM	Valedictory	4th Floor Seminar Hall



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### 6. Event Poster

The event poster for iCAAN 2024 highlighted the key details of the conference, including the dates, venue, tracks, and notable speakers. It was distributed digitally and physically to promote the event and attract participants.



### 7. Paper Presentation

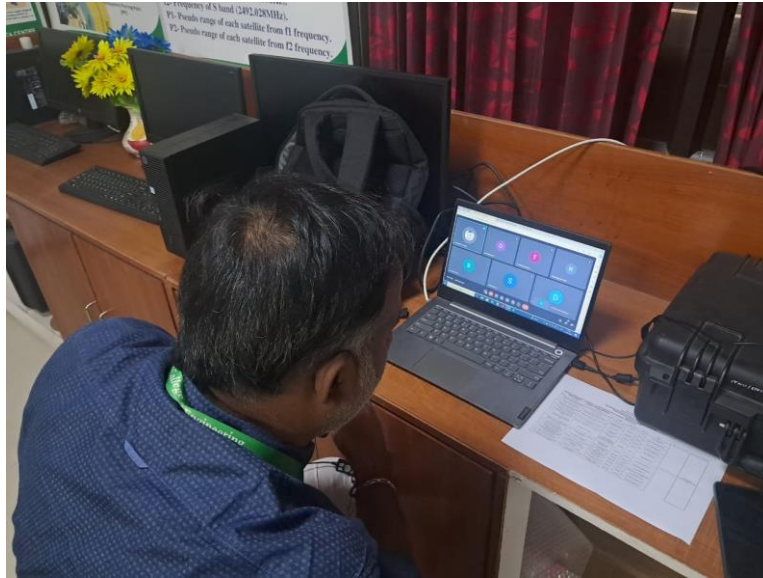
A total of 196 papers were presented during the conference. These papers covered a wide range of topics within the four primary tracks. The presentations were of high quality, and each session provided valuable insights into the latest research and technological advancements.

### 8. Online Sessions

The conference was held in hybrid mode, with online sessions conducted to accommodate remote participants. These sessions were streamed live and recorded, allowing for participation and access by attendees who could not be present physically.



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### 9. Feedback and Outcomes

The conference received positive feedback from participants, highlighting the quality of presentations, the organization of the event, and the opportunities for networking. Key outcomes include:

- New research collaborations and partnerships.
- Enhanced engagement of students and young researchers.
- Identification of emerging trends and research areas in aerospace and navigation systems.

### 10. Acknowledgments

We extend our heartfelt thanks to the management of ACS College of Engineering for their unwavering support, which was crucial to the success of iCAAN 2024. We also appreciate the contributions of our sponsors, Gradstar, Ind-lab Equipments, Raydynamics, Eduwise and SandI, for their generous support.

### 11. Conclusion

iCAAN 2024 was a successful event, achieving its objectives of knowledge exchange, networking, and fostering innovation in aerospace and navigation systems. We look forward to continuing this tradition of excellence in future editions of the conference.