



# SREYAS

INSTITUTE OF ENGINEERING AND TECHNOLOGY

Affiliated to JNTUH, Hyderabad, Approved by AICTE, New  
Delhi Accredited by NAAC



# TECH-ZINE

## 2021

September-February

PUBLISHED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

# ABOUT ECE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year 2011. The major objective of the Department is to impart high-quality education and research. All through its sparkling history, the department of ECE has been known for its exceptionally strong Under-Graduate training programs. Courses like Electronic devices and circuits, Signals & systems and Electric Circuits are introduced in the early semesters. Advanced courses and electives such as Analog & Digital Communications, Satellite communications, Radar systems and Wireless communications and networks in later years enable students to specialize in communications, signal processing, robotics, VLSI, embedded systems and other streams. Since its inception, the Department has progressed rapidly and is now regarded as one of the Premier Departments, with excellent infrastructure and quality Faculty members. The Department has MOUs with BSNL, Corel Technologies, Physitech, SS Electronics and Campus Image.



# VISION

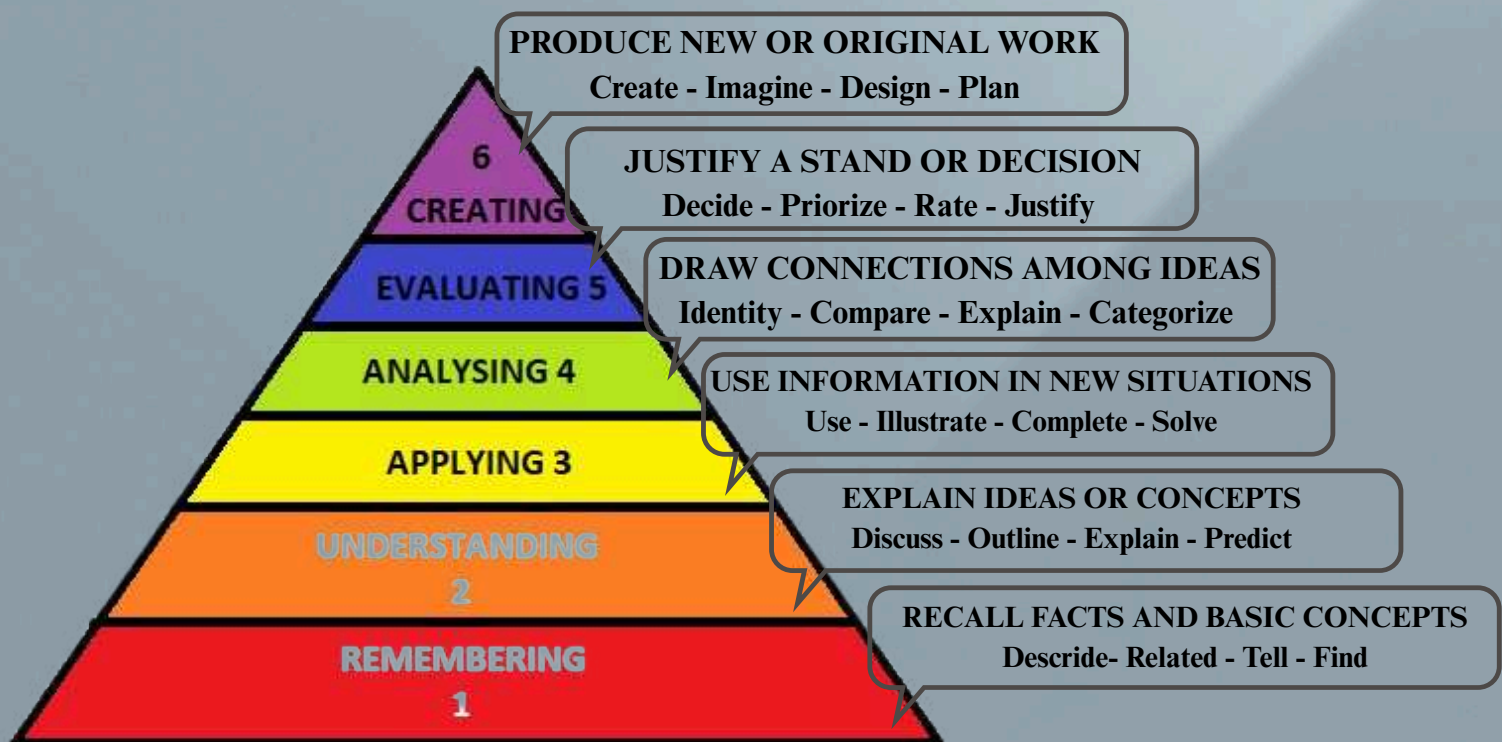
To excel in electronics & communication engineering education with the knowledge of innovation, research and ethics.

# MISSION



- 1.To provide academic environment that promotes student centric learning through quality education and state of the art infrastructure.
- 2.To make the students aspire towards innovation and collaborative research to meet the technological needs of society.
- 3.To engage the students in activities which inculcate professional practices with social concern.
- 4.

# FRAME WORK FOR IMPLEMENTARY OUTCOME-BASED EDUCATION

Outcome-Based Education (OBE) is a student-centered approach that fundamentally shifts the focus of education from what is taught to what students are able to know and do by the end of their learning journey. It begins with clearly defining these desired learning outcomes, which then guide every aspect of the curriculum, instructional methods, and assessment strategies. Unlike traditional models, OBE emphasizes developing practical skills and competencies like critical thinking, problem-solving, and communication, ensuring graduates are well-equipped for real-world challenges. Through continuous assessment and feedback, the system constantly refines itself to ensure that all students achieve the specified outcomes, making education more relevant, effective, and accountable.



# FACULTY CERTIFICATIONS



**Elite**

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)


This certificate is awarded to  
**A SOWJANYA**  
for successfully completing the course

### Computer Networks and Internet Protocol

with a consolidated score of **90** %


Online Assignments	24.69/25	Proctored Exam	65.29/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1700**




Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur


Jan-Apr 2022  
(12 week course)



Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL22CS19S13533435

To validate and check scores: <https://nptel.ac.in/noc>

**Elite**

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)


This certificate is awarded to  
**SREENIVASU BHUKYA**  
for successfully completing the course

### Introduction to Industry 4.0 and Industrial Internet of Things


with a consolidated score of **86** %

Online Assignments	24.78/25	Proctored Exam	61.22/75
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Total number of candidates certified in this course: **3987**

  
Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Jan-Apr 2022  
(12 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**A SOWJANYA**  
for successfully completing the course

## Computer Architecture

with a consolidated score of **76** %

Online Assignments	23.75/25	Proctored Exam	52.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **652**

*Devendra Jalihal*

Prof. Devendra Jalihal  
Chairman  
Centre for Continuing Education, IITM

Jan-Apr 2022  
(12 week course)

*Prof. Andrew Thangaraj*

Prof. Andrew Thangaraj  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SRAVANTHI BALGURI**  
for successfully completing the course

## Computer Networks and Internet Protocol

with a consolidated score of **75** %

Online Assignments	23.13/25	Proctored Exam	52.04/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1700**

*Prof. Jayanta Mukhopadhyay*

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Jan-Apr 2022  
(12 week course)

*Prof. Debjani Chakraborty*

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur







Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SOMISETTI ASHALATHA**  
for successfully completing the course

## Computer Networks and Internet Protocol

with a consolidated score of **78** %

Online Assignments	23.78/25	Proctored Exam	54/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1700**

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Jan-Apr 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SOMISETTI ASHALATHA**  
for successfully completing the course

## Computer Architecture

with a consolidated score of **84** %

Online Assignments	25/25	Proctored Exam	58.5/75
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Total number of candidates certified in this course: **652**



Prof. Devendra Jalihal  
Chairman  
Centre for Continuing Education, IITM

Jan-Apr 2022  
(12 week course)

Prof. Andrew Thangaraj  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras





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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**CHOLLETI NEETHA**

for successfully completing the course



## Computer Networks and Internet Protocol

with a consolidated score of **75** %

Online Assignments	23.13/25	Proctored Exam	52.28/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1700**

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Jan-Apr 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL22CS19S13532942

To validate and check scores: <https://nptel.ac.in/noc>



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**PAVANI MUNAGALA**

for successfully completing the course



## Computer Networks and Internet Protocol

with a consolidated score of **77** %

Online Assignments	23.75/25	Proctored Exam	53.57/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1700**

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Jan-Apr 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL22CS19S13532888

To validate and check scores: <https://nptel.ac.in/noc>





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SREENIVASU BHUKYA**  
for successfully completing the course

## Computer Networks and Internet Protocol

with a consolidated score of **86** %

Online Assignments	24.47/25	Proctored Exam	61.22/75
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Total number of candidates certified in this course: 1700

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Jan-Apr 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SRINIVASA RAO G**  
for successfully completing the course

## Computer Networks and Internet Protocol

with a consolidated score of **79** %

Online Assignments	25/25	Proctored Exam	53.57/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: 1700

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Jan-Apr 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur





Indian Institute of Technology Kharagpur





Roll No:NPTEL22CS19S13533490

To validate and check scores: <https://nptel.ac.in/noc>

# STUDENT CERTIFICATIONS




**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)




This certificate is awarded to  
**M SAI TEJA**  
for successfully completing the course  
**The Joy of Computing using Python**  
with a consolidated score of **91** %


Online Assignments	24.94/25	Programming Exam	25/25	Proctored Exam	41/50
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Total number of candidates certified in this course: **7438**



  
**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2022**  
(12 week course)



  
**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras

**Indian Institute of Technology Madras**






**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)




This certificate is awarded to  
**CHINTHAKINDI SHIVATEJA**  
for successfully completing the course  
**The Joy of Computing using Python**  
with a consolidated score of **90** %


Online Assignments	24.78/25	Programming Exam	25/25	Proctored Exam	40.5/50
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Total number of candidates certified in this course: **7438**

  
**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2022**  
(12 week course)

  
**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras

**Indian Institute of Technology Madras**





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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**ABHISHEK H**  
for successfully completing the course

## Air Pollution and Control

with a consolidated score of **75** %

Online Assignments	24.38/25	Proctored Exam	51/75
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Total number of candidates certified in this course: **5166**

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jan-Apr 2022  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SALVERU AKHILA**  
for successfully completing the course

## The Joy of Computing using Python

with a consolidated score of **79** %

Online Assignments	24.94/25	Programming Exam	25/25	Proctored Exam	29.26/50
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Total number of candidates certified in this course: **7438**

**Prof. Devendra Jaliha**  
Chairman  
Centre for Continuing Education, IITM

Jan-Apr 2022  
(12 week course)

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras







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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**AKSHITHA VEERANKI**

for successfully completing the course



## The Joy of Computing using Python

with a consolidated score of **77** %

Online Assignments	24.88/25	Programming Exam	25/25	Proctored Exam	27.5/50
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Total number of candidates certified in this course: **7438**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2022**  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**VUTUKURI BHUVAN CHANDRA**

for successfully completing the course



## The Joy of Computing using Python

with a consolidated score of **86** %

Online Assignments	25/25	Programming Exam	25/25	Proctored Exam	36.17/50
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Total number of candidates certified in this course: **7438**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2022**  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



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This certificate is awarded to

**ENUGU KRUTI**

for successfully completing the course



## The Joy of Computing using Python

with a consolidated score of **80** %

Online Assignments	25/25	Programming Exam	25/25	Proctored Exam	30.32/50
--------------------	-------	------------------	-------	----------------	----------

Total number of candidates certified in this course: 7438

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2022**  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**GUDDANTI MEGHANA**

for successfully completing the course



## The Joy of Computing using Python

with a consolidated score of **75** %

Online Assignments	24.63/25	Programming Exam	25/25	Proctored Exam	24.94/50
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Total number of candidates certified in this course: 7438

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2022**  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras





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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**BYADEGERA NEHA**

for successfully completing the course

## The Joy of Computing using Python

with a consolidated score of **75** %

Online Assignments	23.25/25	Programming Exam	25/25	Proctored Exam	26.5/50
--------------------	----------	------------------	-------	----------------	---------

Total number of candidates certified in this course: **7438**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairman

Centre for Continuing Education, IITM

**Jan-Apr 2022**

**(12 week course)**

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**YEDULLAPREETHI**

for successfully completing the course

## The Joy of Computing using Python

with a consolidated score of **79** %

Online Assignments	25/25	Programming Exam	25/25	Proctored Exam	28.5/50
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Total number of candidates certified in this course: **7438**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairman

Centre for Continuing Education, IITM

**Jan-Apr 2022**

**(12 week course)**

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras







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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**PREKSHA SARWADE**

for successfully completing the course

## The Joy of Computing using Python

with a consolidated score of **85** %

Online Assignments	24.94/25	Programming Exam	25/25	Proctored Exam	35/50
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Total number of candidates certified in this course: **7438**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2022**  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**NAMPALLI RITHIKA**

for successfully completing the course

## The Joy of Computing using Python

with a consolidated score of **75** %

Online Assignments	24.94/25	Programming Exam	25/25	Proctored Exam	25/50
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Total number of candidates certified in this course: **7438**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2022**  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras





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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**KURRA REVANTH GOUD**  
for successfully completing the course

## The Joy of Computing using Python

with a consolidated score of **75** %

Online Assignments	25/25	Programming Exam	25/25	Proctored Exam	24.5/50
--------------------	-------	------------------	-------	----------------	---------

Total number of candidates certified in this course: **7438**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2022**  
(12 week course)

*Prof. Andrew Thangaraj*

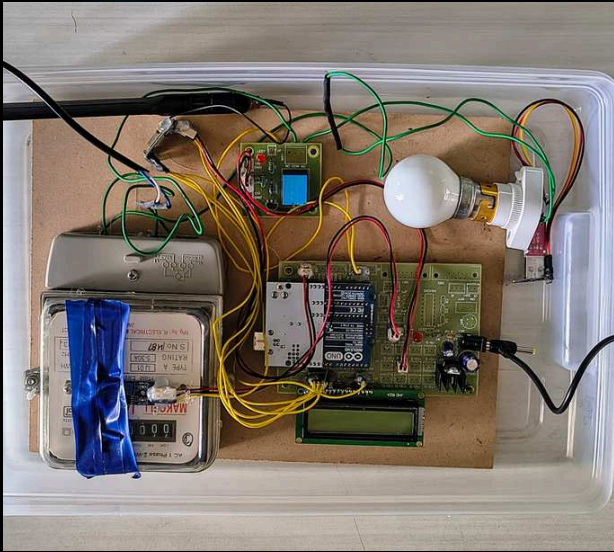
**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras

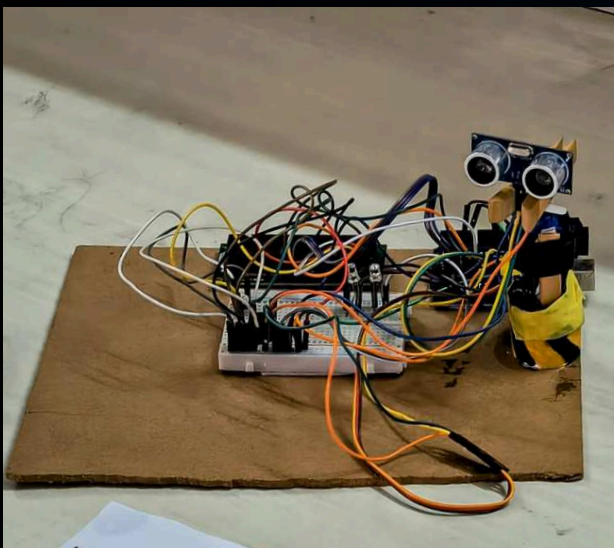


# STUDENTS INNOVATIONS



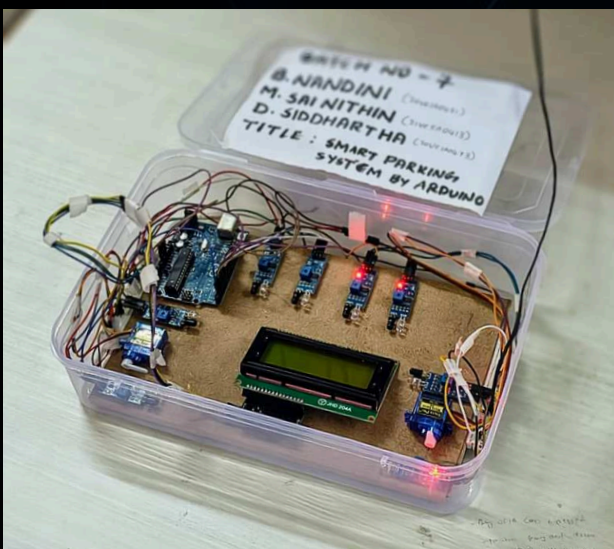
## **TITLE : SMART ELECTRIC METER USING LORA**

This project implements a smart electric meter that uses LoRa technology for wireless communication of energy consumption data. It enables remote monitoring and efficient data transmission.



## **TITLE : ARDUINO RADAR MODEL USING ULTRASONIC SENSOR FOR DETECTION AND RANGING**

This project builds a basic radar system using an Arduino, an ultrasonic sensor, and a servo motor. It detects objects by measuring distances and their angular position.

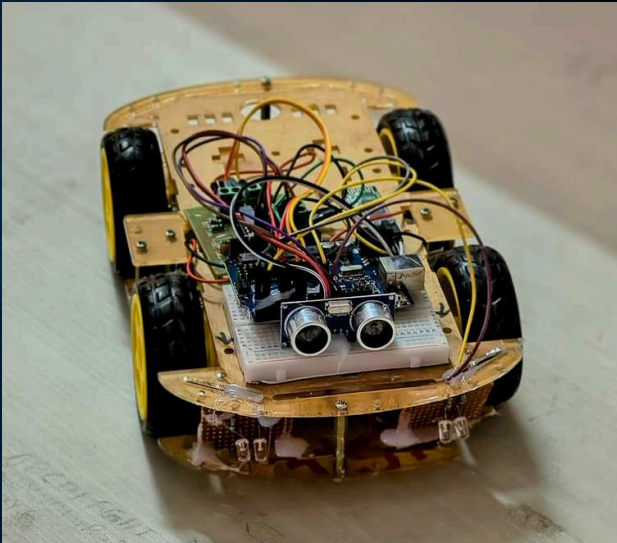


## **TITLE : SMART PARKING SYSTEM BY ARDUINO**

This project develops an Arduino-based smart parking system to optimize parking space usage. It incorporates sensors to detect vehicle presence and an Arduino microcontroller to process data. The system can provide real-time information on parking availability and automate parking management tasks.

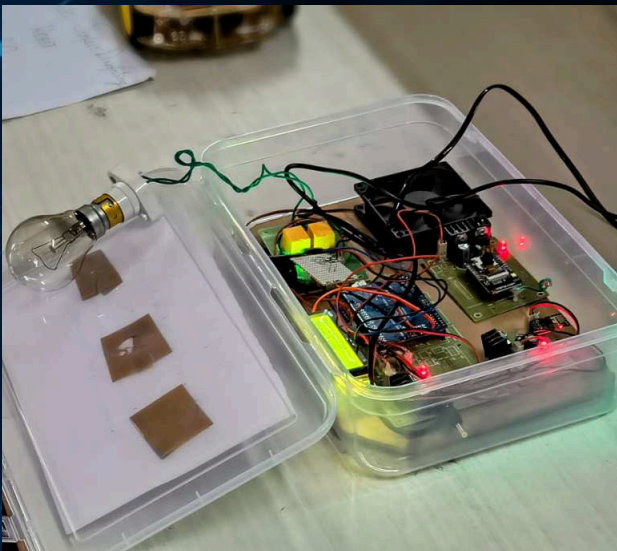


# STUDENTS INNOVATIONS



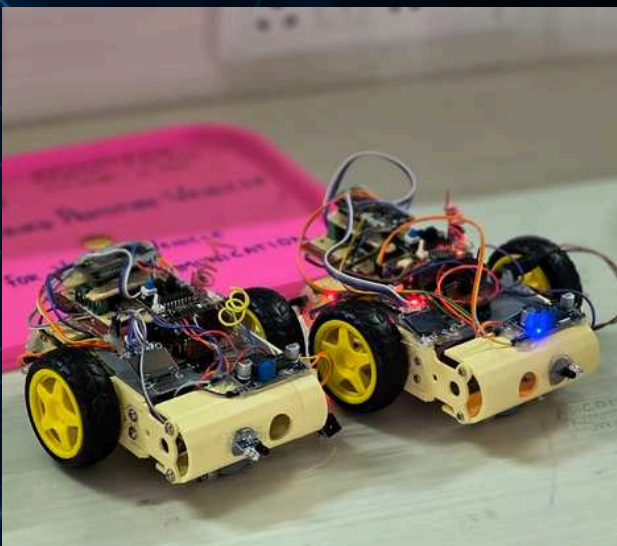
## **TITLE: AUTOMATIC SURFACE DISINFECTING ROBOT**

This project involves building a robot capable of autonomously disinfecting surfaces. It utilizes components like UV-C light or disinfectant spray mechanisms to eliminate pathogens.



## **TITLE: VIDEO STREAMING OVER SOFTWARE DEFINED NETWORKS WITH SERVER LOAD BALANCING**

This project demonstrates efficient video streaming by leveraging Software Defined Networking (SDN) to dynamically manage network traffic. It includes server load balancing to optimize video delivery and performance.



## **TITLE: VANET BASED PROTOTYPE**

( Model for vehicle - vehicle communication )

The project showcases a VANET-based prototype that models vehicle-vehicle communication. It utilizes model vehicles to establish and test ad-hoc network connections for data exchange.

# EVENTS





# ORIENTATION DAY



The Orientation Day at our college was a vibrant and welcoming event that brought together freshers, faculty, and senior students for a memorable start to the academic journey. The program began with a warm address by the principal, followed by insightful sessions introducing various departments, campus facilities, and student support services. Cultural performances, interactive games, and alumni talks added a lively touch to the day, helping new students feel at ease.

Among the highlights was the department showcase segment, where each branch shared its vision and achievements. The Electronics and Communication Engineering (ECE) department stood out with its interactive presentation that highlighted student-led innovations, lab facilities, and ongoing projects. Newcomers showed keen interest, especially during the Q&A, reflecting the growing appeal of ECE as a dynamic and forward-looking field. Overall, Orientation Day set a positive tone, inspiring students to explore, engage, and excel in their chosen paths.





# FRESHERS





# STUDENTS IN IEEE SREYAS

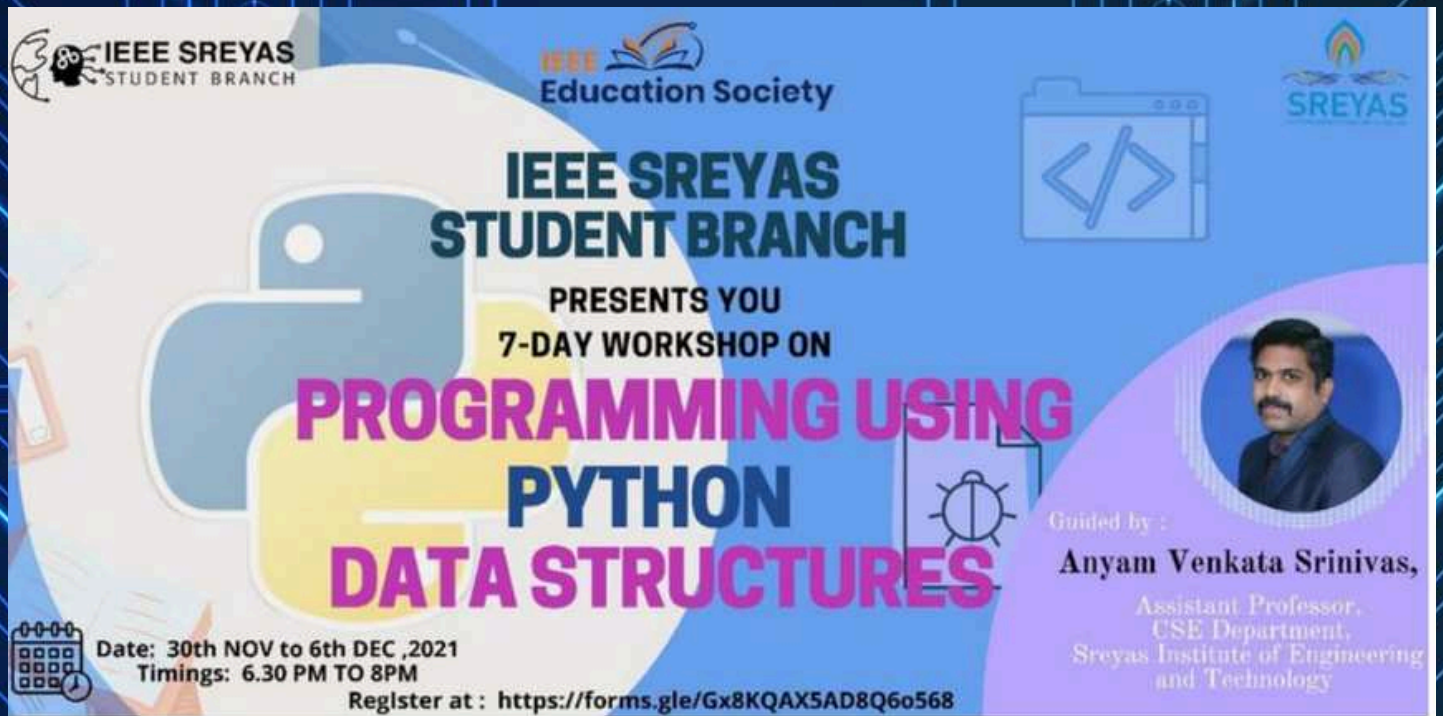


The Institute of Electrical and Electronics Engineers (IEEE) serves as a global beacon of technological innovation and collaboration, empowering professionals and students alike. For the 105 aspiring engineers within the ECE department, IEEE provides an invaluable gateway to cutting-edge knowledge, industry standards, and a vibrant community of experts. By fostering a culture of continuous learning and professional development, IEEE equips these students with the tools and connections necessary to excel in the ever-evolving landscape of technology. This engagement not only enriches their academic experience but also paves the way for them to become future leaders and innovators in the field.





# IEEE SREYAS STUDENT BRANCH



The poster is for a 7-day workshop on "Programming Using Python Data Structures". It features the IEEE Sreyas Student Branch logo, the IEEE Education Society logo, and the Sreyas Institute of Engineering and Technology logo. A large Python logo is in the background. The text "PRESENTS YOU 7-DAY WORKSHOP ON PROGRAMMING USING PYTHON DATA STRUCTURES" is prominently displayed. A circular portrait of the guide, Anyam Venkata Srinivas, is on the right. The date and timing are listed at the bottom left, and the registration link is at the bottom center.

IEEE SREYAS STUDENT BRANCH

IEEE Education Society

IEEE SREYAS STUDENT BRANCH

PRESENTS YOU

7-DAY WORKSHOP ON

**PROGRAMMING USING PYTHON DATA STRUCTURES**

Guided by :  
**Anyam Venkata Srinivas,**  
Assistant Professor,  
CSE Department,  
Sreyas Institute of Engineering and Technology

Date: 30th NOV to 6th DEC ,2021  
Timings: 6.30 PM TO 8PM  
Register at : <https://forms.gle/Gx8KQAX5AD8Q6o568>

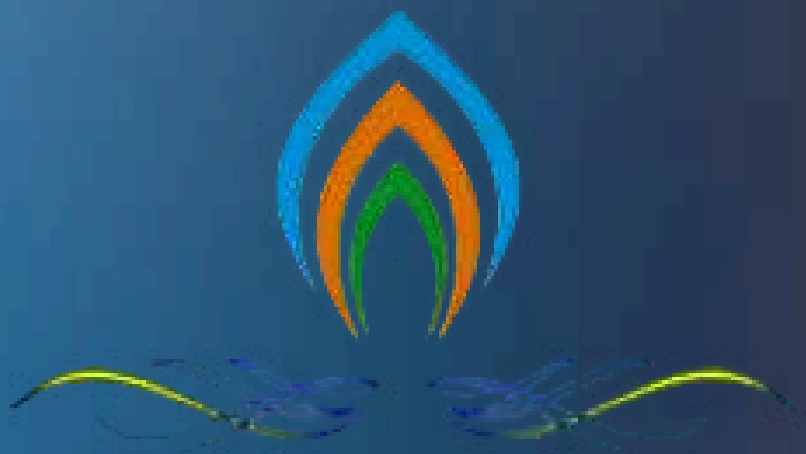
## Python Data Structures Workshop (2021)

The IEEE Sreyas Student Branch, in association with the IEEE Education Society, organized a 7-day workshop on "Programming Using Python Data Structures" from 30th November to 6th December 2021, held daily from 6:30 PM to 8:00 PM.

The sessions were guided by Mr. Anyam Venkata Srinivas, Assistant Professor, CSE Department, Sreyas Institute of Engineering and Technology.

The workshop focused on building strong fundamentals in Python and data structures through hands-on coding and interactive learning. It received great participation from students, enhancing their programming skills and preparing them for technical challenges ahead.





# **WORLD CLASS TECHNICAL CAMPUS**

## **-WITHIN THE CITY**



### **Editorial Board**

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<b>Head of the Department :</b>	<b>Dr. N. Murali Krishna, PhD. , Professor</b> <b>Ph: 9885837534, E-mail: muralikrishna.n@sreyas.ac.in</b>
<b>Editor In-Charge :</b>	<b>Mr. B. Sreenivasu, (PhD. ) ISTE, IETE, MISTE, Associate Professor</b> <b>Ph:9502251564, E-mail:srinivasu.b@sreyas.ac.in</b>
<b>Faculty Coordinator :</b>	<b>Mr .G. Vijay Goud , M Tech - ACS , Associate Professor</b> <b>Ph: 9652083332, E-mail: vijay.g@sreyas.ac.in</b>
<b>Student Coordinator :</b>	<b>C. Surendra Mahitha, 19VE1A0469</b> <b>B. Akhila, 19VE1A04C9</b> <b>G. Rachana, 20VE1A0408</b> <b>R. Dharma Teja, 20VE1A0440</b> <b>B. K. Anupam Mohan, 21VE1A04A0</b>

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