

ABOUT THE UNIVERSITY:

Sri Venkateswara University, Tirupati, is established in 1954 in the world famous temple town of Tirupati on the sprawling campus of 1000 acres with a panoramic and pleasant hill view. The University stands as a testimony to the wisdom and foresight of great visionaries Late Sri Tanguturi Prakasam Pantulu, the then Chief Minister of Andhra and Late Sri Neelam Sanjiva Reddy, to cater the educational needs and aspirations of the people of Rayalaseema area. With a great wisdom, the founder of this University have rightly coined the motto Wisdom lies in proper perspective for it. Right from its inception, the University has been laying more emphasis on teaching, research and extension activities in different subjects. The range of subject departments, courses and research programmes undertaken and promoted during the last 60 years reflect Sri Venkateswara University commitment in promoting socially relevant and inter-disciplinary programmes. The University was started with six departments. Now The University has 4 constituent colleges concerning various conventional and advanced subjects, in order to provide good academic and smooth administrative service to one and all. The University has 54 departments, where in 72 different PG Courses and several Diploma and Certificate courses are being run with a total academic faculty strength of around 579 and 1500 non-teaching and a student strength of 5000, including research scholars.

ABOUT SVU COLLEGE OF ENGINEERING (A):

Sri Venkateswara University College of Engineering was established in the year 1959 in temple city of Tirupati, and has been a premier institute for higher learning, research, extension and consultancy in the back ward region of Rayalaseema. Since its inception, the college has been successfully maintaining and meeting national and international standards in higher education. With eminent scholars and men of letters serving the institution with dedication, the college has had a glorious history in producing good quality students in all fields spreading throughout the world with reputed positions. At present the college is offering B.Tech programs in Chemical Engineering, Civil Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering and Computer Science & Engineering and M.Tech programmes with ten specializations. Around 250 number of candidates were awarded Ph.D degrees and a good number of research works are in progress

ABOUT IGEC, SAGAR (M.P):

Indira Gandhi Engineering College Sagar is 4th among the 5 government autonomous engineering colleges of Madhya Pradesh. This college was established by government of Madhya Pradesh in November 1981 keeping the industrial development of Bundelkhand region in view and named it Government Engineering College Sagar and the name has been modified as Indira Gandhi Engineering College Sagar later on. In 1981 the institute was started at its old site in the vicinity of Dr. Hari Singh Gour University Sagar. In December 1986 the institute was shifted to the newly constructed buildings in the land of 220 Acres area allotted by government of Madhya Pradesh in 1985 on a hillock near Baheriya Village of Sagar District, which is about 10 km away from Sagar City. Since, November 1981 College started with an intake of 40 students in Bachelor of Engineering program anonymously, which was a five year degree course and the branches were allotted in third year. The

intake was increased from 40 to 80 in the year 1983. In the year 1984-85 Civil Engineering, in 1985-86 Mechanical Engineering, in 1988-89 Electrical Engineering, in 1990-91 Electronics and Communication Engineering and in 2000 Information Technology branches were started. Initially, the college was affiliated with Sagar University and in year 2000, it has been affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, M. P. The college is recognized by All India Council for Technical Education (AICTE) and all the courses are approved by AICTE as per mandate.

ABOUT TIRUPATI:

Tirupati is one of the famous pilgrimage centers in India which is located in the state of Andhra Pradesh. It is also a home town for many educational institutions to learn science, engineering and technology, agriculture, veterinary, medical and paramedical, Sanskrit and Vedas. Prestigious central government institutions like Indian Institute of Science Education and Research (IISER), Indian Institute of Technology Tirupati (IITTP) are located in Tirupati and it is also surrounded by global industries like Amaraja Industries, Saint Gobian. Lanco industries, etc the weather is very cool & pleasant in the month of December.

ORGANIZING COMMITTEE:

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	Indian Author's	Foreign Author's
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Name of the account holder : Convener, ICGTPG
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SUBMISSION OF PAPERS

Authors are requested to submit soft copy of full paper (IEEE format not exceeding 6 pages) to email: icgptpg2019@gmail.com. or Website: <http://ijaase.in/icgptpg/index.php>, <https://easychair.org/conferences/?conf=icgptpg2019>
The paper must be accompanied by complete details of authors, their affiliation and email ID.

KEY DATES

Full Paper Submission : 10.11.2019
Notification of Acceptance (by email) : 30.11.2019
Camera ready paper submission : 08.12.2019
Registration : 14.12.2019

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INTERNATIONAL CONFERENCE

ON

**GREEN POWER TECHNOLOGY IN POWER GRID:
ISSUES, CHALLENGES & CONTROL (ICGTPG-2019)
(AN INTERDISCIPLINARY CONFERENCE)**

19th – 21st, December 2019

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CONFERENCE TOPICS - BUT NOT LIMITED TO.....

TRACK-I: Power Systems operation and control:

- Distributed generation and micro grid
- Power generation, transmission & distribution
- Power system protection
- Power system planning and reliability & simulation
- Electrical energy market, management & economics
- FACTS controllers & HVDC system
- Power quality issues and management
- Signal processing applications of smart sensors in power system
- Grid optimization and its challenges
- Static and dynamic component modeling
- Power system stability and control
- Impact of distributed generation on security and reliability of power systems
- Transmission planning under market and regulatory uncertainty
- Protection, special schemes and control integration
- Intelligent monitoring of high voltage power equipment & Black-out prevention and restoration
- Power quality monitoring and mitigation
- Probabilistic methods for energy markets and asset management
- Condition monitoring, failure diagnosis and reliability centered maintenance
- Energy storage design for electric power under uncertainty
- Energy security and sustainability analysis
- OLTC operations
- Energy efficient and power saving technology
- Soft computing techniques in power system
- Optimal & economic management of power system
- Power quality/Management devices and issues

TRACK-II: Renewable Energy Technologies:

- Renewable energy Systems & Standards
- Intelligent energy
- Intelligent energy distribution and management
- Energy conservation & harvesting
- Distributed Generation & Micro Grids
- Grid Interactive Systems in Hybrid Renewable Systems
- Optimization & Computational Techniques for Green Energy Systems
- Control Systems for Energy Conversion & Management
- Green Buildings / Zero Energy Buildings
- Forecasting and Reliability Evaluation for Green Energy Systems
- Integrated renewable systems

- Energy Storage Systems & Technologies
- Electrochemical Power Sources
- Energy and Environment
- Energy Harvesting
- Advanced technologies in material science for Energy systems
- Advanced Mechanical and Chemical aspects for Energy systems
- FACTS and HVDC Applications in Green Energy Systems Measurement & Instrumentation Systems

TRACK-III: Power Electronic Drives and control Engineering:

- Probabilistic approach for analysis and design of electrical machines and drives
- Power electronics & solid state devices
- Analysis and Design of Electrical Machines
- Hard switching and soft switching static power converters
- Biomedical Power Electronics
- Power Electronics in Emerging Technologies
- Power Electronics & Energy Conversion
- Aerospace Power Applications
- Electric & Hybrid Vehicles Prediction
- Policies and Strategies for Renewable Energy Systems
- Advanced power semiconductor devices
- Control Algorithms - Design & Applications
- Fault Diagnosis and Fault Tolerant Control
- Automated Guided Vehicles
- State Estimation and System Identification
- Intelligent and AI Based Control
- Industrial systems and applications
- Control and Automation Engineering
- Linear/Nonlinear control
- Adaptive & optimal control
- Network based control
- Model predictive control
- Intelligent control
- Soft switching, multilevel converters, matrix converters
- HFAC converters
- Advanced batteries, energy storage devices and systems
- Smart grid technologies, net metering, feed-in tariff
- Power converters modeling, simulation and control
- Electric machines in motion control and other

TRACK-IV: Electronics, Communication & Instrumentation Engineering:

- Process Control/Embedded Systems/VLSI Intelligent Mechatronics
- Process Automation
- Grid Computing
- Signal and Image Processing
- Computational Optimization
- Embedded systems and Wireless sensor Networking

- VLSI design
- Embedded systems
- Microprocessor based control
- Image and signal processing
- Navigation control and algorithm
- Robotics and Communication
- Sensors and Instrumentation
- MEMS and NANO sensor
- Sensor fusion and Optical Sensor
- Biometric sensor, Medical system and Control
- Neural network based controllers

TRACK-V: Computer Science and Engineering:

- Neural / Fuzzy Computing
- Swarm Intelligence/Machine Learning
- Smart Grid Computing techniques
- Internet of Things & Network communication
- Cyber security
- Big Data Analytic & Cloud computing Techniques
- Annotation Using content and Querying value.
- Digital Image Processing....

TRACK-V: Material Science:

- Material Science related to Life science
- Art Conservation, Science Biomaterials
- Ceramics, Composites, Energy, Magnetic Materials
- Materials for Electronics and Photonics
- Material Synthesis & Processing
- Materials Processing & Manufacturing
- Electronic, Optical & Magnetic Materials
- Superconductors

TRACK-VI: Environmental Science:

- Multidisciplinary nature of environmental studies
- Biodiversity and its conservation
- Energy flow in the ecosystem
- Bio geographical classification of India
- Environmental Pollution
- Environmental disasters, Chemical spills
- Climate changes, Global warming, Greenhouse effect...

Note:

All the accepted and registered papers will be published in Conference proceedings having an ISBN number. However, the recommended (Extended Version) articles selected by the Session Chairpersons will be considered for publishing in International Journal of Renewable Energy Technology (IJRET) of Inderscience Publishers of Special Issue after getting acceptance from the journal publishers and will also be forwarded to the Email of the author.

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INTERNATIONAL CONFERENCE ON GREEN POWER TECHNOLOGY IN POWER GRID: ISSUES, CHALLENGES & CONTROL (AN INTERDISCIPLINARY CONFERENCE)

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