



NEWS LETTER (JULY TO DECEMBER 2023)

**DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING**

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

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.

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

AARTHY K P (FINAL YEAR)

VIJAY RAGUNATH G S (FINAL YEAR)

KARTHIKEYAN J (FINAL YEAR)

DIVYA N (THIRD YEAR)

PRIYA (THIRD YEAR)

LAKSHITHA SRI (SECOND YEAR)

Department of
Electronics and Communication Engineering
SSM Institute of Engineering & Technology,
Sindalagundu Post, Dindigul- 624002. Tamilnadu
hodecessmiet@gmail.com

Industrial Visit



**III year ECE students and faculties visited
Lakshmi Machine Works Limited,Coimbatore on 23-09-2023.**

Students Activities

Paper Presentation

S.No	Name of the Student	Year	Dept.	Program Details	Place	Date/Duration
1	G.KiranChellaperumal	III – A	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
2	S.Balakrishnan	III – A	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
3	Mohammed Sullaiman	III – B	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
4	Sriram	III – C	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
5	SubashNatrayan	III – C	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
6	J.J.Robin	III – B	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
7	M.Muthuvel	III – B	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
8	R.Muruganantham	III – B	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
9	R.Naveen Kumar	III – B	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
10	Pandisakthivel	III – B	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
11	M.Makarish	III – B	ECE	Workshop	Coimbatore	8/9/2023 & 9/9/2023
12	G.S.VijayRagunath	IV – B	ECE	Symposium	Karur	20/9/2023
13	S.TerranceRithik Aron	IV – B	ECE	Symposium	Karur	20/9/2023
14	S.SriSathya Narayanan	IV – B	ECE	Symposium	Karur	20/9/2023
15	R.SubashPandi	IV – B	ECE	Symposium	Karur	20/9/2023
16	R.Pavithra	IV – B	ECE	Symposium	Karur	20/9/2023
17	J.UmaPriyadharshini	IV – B	ECE	Symposium	Karur	20/9/2023
18	S.Sowmya	IV – B	ECE	Symposium	Karur	20/9/2023

19	M.Niranjana	IV – B	ECE	Symposium	Karur	20/9/2023
20	B.Pandimadevi	IV – B	ECE	Symposium	Karur	20/9/2023
21	P.SakthiPriya	IV – B	ECE	Symposium	Karur	20/9/2023
22	S.AlmasMarjiya	III – A	ECE	Symposium	Coimbatore	3/10/2023
23	M.Kiruthiga	III – A	ECE	Symposium	Coimbatore	3/10/2023
24	K.Latha	III – A	ECE	Symposium	Coimbatore	3/10/2023
25	C.Kajal Krishna	III – A	ECE	Symposium	Coimbatore	3/10/2023
26	S.Clement	II – A	ECE	workshop	Coimbatore	7/10/2023
27	V.Aravinth Kumar	II - A	ECE	workshop	Coimbatore	7/10/2023
28	N.Pavithra	III – B	ECE	Symposium	Trichy	9/10/2023
29	N.Naveena	III – B	ECE	Symposium	Trichy	9/10/2023
30	M.Priyalakshmi	III – B	ECE	Symposium	Trichy	9/10/2023
31	S.A.Manasvini	III – B	ECE	Symposium	Trichy	9/10/2023
32	T.Mahalakshmi	III – B	ECE	Symposium	Trichy	9/10/2023
33	D.Dhivya	II – A	ECE	symposium	Trichy	13/10/2023
34	P.CathrinePraba	II – A	ECE	symposium	Trichy	13/10/2023
35	N.Subha	III – C	ECE	Symposium	Trichy	20/10/2023
36	S.Swetha	III – C	ECE	Symposium	Trichy	20/10/2023
37	P.Sugapriya	III – C	ECE	Symposium	Trichy	20/10/2023
38	M.Varsha	III – C	ECE	Symposium	Trichy	20/10/2023
39	R.Vishnupriya	III – C	ECE	Symposium	Trichy	20/10/2023
40	K.Vikashini	III – C	ECE	Symposium	Trichy	20/10/2023
41	M.Sabithajones	III – C	ECE	Symposium	Trichy	20/10/2023

42	G.T.Sai Aishwarya	III – C	ECE	Symposiu m	Trichy	20/10/2023
43	A.Santhi	III – C	ECE	Symposiu m	Trichy	20/10/2023
44	K.sivasankari	III – C	ECE	Symposiu m	Trichy	20/10/2023
45	M.Hameed Husain	III – A	ECE	Symposiu m	Coimbatore	20/10/2023
46	V.Vijay	III – A	ECE	Symposiu m	Coimbatore	20/10/2023
47	M.Kamatchivela n	III – A	ECE	Symposiu m	Coimbatore	20/10/2023
48	K.Gowtham	III – A	ECE	Symposiu m	Coimbatore	20/10/2023

Students Achievements (Co and Extra Curricular)

S. No	Name of the Student	Year	Dept.	Description	Venue	Date	Prize
1	Sri Sathya Narayanan, Terrance RithikAron.S	IV	ECE	Binary Blast Paper Presentation	Chettinad College of Engineering and Technology,Karur	22.09.2023	First
2	SakthiPriya.P , Sowmiya.S	IV	ECE	Binary Blast Paper Presentation	Chettinad College of Engineering and Technology,Karur	22.09.2023	Second
3	Robin.J.J, Mohamed Sulaiman, M.Muthuvel	III	ECE	Project Expo- in Technovista '23	Sri Eshwar College of Engineering ,Coimbatore	08.09.23- 09.09.23	Second
4	SUBASH NATRAYAN R.M	III	ECE	Product pitch	Sri Eshwar College of Engineering ,Coimbatore	08.09.23- 09.09.23	2 nd Place Cash prize- Rs.500/-
5	K.Logesh	III	ECE	Meme's creation	Christ the king engineering college	06.10.2023	Second
6	K.Mukesh Kumar	III	ECE	Poster designing	Christ the king engineering college	06.10.2023	First
7	K.DivyaDharshi ni	III	ECE	Technical Quiz	Christ the king engineering college	06.10.2023	Second
8	Balakrishnan S	III	ECE	Skillathon	SSM Institute of Engineering and Technology,Dgl	18.10.23- 20.10.23	Second
9	Upasnasree.S, Shrishada.J	II	ECE	Ideations	SSM Institute of Engineering and Technology,Dgl	27.09.23	First

University Examination Toppers:

Year/ Sem:II/III

S.NO.	REGISTERNUMBER	NAME	GPA	RANK
1	922122106010	DIVYASREES	8.48	1
2	922122106113	MANASVINISA	8.40	2
3	922122106062	NAVEENAN	8.36	3
4	922122106080	SHREENITHIK	8.36	3

Year/Sem:III/V

S.NO.	REGISTERNUMBER	NAME	GPA	RANK
1	922121106013	DIVYASREES	8.48	1
2	922121106043	MANASVINISA	8.48	1
3	922121106058	NAVEENAN	8.48	1
4	922121106088	SHREENITHIK	8.4	2
5	922121106035	LAKSHMIPRIYAP	8.36	3
6	922121106107	VEDHASRIS	8.36	3

Year/Sem:IV/VII

S.NO	REGISTERNUMBER	NAME	GPA	RANK
1	922120106001	AARTHYKP	8.63	1
2	922120106013	GLADYSNANCYJ	8.50	2
3	922120106019	HEMAM	8.50	2
4	922120106033	LATHEEPMAIDEENA	8.50	2
5	922120106081	VIJAYRAGUNATHGS	8.36	3
6	922120106082	YASHICAS	8.36	3

Faculty Activities

FDP Attended

S.No.	Faculty name	Program/Course	Organization	Duration
1	Dr.R.Carol Praveen	Role of machine learning in semiconductor design and development	ATAL	20-11-2023 to 25-11-2023
2	Mrs.G.Rajarajeshwari	From code to conductor : Enhancing semiconductor device models through machine learning	ATAL	18-12-2023 to 23-12-2023
		Cloud Infrastructure (AWS)	PSNA CET	21-08-2023 to 25-08-2023
		AI-Driven nano technological advancements in health care	VIT,University	16-10-2023 to 18-10-2023
3	Mrs.G.Saranya	AI Driven NanoTechnological Advancements in Healthcare	ATAL VIT,Chennai.	16-9-2023 to 18-09-2023
		Introduction to machine Learning, NPTEL	NPTEL-FDP	July-September 2023
		Cloud Infrastructure	PSNACET	21-08-2023 to 25-08-23
		AI Evolution: From Foundations to Generative AI	TechSaksham-online	11-12-23 to 15-12-23
4	Mrs.K.Moniga	AI-Driven nano technological advancements in health care	VIT,University	16-10-2023 to 18-10-2023
		AI Evolution: From Foundations to Generative AI	TechSaksham-online	11-12-23 to 15-12-23
		Digital Productivity and AI Fluency	NaanMuthalvan Partnership with Microsoft	06.10.2023 to 14.10.2023
5	Mr.S.Karthik	From code to conductor : Enhancing semiconductor device models through machine learning	ATAL	18-12-2023 to 23-12-2023

6	Dr.K.Ganapriya	AI-Driven nano technological advancements in health care	VIT,University	16-10-2023 to 18-10-2023
		AI Evolution: From Foundations to Generative AI	TechSaksham-online	11-12-23 to 15-12-23
7	Mrs.R.Sudha	High performance VLSI Architectures for Multi-Disciplinary Applications	SRM Institute of Science and Technology - online	31.07.2023 to 05.08.2023
		AI-Driven nano technological advancements in health care	VIT,University	16-10-2023 to 18-10-2023
		AI Evolution: From Foundations to Generative AI	TechSaksham-online	11-12-23 to 15-12-23
		Digital Productivity and AI Fluency	NaanMuthalvan Partnership with Microsoft	06.10.2023 to 14.10.2023
8	Mrs.A.Geetha	AI Driven Nano Technological Advancements in Healthcare	ATAL VIT,Chennai.	16-9-2023 to 18-09-2023
		Introduction to machine Learning, NPTEL	NPTEL-FDP	July-September 2023
		Cloud Infrastructure	PSNACET	21-08-2023 to 25-08-23
		AI Evolution: From Foundations to Generative AI	TechSaksham-online	11-12-23 to 15-12-23
9	Dr.M.Jeyalakshmi	AI Driven Nano Technological Advancements in Healthcare	ATAL VIT,Chennai.	16-9-2023 to 18-09-2023
10	Mr.K.S.Arunkumar	AI and ROS for Robotics – theory and Practice	STTP, IIITDM, Kanchipuram	11.12.2023 to 15.12.2023
11	Mr.M.Manikandan	Antenna Design for Next Generation Wireless Communication	VIT, Chennai	04.12.2023 to 08.12.2023
12	Mrs.S.Keerthana	Sky Yoga Foundation Course	Temple of Consciousness and SSM Institute of Engineering and Technology, Dindigul	06/12/2023 to 28/12/2023
		Fibre Optics: Communication and Sensing Applications	AICTE, at NITTTR, Chandigarh	10/07/2023 to 14/07/2023

13	Ms.R.Sangeetha	Role of machine Learning in semiconductor design and development	ATAL FDP, Chennai institute of Tech, Chennai	20.11.2023 to 25.11.2023
		Breaking boundaries in Health Care – Futuristic Antenna Design for Telemedicine and biomedical Applications using AI	STTP, Care College of Engg, Trichy	21.08.2023 to 25.08.2023
14	Mr.V.P.JayFantin	Role Of Machine Learning In Semiconductor Design And Development	AICTE and ATAL, Chennai Institute Of Technology	20/11/2023 to 25/11/2023

Conference attended

S.No.	Faculty name	Title	Organization	Duration
1.	Dr.K.Ganapriya	An automatic brain tumors detection and classification using deep convolutional network with VGG-19	Kumaraguru college of Engineering and technology,Coimbatore	16/06/2023
2.	Mrs.S. Keerthana	Study on FR4 substrate backed flaring antenna structure for wideband applications	E3S Web of Conferences (Scopus), EDP Sciences	06/10/2023
3.	Dr.M.Jeyalakshmi	IoT based Smart U-Turn Vehicle Accident Prevention System	International Conference on Sustainable Computing and Data Communication Systems (ICSCDS-2023)	18/08/2023
4.	Dr.S.Jeyakumar, Dr.M.Premkumar, Ms.R.Sangeetha	Unlocking 5G potential: Exploring a single layer MIMO Antenna for Enhanced applications	IEEE International Conference on integrated intelligence and communication system (ICIICS)	24.11.2023 & 25.11.2023

➤ Workshop attended

S.No.	Faculty name	Title	Organization	Duration
1	Mrs.G.Rajarajeshwari	VLSI to System design: Silicon to end application approach	AICTE ,ARM Education &ST Micro Electronics	31-07-2023 To 04-08-2023
2	Mrs.K.Moniga	Adobe-AICTE	AICTE	31-08-2023

		digital creativity skills		
3	Mrs.R.Sudha	Adobe-AICTE digital creativity skills	AICTE	31-08-2023
4	Mr.S.Karthik	VLSI to System design: Silicon to end application approach	AICTE ,ARM Education &ST Micro Electronics	31-07-2023 To 04-08-2023
5	Dr.K.Ganapriya	Adobe-AICTE digital creativity skills	AICTE	31-08-2023
6	Dr.M.Jeyalakshmi	“Professional Development workshop on digital creativity Skills”	AICTE	31-08-2023
7	Mrs.A.Geetha	Adobe-AICTE digital creativity skills	AICTE	31-08-2023
8	Mrs.G.Saranya	Adobe-AICTE digital creativity skills	AICTE	31-08-2023
9	Ms.R.Sangeetha	IPR Awareness/ Training Programme	NIPAM	27-11-2023`
10	Mr.V.P.JayFantin	VLSI Device, Circuit and System Design Tools	School of Electronics Engineering (SENSE), VIT-AP University, Amaravati (AP), India	27.06.2023 to 03.07.2023

Sponsored Research Projects

S.No	Faculty Name	Details	Amount
1	Dr.M.Jeyalakshmi &Dr.K.Ganapriya	Resource center establishment for storing and Processing Millets	Rs.15,00,000
2	Dr.S.Karthigai Lakshmi &Mrs.S.Keerthana	Light Up the Darkness: Exploring the potential of Light for continuous patient monitoring and secure wireless medical data transmission aiding affordable cancer treatment	Rs.15,00,000

Funds received from SIRD:

Faculty Name	Details	Amount
Mr.R.Senthil Kumar	Rural development activities	Rs.10,000

Paper Publication:

S. No	Name of the Author	Designation	Dept.	Journal Name	Month & Year	Topic
1	Mrs.A.Geetha & Dr.S.Karthigai Lakshmi	Assistant Professor & Professor	ECE	International Journal of Advanced Scientific Research and Management	Sep 2023	Comprehensive Review of Routing Protocol in a Wireless Sensor Network for an IoT Applications
2	Mr.R.SenthilKumar & Dr.S.Karthigai Lakshmi	Assistant Professor & Professor	ECE	International Journal of multidisciplinary Educational Research	Sep 2023	A review on breast cancer detection algorithm using mammogram images
3	Dr.K.Rajesh	Associate Professor	ECE	International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING	26/09/2023	Artificial Intelligence (AI) Enabled Image Upscaler for Retinal Anomaly Detection with Dense Neural Computation
				Journal of X-Ray Science and Technology	26/09/2023	A hybrid thyroid tumor type classification system using feature fusion, multilayer perceptron and bonobo optimization

4	Mr.R.CarolPraveen	Assistant Professor	ECE	BMC Bioinformatics	Oct 2023	Multimodal hybrid conventional neural network based brain tumor grade classification
5	Mr.M.Manikandan	Assistant Professor	ECE	Lecture Notes in Electrical Engineering (Springer)	18/08/2023	Viable Methods Adopted for Reducing SAR value in Mobile Phone Antenna: A Review
6	Mr.J.VetriManiKumar & Dr.S.Karthigai Lakshmi	Assistant Professor & Professor	ECE	International Journal of Advanced Scientific Research and Management	18/09/2023	A Survey of Healthcare monitoring for cardiovascular diseases using IoT
7	Mr.S.Jayakumar	Assistant Professor	ECE	Sharnbasva University, Karnataka	25/11/2023	Unlocking 5G Potential : Exploring a Single layer MIMO Antenna for Enhanced Applications
8	Ms.R.Sangeetha	Assistant Professor	ECE	Sharnbasva University, Karnataka	25/11/2023	Unlocking 5G Potential : Exploring a Single layer MIMO Antenna for Enhanced Applications

Guest Lectures by Faculty

S.No	Name of the Faculty	Designation	Topic	Venue	Date
1.	Dr.K.Rajesh	Associate Professor	Image Processing and its applications with Quantum Computing	Christian college of Engineering and Technology	16/10/2023

2.	Dr.K.Ganapriya	Assistant Professor	Next generation wireless communications technologies	Government College of Engineering, Coimbatore.	14/05/2024
3.	Dr.M.Jeyalakshmi	Associate Professor	NBA Accreditation	Government College of Engineering, Coimbatore.	18.12.23 to 22.12.23
4.	Mr.M.Manikandan	Assistant Professor	Transmission Lines and RF Systems	Builders Engineering College	08.09.2023
			Electronic Devices and Circuits	Karpagam Institute of Technology, Coimbatore	09.12.2023

NPTEL Courses by Faculty

S.no	Name of Faculty	No of courses successfully completed	course name	Course Duration	No of Weeks
1	Ms.RSangeetha	2 (ODD)	Patent Drafting for Beginners	July 2023 to Aug 2023	8 Weeks
			Nanophotonic, Plasmonics and Metamaterials	July 2023 to Oct 2023	12 Weeks
2	Mr. J.VetriManiKumar	1 (ODD)	Introduction to Machine Learning	Jul-Sep 2023	8 weeks
3	Mrs. A.Geetha	1 (ODD)	Introduction to Machine Learning	Jul-Sep 2023	8 weeks
4	Mrs.G.Saranya	1 (ODD)	Introduction to Machine Learning	Jul-Sep 2023	8 weeks
5	Mrs.K.Moniga	1 (ODD)	Accreditation and Outcome based Learning	Aug 2023 To Oct 2023	8 weeks

Faculty participation:



Mr.S.Karthik,AP/ECE visited PCB Designing and Electronic Components Assembling at QUATEK Technologies India Pvt.Ltd.,Madurai.

Faculty Achievement:

GALACTIC LOCAL MENTOR:

NASA International Space APPS Challenge presented certificate to Mr.S.Karthik for outstanding participation and efforts to solve challenges on earth and in space dated on 07/10/2023