



St. Joseph's Institute of Technology
St. Joseph's Group of Institutions
 OMR, Chennai – 119



Department of Electronics and Communication Engineering
(Accredited by NBA)

FACULTY DETAILS

Staff Name:	Mr. D.SURESH
Designation:	ASSISTANT PROFESSOR
Date of Birth:	28.07.1987
Educational Qualification:	M.E .,(Ph.D)
Area of Interest:	OPTICAL AND MICROWAVE, EMBEDDED SYSTEMS, VLSI, COMMUNICATION SYSTEMS
Years of Experience:	12 Years 4 Months
Area of Research:	VEHICULAR AD-HOC NETWORK (VANET)
No. of Students Project Guided	20
R & D Activities	<ul style="list-style-type: none"> • Firmware development for 4 Axle Cleaning Robot funded by Pantech Pro Labs at a cost of Rs.2,06,750. • Design of Fool Proof Centralized Voting Machine funded by CDCE AUTOMATION at a cost of Rs,2,80,000.
Publications Details:	<p>Journals:</p> <ul style="list-style-type: none"> ❖ Published a paper titled "PC Based Universal electrotherapy station", International Journal of Pharmacy and Technology, Vol.6, Issue No.4, pp. 7628-7648, April 2015, ISSN No: 0975-766X. ❖ Published a paper titled " Surgeons Leave behind Instruments Tracking automated systems", International Journal of Pharmacy and Technology, Vol.No.6, Issue No.4, pp.7593-7614, April 2015, ISSN No.0975-766X ❖ Published a paper titled “Efficient Water Usage Prediction and Metering System Using IOT” International Journal of Advanced Research in Science, Communication and Technology, Vol.5, Issue No.1, May 2021, ISSN No:2581-9429 ❖ Published a paper titled “Landslide Detection” International Journal of Advanced Research in Science, Communication and Technology, Vol.5, Issue No.1, May 2021, ISSN No:2581-9429

- ❖ Published a Paper titled “Design and Implementation of U-Slot Microstrip Patch Antenna using co-axial Feeding Technique for WLAN Applications” in International Journal of Health Sciences(**Scopus**), on May 2022.

Conferences:

- ❖ Published a paper titled "Vibration characterization on cantilever beam using piezo electric actuator." In AIP Conference Proceedings, vol. 2766, no. 1. AIP Publishing, 2023.
- ❖ Published a paper titled "Fake News Classification using Transfer Learning." In 2023 International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), pp. 1-7. IEEE, 2023.
- ❖ Published a paper titled " Optical signal processing for secured communication in OCDMA Networks" ENACT-2012, pp.15-20,2012, ISBN No:978-81-909042-3-0
- ❖ Published a paper titled “Road Surface Conditions Monitoring System” in International Conference on Recent Developments in Engineering Management Science and Technology conducted by Dhaanish Ahmed College of Engineering, Chennai.
- ❖ Published a paper titled “Critical Surveillance and Controlling of Fuel tank in rocket engines” in the International Conference on Innovation in Science and Engineering Research organized by New Shri Prince Bhavani College of Engineering and Technology, Chennai.
- ❖ Presented the paper of “Double Byte Error Correcting Codes using CA-based CODEC” at “National Conference for Recent Trends in Electronics and Microwave” conducted in Dr. Navalar Neduncheziyan Engineering College, Thozudhur-Tirchy.
- ❖ Published a paper titled “Wireless Women’s Safety Wearable Device using Raspberry Pi” in International Conference on Recent Developments in Engineering Management Science and Technology conducted by Dhaanish Ahmed College of Engineering, Chennai.
- ❖ Published a paper titled “Double-Byte Error Correction Code Using CA based CODEC” in National Conference on Research Innovation on Biomedical, Electronics and Communication Engineering conducted by Alpha College of Engineering.
- ❖ Published a paper titled “Vehicle monitoring and alert system to driver using Raspberry PI” in National Conference on Advanced Computing and Technologies conducted by Velammal Engineering College.
- ❖ Published a paper titled “Dual Axis Controlled Robot to Mimic Human Writing” in the International Conference on Innovation in Science and Engineering Research organized

	<p>by OSIET & Prince Shri Venkateshwara Padmavathy Engineering College , Chennai</p> <ul style="list-style-type: none"> ❖ Published a paper titled “Efficient Water Usage Prediction and Metering System Using IOT” in the International Conference on Research in Electronics Engineering and Communication Techniques, SRM Institute of Technology, Chennai. ❖ Published a paper titled “Prisoner Escape Alert System To The Warden Inside The Prison” in the The Second International Conference On Recent Challanges in Science ,Engineering And Technology-2021,Chalapathi institute of technology, Andhra Pradesh. ❖ Presented a paper titled “Perpetuation of Victuals Through PEF” in National Conference on “Recent Advancements in Science, Engineering & Technologies (RASET2023)” at Bannari Amman Institute of Technology, Sathyamangalam. ❖ Presented a paper titled titled “Battery Management System in Electric Vehicle” in National Conference on “Recent Advancements in Science, Engineering & Technologies (RASET2023)” at Bannari Amman Institute of Technology, Sathyamangalam. ❖ Presented a paper titled “Smart Vehicle Security System for Defending Against Collaborative Attacks by Malware” in National conference on “Recent Advancements in Science, Engineering & Technologies (RASET 2023)” at Bannari Amman Institute of Technology, Sathyamangalam. ❖ Published a paper titled “IoT based Anti-Theft Flooring System " in International Conference of Emerging trends in science technology and applications (ICETSTA 2022), Sree Sakthi Engineering College, Coimbatore. ❖ published a paper titled “Smart Renewable energy monitoring and switching devices for commercial places " in International Conference on Innovative Research in Power and energy Engineering 2.0 (IRPEE-2.0'22), Arasu Engineering College, Kubakkonam.
FDP & Workshop Attended Details:	<ul style="list-style-type: none"> ❖ Successfully completed “Embedded System Design with ARM & IOT” NPTEL course associated with AICTE. ❖ Successfully completed “Digital Image Processing” NPTEL course associated with AICTE. ❖ Attended FDP on “Image Analysis in Spatial Domain” organized by Rajalakshmi Engineering College, Chennai. ❖ Attended Seminar on “Optical Network Security and Reliability issues” Karpaga Vinayaga College of Engineering, Maduranthagam, Sponsored by AICTE. ❖ Attended FDP on “EC6703 - Real time and embedded system” organized by St. Joseph’s Institute of

	<p>Technology, Chennai.</p> <ul style="list-style-type: none"> ❖ Attended FDP on “VLSI Design” organized by SSN College of Engineering. ❖ Attended FDP on “Python 3.4.3” training organized at Sri Krishna College of Technology association with IIT Bombay. ❖ Attended workshop on “IOT” organized by PSNA College of Engineering and Technology. ❖ Attended AICTE Sponsored Two Week Faculty Development Programme on “Soft Computing Techniques and its Applications” conducted by Anand Institute of Higher Technology. ❖ Attended FDP on “Recent Trends in Information & Communication System” organized by Karpagam College of Engineering, Coimbatore. ❖ Attended FDP on Research and Development in Wireless Communication Application using NetSim and MATLAB organized by Pondicherry Engineering College, Pondicherry ❖ Attended FDP on Deep Learning and its Applications organized by Malla Reddy Engineering college, secunderabad. ❖ Attended FDP on Recent Trends in Wireless Communication Technologies organized by Bangalore Institute of Technology, Bangalore ❖ Attended FDP on Internet of Things and Applications in 5G organized by Easwari Engineering College, Chennai
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