



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.

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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,
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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

S.No.	Name of the Industry	Place	Year (Students)	Department	Date/Duration
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



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



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

Training Programs for Students (Technology Training)

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

Faculty Activities

FDP Attended

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

		"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 HELEN SUSHMA	Overview of global navigation satellite system	ISRO	23.09.2024- 04.10.2024
6	Mr.J.Vetrimanikumar	“Overview of Global Navigation Satellite System”	ISRO	23.09.2024- 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 K, Reena V, 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 & Mrs.S.Keerthana	Advancing Green Communication: Research Perspectives in sustainable Optical Wireless Technology	09.12.2024 to 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, D.Faritha banu, G.Sathya,K.Usharani, R.Sudha	Assistant Professor	ECE	AIP conference Proceedings, ScopuS.	October 11/2024	Sensor based surveillance for natural disaster
2	Manikandan, V. Femina, J. Vetrimanikumar, S. D. Vijayakumar, V. 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. Jenisha, V. Srinath, P. Rajasekaran and V. 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 (Tamil)		
4	Dr.K.Ganapriya	1 (EVEN)	Introduction to Internet of Things	Jul-Oct 2024	12 Weeks
5	Mrs. A.Geetha	1 (EVEN)	Accreditation and Outcome Based Learning	Aug – Oct 2024	8 Weeks
6	Mr. V.P.JayFantin	1 (EVEN)	Technical English for Engineers	Aug – Oct 2024	8 Weeks
7	Mr.R.Senthil Kumar	1 (EVEN)	Accreditation and Outcome Based Learning	Aug – Oct 2024	8 Weeks
8	Mr.K.S.Arunkumar	1 (EVEN)	Accreditation and Outcome Based Learning	Aug – Oct 2024	8 Weeks
9	Mr. J.Vetri ManiKumar	1 (EVEN)	Accreditation and Outcome Based Learning	Aug – Oct 2024	8 Weeks
10	Mrs.G.Saranya	1 (EVEN)	Accreditation and Outcome Based Learning	Aug – Oct 2024	8 Weeks
11	Mrs.K.Divya	1 (EVEN)	Introduction to Internet of Things	July-Oct 2024	12 Weeks
12	Mrs.K.Moniga	1 (EVEN)	Introduction to Internet of Things	July-oct 2024	12 Weeks
13	Mrs.R.Sudha	1 (EVEN)	Introduction to Internet of Things	July-oct 2024	12 Weeks
14	Mrs.E.ThangaDeepika	1 (EVEN)	Accreditation and Outcome Based Learning	Aug – Oct 2024	8 Weeks
15	Mrs.A.ArockiaHelen Sushma	1 (EVEN)	Accreditation and Outcome Based Learning	Aug – Oct 2024	8 Weeks