



# SSMIET

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## NEWS LETTER

(JULY TO DECEMBER 2024)

### EXECUTIVE COMMITTEE

#### CONVENORS

Dr.D.Senthilkumaran, Principal

Dr.S.Karthigai Lakshmi, Professor & Head.

#### EDITORIAL BOARD

Mr.R.Carol Praveen, AP.

Mrs.K.Moniga,AP.

#### STUDENT MEMBERS

Divya N (Final Year)

Priya M (Final Year)

Lakshitha Sri B (Third Year)

Nesa Sheeba J (Third Year)

Viji M (Second Year)

Narmada T (Second Year)

Department of Electronics and  
Communication Engineering  
SSM Institute of Engineering & Technology,  
Sindalagundu Post,  
Dindigul- 624002.  
Tamilnadu  
[hodecessmiet@gmail.com](mailto:hodecessmiet@gmail.com)

### About the Department

The Department of Electronics and Communication Engineering was established in the year 2011 with an intake of 60 undergraduate students. Since then, the department has come a long way and is now regarded as one of the premiere departments of the institution with an intake of 120 undergraduate students and 18 post graduate students per year.

It is equipped with outstanding infrastructure and boasts of a unit of 26 young and dynamic faculty members and sincere staff who work with zeal and enthusiasm to provide a vibrant and optimum learning environment to the students and help them acquire the skills which are required to excel in today's competitive environment.

The Department has four recognized research guides under Anna University, Chennai. At present ten internal research candidates and two external research candidates are pursuing their Ph.D. program under the Department of Electronics and Communication Engineering. The department believes in serious academic pursuit and encourages radical and original thinking which paves the way for creativity and innovative ideas. The qualities inculcated into the students make them not only good engineers but good human beings also. The excellent placement record which has been consistently above 80 % for the past several years, alone of our students is ample testimony to the emphasis that has been placed on the industrial needs of our country.

**Vision:**

To empower students with essential skills in engineering by imparting in-depth conceptual knowledge in Electronics and Communication Engineering domain to meet technological excellence, professional commitment, and social responsibility.

**Mission:**

To equip students with current trends and latest technologies in the field of Electronics and Communication Engineering through innovation in learning, research, and state of the art laboratories.

To establish a conducive environment for the students to develop professionalism, leadership qualities, and entrepreneurial skills with high ethical standards for self and social development.

To equip students to provide appropriate solutions with their conceptual knowledge to address societal needs.

**Industrial Visits**

| <b>S.No.</b> | <b>Name of the Industry</b>  | <b>Place</b> | <b>Year (Students)</b> | <b>Department</b> | <b>Date/Duration</b>    |
|--------------|--|--------------|------------------------|-------------------|-------------------------|
| 1.           | Kerala Electrical & Allied Eng.Co,Ltd and Spectrum Soft tech Solutions | Kerala       | IV                     | ECE               | 16.11.2024 & 17.11.2024 |
| 2.           | Leepra Technology Pvt., Ltd., and Kaynes Technology Pvt., Ltd.,        | Mysore       | III                    | ECE               | 29.11.2024 & 30.11.2024 |



Thiruvaniyoor, Kerala, India  
St. George Shrine, Mamala, Thiruvaniyoor, Kerala 682305, India  
Lat 9.94865° Long 76.382903°  
16/11/24 12:39 PM GMT +05:30

IV year ECE students and faculties visited **Kerala Electrical & Allied Eng.Co,Ltd**, Kerala on 16-11-2024.



Mysuru, Karnataka, India  
1st floor , KSSIDC Industrial Estate, Hebbal Industrial Estate, Hebbal Industrial Area,  
Mysuru, Karnataka 570016, India  
Lat 12.359794°  
Long 76.621548°  
29/11/24 11:48 AM GMT +05:30

III year ECE students and faculties visited **Leepra Technology India Pvt. Ltd**, Mysore on 29-11-2024.



III year ECE students and faculties visited **Kaynes Technology India Pvt. Ltd**, Mysore on 29-11-2024.



**ATAL – Basic FDP** organized by ECE department from 09.12.2024 to 14.12.2024. Faculties from Different Colleges Participated and get benefitted from this FDP.



ATAL based One Day Faculty Industrial Visit to **Siemens Centre of Excellence in Manufacturing Lab** NIT, Trichy.

## Students Activities

### Paper Presentation

| S.No | Name of the Student | Year | Dept. | Program Details | Place   | Date/Duration |
|------|---------------------|------|-------|-----------------|---|---------------|
| 1.   | ASHMITA M           | III  | ECE   | Tech Symposium  | Hindustan College of Engineering and Technology | 19.09.2024    |
| 2.   | ANANYA S            | III  | ECE   | Tech Symposium  | Hindustan College of Engineering and Technology | 19.09.2024    |
| 3.   | JINETTA SHREE G J   | III  | ECE   | Tech Symposium  | Hindustan College of Engineering and Technology | 19.09.2024    |
| 4.   | ASMITHAA S          | III  | ECE   | Tech Symposium  | Hindustan College of Engineering and Technology | 19.09.2024    |
| 5.   | DHARINI SRI K       | III  | ECE   | Tech Symposium  | Hindustan College of Engineering and Technology | 19.09.2024    |
| 6.   | KARTHI KEYAN M      | III  | ECE   | Tech Symposium  | Hindustan College of Engineering and Technology | 19.09.2024    |
| 7.   | ABDUL WAHITH J      | III  | ECE   | Tech Symposium  | Hindustan College of Engineering and Technology | 19.09.2024    |
| 8.   | FRANCIS MARIA RUBAN | III  | ECE   | Tech Symposium  | Hindustan College of Engineering and            | 19.09.2024    |

|     |                   |     |     |                |   |            |
|-----|-------------------|-----|-----|----------------|---|------------|
|     | P                 |     |     |                | Technology                                      |            |
| 9.  | AJAY KRISHNA S    | III | ECE | Tech Symposium | Hindustan College of Engineering and Technology | 19.09.2024 |
| 10. | AJAY D            | III | ECE | Tech Symposium | Hindustan College of Engineering and Technology | 19.09.2024 |
| 11. | ASHMITA M         | III | ECE | Tech Symposium | Kongunadu College of Engineering and Technology | 21.09.2024 |
| 12. | DHARINI SRI K     | III | ECE | Tech Symposium | Kongunadu College of Engineering and Technology | 21.09.2024 |
| 13. | JINETTA SHREE G J | III | ECE | Tech Symposium | Kongunadu College of Engineering and Technology | 21.09.2024 |
| 14. | ABISHEK A         | II  | ECE | Tech Symposium | PSNA College of Engineering and Technology      | 28.10.2024 |
| 15. | AINGARAN R        | II  | ECE | Tech Symposium | PSNA College of Engineering and Technology      | 28.10.2024 |
| 16. | NAVITHA SRI M     | II  | ECE | Tech Symposium | PSNA College of Engineering and Technology      | 28.10.2024 |
| 17. | NAVEENA M         | II  | ECE | Tech Symposium | PSNA College of Engineering and Technology      | 28.10.2024 |
| 18. | HARINI S          | II  | ECE | Tech Symposium | PSNA College of Engineering and Technology      | 28.10.2024 |

### **Students Achievements (Co and Extra Curricular)**

| S. No | Name of the Student | Year | Dept. | Description                              | Venue                  | Date       | Prize |
|-------|---------------------|------|-------|--|------------------------|------------|-------|
| 1     | RITTHIKA S          | II   | ECE   | National Space Day- Project Presentation | Kodaikanal Observatory | 23.08.2024 | First |
| 2     | SHAJITHA BEGUM U    | II   | ECE   | National Space Day- Project Presentation | Kodaikanal Observatory | 23.08.2024 | First |
| 3     | KAVIBHARATHI B      | II   | ECE   | National Space Day- Project Presentation | Kodaikanal Observatory | 23.08.2024 | First |
| 4     | RENITH SOWMIYA M    | II   | ECE   | National Space Day- Project Presentation | Kodaikanal Observatory | 23.08.2024 | First |
| 5     | SRINIDHI M          | II   | ECE   | National Space Day- Project Presentation | Kodaikanal Observatory | 23.08.2024 | First |

|    |                           |    |     |  |  |                       |   |
|----|---------------------------|----|-----|--|--|-----------------------|---|
| 7  | ROBIN J J                 | IV | ECE | Project Expo-<br>in Technovista<br>'23 | Sri Eshwar<br>College of<br>Engineering<br>,Coimbatore | 08.09.24-<br>09.09.24 | Second Place                            |
| 8  | MOHAMED<br>SULAIMAN       | IV | ECE | Project Expo-<br>in Technovista<br>'23 | Sri Eshwar<br>College of<br>Engineering<br>,Coimbatore | 08.09.24-<br>09.09.24 | Second Place                            |
| 9  | MUTHUVEL M                | IV | ECE | Project Expo-<br>in Technovista<br>'23 | Sri Eshwar<br>College of<br>Engineering<br>,Coimbatore | 08.09.24-<br>09.09.24 | Second Place                            |
| 10 | SUBASH<br>NATRAYAN<br>R.M | IV | ECE | Product pitch                          | Sri Eshwar<br>College of<br>Engineering<br>,Coimbatore | 08.09.24-<br>09.09.24 | Second Place<br>Cash prize-<br>Rs.500/- |

### Training Programs for Students (Technology Training)

| S.N<br>o. | Name of the<br>Activity     | Year | Venue           | Expert's Detail (Name, Company<br>name & Place)                                      | Date/Duration    |
|-----------|-----------------------------|------|-----------------|--|------------------|
| 1         | Digital<br>Twin             | III  | Networks<br>Lab | Mr.Ashokkumar Manisekaran, Praya<br>Labs,Tiruvannaamalai.                            | 14.10.2024       |
| 2         | Foundation<br>Course on IoT | III  | DSP/VLSI<br>Lab | Mr.Prakash Chandra Joshua, SkillsDA –<br>INGU's KnowledgeAcademy Pvt.Ltd,<br>Chennai | To<br>19.10.2024 |

### **Faculty Activities**

#### FDP Attended

| S.No. | Faculty name         | Program/Course   | Organization  | Duration                   |
|-------|----------------------|--|---|----------------------------|
| 1     | Dr.R.Carol Praveen   | MATLAB for Image<br>Analysis and Pattern<br>Recognition : From<br>Fundamentals to Advanced<br>Applications | JAYPEE UNIVERSITY<br>OF INFORMATION<br>TECHNOLOGY,Waknagh<br>at, P.O. Waknaghat, Teh<br>Kandaghat, Distt. Solan<br>PIN-173 234 (H.P.) | 02.09.24 –<br>06.09.24     |
| 2     | Dr.K.Ganapriya       | ADAS ECU – Simulation<br>and Testing   | Anna University, Dindigul.  | 29.07.2024 –<br>03.08.2024 |
| 3     | Mr. J.Vetrimanikumar | Next Generation Embedded<br>Systems  | IIC& IEEE MTTs,<br>Rajalakshmi Engineering<br>College,Chennai   | 09.09.2024 –<br>14.09.2024 |
|       |                      | MATLAB for Image<br>Analysis and Pattern<br>Recognition : From<br>Fundamentals to Advanced<br>Applications | C-DAC , Electronics and<br>ICT Academy  | 02.09.2024 –<br>06.09.2024 |

|    |                             |   |   |                         |
|----|-----------------------------|---|---|-------------------------|
|    |                             | "Current Trends in IT Industry"   | Sri Venkateswara College of Engineering                 | 21.10.2024 – 25.10.2024 |
| 4  | Mrs.A.Geetha                | Advancing Green Communication: Research Perspectives in Sustainable Optical Wireless Technology               | ATAL – SSMIET   | 09.12.2024 – 14.12.2024 |
| 5  | Mrs.G.Saranya               | Advancing Green Communication: Research Perspectives in Sustainable Optical Wireless Technology               | ATAL – SSMIET   | 09.12.2024 – 14.12.2024 |
| 6  | Mr. R.Senthil Kumar         | Advancing Green Communication: Research Perspectives in Sustainable Optical Wireless Technology               | ATAL – SSMIET   | 09.12.2024 – 14.12.2024 |
|    |                             | MATLAB for image analysis and pattern Recognition:from fundamentals to advanced applications                  | C-DAC , Electronics and ICT Academy                     | 02.09.2024 – 06.09.2024 |
| 7  | Mrs.K.Moniga                | Next Generation Embedded System   | IIC& IEEE MTTS, Rajalakshmi Engineering College,Chennai | 09.09.2024 – 14.09.2024 |
|    |                             | Advancing Green Communication: Research Perspectives in Sustainable Optical Wireless Technology               | ATAL – SSMIET   | 09.12.2024 – 14.12.2024 |
| 8  | Mrs.R.Sudha                 | Advancing Green Communication: Research Perspectives in Sustainable Optical Wireless Technology               | ATAL – SSMIET   | 09.12.2024 – 14.12.2024 |
| 9  | Mrs.E.Thangadeepiga         | Reconfigurable Intelligent Surfaces for 6G Wireless Communication: Fundamentals to Future Research Directions | ATAL - NIT, Trichy                                      | 23.12.2024 – 28.12.2024 |
|    |                             | Advancing Green Communication: Research Perspectives in Sustainable Optical Wireless Technology               | ATAL – SSMIET   | 09.12.2024 – 14.12.2024 |
| 10 | Mrs. A.Arockia Helen Sushma | Advancing Green Communication: Research Perspectives in Sustainable Optical Wireless Technology               | ATAL – SSMIET   | 09.12.2024 – 14.12.2024 |



## Workshop attended

| S.No. | Faculty name                  | Title   | Organization                                  | Duration                  |
|-------|-------------------------------|---|---|---------------------------|
| 1     | Mrs.G.Rajarajeshwari          | Recent Advancement in VLSI Design for IoT Applications (RAVI-2024)  | National Institute of Technology, Kurukshetra | 19.07.2024 - 23.07.2024   |
| 2     | Mrs.K.Moniga                  | Basic Research Essentials   | CEDAAR  | 06.09.2024 – 07.09.2024   |
|       |                               | I Robotics  | Artificial Intelligence                       | 25/11/2024                |
| 3     | Mrs.R.Sudha                   | Basic Research Essentials   | CEDAAR  | 06.09.2024 – 07.09.2024   |
|       |                               | I Robotics  | Artificial Intelligence                       | 25/11/2024                |
| 4     | Mrs. S.Keerthana              | Internship on Digital and Analog Sensors Signal Control of Smart Devices Using Wireless Communication Technologies specially in IoT | Dolphin Automation, Coimbatore                | 24.12.2024 - 28.12.2024   |
| 5     | Mrs.A.AROCKIA<br>HELEN SUSHMA | Overview of global navigation satellite system  | ISRO  | 23.09.2024-<br>04.10.2024 |
| 6     | Mr.J.Vetrimanikumar           | “Overview of Global Navigation Satellite System”  | ISRO  | 23.09.2024-<br>04.10.2024 |
|       |                               | English for Common Interactions in the Workplace: Basic Level   | Coursera                                      | 21.9.2024                 |

## Sponsored Research Projects (Students Project Scheme 23-24)

| S.No | Faculty Name    | Students Name                                 | Title  | Amount    |
|------|-----------------|---|--|-----------|
| 1    | Mrs.S.Keerthana | Rasitha Mariyam<br>K, Reena V,<br>Sabitha M V | Illuminating Growth: The design of an indoor plant monitoring system using visible light communication | Rs.7500/- |

## Funds received from ATAL:

| Faculty Name                                 | Title   | Duration                    | Amount     |
|--|---|-----------------------------|------------|
| Dr. S.Karthigai Lakshmi &<br>Mrs.S.Keerthana | Advancing Green Communication: Research Perspectives in sustainable Optical Wireless Technology | 09.12.2024 to<br>14.12.2024 | 3,50,000/- |

## MoU Signed Company:

| Faculty Name              | Name of the Company        | MoU Signed Date |
|---------------------------|----------------------------|-----------------|
| Dr.K.Ganapriya & K.Moniga | PRAYA LABS, Tiruvannamalai | 04.10.2024      |

## Paper Publication:

| S. No | Name of the Author  | Designation         | Dept. | Journal Name   | Month & Year    | Topic   |
|-------|---|---------------------|-------|--|-----------------|---|
| 1     | Dr.K.Ganapriya,G.Sasi,<br>D.Faritha banu,<br>G.Sathya,K.Usharani,<br>R.Sudha                    | Assistant Professor | ECE   | AIP conference Proceedings, ScopuS.  | October 11/2024 | Sensor based surveillance for natural disaster                                    |
| 2     | Manikandan, V.<br>Femina, J.<br>Vetrimanikumar, S. D.<br>Vijayakumar, V.<br>Karthi and V. Kumar | Assistant Professor | ECE   | IEEE 2024 International Conference on Advancements in Power, Communication and Intelligent Systems (APCI), KANNUR, India | August & 2024   | Performance Analysis of Textile Substrates adopted in Wearable Antennas: A Review |
| 3     | Manikandan, J.<br>Jenisha, V. Srinath, P.<br>Rajasekaran and V.<br>Femina                       | Assistant Professor | ECE   | IEEE 2024 10th International Conference on Advanced Computing and Communication Systems (ICACCS), Coimbatore, India      | October&2024    | Textile Substrate Materials for Wearable Antenna Applications: A Review           |

## NPTEL Courses by Faculty

| S.no | Name of Faculty        | No of courses successfully completed | course name                              | Course Duration | No of Weeks |
|------|------------------------|--------------------------------------|--|-----------------|-------------|
| 1    | Dr.S.Karthigai Lakshmi | 1 (EVEN)                             | Accreditation and Outcome Based Learning | Aug – Oct 2024  | 8 Weeks     |
| 2    | Dr.R.CarolPraveen      | 1 (EVEN)                             | Accreditation and Outcome Based Learning | Aug – Oct 2024  | 8 Weeks     |
| 3    | Dr.M.Manikandan        | 2 (EVEN)                             | Accreditation and Outcome Based Learning | Aug –Oct 2024   | 8 Weeks     |
|      |                        |                                      | Introduction to                          |                 | 8 Weeks     |

|    |                              |             |  |                   |          |
|----|------------------------------|-------------|--|-------------------|----------|
|    |                              |             | Machine Learning<br>(Tamil)                    |                   |          |
| 4  | Dr.K.Ganapriya               | 1<br>(EVEN) | Introduction to<br>Internet of Things          | Jul-Oct<br>2024   | 12 Weeks |
| 5  | Mrs. A.Geetha                | 1<br>(EVEN) | Accreditation and<br>Outcome Based<br>Learning | Aug – Oct<br>2024 | 8 Weeks  |
| 6  | Mr.V.P.JayFantin             | 1<br>(EVEN) | Technical English for<br>Engineers             | Aug – Oct<br>2024 | 8 Weeks  |
| 7  | Mr.R.Senthil Kumar           | 1<br>(EVEN) | Accreditation and<br>Outcome Based<br>Learning | Aug – Oct<br>2024 | 8 Weeks  |
| 8  | Mr.K.S.Arunkumar             | 1<br>(EVEN) | Accreditation and<br>Outcome Based<br>Learning | Aug – Oct<br>2024 | 8 Weeks  |
| 9  | Mr. J.Vetri ManiKumar        | 1<br>(EVEN) | Accreditation and<br>Outcome Based<br>Learning | Aug – Oct<br>2024 | 8 Weeks  |
| 10 | Mrs.G.Saranya                | 1<br>(EVEN) | Accreditation and<br>Outcome Based<br>Learning | Aug – Oct<br>2024 | 8 Weeks  |
| 11 | Mrs.K.Divya                  | 1<br>(EVEN) | Introduction to<br>Internet of Things          | July-Oct<br>2024  | 12 Weeks |
| 12 | Mrs.K.Moniga                 | 1<br>(EVEN) | Introduction to<br>Internet of Things          | July-oct<br>2024  | 12 Weeks |
| 13 | Mrs.R.Sudha                  | 1<br>(EVEN) | Introduction to<br>Internet of Things          | July-oct<br>2024  | 12 Weeks |
| 14 | Mrs.E.ThangaDeepika          | 1<br>(EVEN) | Accreditation and<br>Outcome Based<br>Learning | Aug – Oct<br>2024 | 8 Weeks  |
| 15 | Mrs.A.ArockiaHelen<br>Sushma | 1<br>(EVEN) | Accreditation and<br>Outcome Based<br>Learning | Aug – Oct<br>2024 | 8 Weeks  |