S.A. ENGINEERING COLLEGE
(An Autonomous Institution Affiliated to Anna University Chennai)
Accredited by NAAC with 'A' Grade & ISO 9001:2015 Certified Institution
Poonamalle-Avadi Main road, Thiruverkadu post ,Chennai-600077

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year of 1998 with an aim of creating quality Engineers with sound technical knowledge and awareness of the latest advancements in existing and emerging technologies. Major highlights in the department include "Centre of Excellence in Automation and Robotics". Department of ECE is very keen in undertaking research projects and consultancy projects from organization like ISRO, CVRDE, etc. The department is recognized research Centre of Anna University, Chennai.

Courses offered:

- B.E Electronics and Communication Engineering
- M.E Communication Systems

OUR VISION

To achieve overall excellence in education by continuously upgrading the teaching learning process and incorporating latest technological advancements happening worldwide with ethical responsibilities.

OUR MISSION

- To impart sound diversified technical competency and quality education for students to enhance the employability and ethical values.
- To provide conducive environment for faculty and students with excellent facilities to improve research activity.

R & D PROPOSALS GRANTED

- ✓ Two Days National Level Seminar On **"Clinical Advancements of Bio-Inspired Nanoparticles in Cancer Theranostics"** has been successfully conducted on **16-11-2023 & 17-11-2023** Sponsored by Board of Research in Nuclear Sciences (BRNS).

National level Seminar
on
"Clinical Advancements of Bio- Inspired Nanoparticles in Cancer Theranostics"

16.11.2023 to 17.11.2023

Sponsored by

BOARD OF RESEARCH IN NUCLEAR SCIENCES (BRNS)

Convener
Dr.R.Radhika, Prof./ECE

Co Convener
Mr.M.Maria Rubiston, Asst. Prof./ECE

Organized by
Department of Electronics and Communication Engineering

S.A. ENGINEERING COLLEGE
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Poonamallee –Avadi Main Road
Thiruverkadu, Chennai – 600 077.
Tamilnadu, India.
Phone : 044 -2680 1999, 2680 1499
Web : www.saec.ac.in

- ✓ Two Days Level National Level Seminar On **"Technological upgradation for Improved Efficiency in Broadband Wireless Systems"** has been successfully conducted on **14.12.2023 & 15.12.2023** Sponsored by Board of Research in Nuclear Sciences

National level Seminar
on
"Technological upgradation for Improved Efficiency in Broadband Wireless Systems"
14.12.2023 to 15.12.2023

Sponsored by
Science and Engineering Research Board
(SERB)

Convener
Dr.R.Radhika, Prof./ECE

Co Conveners
Mr.M.Maria Rubiston, Asst. Prof./ECE
Dr.T.Annalakshmi, Asso. Prof./ECE

Organized by
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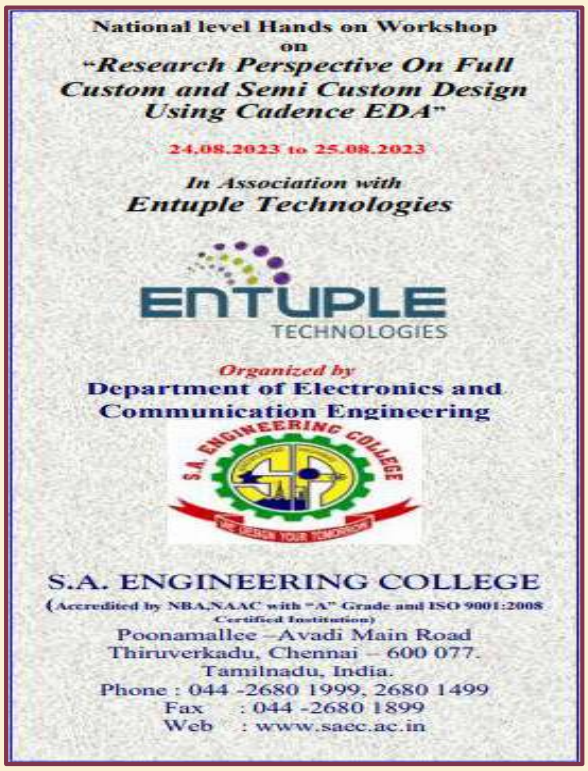
WORKSHOP



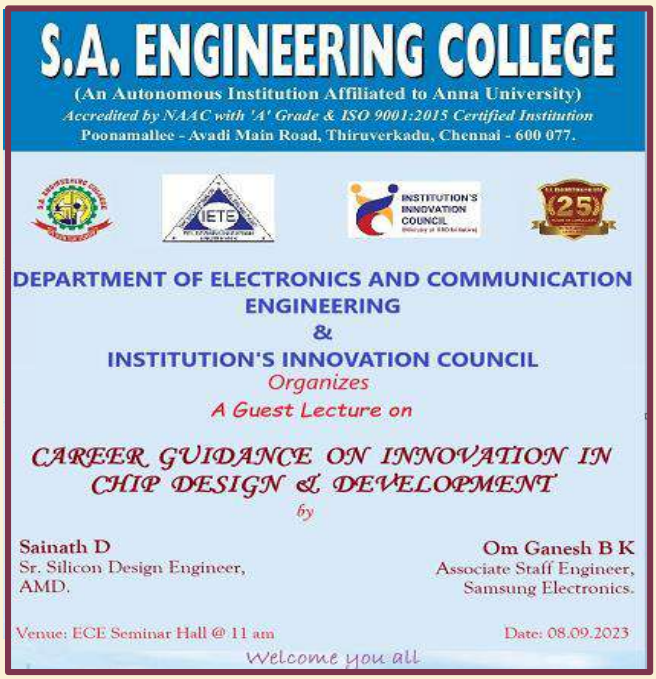
The Department of ECE Organized a National level hands-on workshop on **"Research Perspective On Full Custom and Semi-Custom Design Using Cadence EDA"** from August 24.08.2023 to 25.08.2023 in association with Entuple Technologies.

The Department of ECE organized a Five Days International online workshop on **"Smart Antenna - The design perspective using CST Studio Suite Software"** from 9.10.23 to 13.10.23.

EVENTS ORGANISED BY ECE DEPARTMENT

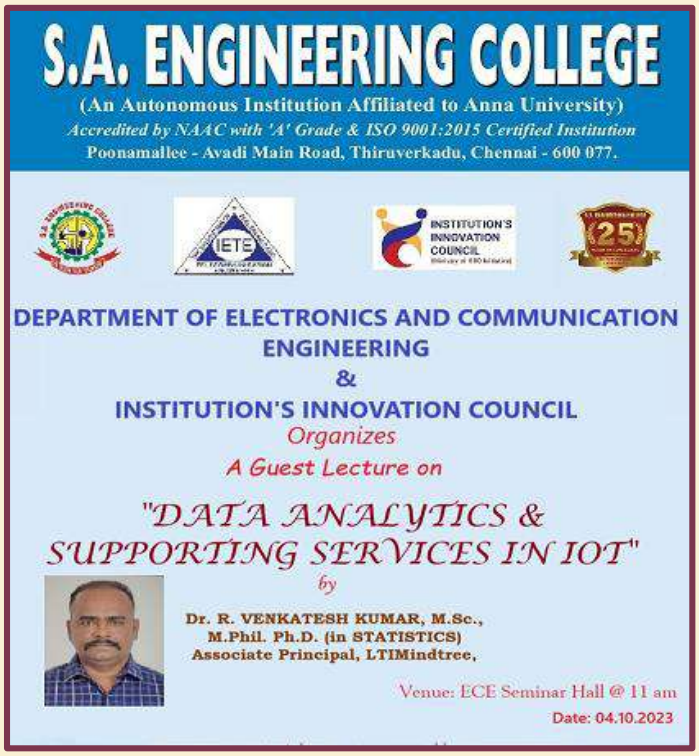
GUEST LECTURE

Guest Lecture on **"CAREER GUIDANCE ON INNOVATION IN CHIP DESIGN & DEVELOPMENT"** organized by ECE Department for II, III, IV year students on 29.8.23, Guest Speaker **Mr. D. Sainath.,** Senior Silicon Design Engineer, AMD.

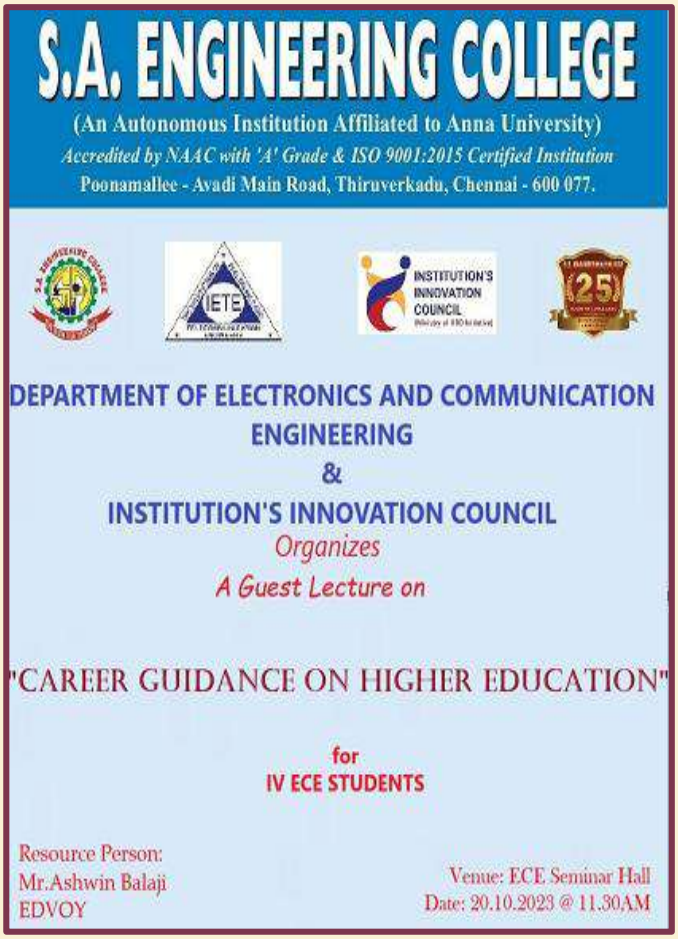


Guest Lecture on **"TRANSMISSION LINES PERCEPTION IN FUTURE"** organized by ECE Department for III, IV year students on 04.10.23, Guest Speaker Dr. K.J.Jegadish Kumar, Associate Professor, SSN College of Engineering , Chennai.

Guest Lecture on **"DATA ANALYTICS AND SUPPORTING SERVICES IN IOT"** organized by ECE Department for IV year students on 04.10.23, Guest Speaker Dr. VENKATESH KUMAR, Associate Director, LTI Mind tree.



Guest Lecture on **"CAREER GUIDANCE ON HIGHER EDUCATION"** organized by ECE Department for IV year students on 04.10.23, Guest Speaker Mr.Ashwin Balaji, Associate Director, DEVOY.



Guest Lecture on **"INTERNET OF THINGS"** organized by ECE Department for II year students on 25.10.23, Guest Speaker Mr E.Arun Kumar, Vice President, RETECH Solutions.

Guest Lecture on **"DESIGN, ANALYSIS & APLLICATIONS OF PATCH ANTENNAS"** organized by ECE Department for III year students on 03.11.23, Guest Speaker Dr. P. Sumithra, NPDF, IIT MADRAS.

Guest Lecture on **"SMART AI PRODUCT DEVELOPMENT USING SIGNALS"** organized by ECE Department for II year students on 24.11.23, Guest Speaker Dr. T. K. SENTHILKUMAR, SENIOR DATA SCIENTIST, NYBL, DUBAI.

CARRIER GUIDANCE
ALUMNI INTERACTION

Department of ECE organized carrier guidance program **"INCULCATING YOUNG MINDS (IYM – 2023)"** on 29.12.2023.

INDUSTRIAL VISIT

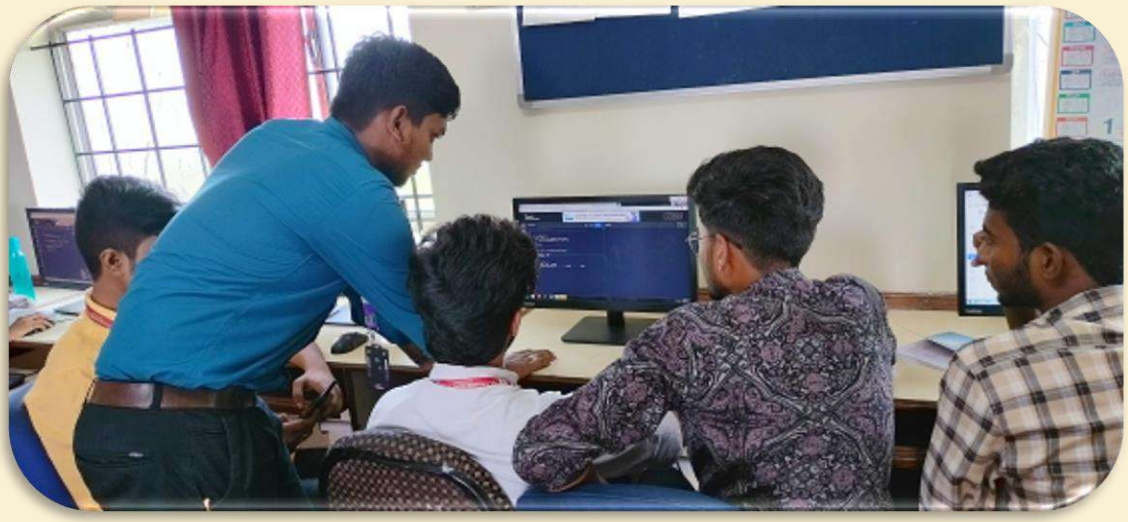
- III Year ECE Students went on an Industrial visit to **"NETWORK GEEK"** 23.08.2023 to 25.08.2023.
- Industrial visit to **"RETECH SOLUTIONS"** was organized for our II year A, B, & C Sec students on 06th and 27th October 2023.
- Industrial visit to **"RETECH SOLUTIONS"** was organized for our IV year A, B Sec students on 06th and 25th October 2023.

VALUE ADDED COURSES

Department of ECE organized six days Value Added Courses for II year ECE students entitled **"Python"** by Dynamic CAD CAM CAE from 30-10-23 to 06-11-23.

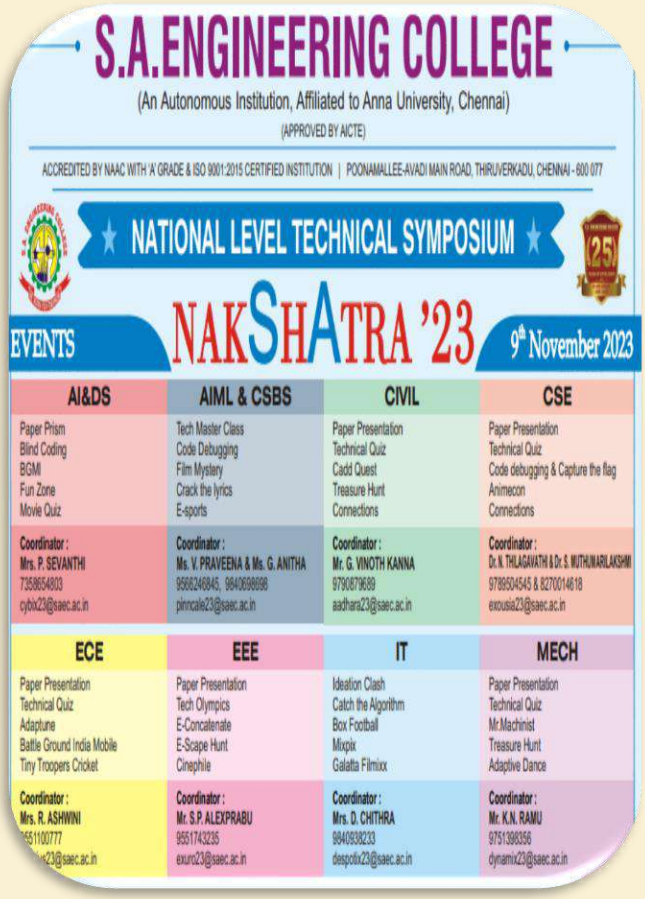
Department of ECE organized six days Value Added Courses for III year ECE students entitled **"Python with Data Structure"** by Dynamic CAD CAM CAE from 16.08.23 to 22.09.23.

Department of ECE organized six days Value Added Course for IV year ECE students entitled **"Basics of C, C++, and Java"** by BEEJA Academy from 19.9.23 to 26.9.23.



SYMPOSIUM

National level Technical Symposium **NAKSHATRA 23** by Conducting Various events such as Paper Presentation, Technical Quiz, Adaptune, Battle Ground, Tiny Troopers etc.



STUDENTS PARTICIPATION IN EXTRA – CURRICULAR ACTIVITIES

II Year ECE B students Dilip Kumar, Srimaan, Samyuktha had taken part in the **"Technical Symposium"** at the Chennai Institute of Technology and had won the **First Prize** in the competition for Project Presentation in Machine Learning (MAGNUS), which was held on 23.09.2023.

III year ECE students took part in a **"Technical Symposium"** sponsored at St. Joseph College of Engineering and placed **First Prize** in a technical quiz competition on 22.09.2023.

Students from the ECE III year had taken part in the **"Technical symposium"** sponsored by Dr. MGR University and won **First Place** in the technical quiz competition on 23.09.2023.

HACKATHON

Seven batches from the ECE Department were chosen out of nine batches to participate in the Smart India Hackathon 2023 through an Internal Hackathon organized by the department of EEE on September 14.09.2023.

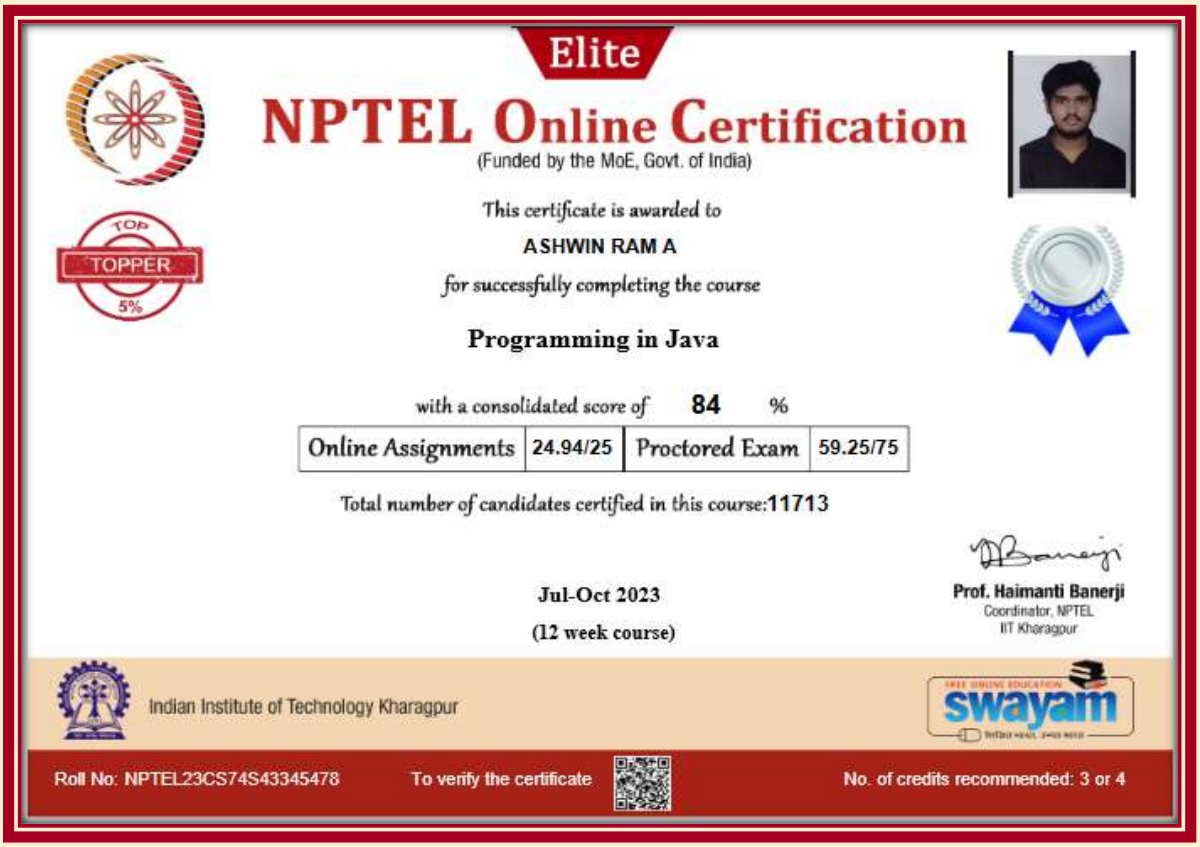
Our College Chess Men Team Achieved Third Place in Anna University Zone-1 Chess Tournament Held at Sriram Engineering College On 25.09.23.

Our College Table Tennis Women's Team Secured Winner in Anna University Zone -1 Tournament Held in Our College On 27.09.2023.

Our College Table Tennis Men Team Secured Winner in Anna University Zone -1 Tournament Held in Our College On 27.09.2023.

NPTEL TOPPERS

- **Mr.ASWIN RAM.A., of III Year ECE** is the National Topper with Elite + Silver has been positioned among the top 5% of the candidates who cleared the course **"Programming in Java"** in NPTEL – Nov 2023.


Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

ASHWIN RAM A

for successfully completing the course

Programming in Java

with a consolidated score of 84 %

Online Assignments	24.94/25	Proctored Exam	59.25/75

Total number of candidates certified in this course:11713

Jul-Oct 2023

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

TOP TOPPER 5%

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL23CS74S43345478 To verify the certificate No. of credits recommended: 3 or 4

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DINESH S

for successfully completing the course

System Design Through Verilog

with a consolidated score of **85** %

Online Assignments	22.42/25	Proctored Exam	62.24/75

Total number of candidates certified in this course: **1417**

Jul-Sep 2023

(8 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

Indian Institute of Technology Guwahati

Roll No: NPTEL23EE88S45321386 To verify the certificate No. of credits recommended: 2 or 3

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

T S THAARANI

for successfully completing the course

Programming in Java

with a consolidated score of **80** %

Online Assignments	24.41/25	Proctored Exam	55.25/75

Total number of candidates certified in this course:**11713**

Jul-Oct 2023

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL23CS74S93340833 To verify the certificate No. of credits recommended: 3 or 4

FACULTY ACHEIVEMENTS

R&D GRANTS

Dr.R.Radhika, Mr.M.Maria Rubiston & Dr.T.Annalakshmi have Received Grant of **Rs.75,000/-** from SERB to organize National Level Seminar entitled "Technological upgradation for Improved Efficiency in Broadband Wireless Systems".

Dr.R.Radhika, Mr.M.Maria Rubiston have Received grant of Rs 50,000/- from BRNS for conducting workshop on "Clinical Advancements of Bio-Inspired Nanoparticles in cancer theranostics".

NPTEL TOPPERS

- **Dr. S. Suvitha.,** Associate Professor / ECE is the National Topper with Elite + Gold has been positioned among the top 2% of the candidates who cleared the course "**Accreditation and Outcome based learning"** in NPTEL – Nov 2023.

- **Ms.K.M.Dhanalakshmi.,** Associate Professor/ECE is the National Topper with Elite + Gold has been positioned among the top 5% of the candidates who cleared the course "**Accreditation and Outcome based learning"** in NPTEL – Nov 2023.

- **Ms.M.Ramya.,** Assistant Professor/ECE is the National Topper with Elite + Gold has been positioned among the top 2% of the candidates who cleared the course "**Accreditation and Outcome based learning"** in NPTEL – Nov 2023.

- **Ms.K.Mekala Devi.,** Assistant Professor/ECE is the National Topper with Elite + Gold has been positioned among the top 5% of the candidates who cleared the course "**Accreditation and Outcome based learning"** in NPTEL – Nov 2023.

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DR S SUVITHA

for successfully completing the course

Accreditation and Outcome Based Learning

with a consolidated score of **92** %

Online Assignments	22.5/25	Proctored Exam	69.59/75

Total number of candidates certified in this course: **1356**

Aug-Oct 2023

(8 week course)

Prof. Haimanti Banerji
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

RAMYA M

for successfully completing the course

Accreditation and Outcome Based Learning

with a consolidated score of **92** %

Online Assignments	23.75/25	Proctored Exam	68.04/75

Total number of candidates certified in this course: **1356**

Aug-Oct 2023

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL23GE46S103343786 To verify the certificate No. of credits recommended: 2 or 3

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

K M DHANALAKSHMI

for successfully completing the course

Accreditation and Outcome Based Learning

with a consolidated score of **91** %

Online Assignments	21.25/25	Proctored Exam	69.59/75

Total number of candidates certified in this course: **1356**

Aug-Oct 2023

(8 week course)

Prof. Haimanti Banerji
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

MEKALA DEVI K

for successfully completing the course

Accreditation and Outcome Based Learning

with a consolidated score of **90** %

Online Assignments	21.25/25	Proctored Exam	68.81/75

Total number of candidates certified in this course: **1356**

Aug-Oct 2023

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

PROGRAMME EDUCATIONAL OBJECTIVES

- *Our graduate Engineers will have diversified professional competency in Electronics and Communication Engineering and allied technologies with good foundation in Mathematics and basic sciences.*
- *Our graduates will possess lifelong learning process and augment their engineering skills for new challenges with sustainability.*
- *Our graduates will have effective communication skills and work in Multidisciplinary team with critical thinking.*
- *Our graduates will practice the profession with ethics, integrity, leadership and social responsibility.*

PROGRAMME SPECIFIC OUTCOMES (PSO)

- *To inculcate the ability to design quality products and to develop solutions which suits the real time societal needs by applying modern tools and the best universal practices.*
- *To define and adhere the communication standards leading towards green communication.*
- *To adapt to emerging Information and Communication Technologies (ICT) and to innovate ideas and solutions for the existing/ novel problems*

EDITORIAL BOARD

Dr.B.R.TAPAS BAPU	Professor & Head/ECE
Dr.M.GOMATHI	Assistant Professor/ECE
Mr.SHAMNUGAVEL	IV ECE B
Mr. SHAIK RAHIMAN	III ECE B
Mr.SANTHOSH.U	III ECE B
Ms.BINDHUSHREE	II ECE B