K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VISION

To produce globally competitive Electronics and Communication Engineers and Entrepreneurs with ethical values.

MISSION

DM1:   Impart quality education through student centric teaching and learning process.

DM2:   Equip students with Industry driven skills by providing excellent Infrastructure and continuous interaction with academia and Industry.

DM3:   Empower students towards research, entrepreneurship and lifelong learning to meet societal needs.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO 1:   **Core Competency :** Graduates will have strong foundation in Engineering, Science and Technology for a successful career in Electronics and Communication Engineering.

PEO 2:   **Professionalism :** Graduates will have effective communication skills, interpersonal skills and ethical values to exhibit professionalism in multidisciplinary environment.

PEO 3:   **Higher studies and Entrepreneurship :** Graduates will pursue professional development through higher studies and have entrepreneurial attitude to address technological changes and societal needs.

AURA

Association of Electronics and Communication Engineering

Department Association called "AURA" was formed in the year 2011. In order to provide platform for the students and faculty to present and share their ideas, thoughts and findings and to conduct expert lectures, seminars, workshops, symposiums, conferences etc. This also aims in bringing pioneers in Electronics and Communication Engineering minds to drive them towards the excellence in Electronics and Communication Engineering.

- AURA Inauguration was conducted in 18.06.2019.
- Guest lecture on Bridging Gap between College and Corporate conducted by Dr.R.Nandakumar, K.S.Rangasamy Institute of Technology, on 18.06.2019.
- AURA Inauguration was conducted in 02.08.2019. and 17.08.2019.
- Guest lecture on Bridging Gap between College and Corporate conducted by Mr.R.Nandakumar, K.S.Rangasamy college of technology conducted on 02.08.2019 and B.Latha , Seshaas international public school ,salem conducted on 17.08.2019.

knowledge up gradation:

Seminar/FDP/SDP/Workshop/STTP etc attended by Faculty

S. No	Name of the Faculty	Title of the Programme	Type of the Programme	Conducted by (Dept. and Institution)	Date	Management Contribution
1.	P.Mohana Sunthari	Teaching and Learning	Faculty Induction Programme	Teaching and Learning Centre, IIT Madras	02.12.19 to 14.12.19	Yes
2	P.Janani	02.12.19 to 14.12.19	02.12.19 to 14.12.19	02.12.19 to 14.12.19	02.12.19 to 14.12.19	02.12.19 to 14.12.19
3.	M.V.Mahesh	Entrepreneurship	Faculty Development Programme	EDII, NSTEDB & DST sponsored and Coordinated by Technology Business Incubator, Pondicherry	09.12.19 to 21.12.19	Yes
4.	P.Mohana Sunthari	Teaching and Learning	Faculty Induction Programme	Teaching and Learning Centre, IIT Madras	20.01.20 to 27.01.20	Yes
5	P.Janani	Teaching and Learning	Faculty Induction Programme	Teaching and Learning Centre, IIT Madras	20.01.20 to 27.01.20	Yes
6	M.V.Mahesh	Entrepreneurship Development Program	Training Program	IIC Innovation Ambassador Training Services & Sri Krishna College of Engineering and Technology	06.01.20 to 07.01.20	Yes
6	T.Senthil	Using ICT tools in Teaching	Faculty Development Programme	ICT Academy & K.S.R. College of Engineering	24.02.20 & 25.02.20	-
7	P.Govindaraju	Intellectual Property Rights	Workshop	Annapoorna Engineering College	29.02.20	-

Funded project obtained (If any)

S. No	Project Title	Name of Funding Agency	Total Amount Quoted	Total Amount Sanctioned	Date of Submission	Whether Approved / Awaiting
1.	Long Range (LoRa) Wide Area Networks: A futuristic Approach	AQIS – AICTE Quality Improvement Scheme (STTP)	Rs.4,97,150	Awaiting	24.12.2019	Awaiting
2.	KSRIET aspiring ICT based skill and personality programme center for SC/ST students	AICTE - ICT based skill and personality programme center for SC/ST students	Rs.24,98,829.25	Awaiting	24.12.2019	Awaiting
3	Long Range (LoRa) Wide Area Networks: A futuristic Approach	AQIS – AICTE Quality Improvement Scheme	Rs.4,97,150	Awaiting	24.12.2019	Awaiting
4	KSRIET aspiring ICT based skill and personality programme center for SC/ST students	AICTE - ICT based skill and personality programme center for SC/ST students	Rs.24,98,829.25	Awaiting	24.12.2019	Awaiting

STUDENT ACHIEVEMENT

(Co-curricular Activities – Inter College level)

S. No	Year / Sem. /Sec.	Name of the Student	Event Name	Conducted on	Name of the College /dept (Organized)	Prizes Won
1.	III / VI / B	Sivasankaran.K	Inplant Training	20.11.19 to 26.11.19	Enthu Technologies, Coimbatore	-
2.	III / VI / A	Keerthana.S	Inplant Training	25.11.19 to 30.11.19	Mallow Technologies Private Limited, Karur	-
3.	III / VI / A	P.Dinnesh	Inplant Training	25.11.19 to 29.11.19	CARNETTS, Thokkavadi	-
4.	III / VI / A	Hemaharini.S				
5.	III / VI / A	Anbazhagan.K	Inplant Training	26.11.19 to 29.11.19	Abile Technologies, Coimbatore	-
6.	III / VI / A	Booma.V				
7.	III / VI / A	Daranidaran.R.S				
8.	III / VI / A	Dinesh.U.G				
9.	III / VI / A	Gokulnath.R				
10.	III / VI / A	Gwtham.M				
11.	III / VI / A	Harikrishnan.M				
12.	III / VI / A	Kishor.M				
13.	III / VI / A	Muthulakshmi.S				
14.	III / VI / B	Shanmathi.M.M	Inplant Training	26.11.19 to 05.12.19	Salem Railway Division	-
15.	III / VI / B	Sinduja.K				
16.	III / VI / B	Yasodha.P				
17.	III / VI / A	Dhanish.V	Inplant Training	27.11.19 to 29.11.19	Dagslore Technology Solutions, Coimbatore	-
18.	III / VI / A	Harish kumar.R				
19.	III / VI / A	Kishore.D				
20.	III / VI / A	Madhangopal.C				
21.	III / VI / A	Merin Kumar.L				
22.	III / VI / B	Naveen.S.S	Inplant Training	27.11.19 to 03.12.19	APPIN Technology Lab, Coimbatore	-
23.	III / VI / B	Parkavi. P				
24.	III / VI / B	Premela.R				
25.	III / VI / B	Priya.R				
26.	III / VI / B	Ramya.S				

27.	III / VI / B	Santhiya. T				
28.	III / VI / B	Sridharan.M				
29.	III / VI / B	Srinivasan.A				
30.	III / VI / B	Srinivasan.S.R				
31.	III / VI / B	Sweetlin Joshva.A				
32.	III / VI / B	Swetha.G.P				
33.	III / VI / A	Dhanushkodi.N	Inplant training	28.11.19 to 30.11.19	T-PEP Innovations, Coimbatore	-
34.	III / VI / A	Gokulnath.N				
35.	III / VI / A	Hariharasudhan.R				
36.	III / VI / A	Kamalini.N				
37.	III / VI / A	Manimala.R				
38.	III / VI / A	Keerthivasan.R	Inplant Training	02.12.19 to 04.12.19	SZNAELTECH Coimbatore	-
39.	III / VI / A	Abinaya.T	Inplant Training	02.12.19 to 04.12.19	ETS Academy, Erode	-
40.	III / VI / A	Geetharani.G				
41.	III / VI / A	Hemalatha.S				
42.	III / VI / A	Janarth.S				
43.	III / VI / A	Manjula.T				
44.	III / VI / A	Mushidha Sifana.T				
45.	III / VI / B	Tejaswini.S	Inplant Training	21.12.19 to 26.12.19	Ashok Leyland, Hosur	-
46.	III / VI / A	R.Harihara Sudhan	19th ISTE TN Section Annual Engineering Students Convention	18.12.19	PSG Institute of Technology and Applied Research	ISTE – Chapter best student award
47	III / VI / A	Dinnesh P	Tamilnadu State Innovation - Hybrid Energy System	30.01.2020 to 01.02.2020	Anna university Coimbatore	Cleared 2nd level selected for boot camp
48	III / VI / A	Muthulakshmi S	Tamilnadu State Innovation - Hybrid Energy System	30.01.2020 to 01.02.2020	Anna university Coimbatore	Cleared 2nd level selected for boot camp
49	III / VI / A	Hemaharini S	Tamilnadu State Innovation - Hybrid Energy System	30.01.2020 to 01.02.2020	Anna university Coimbatore	Cleared 2nd level selected for boot camp
50	III / VI / A	Hemaharini S	Tamilnadu State Innovation - FRESCO- Identification and Elemination of pesticides from fruits and vegetables	30.01.2020 to 01.02.2020	Anna university Coimbatore	Cleared 1st level only
51	III / VI / A	Janarth S	Tamilnadu State Innovation - FRESCO-	30.01.2020 to 01.02.2020	Anna university Coimbatore	Cleared 1st level only

			Identification and Elemination of pesticides from fruits and vegetables			
52	III / VI / A	Dinnesh P	Water measuring meter in huge apartments	Jan 2020	TI Contest	Shortlisted in Quarter finals IICDC 2019 - Received 200$ Worth kit
53	III / VI / A	Muthulakshmi S				
54	III / VI / A	Hemaharini				
55	III / VI / A	Janarth S				
56	III / VI / A	Geetharani G				
57	III / VI / A	Booma V				
58	IV / VIII / B	S.Nivetha	Lane departure warning system	Jan 2020	TI Contest	Shortlisted in Quarter finals IICDC 2019 - Received 200$ Worth kit
59	IV / VIII / B	P.Priyadharshni				
60	IV / VIII / B	G.Santhia				
61	III / VI / A	P.Alka				
62	III / VI / A	Madhangopal. C	Luminous Control	Jan 2020	TI Contest	Shortlisted in Quarter finals IICDC 2019 - Received 200$ Worth kit
63	III / VI / A	Kamaleshwaran.R				
64	III / VI / A	Keerthivasan. N				
65	III / VI / A	Kishore . D				
66	III / VI / A	Keerthana. S				
67	III / VI / A	Karthika. C				
68	III / VI / A	Madhangopal. C				
69	III / ECE /B	A.Srinivasan	Seminar on "Cyber Security for Web Application and Embedded System"	08.01.2020	Dept of CSE & Jansons Institute of Technology, Coimbatore	-
70	III / ECE /B	S.Uvanees				
71	III / ECE /B	K.Yuvansankar				
72	III / ECE /B	K.Subash				
73	III / ECE /B	M.Thiyagu				
74.	III / ECE /A	S.Hemaharini	Entrepreneurship Awareness Camp	09.01.2020	Sona College of Technology, Salem	-
75.	III / ECE /A	S.Muthulakshmi				
76.	III / ECE /A	S.Janarth				
77.	III / ECE /A	P.Dinnesh				
78	III / ECE /A	C.Madhangopal	Entrepreneurship Awareness Camp	10.01.2020 & 11.01.2020	Sona College of Technology, Salem	-
79	III / ECE /B	T.Pavithra	PALS Seminar on "Application of MATLAB"	22.01.2020	Vivekanandha College of Engineering for Women	-
80	III / ECE /A	T.Manjula				
81	III / ECE /A	Karthika.C				

STUDENT   ACHEIVEMENT

(Co-curricular Activities – Intra College level)

S. No	Year / Sem./Sec	Name of the Student	Paper Title/ Event name	Conducted on	Name of the Department (Organized)	Prizes Won
1.	IV / VII / A	K.Kokila	Digital Switching			Successfully completed
2.	IV / VII / A	P. Bhuvaneshwari	Digital Image Processing	July to October 2019	NPTEL & SWAYAM	Successfully completed
3.	IV / VII / B	S.S. Priyanka	Digital Image Processing			Successfully completed
4.	III / V / A	T. Manjula	Digital Signal Processing			Successfully completed
5.	III / VI / A	Hemaharini.S	Identification and removal of Pesticide residues from vegetables and fruits using deep learning	22.01.2020	MSME	-
6.	III / VI / A	Dinnesh P				
7.	III / VI / A	Muthulakshmi. S				
8.	III / VI / A	S Janarth				
9.	III / VI / A	Kamaleshwaran.R	Brain Machine Interface Speaking Aid to Paralyzed and Mute Persons	22.01.2020	MSME	-
10.	III / VI / A	Keerthana S				
11.	III / VI / A	Keerthivasan N				
12.	III / VI / A	Madhangopal C				
13.	III / VI / B	Naveen S	Lora Based Women And Child Safety SOS Device With GPS Tracking	22.01.2020	MSME	-
14.	III / VI / B	Ruban Prasad J				
15.	III / VI / B	Sukhesan C				
16.	III / VI / B	Thiyagu M				
17.	III / VI / A	Kamalini.N	Smart Drone Delivery System to the Last Mile on a Multi Storey Building	22.01.2020	MSME	-
18.	III / VI / A	Alka P	LoRa based Air quality monitoring system with Air scrubber.	22.01.2020	MSME	-
19.	III / VI / A	Kamaleshwaran.R	Smart Clothes for Security Force	26.01.2020	Smart India Hackathon	-
20.	III / VI / A	Keerthana S				
21.	III / VI / A	Keerthivasan N				
22.	III / VI / A	Madhangopal C				
23.	III / VI / A	Karthika.C				
24.	III / VI / A	Kishore.D				
25.	III / VI / B	Sukhesan.C	Traffic clearance of ambulance or other priority vehicles through AI	26.01.2020	Smart India Hackathon	-
26.	III / VI / B	Ruban Prasad.J				
27.	III / VI / B	Naveen. S.S				
28.	III / VI / B	Thiyagu .M				
29.	III / VI / B	Sri Ranjani.S				
30.	III / VI / B	Sharumathi.S				
31.	III / VI / A	Daranidharan.R.S	Intelligent Surveillance System	26.01.2020	Smart India Hackathon	-
32.	III / VI / A	Gowtham.M				
33.	III / VI / A	Harikrishnan.M				
34.	III / VI / A	Anbazhagan K				
35.	III / VI / A	Dharnish.K				
36.	III / VI / B	Yasodha.P				
37.	III / VI / A	Dhanushkodi.N	Smart Public Transport	26.01.2020	Smart India Hackathon	-
38.	III / VI / A	Mushidha				

		Sifana.T				
39.	III / VI / A	Manjula.T				
40.	III / VI / A	Alka.P				
41.	III / VI / B	Sindhuja.K				
42.	III / VI / A	Merin Kumar.L				
43.	III / VI / A	Hari Hara Sudhan.R	Last mile delivery in a Multi storey building of a society	26.01.2020	Smart India Hackathon	-
44.	III / VI / A	Kamalini.N				
45.	III / VI / A	Manimala.R				
46.	III / VI / B	Shanmathi.M.M				
47.	III / VI / A	Gokulanth.N				
48.	III / VI / B	Sridharan.M				
49.	III / VI / A	Hemaharini.S	Hybrid Energy Generation	26.01.2020	Smart India Hackathon	-
50.	III / VI / A	Dinnesh P				
51.	III / VI / A	Muthulakshmi. S				
52.	III / VI / A	S Janarth				
53.	III / VI / A	Geetharani.G				
54.	III / VI / B	Booma.V				
55.	II / ECE	All students of II ECE	Guest Lecture on "Electronics System Design and Debugging"	22.02.2020	Dept. of ECE, K S R Institute for Engineering and Technology	-
56	III / VI / A	P.Dinnesh	Youth Talk on "E-Waste Management"	24.02.2020	IE Chapter, Dept. of ECE, K S R Institute for Engineering and Technology	-
57	III / VI / A	R.Hariharasudhan				-
58	III / VI / B	S.Tejaswini				-
59	III / VI / B	M.Thiyagu				1st price

EDITORIAL BOARD

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Program Outcome for Electronics and Communication Engineering

PO 1: Engineering Knowledge: Apply knowledge of mathematics, science and engineering principles to solve problems in the domain of Electronics and Communication Engineering.

PO 2: Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO 3: Design/Development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess Societal, Health, Safety, Legal and Cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development.

PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: Project management and finance: Demonstrate Knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSO)

PSO1: Embedded system design: Graduates will be able to analyze, design, construct and test electronic and embedded systems for desired specification.

PSO2 : Simulation Tools: Graduates will be able to solve emerging real world problems using suitable hardware and software tools.