



## **RajaRajeswari Group of Institutions Center for Test and Data**



### **Select Smart Activity Report On**

**Python based dose and volume calculation from  
structure sets of patient images from CT scanners -a  
treatment evaluation**

By,  
Mr. Sougumaran  
Radiologist & Python Expert in Diagnosis,

Conducted on: 21-Oct-2022  
Via: Zoom Meetings/YouTube  
<https://meet.google.com/djz-ggyp-khz>

## **ACTIVITY REPORT**

<b>Activity Name</b>	Python based dose and volume calculation from structure sets of patient images from CT scanners -a treatment evaluation
<b>Activity Type</b>	Webinar
<b>Conducted By</b>	CTDS Bangalore

### **About ISERT lectures**

ISERT conducts series of lectures from Industry and Academic experts. These lectures are scheduled for 40 hours spread over 2-3 months of time. This enables the beneficiaries to grasp the subject thoroughly over a period of time.

### **PYTHON PROGRAM**

Python is a computer programming language used for build websites and software, automate tasks, and conduct data analysis. This high-impact programme will enable you to effectively drive innovation , growth, and customer experience with a cutting- edge curriculum and enriching insights from ISERT.

### **PROGRAM HIGHLIGHTS**

- Learn from industrial experts
- Experience high-impact live online learning and explore real
- Gain industry-oriented insights from eminent industry experts
- Participate in peer-to-peer learning and expand your professional network
- Receive successful completion certificate in Design Thinking and Innovation from company and ISERT

### **LEARNING OUTCOMES**

- To understand why Python is a useful scripting language for developers.
- To learn how to design and program Python applications.
- To learn how to use lists, tuples, and dictionaries in Python programs.

- To learn how to identify Python object types.
- To learn how to use indexing and slicing to access data in Python programs.
- To define the structure and components of a Python program.
- To learn how to write loops and decision statements in Python.
- To learn how to write functions and pass arguments in Python.
- To learn how to build and package Python modules for reusability.
- To learn how to read and write files in Python.
- To learn how to design object-oriented programs with Python classes.
- To learn how to use class inheritance in Python for reusability.
- To learn how to use exception handling in Python applications for error handling

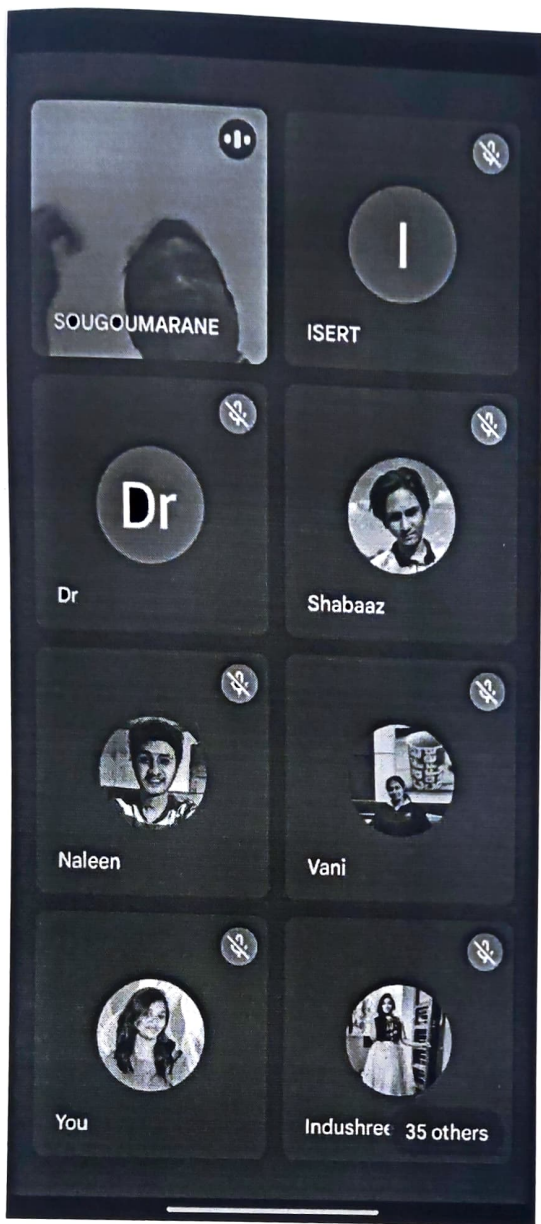
### **PROGRAM COORDINATOR**

- Tech enthusiast with technology degree.
- Having good experience in various technologies and programming languages.
- Possess good experience in training and mentoring various types of target audience.
- Developed a unique pedagogy to deliver the concept efficiently with More on practical sessions than theory knowledge.

### **PROGRAM MODULES**

- Overview
- Environment Setup
- Basic Concepts
- Basic Operators in Python
- Loops and Decision Making
- IO Operations
- Modules & Packages
- File IO operations
- Exceptions
- Object Oriented Programming

**Video Link of the Activity:** <https://meet.google.com/djz-ggyp-khz>



11:01

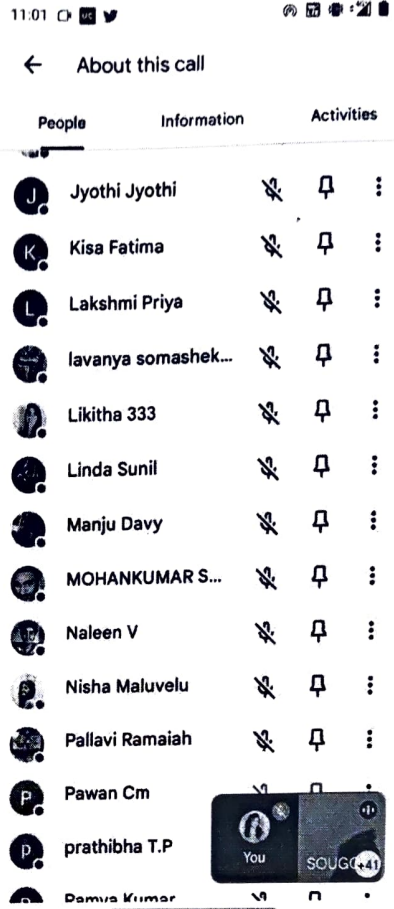


← About this call

People Information Activities

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- ISERT Global Meeting host
- Aafreen Fathima
- anirudha masti
- ANITHA S
- Ashwin jerry
- Ayaan Abbas
- Basavaraj V
- bindu ks
- Chandana
- Dinesh Chavan
- Dr.P.Bhuvaneswari
- G Abhishek
- Indushree k p









## MENTOR PROFILE



**ACS COLLEGE OF ENGINEERING**  
Approved by AICTE New Delhi, Affiliated to VTU Belagavi  
(A Unit of Rajarajeswari Group of Institutions)

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**



**Mr. Sougumaran - Radiologist & Phyton Expert  
in Diagnosis,**

- **Dedicated , Service oriented , Software Development, Professional with an appetite for Training and Mentoring**
- **Self Organized individual with excellent communication and technical skills**

  
CTDS INSTITUTION HEAD

  
PRINCIPAL