

Conference Schedule

March 14, 2025 (Day 1)		
Time (IST)	Inaugural Event, Moderator: Prof. Bhanupriya, EEE	
10.00 AM to 11.00 AM	Begin with Prayer Song by Students	
	Welcoming the Gathering	Dr. R.V.D. Rama Rao, Organizing Chair-ICSSES 2025
	Presidential Address	Dr. M. Venu, Principal, VITB
	Felicitation Address	Prof. M. Srilakshmi, Vice-Principal, VITB
	Chief Guest Address 1	Dr. Y. Suresh , Professor, Department of EEE, National Institute of Technology Karnataka, India.
	Chief Guest Address 2	Dr. C. Dhanamjayulu , Associate Professor, Dept. of Electrical Engineering Vellore Institute of Technology, Vellore
	Appreciation Note	Dr. Raju Aedla, Professor, Dept. of EEE
	Souvenir Release by the Dignitaries & Virtual Photo Session	
	Vote of Thanks	Dr. I. Kasireddy, Convener-ICSSES 2025

Keynote Session, Moderator: Prof. Mamatha, EEE	
Time (IST)	SESSION TALK BY INDUSTRIAL EXPERT
11.20 AM To 12.20 PM	<p>Pragmatic Design Solutions, United Kingdom. “EV Battery Management Systems” By Dr. S. Srinivas Subject matter expert of EV Power Train System</p>
12.20 PM to 1.15 PM	LUNCH BREAK

Time (IST)	Paper ID	Title of Paper	Track(s) – 1
SESSION CHAIRS: Dr. P. ANIL KUMAR & Prof. P. NAVEEN Moderator: Prof. P. Naveen, EEE (07 Mins Presentation + 3 Mins Q/A)			
1.30 PM To 3.00 PM	5	Air Quality Prediction Using Genetic Algorithm-Based Feature Selection and Machine Learning Techniques for Sustainable Environmental Management	Environmental Engineering and Sustainability
	11	Preliminary on-field investigation of Indoor Environmental Quality (IEQ) – a comparative assessment of traditional vernacular, neo-vernacular and contemporary residences	
	31	Sustainable Energy and Resource Management: A Circular Economy Approach to Nitrogen and Bioenergy from Wastewater	
	45	Automated E-Waste Disposal System Using Convolutional Neural Networks for Classification and Sorting	
	91	Analysing Public Perceptions and Attitudes Toward Recycling, Waste Management, and Sustainability: Insights from Behavioural and Demographic Data	
	69	Energy Potential of Piper aduncum L. as a Biomass Feedstock for Downdraft Gasification	
	27	Sustainable and Efficient Advanced Image Resolution Techniques for Diverse General and Marine Environments	
	82	Energy Forecasting and Optimization for a Greener Grid	
2.00 PM to 2.30 PM	KEYNOTE SESSION BY Dr. DEVARA VIJAY BHASKAR Department of Electrical Engineering, IIT Dhanbad		
Time (IST)	Paper ID	Title of Paper	Track(s) – 2
Session Chairs: Dr. KIRAN TEEPARTHI & Dr. I. KASIREDDY Moderator: Prof. K.N.S.D Prakash (07 Mins Presentation + 3 Mins Q/A)			
2.00 PM to 4.00 PM	76	Solar power forecasting using LSTM networks	Renewable Energy Engineering and Technologies & Smart Energy Systems
	79	Hybrid Wind PV Battery Energy System for Standalone AC Microgrid Power Generation	
	123	Solar PV Charging Station for Electric Vehicles with EV Technologies	
	130	Investigation of MPPT Techniques for Grid Connected PV System	
	122	Simulation and Integration of WECS and PVEC Systems Using PCC	
	139	Renewable energy wind conversion system used as active filter by combined modulation	

	14	Integrated Smart Energy Management for Sustainable Grid Optimization and Predictive Maintenance	
	35	Smart EV Charging System with Piezoelectric Energy Harvesting and Cloud Integration	
	97	IoT-Driven Smart Energy Meter: Real-Time Monitoring, Intelligent Load Control & Advanced Theft Detection	
	143	Smart Street Light Controlling and Monitoring System for Urban Landscapes	
	47	Effective Power Sharing and Improved Droop Control in a Hybrid Grid with V2G/G2V	
	131	Enhanced Fault Detection and Sectional Identification for Renewable-Integrated Transmission Systems	
	142	Design and Implementation of Real-Time Energy Monitoring and Prediction System for Industries	
Time (IST)	Paper ID	Title of Paper	Track(s) – 3
SESSION CHAIRS: Dr. N. PADMAVATHY & Dr. S. REDDI KHASIM Moderator: Prof. Vijetha, EEE (07 Mins Presentation + 3 Mins Q/A)			
2.30 PM To 4.00 PM	72	Adoption of Smart Grid in Energy Markets: A Bibliometric Analysis of Business Opportunities	Future Challenges and Opportunities in Energy Sectors & Sustainability for Industrial Applications
	88	Increasing Renewable Energy Investments in Sustainable Business with Bibliometric Analysis	
	96	Sustainable Finance in the Digital Era for Micro Enterprise	
	104	Linking Development of Human Resource with Green Intention: The Capacity of Green Awareness	
	106	Barriers to the Extensive Adoption of Electric Vehicles in Indonesia: A Systematic Literature Review	
	34	Exploring the Synergy of ESG Factors on Brand Equity: A Machine Learning Approach	
	115	Sustainable Business and Environmental Responsibility: A Topic Modeling Perspective	
	2	Real-Time Video Object Detection Using Deep Learning and IoT-Enabled Alerts for Smart Security Systems in Sustainable Energy Infrastructure	
	74	Impact of Contingencies and SVC Placement on Power Flow in a 5-Bus System	
	73	Design and Modelling of Sustainable Triboelectric Electrostatic Generator	

	77	Ambient Light Activated Head Light System with Obstacle Alert and Side Path Illumination	
	114	Implementation of neutral network controller for grid connected wind and solar EV charging station	
Time (IST)	Paper ID	Title of Paper	Track(s) – 4
Session Chairs: Dr. D. GIREESH KUMAR & Prof. D. MAMATHA Moderator: Prof. D. Mamatha (07 Mins Presentation + 3 Mins Q/A)			
2.40 PM To 4.00 PM	12	Bidirectional Power Flow Control for Electric Vehicle Charging System with Integration of Grid	Applications of Power Converters in Renewable Energy Applications
	153	DC/DC Boost Converter Using Adaptive Fuzzy Logic Controller	
	108	SIMULATION OF A SOLAR POWER GENERATION SYSTEM BASED ON A BOOST CONVERTER USING FUZZY LOGIC CONTROLLER-BASED MPPT	
	86	Bidirectional converter for electric vehicles using artificial neural networks	
	13	Single Phase Fault Tolerance Multilevel Inverter	
	33	A Bridgeless TOTEM Pole Power Factor Converter for Two/Three Wheeler Electric Vehicles	
	128	Design of Single-Phase Grid-Tied Inverter with Maximum Power Point Tracking	
	140	Design of Bidirectional Buck Boost And Flyback And Sepic Combined Converters And Battery Controller Of Plug In Electric Vehicles	
	126	Small Signal Modelling and Analysis of a Modified Switched-Inductor Converter using Voltage Multiplier Cell	
	141	Performance Evaluation of PI and ANN Controllers for Fault Compensation in Power Systems Using DVR	
	152	Improved Power Quality Using D-Q Theory-Based Three-Phase Unified Power Flow	
March 15, 2025 (Day 2)			
9.30 AM to 10.00 AM	KEYNOTE SESSION BY Dr. M. Mani Shankar Department of Electrical Engineering, BIT SINDRI		
Time (IST)	Paper ID	Title of Paper	Track(s) - 5
SESSION CHAIRS: Dr. DEVALRAJU PRASAD & Dr. V.S.N NARASIMHA RAJU Moderator: Dr. S. Reddi Khasim (7 Mins Presentation + 3 Mins Q/A)			

10.00 AM To 11.30 PM	101	Comprehensive Review of Sustainable Deep Learning Approaches for Automated Brain Tumor Detection	Artificial Intelligence and Machine Learning for Energy Optimization & IoT and Smart Grid Technologies in Renewable Energy Systems
	65	Citrus Huanglongbing (HLB) Disease Detection Using ResNet-50 CNN Classifier	
	132	Enhanced Parameter Extraction for Double-Diode Modeling of Solar PV Cells Using Improved Grey Wolf Optimization	
	38	Detection of Islanding in Microgrid by using Artificial Neural Networks	
	118	An Enhanced Sustainable Human Activity Recognition Using Convolutional Neural Networks	
	58	CVSS Prediction: BERT Classifier for Evaluating Computer Security SEVERITY OF VULNERABILITY	
	59	Sustainable Maritime Monitoring: Integrating Region-Based Convolutional Neural Networks and Support Vector Machines for Automatic Ship Detection in High-Resolution Remote Sensing Imagery	
	30	IoT Enabled Health Care System	
	146	IOT Based Smart Baby Incubator Using ESP32 and Firebase	
	148	Design and Analysis of Cascaded Controller for Load Frequency Control of Two Area Interconnected Power System	
	39	Design and Analysis of Static, Dynamic and Mixed Eccentricity Faults in Switched Reluctance Motor using FEM	
	56	Dynamic Model Design of Permanent Magnet Synchronous Motor Drive for Electric Vehicles	
120	Nearest Level Control for a Low Component Single Phase Asymmetrical Multilevel Inverter with Minimal Harmonic Distortion		
SHORT SESSION BREAK			
Time (IST)	Paper ID	Title of Paper	Track(s) - 6
Session Chairs: Dr. MATTA MANI SANKAR & Dr. SHASHI KUMAR REDDY Moderator: Dr. I. Kasireddy (7 Mins Presentation + 3 Mins Q/A)			
	85	SMART ECO App: A Novel Approach for Automated Meter Reading Using OCR Technology	
	81	Design of Aluminium Air Fuel Cells for Electric Vehicle Applications	
	70	Simultaneous Optimal Allocation of Renewable Distributed Generations and Electric Vehicle Charging Points using Dynamic Hunting Leadership Algorithm	

10.20 AM To 12.00 PM	100	Solar Powered Bidirectional On-Board Charger for Integration of Electric Vehicle into Grid	Green Energy Innovations and Economy Integration & Energy Policy, Economics, and Social Impact
	94	Application of the TRIZ Method in Designing an Efficient and Secure Charging Station for Electric Motorcycles	
	80	Optimized Vector Controlled SRM for High Speed Electric Vehicle Performance	
	44	Design and Assembly of a Multi-Level Inverter for Motor Drive Applications	
	149	Development and Simulation of a Hybrid Electric Vehicle Power Train Model in MATLAB	
	109	An Efficient PWM-Based Speed Control Method for BLDC Motors in Electric Vehicles	
	63	Experimental Studies on Charging and Discharging of Supercapacitor Pack	
	62	Co-Estimation of SOX Parameters of Lithium Ion Battery	
	151	ENHANCEMENT OF VIRTUAL INERTIA WITH GRID-CONNECTED RENEWABLE ENERGY SOURCES USING REINFORCEMENT LEARNING	
	49	Improved Load Sharing Using Transient Droop in DC Microgrid	

Time (IST)	Valedictory Event, Moderator: Prof. Bhanupriya, EEE	
4.00 PM To 5.30 PM	Address by the Organizing Chair	Dr. R V D Rama Rao, Organizing Chair – ICSSSES 2025
	Chief Guest Address	Prof. Vivekananda Mukherjee, Professor, Dept. of EE IIT(ISM)-Dhanbad
	Principal's Address	Dr. M. Venu, Principal, VITB
	Announcing the Track wise Best Papers followed by the Feedback Session	
	Virtual Photo Session	
	Vote of Thanks	Dr. S. Reddi Khasim, Convener – ICSSSES 2025