

Department of Electronics and Communication Engineering

INSTITUTION VISION (IV)

To be a premier Institution in Engineering & Technology and Management with competency, values, and social consciousness.

INSTITUTION MISSION (IM)

- IM1: Provide high quality academic programs, training activities and research facilities.
- IM2: Promote Continuous Industry-Institute interaction for employability, entrepreneurship, leadership, and research aptitude among stakeholders.
- IM3: Contribute to the economic and technological development of the region, state, and nation.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DEPARTMENT VISION (DV)

To be a centre of excellence in Electronics and Communication Engineering Education to produce professionals for ever-growing needs of society.

DEPARTMENT MISSION (DM)

- **DM1:** To promote and facilitate student- centric learning.
- **DM2:** To involve in activities that enable overall development of stakeholders.
- **DM3:** To provide holistic environment with state-of-art facilities for students to develop solutions for various social needs.
- **DM4:** Organize trainings in embedded systems with Industry interaction.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- **PEO1:** Accomplish technical proficiency for the efficacious ECE Professional.
- **PEO2:** Pursue higher studies with emphasizing design, test, and development of the systems to meet the industry and societal needs.
- **PEO3:** Become entrepreneur by practicing ethics, professional integrity, and leadership qualities.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- **PSO 1:** To manure and empower the SICET-ECE students strong in practical, technical and research domains in the areas of Signal/Image processing. VLSI and wireless Communication.
- **PSO 2:** To design and develop a prototype system that will incorporate user requirements using modern devices and emerging technology for industry automations.
- **PSO 3:** To make the SICET-ECE students as successful industry ready engineers by imparting essential interpersonal skills and widespread exposure on multi-disciplinary technologies.

POS	PROGRAM OUTCOMES STATEMENTS
PO1:	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2:	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.
PO3:	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.
PO4:	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.
PO5:	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.
PO6 :	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
PO7 :	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and contexts, and demonstrate the knowledge of, and need for us environmentally sustainable development
PO8:	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9:	Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10:	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
PO11 :	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
PO12:	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.

ACHIEVEMENTS:

- > 83 placements in the academic year 2021-22.
- Collaboration with CISCO Networking academy.
- > Collaboration with ServiceNow & SAP students Training Partner.
- College is recognized as an Active Local Chapter by SWAYAM NPTEL, IIT Madras.
- > 149 Faculty & Students received SWAYAM-NPTEL Certification from IIT's and IISc.
- Sri Indu Practice hub bagged 1st Prize by AICTE from Telangana State for startup and Mentorship Program.
- > Received Appreciation certificate for waste Management from ITC Group.
- > 313 MOOC online certificate courses completed from COURSERA by Faculty and students from reputed foreign universities.

PROFESSIONAL MEMBERRSHIPS IN SICET

- > IEEE Institute of Electrical and Electronics Engineers
- ASME American Society of Mechanical Engineers
- CSI Computer Society of India
- > IETE Institution of Electronics and Telecommunication Engineers
- ISTE Indian Society for Technical Education
- DELNET Developing Library Network
- NDL National Digital Library of India
- NLIST UGC e-ShodhSindhu Consortium
- JGate JGate Engineering and Technology

MOOCS

- > SWAYAM NPTEL Local Chapter
- COURSERA Campus Program

NPTEL PROGRAM-2021



MOOC SWAYAM-NPTEL CERTIFICATES ECE FACULTY

S .	Course Name	Name &	Final	Certificate
No		Designation	Score	Туре
1	Introduction to Wireless and Cellular Communications - Online	Mrs.Kotra Raghu Rajitha, Assoc. Professor	63	Elite
2	Introduction to Wireless and Cellular Communications - Online	Mrs.Sravanthi G Assoc. Professor	67	Elite
3	Introduction to Wireless and Cellular Communications - Online	Mrs.Bommala Neeraja Assoc. Professor	61	Elite
4	Digital Image Processing - Online	Mrs.Prathyusha V Assoc. Professor	73	Elite
6	Introduction to Wireless and Cellular Communications - Online	Mrs.Pasula Mamatha Assoc. Professor	60	Elite
7	Introduction to Wireless and Cellular Communications - Online	Mrs.Sarada R Asst. Professor	62	Elite
8	Introduction to Wireless and Cellular Communications - Online	Mrs.Somisetti Ashalatha Assoc. Professor	70	Elite
9	Analog Communication - Online	Mrs.Sravanthi G Assoc. Professor	75	Elite+Silver
10	Analog Communication - Online	Mrs.Bommala Neeraja Assoc. Professor	75	Elite+Silver

TRAINING & PLACEMENT CELL

Striving for 100% placements is the leading motto of the Training and Placement Cell. The trainers have more than a decade of experience in understanding the training requirements of undergraduate students and designing program to help students attain career success. Started in response to an emergent need the T&P Cell aims to bridge the gap between the requirements of the corporate and the skill sets that the students acquire during college.

The Goal of Training & Placement Cell of Sri Indu is to be a liaison between Industry and students to provide employment opportunities available in the market and to provide intensive training to the students for their overall development. The institute has provided complete well infrastructure for effective functioning for conducting various activities, which are being undertaken regularly like placement of the students and development programs.

PLACEMENTS IN THE ACADEMIC YEAR 2020-2021

More than 21 Companies have recruited 89 Students for the Academic Year 2020-2021

S.No	Students Name	Name of the Company
1	DAMMOJU SHIVANI	TECH MAHINDRA
2	SHARVA ASHOK KUMAR	ANALOGIC CONTROLS INDIA LTD
3	PRAMOD PADALA	TATA CONSULTANCY SERVICES
4	PASUNURI SHIVA	AMAZON
5	BURUGU TEJASMAN	MICRON
6	B ANUSHA	TATA CONSULTANCY SERVICES
7	Y NANDEESHWAR REDDY	CAPEGEMINI
8	K.SANDEEP REDDY	TATA CONSULTANCY SERVICES
9	KONDA MANUSHA	CAPGEMINI
10	B SRILAYA	TATA CONSULTANCY SERVICES
11	K NIKHIL	TATA CONSULTANCY SERVICES
12	BOTTA SHARAN	TATA CONSULTANCY SERVICES
13	KAMRE MEENA	TATA CONSULTANCY SERVICES
14	GODASU SAIEASHWAR	ITC INFOTECH
15	VEMULA NAVEEN KUMAR	TATA CONSULTANCY SERVICES
16	R. NARENDRA	WIPRO
17	TIRUMALANADHUNI DIVYA	TATA CONSULTANCY SERVICES
18	CH SRINIVAS	NTT DATA
19	A TEJASWINI	CAPGEMINI
20	GUMMADIDALA MANIKANTA	ROOTWARE TECHNOLOGIES
21	G.SAISHANKER	TATA CONSULTANCY SERVICES

CAMPUS RECRUITMENT TRAINING (CRT)

Campus Recruitment Training (CRT) is to aid candidates in their preparation for Recruitment through Campus or outside campus. Program which is exclusively designed for the students preparing for recruitment and is geared towards ensuring that the students are well equipped to get through the recruitment process of various IT and NON-IT companies. Daily training sessions for the students by the CRT and regular practice on Soft Skills, Quantitative aptitude, & Mock Interviews, Group Discussions, Reasoning Logical & Analytical, Personality Development Skill, Speaking Communication Skill, Personal Interviews Presentation skill and Resume Preparation.

The program has different modules for preparing the job aspirant to tackle the interview process like: Written Test and Aptitude test, Company specific Comprehensive Tests, Guidance about the selection processes followed by various companies.

CRT TRAINING SESSIONS



STUDENTS ACHEIVMENTS

S.NO.	STUDENT NAME	ROLL NO.	TITLE
1.	Gunda Naveen	19D41A0461	How to write a resume
2.	Kiran Vardhan	19D41A0462	Getting Started with AWS Machine Learning
3.	Headgapure Sandeep	19D41A0463	Programming Foundations with JavaScript, HTML and CSS
4.	J Reddy Kheerthi	19D41A0464	How to write a resume
5.	Jakkidi Harshita Reddy	19D41A0465	How to write a resume
6.	Jakkula Sai Mukesh	19D41A0466	How to write a resume
7.	Jalagam Vinod Kumar	19D41A0467	How to write a resume
8.	Janga Venkatesh	19D41A0468	How to write a resume
9.	Jara Vishnu Vardhan Reddy	19D41A0469	How to write a resume
10.	B Jayanth	19D41A0471	How to write a resume
11.	K Lakshmi	19D41A0472	Cyber security and its 10 domains
12.	K Nikhila Reddy	19D41A0473	How to write a resume
13.	Bixapathi.Kadari	19D41A0474	How to write a resume
14.	Kallem Shiva Kumar	19D41A0475	How to write a resume
15.	K.Dileep Reddy	19D41A0476	Introduction to the Internet of Things and Embedded Systems
16.	Menchu Meenakshi	19D41A04B7	How to write a resume
17.	Middela Deepika	19D41A04B8	How to write a resume
18.	Gopichand Miryala	19D41A04B9	How to write a resume
19.	Miryala Sushmitha	19D41A04C0	Getting Started with AWS Machine Learning
20.	M.Bhanuprakash Reddy	19D41A04C1	Getting Started with AWS Machine Learning
21.	Mohammad Heena	19D41A04C2	How to write a resume
22.	Mohammed Abdul Khaiser	19D41A04C3	How to write a resume

A Publication of the SICET of ECE Volume 6, Issue 1

FACULTY ACHIEVEMENTS

FACULTY PUBLICATIONS

S. NO	NAME & DESIGNATION	TITLE	PUBLICATION
1	Bommala Neeraja,	Effect Of Backward Crosstalk On 2×2	Volume XII, ISSN NO: 0886-
	Assoc. Professor	MIMO Transmitters on NMSE And	9367, page 3001,
		Spectral Efficiency	December/2021
2	Mrs.V Prathyusha,	Design and Implementation of IOT	
	Assoc. Professor	Social Distancing &	Volume IX, Issue VIII,
		Monitoring Robot for Queue	August/2021
3	Mrs.Rimmalapudi	Effect Of Backward Crosstalk On 2×2	The International journal of
	Likhitha,	MIMO Transmitters on NMSE And	analytical and experimental
	Assoc. Professor	Spectral Efficiency	modal analysis, Volume XII,
			ISSN NO: 0886-9367, page
			3001, December/2021
4	Dr.N C Sendhil	An Empirical Model for the Investigation	Turkish Online Journal of
	Kumar, Professor	of Effective Intrusion Detection Systems	Quantitative Inquiry (TOJQI),
		by Using K-Nearest Neighbor (KNN) and	Volume 12, Issue 1569-1578,
		Fuzzy (Fuzzy KNN) Algorithms in	PAGE NO 1569, October 2021
		Mobile Ad-Hoc Network (MANET)	
5	Dr.N.Subhash	IOT Based Temperature and Face Mask	The International journal of
	Professor		analytical and experimental
			modal analysis, Volume XIII,
			ISSN NO:0886-9367, PAGE
			NO 1217, November/2021
6	Dr.N.Subhash	Smart Energy Meter Monitoring with	The International journal of
	Professor	Detection of Electricity Theft	analytical and experimental
			modal analysis, Volume XIII,
			ISSN NO:0886-9367, PAGE
			NO 1225, November/2021
7	Dr.P.Ramesh	IoT based Smart Stove Safety System	The International journal of
	Professor		analytical and experimental
			modal analysis, Volume XIII,
			ISSN NO:0886-9367, PAGE
			NO 429, November/2021

8	Dr.P.Ramesh	IOT Based Temperature and Face Mask	The International journal of
	Professor		analytical and experimental
			modal analysis, Volume XIII,
			ISSN NO:0886-9367, PAGE
			NO 1217, November/2021
9	Dr.P.Ramesh	Smart Energy Meter Monitoring with	The International journal of
	Professor	Detection of Electricity Theft	analytical and experimental
			modal analysis, Volume XIII,
			ISSN NO:0886-9367, PAGE
			NO 1225, November/2021
10	Ms.B.Deepika	Focus on Propagation Models in 5G	Volume 9 - ISSN NO:2395-
	Rathod Bhukya	MMW Communications for Large-Scale	1990, PAGE NO 814,
	Assoc. Professor	MIMO	December 10, 2021
11	Mrs.V Prathyusha,	A Novel Design of GSM & GPS Based	Journal of Engineering Science,
	Assoc. Professor	Women Safety Device Using Arduino	Vol 12, ISSN NO: 0377-9254,
		with Auto Power Generation	PAGE No:305, SEP /2021
12	Mrs.D.Sandhya	Design And Development of Robust IOT	ISSN NO:7, PAGE NO 298,
	Rani	Based Women	JULY,2021
	Assoc. Professor		
13	Mrs.D.Sandhya	An Effective IOT Based Smart Waste	Volume XIII, IISSN NO: 0022-
	Rani	Management With MQTT For Smart	1945, Page No: 1180, July/2021
	Assoc. Professor	Cities	
14	Mrs.P Mamatha	Iris Image Processing System and Iris	ISSN NO: 0022-1945, Page No:
	Assoc. Professor	Segmentation Technique Using	1173, JULY,2021
		MICORENET	
15	Mrs.P Mamatha	An Effective MIMO Channel	VOLUME 20, ISSN NO:7,
	Assoc. Professor	Measurements in MIMO Antenna	PAGE NO 290,JULY,2021
		Configurations For B 5G Wireless	
		Communication	
16	Mrs.P Mamatha	A Robustic Automatic Vehicle Number	VOLUME 20, ISSN NO:7,
	Assoc. Professor	Plate Recognition System Using in Image	PAGE NO 284,JULY,2021
		processing And Deep Learning	
		Technologies	
17	Mrs.Sandhya Bolla	Focus On Propagation Models in 5G	Volume 9 - ISSN NO:2395-
	Assoc. Professor	MMW Communications for Large-Scale	1990, PAGE NO 814,
		MIMO	December 10, 2021
		1	I

BOOK CHAPTERS

- Dr. G.Suresh, Professor contributed a book chapter "Wireless Smartphone Charger Device Expedition Optimization Technique for Wireless Sensor Network System" ISBN 978-81-952585-3-6, Dipti Press (OPC) Pvt. Ltd, 2021
- Dr.N C Sendhilkumar, Professor, contributed a book chapter "Cloud Computing with Wireless Network and Pattern Recognition" book title Electronic Devices and Circuits, Lambert Academic Publishing, Volume 1, Issue 1, PP62-66,2021.
- Dr.N C Sendhilkumar, Professor, contributed a book chapter "Advanced Microprocessor and Microcontroller" Lambert Academic Publishing, ISBN: 978-81-952459-2-5, 2021.

PATENTS FILLED AND PUBLISHED

- Dr.P.Ramesh, Professor, Invented "An Ultra-Fast Wireless Mobile Charging System for 5G Based Portable Communication Devices" Application Number, 202141041399A published on 01/11/2021.
- Mrs.V.Prathusha, Assoc. Professor, Invented "Low Power VLSI Implementation of Multi Layer Neural Networks" Application Number 202141031941, published on 23.07.2021.
- Mr.P.Srinivas, Assoc. Professor, Invented "Low Power VLSI Implementation of Multi Layer Neural Networks" Application Number 202141031941, published on 23.07.2021.
- Mr.E.Parasu Ramu, Assoc. Professor, Invented "Low Power VLSI Implementation of Multi Layer Neural Networks" Application Number 202141031941, published on 23.07.2021.
- Dr.P.Mukunthan, Professor, Invented "An Internet of Things based COVID spread prevention system and its method thereof" Application Number 202110421546, published on 15.07.2021.
- Dr.P.Mukunthan, Professor, Invented "Implementation of Real Time Multi Object Detection (MOT) by speed K210 AI Processor" Application Number 202141031941, published on 21.09.2021.
- Dr.P.Mukunthan, Professor, Invented "Self- Activated Talking BOT for Identification of smoking person's in public areas and alert them via automated voice generation" Application Number 202141057287, published on 09.12.2021.
- Mrs.P.Udayasri, Assoc. Professor, Invented "Advanced Microcontroller Bus Architecture (AMBA)'S VLSI Design for the AHB2APB Bridge" Application Number 202141033469 A, published on 06.08.2021.
- Mrs.B.Deepika Rathod, Assoc. Professor, Invented "Advanced Microcontroller
- Bus Architecture (AMBA)'S VLSI Design for the AHB2APB Bridge" Application Number 202141033469 A, published on 06.08.2021.

SOFT SKILLS TRAINING

In the present world largely driven by service industry, soft skills are much sought after, especially by IT companies. Very often recruiters, because of absence of these skills reject majority of the candidates. As we are all aware, the undergraduate years coincide with the most impressionable age of the students where their attitudes are developed, and preference & interests formed. Therefore, before stepping into the world of work students require proper initiation and the right personality. Personality enhancement program at our college are therefore exclusively designed to prepare entrepreneurial, learnable, employable & readily billable students



INDUCTION PROGRAM





STUDENTS TESTIMONIALS



KPIT – B.SARITHA, ECE

"First I am really thankful to our college, my lecturers and also placement cell for their continuous support and encouragement. Many thanks to all the placement office team which has always been very supportive and a backbone in everything related to placement activities which helped me to boost myself and getting placed in core company."

Mindtree – CH.VINAY, ECE

"I am very much thankful to Training and Placement Cell who brought us opportunities to show our talents in various company placement. T & P cell focuses on "Every Single Student should get an opportunity to prove his/her self in good companies as per our interest".





HCL-B.KEERTHANA, ECE

"I am very grateful to my placement cell for giving me the opportunity to appear in some of big software companies. Also I want to thank my entire faculty who supported me throughout my academics and the placement process."

COGNIZANT - M.NANDHINI, ECE

"My special thanks for the placement cell team who gave us humble support in achieving placement. They also have supported and worked in this pandemic time to make our future bright."



ORIENTATION PROGRAM

Orientation Program for First year B.Tech. Students organized on 29-11-2021 with an objective to help students and their parents to understand about academic programs, placement, career opportunities and various services that are available in the College. More than 1000 parents and students participated in the orientation program. Dr. Ramakrishna Rao, Dean and Dr. Suresh, Principal addressed the gathering.





Volume 6, Issue 1

EVENTS Bathukamma Celebration

















Volume 6, Issue 1

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY





Main Block

Girls hostel







ECE Block



Central Library



Cricket Ground