

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.

- A final year project batch has been selected for receiving fund of Rs.7500 from **Tamilnadu State Science and Technology (TNSCST).**
- **NPTEL ONLINE CERTIFICATION** - In our Department **7 students, 2 faculty members got Elite grade & 1 faculty and 21 students successfully completed the course** in the final exam.
- **Centre of Excellence** for Signal and Image Processing have been initialized.

WORKSHOP / FDP / TRAINING PROGRAMME ATTENDED BY FACULTY

S. No	No. of Faculty	Workshop / FDP / Training	Name of the Programme	Organised by	Date
1.	1	National Level Seminar	Research Issues and Challenges in MIMO-OFDM for Wireless Communication	Dept of ECE/ Bannari Amman Institute of Technology	09.06.18
2.	1	Faculty Training Program	Jio FFTx Technical Lab setup	Reliance Corporate IT Park	06.06.18 & 07.06.18
3.	1	Faculty Development Program	Students Induction Program for AICTE Approved Institutions	AICTE Sponsored / PSG College of Technology	13.07.18 to 15.07.18
4.	4	Seminar	How to write a Successful Project Proposal to Funding Agencies	Library & Readers Club, KSRCT	21.07.18
5.	1	STTP	Hello Bot: Introduction to Robotic Process Automation	K.S.Rangasamy College of Technology	29.07.18 to 31.07.18
6.	1	Seminar	Wavelet Video Processing Technology	Dept of ECE, Nandha College of Technology	14.08.18
7.	7	National Level Workshop	Writing Successful Proposal to Funding Agencies	R&D Cell, KSRIET	31.08.18
8.	1	Seminar	Matlab and Simulink for Engineering and Research	Design Tech Systems Limited at Hotel Zone by the Park, Coimbatore	01.09.18
9.	1	PALS – T2P Theory to Practice Lectures	Microwave Engineering Applications and Measurement Challenges	Dr.N.G.P. Institute of Technology	05.09.18
10.	1	Workshop	E-Cell Leader Workshop	PMO-IEDP at Anna University Regional Campus, Coimbatore	11.09.18 & 12.09.18
11.	1	Industry – Institute Interaction events of Asia	33 rd edition of BRIDGE 2018 - BENGALURU	ICT Academy at Hotel Le Meridian, Bengaluru	26.09.18
12.	2	Faculty Development	CURIOUS PROGRAM	IIT Madras – HTIC MedTech Incubator (MTI)	28.09.18 & 29.09.18
13.	1	PALS Campus Lecture	The NEW NORMAL	Dr.N.G.P. Institute of Technology	17.11.18
14.	2	Faculty Development Programme	Teaching and Learning Process	IIT Madras & PALS	27.11.18 to 29.11.18
15.	1	Workshop	Think Create Engineer	IIT Madras & Sponsored by PALS & AidVision 85	05.12.18 to 08.12.18
16.	10	Seminar	Cyber Security & Ethical Hacking	PROMPT Infotech & Training and Placement Cell, KSRIET	05.01.19

TRAINING PROGRAMME ATTENDED BY STUDENTS

S. No	No. of Students	Branch / Year of Study	Name of the Programme	Organised by	Date
1.	30	II ,III & IV Years	Entrepreneurship Awareness Camp	Entrepreneurship Development Cell/ KSRIET	10.07.2018
2.	26	III Years	Value Added Course on “Robotic Process Automation”	KSRCT & KSRIET	30.07.18 & 31.07.18
3.	36	II / III / B	Guest Lecture on “Electronics Circuits – I”	AURA Association / ECE dept	12.09.18
4.	6	III / V / A	Hands on Training on OPEN SOURCE TECHNOLOGIES	Dept. of Computer Technology and Applications, Kongu Engineering College	02.08.18
5.	6	II / III / B	Workshop on Animation	ARENA Animation, Salem	12.08.18
6.	6	III / V / A	National Level Technical Seminar on “Wireless Telephony”	Sasurie College of Engineering	14.08.18
7.	5	IV / VII / B	One day Seminar on “Wavelet Video Processing Technology”	Dept of ECE, Nandha College of Technology	14.08.18
8.	7	II / III / B	Workshop on “Robotics about Arduino, Relay”	Dept of ECE/ Coimbatore Institute of Technology	31.08.18
9.	9	II / III / B	Workshop on “Animation”	ARENA Animation, Salem	08.09.18

INPLANT TRAINING UNDERGONE BY STUDENTS

S. No	Address of the Company	No. of Students	Branch / Year of Study	Duration
1.	Krish Tec, Coimbatore	9	ECE/ III	3 Days
2.	BSNL, Rajiv Gandhi Memorial Telecom Training Centre	1	ECE/ III	1 Week
3.	TNPL, Karur	3	II YEAR	5 Days
4.	CODE BIND TECHNOLOGIES, Coimbatore	16	II YEAR	5 Days
5.	MEGAN WIN INDIA PVT.LTD, SALEM	1	II YEAR	5 Days
6.	UNIQ TECHNOLOGIES	26	II YEAR	5 Days
7.	Seshasayee Paper And Boards Ltd, Erode	1	II YEAR	6 Days

8.	BSNL, Coimbatore	1	II YEAR	5 Day
9.	BSNL Salem	15	II YEAR	5 Days
10.	Sava International Pvt.Ltd, Karur	1	II YEAR	6 Days
11.	Ashok Leyland Limited, Hosur	1	II YEAR	6 Days
12.	BSNL,Erode	1	II YEAR	5 Days
13.	Cotton Cum Silk Handloom Weavers Cooperative Production And Sale Society Ltd, Tirupur	2	II YEAR	5 Days
14.	Enthu Technology, Coimbatore	2	II YEAR	2 Days
15.	Indian Railways	15	III YEAR	5 Days

INTERNSHIP UNDERGONE BY STUDENTS

S. No	Address of the Company	No. of Students	Branch / Year of Study	Duration
1.	Nandha InfoTech, Coimbatore	2	ECE/ III	3 days

WORKSHOP / FDP / TRAINING PROGRAMME ORGANISED BY DEPARTMENT

S. No	No. of Participants	Name of the Insts. of the Participants (if reputed)	Workshop / FDP / Training	Name of the Programme	Name of the Resource Person(s) / Organisation	Date
1.	165	KSRIET II & III ECE STUDENTS	Guest Lecture	Guest Lecture	Mr.Moorthy Selvakumaran, Selvakumaram Industries	27.07.18
2.	81	ECE II STUDENTS	Guest Lecture	Guest Lecture on "Electronic Circuits – I"	Prof. Muthuraman Ramasamy	12.09.18
3.	51	KSRIET	Workshop	Project Based Learning	Mr.G.Gowthamraj, Enthu Tech	20.12.2019 & 21.12.2019
4.	39	KSRIET II & III ECE STUDENTS	Workshop	Hands on Training in MSP430 controller	Mr.K.VenkatachalamAP/ECE, KSRIET	29.01.2019
5.	39	KSRIET II & III ECE STUDENTS	Workshop	Internet of Things using Cayenne Tool	Mr.A.Prabakaran, AP/ Automobile Engg., Kumaraguru College of Technology	30.01.2019

FACULTY ACTED AS RESOURCE PERSON / JURY / GUEST

S. No	Name of the Faculty	Name of the Institute	Workshop / FDP / Training	Name of the Programme	Acted as	Date
1.	Dr.R.Nandakumar	K.S.R.Polytechnic College	Guest Lecture	Orientation programme for 1 st year students	Resource Person	04.07.18
2.	Dr.R.Nandakumar	Dept of ECE/ K.S.Rangasamy College of Technology	Workshop	Student Induction programme I Year	Resource Person	04.09.18
3.	Dr.R.Nandakumar	K.S.R. Matric Higher Secondary School	Special Camp	Camp on "Naattu Nalappani Thittam"	Resource Person	26.09.18
4.	Dr.R.Nandakumar	Dept of ECE/ K.S.Rangasamy College of Technology	Workshop	Student Induction programme I Year	Resource Person	30.08.19
5.	Dr.R.Nandakumar	K.S.R.Polytechnic College	Special Day Program	Isaac Newton Birthday Celebration	Resource Person	04.01.19

PROPOSALS SUBMITTED BY DEPARTMENT

S. No	Title of the Proposal	Proposal Submitted To	Total Amount Quoted	Total Amount Sanctioned	Date of Submission	Whether Approved / Awaiting Approval
1.	'Digital Marketing – Boon to Farmers': Dissemination of Innovative Technology DIT 2019	TNSCST	66,000.00	-	13.01.2019	Awaiting
2.	STTP on "Internet Of Medical Things (IOMT) : Trends, Perspectives and Prospects of Machine Learning for Biomedical Applications"	AICTE	4,30,200.00	-	Nov 2018	Awaiting

ACHIEVEMENT OF THE STUDENT

S. No	Name of the Student	Branch / Year	Name of the Contest	Organised by	Prize Won
1.	S.Ilakiya S.Aswin	III/ V/ A	Youth Talk	IE chapter / ECE/ KSRIET	1 st prize

2.	R.Priya M.M.Shanmathi	II / III / B	Youth Talk	IE chapter / ECE/ KSRIET	1 st prize
3.	Kamaleswaran R Madhangopal C Kishore D Keerthivasan N	II / III / A	Project expo - Automatic water harvesting	KSRIET	1 st prize
4.	R. Balaji P.Anantha Krishnan M.Marimuthu	III / V / A	Discrete Time Signal	NPTEL Online Certification	ELITE
5.	Naveen .T. S Durairaj.S Indirakumar.M	IV / VII / B	Digital Image Processing	NPTEL Online Certification	ELITE
6.	Ilakiya.S	III / V / A	Oratorical competition	Thulir Conference, JCI Association	1 st prize
7.	Reshma	II / III / B	Dance competition	Thulir Conference, JCI Association	1 st prize
8.	Selvarakesh kumar.C	IV/VII/B	Cricket	Future Cricket Club	Runner
9	Selvarakesh kumar.C	IV/VII/B	Football	5's Kongu Arts and Science College	Runner
10	Selvarakesh kumar.C	IV/VII/B	Football	Open State 5's Tournament	Winner

EDITORIAL BOARD:

Principal		Dr.M.Venkatesan
HoD/ECE		Dr.R.Nandakumar
Association Head		Mr.A.Ravi, AP/ECE
Editor		Mr.J.Divakaran., AP/ECE
Student Editors	Final Year	Mr. Alexraj
	Third Year	Mr. R.Vignesh

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.