FACULTY WEBSITE PROFILE

Name of The Faculty	Dr.Sowmyashree N
Designation	Assistant Professor
Qualification	B.E., M.Tech, Ph.D.
E Mail ID	sowmyashree2688@jssstuniv.in, sowmyashree2688@sjce.ac.in
LinkedIn ID	
ORC ID	0000-0003-2037-0028
Contact Number	9611236704
Work Experience	
1. Teaching	14 years
2. Industry	-
3. Research	-
4. Other	-
Area of Specialization	Power Quality, Distributed generation in Grid Integrated Distribution System
Subject Taught	
1. Under Graduate Level	1. Power Electronics 2. Switchgear and Protection 3. Power Quality 4. Digital Signal Processing. 5. Electrical Power Generation 6. Illumination Engineering 7. Basic Electrical Engineering 8. Basic Electrical and Electronics Engineering 9. Elements of Electrical Engineering 10. Electrical and Electronic Measurements 11. Renewable Energy Systems. 12. Control Systems 13. Energy Efficiency in Electrical Utilities
2. Post Graduate Level	Battery Management System
Research Guidance	
1. Under Graduate Level	1. Smart Hand held Oscilloscope with Integrated Processing for Real time signal processing. 2. Raspberry Pi-based Reverse Vending Machine for Automated Sorting of PET Bottles using Image Processing 3. Eco-Friendly Automated Leaf and Dust Collection Vehicle. 4. Water Purification System using High Voltage Plasma generation. 5. Smart Library Management System 6. Design & Implementation of EV Charging Station with Wireless & Dynamic charging System.

	7. Prototype of IoT based DC Microgrid Automation. 8. Convolution Neural Network Based Fire Fighting Robot. 9. Prototype Of Solar Based Smart Water Quality Monitoring System 10. Smart Monitoring Of Distribution Transformer
2. Post Graduate Level	1. Design & Analysis of PV Based EV Charging Station Interfaced with 3-phase grid using NN controller. 2. Low Voltage Ride-Through for a Three Phase Grid Integrated Single- Stage Inverter- Based Photo Voltaic System using Fuzzy Logic Control. 3. Design of a Cascaded H-Bridge Multi Level Inverter (CHB-MLI) for Grid Connected PV system. 4. Mitigation of Voltage Sag and Swell in a PV Integrated IEEE 7-Bus System using Dynamic Voltage Restorer. 5. Mitigation of Voltage Sag, Swell and Harmonics in a PV Connected Distribution System Using UPQC. 6. Power Quality Enhancement by PV based Dynamic Voltage Restorer Using Artificial Neural Network and Hysteresis Voltage Control Techniques.
3. PhD	Nil
Publication Details	
1. Inter National Journal	18, 03(Scopus Indexed)
2. National Journal	-
3. Conferences	12
Patents	01
Research Projects / Consultancy Undertaken	
1. Funding Agency	VGST-ECRA in 2024-2025
2. Fund Received (In Rs)	Rs.10 Lakhs
Book/Book Chapters Published	03
FDP /STTP/Technical Seminar Organised and Participated as a Resource Person	Organized: 07
Achievements	• Obtained Funding of Rs.10 Lakh from VGST • Obtained Funds From KSCST
Professional Membership	GSTE

Photo

Sowmyashree N

Signature