



# JSS ACADEMY OF TECHNICAL EDUCATION

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

## DEPARTMENT OF ELECTRICAL ENGINEERING

# National Conference on Smart Energy Systems (NCSES-2019) 14 & 15 of June '19

### ABOUT THE CONFERENCE:

The NCSES-2019 is aimed to gather scientists, engineers, academicians and industry professionals to discuss practical solutions, scientific results and latest technological developments for solving various challenges involved in the emerging area of Smart Energy Systems. The conference also intends to promote professional interaction, lifelong learning, interdisciplinary and collaborative research in Smart Energy Systems.

### CALL FOR PAPERS:

Prospective authors are invited to contribute high-quality, original papers that have not been submitted or not copyright protected. Authors are requested to send their paper strictly in format given on the website:

<https://www.jssaten.ac.in/ncses2019/>

Authors should submit their manuscript through Easy Chair login at

<https://easychair.org/conferences/?conf=ncses2019>.

For detailed guidelines, please refer conference webpage

[www.jssaten.ac.in/ncses2019](http://www.jssaten.ac.in/ncses2019).

### PUBLICATION:

Accepted research papers will be submitted for inclusion in a reputed digital library. The extended version of high quality innovative research papers from the registered papers presented at the conference will be considered for publication in SCI/ SCOPUS Indexed Journal.

### IMPORTANT DATES:

Call for Papers 23<sup>rd</sup> January, 2019

Papers Submission Deadline 23<sup>rd</sup> February, 2019

Notification of Acceptance 23<sup>rd</sup> March, 2019

Camera Ready Papers 06<sup>th</sup> May, 2019

### REGISTRATION DETAILS:

Participants/attendee	Rs. 500/-
Research Scholars/students	Rs. 850/-
Faculty from Academic Institutions	Rs. 1750/-
Industry and R&D Establishments	Rs. 3000/-

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### TRACK 1: POWER ELECTRONICS, CONTROL AND DRIVES

- Components and devices
- Power Device modelling and Device Drivers
- Packaging of Devices
- Systems and thermal Issues
- Magnetic materials and Component design,
- Passives and filter designs
- Power Converters
- AC/AC, AC/DC, DC/AC and DC/DC Topologies,
- Modelling and Control
- EMI
- EMI and EMC issues in Power Electronic System Design and Packaging,
- Methods of Analysis and filters
- Electrical Machines
- Modelling, Analysis and Design of rotating and linear machines and electromagnetic devices),
- Drives (Converters, Operation and Control)

### TRACK 2: POWER SYSTEMS OPERATION AND CONTROL

- Resilient/adaptable grid infrastructures design, planning, operation and management
- Power Quality
- Quantification and Estimation of Disturbances in transmission and distribution Networks,
- Converters and Control for improving power quality
- Active power filters,
- Power quality monitoring and performance enhancement
- Power Flow Control
- Reactive and active power controls,
- FACTS devices,
- Demand response
- Policy
- Policies for Distributed Generation,
- Smart Grids and operation with increased renewable penetration
- Energy Efficiency

### TRACK 3: SMART & MICRO GRIDS

- Resilient Control Architectures and Systems for Smart Energy Systems
- Modelling and Control, Integration of Multiple Energy Sources,
- Economics of Smart Grids and Micro grids
- Computational intelligence and optimization for smart energy systems
- Smart homes, buildings and cities
- Information, security and privacy for smart energy systems;
- Sensors, communications and network
- Smart metering, measurement, instrumentation, and control

### TRACK 5: ELECTRIC VEHICLES

- Power Electronics and motor control for EV Applications,
- Charging methods and standards,
- Wireless Charging,
- G2V and V2G applications,
- Connected Vehicles
- Aircraft and space applications,
- Railway Traction applications.

### TRACK 4: RENEWABLE ENERGY

- Distributed Power Generation
- Control and Grid Interaction
- Solar Energy Systems
- Wind Energy Systems
- Energy Storage
- Role and Operation in Grids and Microgrids,
- Charging and Discharging,
- Battery Management Systems,
- Battery Engineering,
- Battery use and reuse

## CONTACT US

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