



**Department of Electrical & Electronics Engineering**  
**Sree Vidyanikethan Engineering College**

In Collaboration with



**All India Council for Technical Education**

**Report**

**On**

**A Two Week AICTE Sponsored National level  
Faculty Development Program**

**On**

**Advances in Power systems Operation,  
Protection & Control**

**(15 -27, June, 2015)**

The two week AICTE Sponsored national level faculty development program on “Advances in Power systems Operation, Protection & Control” was organized by the Department of Electrical & Electronics Engineering, Sree Vidyanikethan Engineering College from 15<sup>th</sup> June to 27<sup>th</sup> June, 2015. The FDP programme received an overwhelming response with 60 participants from various states like Andhra Pradesh, Telangana, Tamil nadu and Karnataka. The FDP aims to provide opportunities to faculty members, and research scholars to enrich their teaching skill and research in the field of power systems. The Programme also planned to develop the knowledge of participants for simulation with advanced softwares in the field of Power systems engineering for inculcating learning values in students.

The two week AICTE Sponsored national level faculty development program was inaugurated by the following eminent personalities on 15<sup>th</sup> June, 2015.

1. Prof.T.Gopalarao, Special officer, Sree Vidyanikethan Educational trust.
2. Dr.P.C.Krishnamachary, Principal, Sree Vidyanikethan Engineering College.
3. Dr.D.V.S.Bhagavanulu, Director, Sree Vidyanikethan Engineering College.
4. Er.Vikram, Divisional Engineer, AP Transco, Tirupati.





Dr.T.Nageswara Prasad, Coordinator of the FDP welcomed all the dignitaries and participants. In the welcome speech, Prof. S.Gopala Rao, Special officer highlighted the objectives of the faculty development program and requested the participants to disseminate the knowledge gained in such type of programs to their students. Dr.P.C.Krishnamachary, Principal and Dr.D.V.S.Bhagavanulu, Director of Sree Vidyanikethan Engineering College appreciated the Department of EEE for organizing such a program and welcomed all the enthusiastic participants. The chief guest of the inaugural program Er.K.Vikram, Divisional Engineer, AP Transco emphasized the benefits of such kind of ingenious activity. He accentuated the need of supplying electric power to consumers with good quality.

## Technical Sessions:

15-06-2015



Mr.K.Ekambaram, Engineer from POWERGRID, Bangalore has delivered a lecture on **Indian power scenario & Real time operation of Indian Grid.**



Er.Chalapathi, DE, AP Transco has delivered a lecture on **Integration of solar power to Electric Grid** on afternoon.





A field visit was arranged to the solar plant which is located at Nagaiahgari Palli to explore the practical aspects in the construction and maintenance of the solar power plants on second session of after noon.

**16-06-2015**



Dr.E.Chandira sekaran, CIT, Coimbatore has delivered a series of lectures on **Energy auditing and management & Power quality issues**. He also expressed his consent to guide the participants to initiate consultancy services in their respective colleges.

**17-06-2015**



Dr.B.Kalyan Kumar and Dr.Sriram Srinivas, Associate Professors from IITM, Chennai have delivered lectures on **Modeling and Analysis of Grid Connected wind Generation systems** and **Power Electronics for Power systems** respectively. In these sessions the participants were taught the fundamentals and advances in Wind power systems as well as some significant applications of power electronics in the field of Power systems engineering.

**18-06-2015**



Dr.P.Ramana Reddy, Visiting Professor, SVEC has delivered a lecture on **Power systems Security**. The participants could learn the concepts of security assessment in power systems and contingency analysis.



Dr.T.Gowri Manohar, Associate Professor, SV University college of Engineering, Tirupati, has delivered a lecture on **Restructuring of Power Systems**.

19-06-2015



Dr.K.Vaisakh, Professor, EEE, Andhra University has delivered series of lectures on **Novel algorithms in power systems** like Shuffled frog leaping algorithm etc.

20-06-2015



Prof.R.Gnanadas, from Pondicherry Engineering College has delivered a series of lectures on **Transmission and Distribution scenario in Smart grid, Operation of Indian power exchange, functions of Smart meters and Smart grid pilot project in Puducherry.**



**22-06-2015**



A field visit was arranged by the organizers to all the participants to the nearest power grid centre located at chittoor. All the participants were happy with this informative field visit.

**23-06-2015**



Dr. M. Balasubramayam, Divisional Engineer, AP Transco, has delivered a lecture on **load dispatch and advanced protection schemes in power systems.**





Dr.S.Farooq, Associate Professor, EEE, SVEC has delivered a lecture on **Genetic algorithms and its applications in power systems.**

**24-06-2015**



Dr.N.M.G.Kumar, Professor, EEE, SVEC has delivered a lecture on **Reliability Evaluation of Electrical Transmission Systems.**



Dr.T.Nageswara Prasad, Professor &Head, EEE, SVEC has delivered a lecture on **Applications of PSO and Firefly algorithms in Electrical Engineering.**

**25-06-2015**



Dr.P.Umapathi Reddy has delivered a lecture on **Certain loss minimization techniques in unbalanced radial distribution systems by using PSO techniques.**



Prof.M.S.Sujatha, Professor, SVEC, EEE has delivered a lecture on **Neural Networks and its applications in Power systems.**



Mr.S.Hemachandra, Associate Professor, EEE, SVEC has delivered a lecture on **Fuzzy logic and its applications in Power systems.**



Dr.R.V.Amarnath, Professor&Head, Mahaveer Engineering College, Hyderabad, an enthusiastic participant of the program has delivered a lecture on **Design and development of cluster algorithms for power system problems.**



**26-07-2015**

Prof.N.Ammasai Gounden, Professor in EEE, NIT, Trichy has delivered a series of lectures on “ **Importance of Renewable Energy Sources for Distributed Generation, Wind Electric Generator for DC Load/Grid and its control and Hybrid Distributed Generator and its control aspects.**”



**27-06-2015**

Dr.V.Sankarnarayanan, Associate Professor, has delivered a series of lectures on “Components in **Micro Grid, Architectures of Micro Grid, Control aspects of Micro Grid and DER Controls**”.





## Valedictory Function

The honorable personalities present in this occasion were Prof. Ammasai Gounden, NIT,Trichy and Dr.V.Sankarnarayanan, NIT,Trichy. The Head of the Department of EEE, Dr. T.Nageswara Prasad summarized the program. All the personalities appreciated the Department for organizing the FDP. The certificates and course material were distributed to all the participants. Finally the participants were asked to come on the stage and share their experience and learning of the whole program. The program was ended with vote of thanks by Mr.S.Hemachandra, Associate Professor in EEE & Co-Coordinator of the FDP.



Prof.D.Anil Kumar, Participant from Telangana has expressed his gratitude to the organizers for providing content rich sessions.



Mr.P.VinodKumar, Assistant Professor, EEE, G.Pullaiah College of Engineering &Technology, Kurnool at the feedback session.

The following feedback was received from the participants:

1. 96% of the participants felt that the delivery and presentation of the resource persons were good.
2. 90% of the participants felt that the FDP was coordinated very well.
3. Participants felt that such FDP should be carried for other subjects in the field of electrical engineering.
4. Participants felt that the boarding and lodging facilities were highly satisfactory.



### **Outcomes:**

All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in this domain. This in turn will help in research activity. The content knowledge of the participants in the respective domains is updated. The participants were also given some simulation exercises regarding the contents of the program. Last but not the least when the house was open for questions the participants were keen to ask and with the same level of enthusiasm they were justifiably answered by all the expert speakers. This workshop has not only helped the participants in their curriculum but has also helped them develop their skills and knowledge.

**Group Photo-APSOPC-2015**



## Press Note clippings

### 'అద్వాన్సెస్ వవర్ సిస్టమ్ అపరేషన్' ప్రారంభం

చంద్రగిరి: మండలంలోని ఎ.రంగంపేట సాయి నాథ్ నగర్లో ఉన్న శ్రీవిద్యానికేతన్ విద్యాసంస్థల్లోని ఇంజనీరింగ్ కళాశాలలో బ్రీపుల్ఈ ఆధ్వర్యంలో 'అద్వాన్సెస్ ఇన్ వవర్ సిస్టమ్ అపరేషన్' అనే అంశంపై ఏర్పాటు చేసిన సదస్సు సోమవారం ఘనంగా ప్రారంభమైంది. ఈ సదస్సులో ఏపీ ట్రాన్స్ కో డివిజనల్ ఇంజనీర్ ముఖ్య అతిథిగా పాల్గొని స్వాగతోపన్యాసం చేశారు. స్పెషల్ ఆఫీసర్ గోపాలరావు, డైరెక్టర్ డాక్టర్ డీవిఎస్ భగవాన్లు, కృష్ణమాచారి, ప్రిన్సిపాల్ సుదర్శనకుమార్ పాల్గొన్నారు.

### ఫవర్ సిస్టమ్ జాతీయ సదస్సు విజయవంతం



రామచంద్రాపురం: శ్రీవిద్యానికేతన్లో గత 15వ తేదీ నుంచి జరిగిన ఫవర్ సిస్టమ్ జాతీయ సదస్సు విజయవంతమైనట్లు బ్రీపుల్ఈ విభాగాధిపతి డాక్టర్ టి.నాగేశ్వరప్రసాద్ శనివారం ఒక ప్రకటనలో తెలిపారు. శనివారం ఏఐసీటీఈ, స్పాన్సర్డ్ ప్యాకబ్లెండెవలప్మెంట్ పోగ్రామ్, అద్వాన్సెడ్ ఇన్ ఫవర్ సిస్టమ్ అపరేషన్, ప్రొటెక్షన్ ఆండ్ కంట్రోల్' ప్రోగ్రామ్ ముగిసింది. ఇంజనీరింగ్ విద్యలో నాణ్యత పెంపొందించడంలో శ్రీవిద్యానికేతన్ ఎల్లప్పుడూ అగ్రగామిగా నిలుస్తుందని సదస్సులో పాల్గొన్న ప్రముఖులు అభిప్రాయపడ్డారు. ఈ సదస్సుకు వలు రాష్ట్రాల నుంచి అధ్యాపకులు పాల్గొన్నారని వారికి కళాశాల స్పెషల్ ఆఫీసర్ గోపాలరావు అభినందించారు. ఈ సదస్సులో డైరెక్టర్ డాక్టర్ డీవిఎస్ భగవాన్లు, ఎన్ఐటీ ప్రొఫెసర్లు తదితరులు పాల్గొన్నారు.