



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

NEWS LETTER
(JANUARY To JUNE 2022)

**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 encourages radical and original thinking which paves the way for creativity and innovative ideas. The qualities inculcated into the students make them not only good engineers but good human beings also. The excellent placement record which has been consistently above 80 % for the past several years, alone of our students is ample testimony to the emphasis that has been placed on the industrial needs of our country.

www.ssmiet.ac.in

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VEDHA R (Third Year)
AARTHY K P (Second Year)

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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

EVENTS UNDER IETE STUDENTS FORUM

S.No	Activity	Date	Name of the Faculty (Co-ordinator)	Chief Guest / Resource Person / Chair Person	Number of Participants
1	Association(Icon) Inaugural Function	26.3.2022	Dr.C.Sujatha AsP/ECE Mr. M. Manikandan AP/ECE Mr.V.P.JayFantin AP/ECE	Mr. Rajesh Loganathan, Head of Technology, Crayonte Technologies Pvt Ltd, Dindigul.	280 students of ECE/SSMIET
2	Intra department symposiu (TECHNOFILIA-2K22)	13.5.2022	Dr.C.Sujatha AsP/ECE Mr. M. Manikandan AP/ECE Mr.V.P.JayFantin AP/ECE	-	155 students of ECE/SSMIET
3	National Level Technical Symposium (RESNOVAE-2K22)	28.4.2022	Dr.C.Sujatha AsP/ECE Mr. M. Manikandan AP/ECE Mr.V.P.JayFantin AP/ECE	Mr. Ashwin Desai, President and CEO Digital Health and Digital Education, A&T Video Networks Pvt Ltd, Madurai.	90 students of Various Engineering College around Tamil Nadu
4	Hands on training in Lab view and its Applications	23.5.2022 to 27.5.2022	Mr. M. Manikandan AP/ECE Mr.V.P.JayFantin AP/ECE	Esakki Raja S Sr. Applications Engineer VI Solutions, Bangalore.	40 students of ECE/SSMIET

RESOURCE PERSONS FOR TECHNICAL EVENTS

S.No	Date of the Event	Name of the Event	Name of the Faculty (Co-ordinator)	Resource Person/ Chair Person
1	2.3.2022-7.3.2022	Fundamentals of optical fiber communication and its application	Mr.R.Carol Praveen Mrs.A.Geetha	Dr.T.M.Selvakumari
2	18.3.2022	Data Analytics using Python	Dr.C.Sujatha Mr.J.Vetrimanikumar	Mrs.R.Padhmasree Director, Rius Technology, Chennai.
3	19.3.2022	One day workshop on Syllabus Creation	Dr.C.Sujatha, Mr.M.Manikandan Mrs.A.Geetha	Dr.D.Selvathi, Senior Professor and Head Bio medical, MEPCO
4	31.3.2022	Guest Lecture on Career Guidance	Dr.C.Sujatha, Mr.J.Vetrimanikumar Mr.R.Carol Praveen	Mrs.R.Padhmasree, Director, Rius Technology, Chennai.
5	2.5.2022	Webinar on HAPTICS Technology	Mrs.S.Abirami Mrs.K.Divya	Dr.Mathan Kumar Vasudhevan, PDF in University College London.
6	21.5.2022	Career opportunities in Artificial intelligence machine learning and deep learning	Dr.M.Jeyalakshmi Mrs.A.Geetha	Mr.K.Ramprabhakar

PROJECT EXPO-2022

A two day Project Expo was held on 27-01-2022 & 28-01-2022. School students of 6th standard to 12th standard were participated in this event through Online Mode.

WINNING TEAM FOR 6th TO 8th STANDARD (27-01-2022)

Student Name	School Details	Prize
C.N.Palanivel rajan	Achyuta Academy metric HSS	1 st Prize
M.Deepika	St.Joseph's Girls HSS	2 nd Prize

WINNING TEAM FOR 9th TO 12th STANDARD (28-01-2022)

Student Name	School Details	Prize
T.S.G.Balakarthish	Sri savithri Vidyasala High School	1 st Prize
Atchya, Kamatchi pandian, Lobavamanan Mohamed Aahil, Sakthi balan	Sri Rosy Vidyaaalaya	2 nd Prize

Journal Published details

S.No	Authors Name	Title of the Paper	Journal	ISSN Number	Indexing Details
1	Vinoth Kumar K	Motor Imagery EEG Recognition using Deep Generative Adversarial Network with EMD for BCI Applications	Tehnicky vjesnik -Technical Gazette	1330-3651	SCI/SCIE/ ESCI, Scopus, Google Scholar
2	Vinoth Kumar K	Performance Improvement of SIMD Processor for High-Speed end Devices in IoT Operation Based on Reversible Logic with Hybrid Adder Configuration	Tehnicky vjesnik -Technical Gazette	1330-3651	SCI/SCIE/ ESCI, Scopus, Google Scholar
3	Vinoth Kumar K	Investigation on thermal energy aware routing in integrated network for efficient energy storage	Materials Today Proceedings	2214-7853	SCI/SCIE/ ESCI, Scopus, Google Scholar
4	Vinoth Kumar K	Thermal analysis of Alzheimer's disease prediction using random forest classification model	Materials Today Proceedings	2214-7853	SCI/SCIE/ ESCI, Scopus, Google Scholar
5	Vinoth Kumar K	An optimal light weight cryptography with metaheuristic algorithm for privacy preserving data transmission mechanism and mechanical design in vehicular ad hoc network	Materials Today Proceedings	2214-7853	SCI/SCIE/ ESCI, Scopus, Google Scholar
6	Vinoth Kumar K	Fuzzy Logic Based DSR Trust Estimation Routing Protocol for MANET Using Evolutionary Algorithms	Tehnicky vjesnik -Technical Gazette	1330-3651	SCI/SCIE/ ESCI, Scopus, Google Scholar
7	Premkumar M	Dynamic Defense Mechanism for DoS Attacks in Wireless Environments Using Hybrid Intrusion Detection System and Statistical Approaches	Tehnicky vjesnik -Technical Gazette	1330-3651	SCI/SCIE/ ESCI, Scopus, Google Scholar
8	Saranya, G. C. Sujatha	A Comprehensive Review on Analysis of Cervical Cancer Diagnostic Techniques	Mathematical Statistician and Engineering Applications	2326-9865	Scopus, Google Scholar
9	R.Sangeetha	Personalized Music Recommendation model based on Machine Learning	EEE xplore	ISBN -1-9786654-9761-9	Scopus, Google Scholar

Conference Details

S.No	Authors Name	Title of the Paper	Conference Name	College Name
1	S.Karthik	Survey of Logic Locking Schemes Based on Attack Resilience	International conference on new scientific creations in engineering and technology "ICNSCET-2022"	NadarSaraswathi College of Engineering and Technology
2	Sangeetha R	IoT Based Smart Trolley for Shopping	International conference on new scientific creations in engineering and technology "ICNSCET-2022"	NadarSaraswathi College of Engineering and Technology
3	Sangeetha R	Personalized Music Recommendation Model based on Machine Learning	IEEE international Conference on Smart Structures and Systems	Saveetha Engineering College

TECHNOLOGY TEACHING

SECOND YEAR (2020-2024)

Department of ECE conducted technology teaching on "Embedded Systems" from 4-5-2022 to 10-5-2022. The course covers basics of Microprocessor & Microcontroller and IoT using Arduino IDE.



Introduction Speech by Er. Ilancheelian, Manager (Technical), Shree Technologies, Coimbatore.

THIRD YEAR (2019-2023)

Department of ECE conducted course on "JAVA Programming" from 11.05.2022 to 19.05.2022. Students gained programming skills in core Java and develop the skills of designing Graphical User Interfaces



FINAL YEAR (2018-2022)

The department of ECE, SSMIET conducted Technology training for final year students on LABVIEW and its Application under IETE Students Forum in association with VI solutions Bangalore from 23.05.2022 to 27.05.2022 (5 days). Mr. Esakki Raja S, Senior Application Engineer, VI Solutions, Bangalore trained the students through hands on mode. Totally 40 students were actively participated.



Hands on Training given by Mr. Esakki Raja S, Senior Application Engineer, VI Solutions, Bangalore.

OUTCOME BASED EDUCATION (TECHNOLOGY TEACHING)

As a part of new education policy, Outcome based education was initiated by our Principal Dr. D. Senthil Kumaran. Three programs (technology teaching) were conducted during even semester namely Embedded Systems, JAVA Programming and LAB VIEW and its Application. At the end of the program students were encouraged to do Project. Best projects were chosen by faculty members. Three prizes were given.



Principal Presenting a winning shield to the winners of final year ECE.



Second year ECE students getting First Prize from honorable Principal.



Third year ECE students getting book prize from honorable Principal.