

# SETHU INSTITUTE OF TECHNOLOGY

AN AUTONOMOUS INSTITUTION | ACCREDITED WITH 'A' GRADE BY NAAC

Approved by AICTE, New Delhi & Permanently Affiliated to Anna University, Chennai

PULLOOR - 626 115, KARIAPATTI (TK), VIRUDHUNAGAR DISTRICT.

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



# SOECE Newsletter

2020-2021



## the EDITORIAL board



### Faculty Members

Dr.A.Merline, Prof.& Dean/ECE  
Dr.M.Parisa Beham , Prof & Head/ECE  
Mrs.G.Ramupriya, AP/ECE  
Mrs. M. Pandimadevi, Asst. Prof. (S.G)/ECE

### Student Members

Mr.A.R.Pranau Ramana, III ECE  
Mr.R.Selva Prakash, II ECE

## VISION AND MISSION OF THE INSTITUTE

### **Institute Vision:**

To promote excellence in technical education and scientific research for the benefit of the society

### **Institute Mission:**

- To provide quality technical education to fulfill the aspiration of the student and to meet the needs of the Industry.
- To provide holistic learning ambience.
- To impart skills leading to employability and entrepreneurship.
- To establish effective linkage with industries.
- To promote Research and Development activities.
- To offer services for the development of society through education and technology.

## VISION AND MISSION OF THE DEPARTMENT

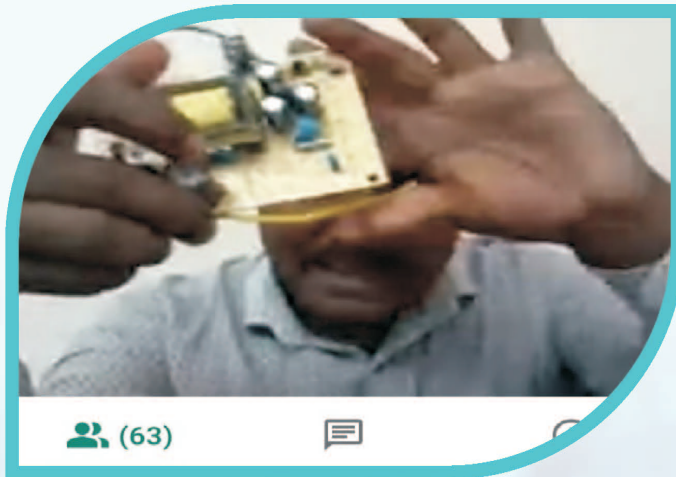
### **Department Vision:**

To achieve excellence in education and research in the field of Electronics and Communication Engineering for the development of society

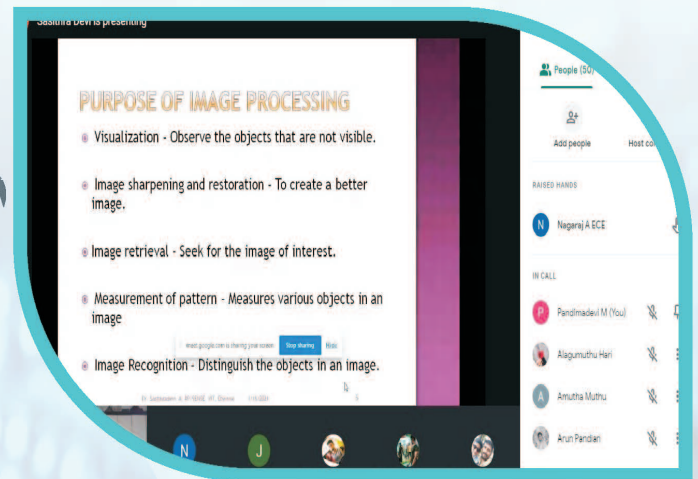
### **Department Mission**

- Imparting quality technical education in Electronics and Communication Engineering through contemporary laboratory facilities and accomplished faculty to cater to the needs of the industry
- Providing a conducive learning environment through the state of the art infrastructure and innovative teaching learning practices
- Infusing the professional skills needed for employability and entrepreneurship
- Collaborating with industries for mutual benefit of knowledge transfer
- Promoting research in Electronics and Communication Engineering
- Providing services to the society through extension activities and technology enabled services

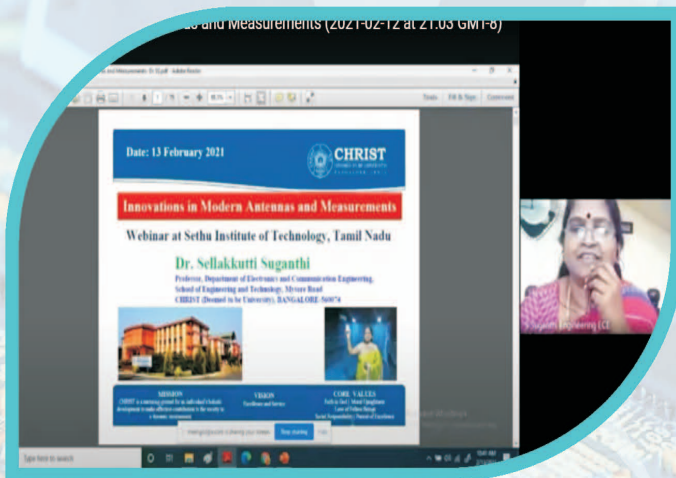
## PROGRAMS ORGANIZED



One-week Internship on “PCB Design”, was conducted from 19.10.2020 to 24.10.2020. Mr.Parthiban, Managing Director, Caliber Embedded Technologies Ltd, Salem handled the hands-on training sessions of the Internship.



Webinar program on “Innovations in Image and Video Processing”, was conducted on 16.01.2021. Dr.A.Sasithra devi, Assistant Professor / SENSE, VIT, Chennai handled the technical session of the webinar.



Webinar program on “Innovations in Modern antennas and Measurements”, was conducted on 13.02.2021. Dr.S.Suganthi, Professor/ECE, Christ University, Bangalore handled the technical session of the webinar.



Webinar program on “Class J Mode Power Amplifier for 5G Smart Meter Applications”, was conducted on 05.06.2021. Dr. Chinnaiyan Senthilpari, Senior Lecturer/Faculty of Engineering, Multimedia University, Malaysia handled the technical session of the webinar.

## LIST OF PROGRAMS ORGANIZED DURING 2020-21

- Webinar on, ” **Practical Applications of Control Systems in Industry**”, was organized on 17.07.2020. Er.B.Kannan, Senior Engineer, Mcdermott Engineering ,Chennai , handled the technical session of the webinar.
- Webinar on, ” **Applications of Deep Learning in Medical Imaging-A Research Perspective**”, was organized on 17.07.2020. Dr.R.Murugan AP/ECE, NIT, Silchar, Assam handled the technical session of the webinar.
- Webinar on, ” **Smart Research Challenges for budding engineers**”, was organized on 29.08.2020. Dr.N.Balaji, Dean/ICT, Sethu Institute of Technology, Kariapatti handled the technical session of the webinar.
- Webinar on, ” **Smart Research Challenges for budding engineers**”, was organized on 29.08.2020. Dr.N.Balaji, Dean/ICT, Sethu Institute of Technology, Kariapatti handled the technical session of the webinar.
- One Week Internship program on “**PCB design**” was organized from 19.10.2020 to 24.10.2020. Mr.Parthiban, Managing Director, Caliber Embedded Technologies Ltd, Salem handled the technical session of the webinar.
- Webinar on, ” **Deep Learning with Matlab**”, was organized on 22.10.2020. Mr.D.Rajkumar, Application Engineer, Designtech Systems Pvt. Ltd, Chennai handled the technical session of the webinar.
- Webinar on, ” **Innovations in Next generation 3D VLSI technology**”, was organized on 07.01.2021. Dr.A.Kishore Kumar, Associate Professor/ECE, Hindustan College of Engineering & Technology, Coimbatore handled the technical session of the webinar.
- Webinar on, ” **Innovations in Image and Video Processing**”, was organized on 16.01.2021. Dr.A.Sasithra devi, Assistant Professor/SENSE VIT, Chennai handled the technical session of the webinar.
- Webinar on, ” **Future Trends in Optical Fiber sensors**”, was organized on 18.01.2021. Dr.A.Kavitha, Professor/ECE, M.Kumarasamy College of Engineering, Karur handled the technical session of the webinar.
- Webinar on, ” **Antenna design to Fabrication**”, was organized on 21.01.2021. Mr.R.Jegan Mani, Senior Software Engineer, Mathwork India Pvt. Ltd, Bengaluru handled the technical session of the webinar.
- Webinar on, ” **Innovations in Neuro technologies in BCI applications**”, was organized on 27.01.2021. Dr.S.Bagyaraj, Associate Professor, SSN college of Engineering, Chennai handled the technical session of the webinar.
- Webinar on, ” **Innovative Benefits of Vehicle ADHOC networks**”, was organized on 30.01.2021. Dr.R.Senthamil Selvan, Associate Professor/ECE, Chadalavada Ramanamma Engineering College, Andhra Pradesh handled the technical session of the webinar.
- Webinar on, ” **Innovations in Modern antennas and Measurements**”, was organized on 13.02.2021. Dr.S.Suganthi ,Professor/ECE, Christ University, Bengaluru handled

the technical session of the webinar.

- Webinar on, ” **Class J Mode Power Amplifier for 5G Smart Meter Applications**”, was organized on 05.06.2021. Dr. Chinnaiyan Senthilpari Senior Lecturer, Faculty of Engineering (FOE), Multimedia University, Malaysia handled the technical session of the webinar.
- Webinar on, ” **March ahead Lady**”, was organized on 11.06.2021. Mrs.Aparna P Ramkumar, IT Consultant, TCS, Bangalore handled the technical session of the webinar.
- Webinar on, ” **Adoption of Cloud Technology in MNCs**”, was organized on 28.06.2021. Mr.Sendurapandi.Sannasi, System Executive Mediterranean Shipping Company, Chennai handled the technical session of the webinar.
- Webinar on, ” **Next generation Fuel-Hydrogen**”, was organized on 30.06.2021. Mr.B.V.Kumaresan, Global Marketing Specialist, A Baker Hughes Business, Australia handled the technical session of the webinar.

### **PUBLICATIONS BY FACULTY**

- **S. Nazarath Begam, A. Ayesha mariam, M. Sheik Dawood, S. H. Mohamed Ameen and M. Sivabharathy,**” **Study on Second and Third Order Nonlinear Optical Properties of Triglycine Sulpho Succinate Single Crystals**” Annals of the Romanian Society for Cell Biology, Vol. 25, Issue 5, Pages. 1549-1561,2021.
- **S. Bagyaraj, R.Tamilselvi, M. Parisa Beham and D.Sabarinathan, Devanathan,**”**Brain tumour cell segmentation and detection using deep learning networks**” IET Image Processing. 15. 2363-2371,2021, 10.1049/ipr2.12219.
- **M.Sheik Dawood, Sakena Benazer, R.Karthick ,R.Senthil Ganesh and S.Sugirtha Mary,** “**Performance analysis of efficient video transmission using EvalSVC, EvalVid-NT, EvalVid**”, Materials Today: Proceedings. 46. 10.1016/j.matpr.2021.02.287.
- **E.Johny, J.Mohanalini, and P.Vasuki,**”**A novel voice activity detection algorithm using modified global thresholding**”, International Journal of Speech Technology. 24(12),2021,10.1007/s10772-020-09777-w.
- **K.A.Shahul Hameed, S. Abubacker,A. Banumathi & G.Ulaganathan,**” **Immuno histochemical analysis of oral cancer tissue images using support vector machine**”, Measurement, 173(2),2020, 10.1016/j.measurement.2020.108476.
- **M.Pandimadevi and R.Tamilselvi,**” **Design and Fabrication of Flexible Antenna Using Foam Substrate for WiMAX Applications**” Micro-Electronics and Telecommunication Engineering,pp.191-202,2021, 10.1007/978-981-33-4687-1\_19.
- **M.Sheik Dawood, Sakena Benazer, N.Nanthini, R.Devika and R.Karthick,**”**Design of rectenna for wireless sensor networks**”, Materials Today: Proceedings,45(6),2021, 10.1016/j.matpr.2020.11.905.
- **S.Sakena Benazer,M. Sheik Dawood, R.Karthick and G. Saranya,** “**Efficient model for IoT based railway crack detection system**”, Materials Today: Proceedings, Volume

45, Part 2, 2021, pp:2789-2792, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.11.743>.

- **M. Sheik Dawood, S. Sakena Benazer, S.K. Vijaya Saravanan and V. Karthik,**” **Energy efficient distance based clustering protocol for heterogeneous wireless sensor networks**”, Materials Today: Proceedings, 45(2),2021, pp: 2599-2602, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.11.339>.
- **S Sakena Benazer, M Sheik Dawood, G Suganya, R.Karthick,**” **Performance analysis of modified on-demand multicast routing protocol for MANET using non forwarding nodes**”, Materials Today: Proceedings Elsevier,45(2) pp: 2603-2605,2021.
- **P. Sabarish, R. Karthick, A. Sindhu, N. Sathiyathan,**” **Investigation on performance of solar photovoltaic fed hybrid semi impedance source converters**”, Materials Today : Proceedings , 45 ( 2 ) , pp : 1597 - 1602,2021, <https://doi.org/10.1016/j.matpr.2020.08.390>.
- **R.Karthick, R.Ramkumar, M. Akram, M. Vinoth kumar,**” **Overcome the challenges in bio-medical instruments using IOT–A review**”, Materials Today: Proceedings Elsevier, 2021.
- **P.Vasuki, A.Shakin Banu, S.Mohamed Mansoor Roomi, G.Maragatham,**” **Efficient Target Detection and Classification of SAR Images Using Z-Buffer Convolutional Neural Networks**”, Smart Trends in Computing and Communications: Proceedings of SmartCom 2020, pp:449-458, 10.1007/978-981-15-5224-3\_45.
- **C. Kalavalli, P. Meenalochini, P. Selvaprasanth, S. Syed Abdul Haq,**” **Dual loop control for single phase PWM inverter for distributed generation**”, Materials Today: Proceedings,45(2),pp:2216-2219,2021, <https://doi.org/10.1016/j.matpr.2020.10.116>.
- **M.Pandimadevi and R.Tamilselvi,**” **Design and fabrication of flexible antenna for WiMAX applications**”, International Conference on Micro-electronics and telecommunication Engineering ICMETE-2020, SRM institute of Science and Technology, Ghaziabad, 26-27 September, 2020.
- **M.Pandimadevi, R.Tamilselvi and M.Parisa Beham,**” **Design and simulation of flexible jute antenna with performance validation on bending and soaking conditions**”, Textile Research Journal, vol. 91, no. 1-2, pp. 219-231, 2021, <https://DOI:10.1177/0040517520935978>.
- **S.Bagyaraj, R.Tamilselvi, M.Parisa Beham, V.Kalaiarasi, A.Ishwarya Lakshmi, V.Harrini, D.Vaithiyathan ,**” **Detection of Bone Cancer in X-Ray Images**”, Solid State Technology, 63(3),2020.
- **R.Karthick, S.Meenalochini, M.Sheik Dawood, M.Akram and P. Selvaprasanth,**” **A Geographical Review: Novel Coronavirus (COVID-19) Pandemic**”, Asian Journal of Applied Science and Technology (AJAST), 4(2), pp:44-50,2020, <https://ssrn.com/abstract=3712862>.
- **T.Ruba, R.Tamilselvi, M.Parisa Beham and N.Aparna,**” **Accurate Classification and**

**Detection of Brain Cancer Cells in MRI and CT Images using Nano Contrast Agents**", Biomed Pharmacol Journal, 13(3), 2020.

- S.M. Nazia Fathima, **R Tamilselvi** and **M Parisa Beham**," **A Survey on Osteoporosis Detection Methods with a Focus on X-ray and DEXA Images**", IETE Journal of Research, 2020, <https://doi.org/10.1080/03772063.2020.1803771>.
- **A. Shakin Banu**, **P. Vasuki**, S. Md Mansoor Roomi, "**Target detection in SAR images using Bayesian Saliency and Morphological attribute profiles**", Computer Communications, 160, pp: 738 - 748, 2020, <https://doi.org/10.1016/j.comcom.2020.03.018>.

### **FDP / WORKSHOP/ SEMINAR PROGRAMS ATTENDED BY FACULTY**

- Dr.M.Parisa Beham and Dr.R.Tamilselvi attended," **Teqip-III MIBHI 2020 - Machine Intelligence in Biomedical and Health Informatics-2020**" from 20.08.2020 to 24.08.2020, National Institute of Technology, Silchar.
- Dr.M.Parisa Beham attended ," **Deep learning with Matlab and Python**", 13.07.2020 to 17.07.2020, SRM Institute of Science and technology, Chennai.
- Dr.M.Sheik Dawood attended," **Artificial Intelligence and 5G communication Technology**", from 07.12.2020 to 12.12.2020, Poornima College of Engineering, Jaipur.
- Dr.R.Karthika Devi attended ATAL FDP on, "**Precision Health Technology**", from 14.12.2020 to 18.12.2020, Thiagarajar College of Engineering, Madurai.
- Dr.K.A.Shahul Hameed attended NPTEL- AICTE FDP on," **Deep learning**", during January-April 2021, IIT Madras.
- Mrs.P.Deepa and Mrs.T.Ruba attended one week FDP on," **Smart Sustainable Farming (SSF) based on IoT perspective**", from 17.05.2021 to 22.05.2021, Sethu Institute of Technology,Kariapatti.
- Dr.N.R.Indira attended Webinar on "**Innovation in Neuro technologies for BCI Applications**", organized by Sethu Institute of Technology on 22.01.2021.
- Dr.N.R.Indira attended Webinar on "**Design and Development of MIMO antennas for 5G & Wireless Application- A research perspective**", organized by Sethu Institute of Technology on 29.01.2021.
- Dr.N.R.Indira attended Webinar on "**Future Telecommunication - A door opener to 6G**", organized by Sethu Institute of Technology on 24.06.2021.
- Dr.N.R.Indira, Mr.Manoj Prabakaran,Mr.P.Selva Prasanth attended Webinar on "**Cyber Security Challenges in Future**", organized by Sethu Institute of Technology, Kariapatti on 26.06.2021.
- Dr.N.R.Indira attended Webinar on "**Next Generation fuel- Hydrogen**", organized by Sethu Institute of Technology, Kariapatti on 30.06.2021.
- Mrs.M.Pandimadevi attended FDP on "**Advanced Communication laboratory**", from 20.07.2020 to 25.07.2020, PSNA College of Engineering & Technology, Dindigul.
- Mrs.M.Pandimadevi attended FDP on "**Recent Advancement in Semiconductor**

- Technologies**", from 09.10.2020 to 14.10.2020, SRM Institute of Science and technology, Chennai.
- Mrs.M.Pandimadevi attended FDP on "**mm wave Antenna Design and Testing for Biomedical Applications**", from 07.12.2020 to 12.12.2020, Rajalakshmi Institute of Technology, Chennai.
  - Mrs.M.Pandimadevi attended workshop on "**Design of Nano electronics and Nano photonic device using Advanced software Tools**", from 26.04.2021 to 08.05.2021, GITAAutonomous College, Bhubaneswar.
  - Mrs.M.Pandimadevi attended workshop on "**Basic Training in Nano science and Technology**", from 10.05.2021 to 12.05.2021, IISc, Bangalore.
  - Dr.N.R.Indira ,Mr.D.John Pragasam,Mrs.M.Pandimadevi, , G.Ramupriya, T.Ruba, G.Nagaraj attended webinar on "**Class J Mode Power Amplifier for 5G smart meter Applications**", organized by Sethu Institute of Technology,Kariapatti on 05.06.2021 .
  - Mrs.R.Devika attended ATAL FDP on, "**Energy Engineering**", from 26.09.2020 to 30.09.2020, National Institute of Technology, Silchar.
  - Dr.N.R.Indira ,Mr.B.Muthupandian, Mr.D.John Pragasam, Mrs.M.Pandimadevi, G.Ramupriya, G.Nagaraj and T.Ruba, attended webinar on "**Innovation in Image and video processing**", organized by Sethu Institute of Technology, Kariapatti on 16.01.2021.
  - Dr.N.R.Indira ,Mr.B.Muthupandian, Mr.D.John Pragasam, Mrs.M.Pandimadevi, G.Ramupriya, N.Kaniamudham , G.Nagaraj and T.Ruba, attended webinar on "**Innovation in Modern Antenna and Measurements**", organized by Sethu Institute of Technology, Kariapatti on 13.02.2021.
  - Mr.B.Muthupandian, Mr.D.John Pragasam, Mrs.M.Pandimadevi, G.Ramupriya, N.Kaniamudham , G.Nagaraj and T.Ruba, attended webinar on "**Adoptation of Cloud technology in MNCs**", organized by Sethu Institute of Technology, Kariapatti on 16.06.2021.
  - Mrs.R.Devika attended ATAL FDP on, "**Creating Innovation and Startups with Internet of Things**", from 07.06.2021 to 11.06.2021,ITM.
  - Dr. N. R. Indira, Mr. B. Muthupandian, Mr. D. John Pragasam, Mrs.M.Pandimadevi,Mr.S.Selvakumar, G.Ramupriya, N.Kaniamudham , G.Nagaraj, attended webinar on "**Smart research challenges for Budding Engineers**", organized by Sethu Institute of Technology, Kariapatti on 29.08.2021.
  - N.Kaniamudham attended webinar on "**Introduction to Functional Programming to JAVA**", organized by Sethu Institute of Technology, Kariapatti on 03.09.2021.
  - N.Kaniamudham attended webinar on "**How to publish article in SCI journals using info -Graphics tools**", organized by Sethu Institute of Technology, Kariapatti on 15.09.2021.
  - Dr.R.Karthick attended webinar on "**Simulation of Electrical and Electronics projects using proteus software**", organized by Sethu Institute of Technology, Kariapatti on 07.07.2020.
  - Dr.R.Karthick attended workshop on "**Research challenges in power and energy**

- systems”, organized by Sethu Institute of Technology, Kariapatti from 21.07.2020 to 2.07.2020.
- Dr.R.Karthick attended webinar on ” **Application of Electrical Engineering in Ocean research**”, organized by Sethu Institute of Technology, Kariapatti on 17.09.2020.
  - Dr.N.R.Indira, Mrs.M.Pandimadevi, Mrs.G.Ramupriya,Dr.R.Karthick attended webinar on ” **Antenna Design to Fabrication**”, organized by Sethu Institute of Technology, Kariapatti on 21.01.2021.
  - Dr.N.R.Indira, Mrs.M.Pandimadevi, Mrs.G.Ramupriya, Dr.R.Karthick, Mr.B.Michael Vinoline Rinoj, Mr.P.Selva Prasanth ,Mr.P.Manoj Prabhakaran, Mr.G.Nagaraj attended webinar on ” **Innovation in Neuro technologies for BCI Applications**”, organized by Sethu Institute of Technology, Kariapatti on 27.01.2021.
  - Mr.A.Nagaraj attended a webinar on” **Evolution of Automotive Electronics**” organized by PSNA College of Engineering & Technology, Dindigul on 18.07.2021.
  - Mr.A.Nagaraj attended ” **AICTE Sponsored one week online STTP on Automotive Embedded system using IoT** ” organized by Sri Krishna College of Engineering & Technology, Coimbatore from 27.07.2020 to 01.08.2020.
  - Mr.A.Nagaraj attended a webinar on” **Non-orthogonal Multiple Access: Fundamentals and Academic-Industry Perspectives**” organized by Rise Krishna Sai Prakasan Group of institutions, Andhra Pradesh on 08.08.2020.
  - Mr.A.Nagaraj attended ATAL FDP on, “**Medical Image Processing & Deep Learning Technologies**”, from 21.09.2020 to 25.09.2020, Panimalar Institute of Technology,Chennai.
  - Mr.N.Sathiyathan attended a webinar on” **Nano Scale Semiconductor Devices in VLSI design**” organized by PSNA College of Engineering & Technology, Dindigul on 27.07.2020.
  - Mr.N.Sathiyathan attended a webinar on” **MEMS & NEMS sensors and actuators**” organized by PSNA College of Engineering & Technology, Dindigul on 28.07.2020.
  - Mrs.Fathunisha attended a Workshop on” **Deep Learning with MATLAB and Python**” organized by SRM Institute of Science and technology, Chennai from 13.07.2020 to 17.07.2020.
  - Mrs.Fathunisha attended a Workshop on” **Emerging Trends in Renewable Energy and Green Technology**” organized by Easwari Engineering College, Chennai from 21.06.2020 to 02.07.2020.
  - Mrs.A.Shakin Banu attended webinar on ” **Successful Startup founder**”, organized by Sethu Institute of Technology, Kariapatti on 11.03.2021.

### **SPECIAL LECTURES DELIVERED BY THE FACULTY IN OTHER INSTITUTIONS**

<b>Sl. No.</b>	<b>Name of the Faculty</b>	<b>Date of the Lecture</b>	<b>Lecture Topic</b>	<b>Name of the College/Institute</b>
1	Dr.R.Karthik	13.06.2021	Five day skill Development workshop on Career Guidance & Employability for Young Generation	Chadalawada Ramanamma Engineering College, Andhra Pradesh

### **CO-CURRICULAR ACTIVITIES BY STUDENTS**

<b>S.No</b>	<b>Date</b>	<b>Name of the student</b>	<b>Year</b>	<b>Title</b>	<b>Venue</b>
1.	19.07.2020	V. Raja Prabhu	III-B	Seminar on, "An introduction to process design"	St.Joseph College of Engineering
2.	19.07.2020	A.R.Pranau Ramana Mani	III-B	Seminar on, " An introduction to process design"	St.Joseph College of Engineering
3.	22.10.2020	A.R.Pranau Ramana Mani	III-B	Seminar on, "National language Processing"	Kongunadu college of Engineering and Technology
4.	22.10.2020	V. Raja Prabhu	III-B	Seminar on, "National language Processing"	Kongunadu college of Engineering and Technology
5.	22.10.2020	K. Rahul	III-B	Seminar on, "Natural languages processing"	Kongunadu college of Engineering and Technology
6.	11.07.2020	M.Mohamed Hazzali	III-B	Two-day E workshop on, " OBS studio and E-content creation and Live streaming"	Dr.MGR Educational and Research Institute

7.	13.07.2020	A.R.Prana Ramana Mani	III-B	Workshop on ,"Keeping carrier options open : pros and cons"	St.Joseph College of Engineering
8.	13.07.2020	V. Raja Prabhu	III-B	Workshop on," Keeping carrier options open : pros and cons"	St.Joseph College of Engineering
9.	18.07.2020	T S Mohamed Subair	III-B	International Workshop on," Continuous Improvement"	St.Joseph's college of engineering
10.	17.10.2020	M.Mohamed Hazzali	III-B	Two-day Training on, "Case Studies in Deep Learning"	Ramco Institute Of Technology
11.	18.07.2020	Abu Aslam A	III-A	Workshop on," Continuous Improvement"	St.Joseph's college of engineering
12.	18.07.2020	T S Mohamed Subair	III-B	Workshop on," Continuous Improvement"	St.Joseph's college of engineering
13.	29.10.2020	M.Mohamed Hazzali	III-B	Three-day Workshop on, "Student Entrepreneur"	Anna University, Chennai
14.	08.06.2020	S.Harshini	II-A	Webinar on ,"- Career Guidance"	Sethu Institute of Technology
15.	01.07.2020	V.Gayathri	II-A	Webinar on ,"C programming"	Caliber Embedded Technologies, Salem
16.	21.07.2020	S.Harshini	II-A	Webinar on ,"E- Sim 2.0"	Sethu Institute of Technology
17.	29.07.2020	S.Tamil Bharathi	IV - C	Webinar on ," Medical Signal analysis"	PSNA college of Engineering Technology - Dindigul
18.	22.08.2020	S.Harshini	II-A	Webinar on ,"Mobile Communication"	Sethu Institute of Technology

19.	22.08.2020	Brindha.A	II-A	Webinar on ,"Mobile Communication"	Sethu Institute of Technology
20.	29.08.2020	Selva Lakshmi.S	II-C	Webinar on ,"Smart Research Challenges for Budding Engineers"	Sethu Institute of Technology
21.		S.Yuvarajan			
22.		Venkatesh.S			
23.		Surenika.S			
24.	29.08.2020	Saravana Kumar.S	II-C	Webinar on ,"Smart Research Challenges for Budding Engineers"	Sethu Institute of Technology
25.		S. Tamil Bharathi			
26.		Sivasankerasan. S			
27.	29.08.2020	D. Angelin Grace	IV-A	Webinar on ,"Smart Research Challenges for Budding Engineers"	Sethu Institute of Technology
28.		Joyce Priya S			
29.		Sagitya V B	IV-C		
30.		Vignesh P			
31.	16.01.2021	G.Jayashree	III-A	Webinar on "Innovations in Image and Video Processing"	Sethu Institute of Technology
32.		S.Nivetha Lakshmi			
33.		M.Amutha			
34.		Jancy Angel M			
35.		J. Arshad Khan			
36.	R.Jeyapriya				

37.	16.01.2021	P.Rithick Sarathy	III-A	Webinar on “Innovations in Image and Video Processing”	Sethu Institute of Technology
38.		Surenika.S			
39.		S. Tamil Bharathi			
40.		S Seetha Lakshmi			
41.	13.02.2021	Kokila . V	II-B	Webinar on “Innovations in Modern antennas and measurements”	Sethu Institute of Technology
42.		Jegan.U.N			
43.		R.Jeson Antojoy			
44.		Krishna Priya V S			
45.	13.02.2021	J.B.Samyuktha	II-C	Webinar on “Innovations in Modern antennas and measurements”	Sethu Institute of Technology
46.		E.Lavanyaa	II-B		
47.		Karthiga Mai T.G.	II-B		
48.		Kamali.S	II-B		
49.	19.09.2020	Bavithra .A	II-A	Webinar on ,”Python for beginners	Sethu Institute of Technology
50.		Arun kumar .M			
51.		I Srinithi	IV C		
52.		Vimala. G			
53.		Renuga.M			
54.	26.09.20	Brindha.A	II-A	Webinar –IOT	Sethu Institute of Technology
55.	19.10.20	Arunprakash.R	II-A	Webinar –6G technology	Navodaya Institute of technology
56.	21.10.20	Arunprakash.R	II-A	Webinar –Data science	The American college ,Madurai
57.	30.01.21	Bavithra .A	II-A	Webinar on ,”Innovative benefits of vehicle of ADHOC”	Sethu Institute of Technology
58.	30.01.21	Arunkumar .M			
59.	30.01.21	Arunprakash. R			
60.	21.01.21	Bavithra .A	II-A	Webinar on,” Antenna Design”	Sethu Institute of Technology

61.	21.01.21	Arunkumar .M	II-A	Webinar on ,”Antenna Design”	Sethu Institute of Technology
62.	18.01.21	Bavithra .A	II-A	Webinar on,” Future trends in fiber optic sensor”	Sethu Institute of Technology
63.	18.01.21	Gowri.G	II-A	Webinar on ,”Future trends in fiber optic sensor”	Sethu Institute of Technology
64.	03.05.21	S.Harshini	II-A	Webinar on “Biped robot and its control”	Dr.Ambedkar Institute of Technology
65.	17.05.21	S.Harshini	II-A	Webinar on ,”Digital transformation”	IEI Madurai
66.	05.06.2021	V.R.Veena	II-C	Webinar on ,”Class J mode Power Amplifier for smart meter applications”	Sethu Institute of Technology
67.		Vishnu Praba .V			
68.		J.B.Samyuktha			
69.		Veerasakthi P			
70.		R.Sampavi Sarani			
71.	05.06.2021	Vasanth M	II-C	Webinar on ,”Class J mode Power Amplifier for smart meter applications”	Sethu Institute of Technology
72.		Shiyam R			
73.		Ramar.P			
74.		Sathiya Moorthy R C			
75.	05.06.2021	M.Sanjay Kumar	II-C	Webinar on ,”Class J mode Power Amplifier for smart meter applications”	Sethu Institute of Technology
76.		Sudir C			
77.		Sivasankarasan. S			
78.		Tj Ram Prasath			
79.		A. Thirumaran			

80.	26.04.2021	S.Madhana Gopal	III-B	Participated in online quiz	University College of Engineering, Nagercoil
81.	26.04.2021	A.Kishore Kumar	III-B	Participated in online quiz	University College of Engineering, Nagercoil
82.	6.07.2020	A.Kishore Kumar	III-B	Participated in online quiz conducted by	Arulmigu Meenakshi Amman college of Engineering, Kancheepuram
83.	1.07.2020	M.Anbuselvi	III-A	Participated in Braino Quiz	Sethu Institute of Technology
84.	21.07.2020	A.Jeya Bharathi	III-A	Participated in online Quiz	Sethu Institute of Technology
85.	06.07.2020	A.R.Prana Ramana Mani	III-B	Participated in online Quiz	Mahaveer Engineering college

### **EXTRA CURRICULAR ACTIVITIES BY STUDENTS**

S.No	Date	Name of the student	Year	Position/ Participation	Venue
1.	10.10.2020	T.M.Beninal	III -A	Participated in Speech Contest conducted by SIT toast master club	Toastmaster club
2.	28.11.2020	M.Bharkavi Sandhiya	III -A	Completed Level 1 of innovative planning	Toastmaster club
3.	09.04.2021	M.Nishadh Hussain	III -B	Certificate of honour for voluntary blood donation	Social Service- Blood Donation

4.	25.03.21	Shanthosh Kumar K	I-C	Certificate of honour for voluntary blood donation	Social Service- Blood Donation
5.	19.03.2021	A.R.Pranau Ramana Mani	III -B	Participated in Young Entrepreneur Conclave 2021	EDP cell
6.	19.03.2021	M.Ramesh	III -B	Participated in Young Entrepreneur Conclave 2021	EDP cell
7.	May-21	M.Jancy Angel	III -A	Selected as top 10 projects in Young Entrepreneur Conclave 2021	EDP cell
8.	21.02.2021	M.Jancy Angel	III -A	Participated in Table Topics Contest conducted by SIT toast master club	Toastmaster club
9.	03.09.2020	M.Jancy Angel	III -A	Completed Level 1 of innovative planning	Toastmaster club
10.	21.12.2020	C.Monica	I-B	awarded III prize in Tamil Elocution conducted by Sethu Institute of Technology	Sethu Institute of Technology
11.	21.12.2020	C.Monica	I-B	awarded II prize in Vaarthai Vilayaattu conducted by Sethu Institute of Technology	Sethu Institute of Technology

12.	21.12.2020	C.Monica	I-B	awarded III prize in Painting solo conducted by Sethu Institute of Technology	Sethu Institute of Technology
13.	22.12.2020	A.Abdul Gaffoor	I-A	awarded III prize in Dance solo conducted by Sethu Institute of Technology	Sethu Institute of Technology
14.	30.04.2021 & 1.05.2021	S. Tamil Bharathi	II-C	Participated in Meme Creation and Quiz conducted by ABILITA2K21	Sethu Institute of Technology

### **PARTICIPATION IN PROJECT CONTEST BY STUDENTS**

S.No.	Name of the Students	Year	Title of the Project	Position held/ Participation	Name of the Project Contest & Venue
1.	M. Jancy Angel	III-A	Blind Walker Walking stick with Intelligence	One of the top 10 projects	Young Entrepreneur Conclave 2021, May 2021, Go Tech solutions, Chennai
2.	S.Manobala	II -B	Women's Safety Device	Participation	Model Marathon, 8 <sup>th</sup> May 2021, Kongu Engineering College, Perundurai
	M.Manoj	II -B			
	R.Sampavi Sarani	II-C			
3.	S.K.Gayathri	IV-A	Weecare: A non -invasive Fetal stress monitoring device	Participation	VISAI 2021, 24 <sup>th</sup> February 2021, Veltech, Chennai
	M.Durga Devi				
	P.Joshika				
4.	A.R.Pranau Ramana Mani	III-B	Advance Smart garbage system using RFID	Participation	INNOTHON 21-A National Level Hackathon, February 2021
	V.Raja Prabhu				
	M.Mohamed Hazzali				

## PLACEMENT ACTIVITIES

SOECE congratulates the following students of 2020 - 21 batches who got placement in various reputed organizations.



S. No.	Name of the student placed	Name of the Employer
1.	Aabitha Nazrin S	Vuram
2.	Aafrin Shaqthaj J	WIPRO + NU TECH
3.	Aarthi M	Focus Edumatics
4.	Aarthy S	HCL + AIM STORM
5.	Abarna K	Chainsys
6.	Akshaya K	Soft square + Kanini systems + HCL
7.	Anbu Selvi K	CETAS Information Technology Pvt Ltd
8.	Archana Shre M	CTS
9.	Arul Muthu Kumar S	JASMINE
10.	Arun Sakthi S	AIM STORM
11.	Christina Magdalin J	Chainsys
12.	Dhanalakshmi P	SUGI INFOTECH + Focus Edumatics
13.	Durga Devi M	TCS+ CTS
14.	Ebinezer Raj F	HCL
15.	Esther Vincy Mary M	CTS
16.	Gayathri S K	TCS
17.	Guru Shankar S R	AIM STORM
18.	Guruvishnu S	HCL
19.	Irudaya Sherlin A	HCL + Focus Edumatics
20.	Jael Evangelin S	HCL + Focus Edumatics
21.	James Daniel J	AIM STORM
22.	Joyce Priya S	AIM STORM + Focus Edumatics
23.	Kanaga K	AIM STORM
24.	Keerthana A	NEEYAMO
25.	Manoj Kumar M	Sure Soft
26.	Mohamed Rizwan M	HCL + Sure Soft



27.	Mohamedsuhail P M	HCL
28.	Mukesh Kiran P	Solartis + AIM STORM
29.	Nagalakshmi G	NEEYAMO
30.	Nageshwaran D	HCL
31.	Nandhini A	AIM STORM
32.	Nivetha A	AIM STORM + HCL
33.	Oorkavalan P	Focus Edumatics
34.	Padmapriya D	CTS
35.	Praveen Nikethan K	HCL
36.	Prithiviraj S	Chainsys
37.	Priyadharshini K	Chainsys
38.	Priyadharshini S	AIM STORM + Radicle start info lab + SMI
39.	Priyanka B	INFOSYS + Focus Edumatics + AIM STORM
40.	Rooban Kumar B	Aspire
41.	Roopa Sri R	SMI + Focus Edumatics + AIM STORM
42.	Sagitya V B	Solartis
43.	Sandhiya S	NEEYAMO
44.	Sangeetha T	TCS
45.	Santhosh Kumar S	Triangle Technology
46.	Sathish Kumar B	HCL + Soft square+ JAD FOCUS
47.	Sathishkumar S	CTS
48.	Serena Julius A	vuram
49.	Sherin Kirupha D N	HCL
50.	Shifa A	AIM STORM
51.	Suruthi M	Focus Edumatics
52.	Surya Prakash K	CTS
53.	Tamilbharathi S	Solartis
54.	Thirumoorthy R	Focus Edumatics
55.	Thipthi K	Focus Edumatics
56.	Vijay K	JASMINE
57.	Vishnu Kumar T K	Soft square + Kanini systems

## PROGRAMME EDUCATIONAL OBJECTIVES

Our graduates will

- Possess strong technical knowledge in Electronics and Communication Engineering to address the real world challenges (**Core Competence**)
- Demonstrate continual interest to learn new technologies for successful professional career (**Lifelong Learning**)
- Exhibit professional skills and practice ethical principles with social consciousness (**Professionalism**)

## PROGRAMME OUTCOMES

### **PROGRAM OUTCOMES (POs)**

1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. (**Engineering knowledge**)
2. Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. (**Problem Analysis**)
3. 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. (**Design and Development of Solutions**)
4. 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. (**Conduct Investigations of Complex Problems**)
5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. (**Modern Tool Usage**)
6. 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. (**The Engineer and Society**)
7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. (**Environment and Sustainability**)
8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. (**Ethics**)
9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. (**Individual and Team Work**)
10. 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. (**Communication**)
11. 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. (**Project Management and Finance**)
12. 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. (**Life-long learning**)