

## Department of Electrical Engineering

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur  
Organized

### **AICTE SPONSORED**

**Two Day National Conference**

on

## **“Design Aspects, Operation and Control of Smart Grids”**

**27<sup>th</sup> – 28<sup>th</sup> October, 2017**

Venue :

**Gyan Mandir Seminar Hall,  
Swami Keshvanand Institute of Technology, Management & Gramothan,  
Ramnagar, Jaipur**

## **Conference Proceedings**

The two day national conference on “**Design Aspects, Operation and Control of Smart Grids**” was organized on 27<sup>th</sup> – 28<sup>th</sup> October, 2017

### **INAUGURAL SESSION (27<sup>th</sup> October, 2017)**

**Venue: Gyanmandir Auditorium, Swami Keshvanand Institute of Technology,  
Management & Gramothan, Ramnagar, Jaipur**

**Chief Guest : Prof. B.K. Panigrahi, Professor, IIT Delhi**

**Guest of Honour : Dr. Udaykumar Yaragatti, Director, MNIT, Jaipur**

### **Dignitaries on the Dais:-**

**Chief Guest : Dr. B.K. Panigrahi, Professor, IIT Delhi**

**Guest of Honour : Dr. Udaykumar Yaragatti, Director, MNIT, Jaipur**

**Dr. S. L. Surana : Director (Academics), SKIT, Jaipur**

**Dr. S.K. Calla** : Director (D & W),SKIT, Jaipur

**Mr. Jaipal Meel** : Director SKIT

**Dr. Ramesh Pachar** : Principal, SKIT, Jaipur

**The programme started with lamp lighting followed by the floral welcome of the Chief Guest and Guest of Honour.**

**Dr. Ramesh Pachar** presented bouquet to guest of honor, Dr B.K. Panigrahi and Dr. S.K. Calla presented bouquet to Prof. Udaykumar Yaragatti.

The welcome note was delivered by the Director of the Institute **Mr. Jaipal Meel**. He stated that to contribute to the electrical power sector development and generation of electrical power, every individual needs to pay his bill, by saving electricity and stop it's wasteful utilization. He also stressed on the importance of moral education among the youth.

After that **Dr. S.L. Surana** addressed the audience about the objective of the conference. He told a brief history of electrical power infrastructure development over the world. He also told about Smart Grid and its implementation in Northern India and told about the ongoing discussions in the world, on the Installation of HVDC networks. He proudly announced that SKIT has been declared number one engineering college among all RTU affiliated colleges.

Dr. Ramesh Pachar enumerated the sub topics of conference namely architecture of smart grid, smart sensors, smart energy storage, renewable energy sources and many more.

A motivational talk was given by the Guest of Honor **Dr. B.K. Panigrahi**, Professor, IIT Delhi. He threw light on the importance of smart grid and allied projects undertaken by government of india. After that the Chief Guest, **Prof Udaykumar Yaragatti**, Director, MNIT, Jaipur enlightened with his knowledge and wisdom.

To express gratitude to the learned guests, **Mr. Jaipal Meel** presented a shawl and memento to **Dr. B.K. Panigrahi** and **Dr. S.L. Surana** presented the shawl and memento to **Prof. Udaykumar Yaragatti** as a token of remembrance.

After that dignitaries unveiled souvenir of the conference and then **Vote of Thanks** for the Inaugural Session was delivered by **Dr. S.K. Calla**.

**The Inaugural session concluded at 11:00am. The function was very well attended by around 500 persons.**

**Friday, 27<sup>th</sup> October, 2017**

## **TECHNICAL SESSION – I (11:30 am – 1:15pm)**

### **Keynote Address : (10:45 am – 11:15 am)**

After high tea in the technical session a keynote address on the topic “Research and Development Areas on Smart Grids” was presented by Prof B.K. Panigrahi. The goal of the presentation was how to upgrade the grid in smart way. He also threw light on load demand management, forecasting techniques, importance of smart grids, integration of computer with electric grid and more. With a added tinge of humor he concluded his speech by telling us about fuzzy logic.

*Total 10 papers were presented in the Technical Session I.*

**Chairperson : Dr. B.K. Panigrahi**, Professor, IIT Delhi

The Technical Session-I was followed by lunch, before the starting of the Technical Session-II.

## **TECHNICAL SESSION – II (2:15pm-4:00pm)**

### **Keynote Address : (2:15pm-2:45pm)**

After lunch **Prof. Ranjan Maheshwari**, Principal, Govt. Engineering College Ajmer presented a talk on the topic “Hybrid Electrical Vehicles in Synergy with Smart Grids”. Some of the topics that he elaborated were conventional grid technology, smart grids, carbon footprint and hybrid versus electric automotive.

Total 08 papers were presented in the Technical Session I.

**Chairperson : Prof. Ranjan Maheshwari**, Principal, Govt. Engineering College Ajmer

## **Saturday, 28<sup>th</sup> October, 2017**

## **TECHNICAL SESSION – III (08:00– 11 am.)**

### **Keynote Address :**

Day 2 of conference was beautifully started with a Keynote Speech by **Dr. Rajesh Kumar, MNIT**. He classified challenges of existing energy systems as technical, commercial and regulatory. Speaker told us about evolution of energy systems augmented with motivations of energy internet infrastructure. Session was concluded with interesting question answer session.

An expert talk was followed by **Dr. Virendra Sangtani, Professor EE Dept., PCE Jaipur**. He discussed about power system components, micro grids, matrix converters and modeling of induction motors.

Next talk was delivered by Mr. **Vinod Tiwari from Genus Power Infrastructure Limited** on “Smart Metering Solutions”. He spoke about new technologies like temper logging and alarts. His presentation was embellished with simple block and schematic diagrams.

Total 12 papers were presented in the Technical Session I.

**Chairperson : Dr. Rajesh Kumar, MNIT Jaipur**

The Technical Session-III was followed by High Tea, before the starting of the Technical Session-IV.

### **TECHNICAL SESSION – IV (11:30 am-2:00pm)**

#### **Keynote Address :**

After high tea **Dr. M.P. Sharma**, Asst. Engineer, RRVPN Ltd., Jaipur presented his talk on “Challenges in Integration of Large scale wind and solar power plant with Rajasthan grid”. In this key note he overviewed the rajasthan power sector. He included reactive power management in RRVPNL and generating switch yard. He concluded by proposing possible technical solutions for frequency control.

*Total 16 papers were presented in the Technical Session I.*

**Chairperson : Dr. M.P. Sharma**, Asst. Engineer, RRVPN Ltd., Jaipur

There was a lunch break from 2:00 pm to 3:00 pm after which the technical session IV was resumed.

### **VALEDICTORY SESSION (3:00pm)**

**Brief report of seminar:** Brief report of the Two Days National Conference was presented by Convener who summarized the events of each of the technical sessions.

#### **Distribution of Certificates:**

The Certificates are distributed by **Dr. M.P. Sharma, Dr. S.K. Calla, Dr. S.L. Surana and Dr. Akash saxena** to all participants who had presented technical papers in the Conference.







**National Conference on Design Aspects, Operation and  
control of smart grid 28-10-2017 to 29-10-2017  
Participant List**

S.No.	Roll No./Ids	Participant Name
1	14ESKEE704	Aditya Kumar
2	14ESKEE724	Mahendra Choudhary
3	14ESKEE750	Sahadev
4	15ESKEE351	Rajendra Singh Kasana
5	15ESKEE352	Sagar Kumar Sanvariya
6	15ESKEE353	Laxmi Kant Dhaker
7	15ESKEE354	Ankit Prajapati
8	15ESKEE700	Aarushi Gupta
9	15ESKEE701	Abhishek Awasthi
10	15ESKEE702	Aditya K Peshwani
11	15ESKEE703	Aditya Kumar Mehta
12	15ESKEE704	Ahtesham Ur Rehman Niazi
13	15ESKEE705	Ajay Singh Kajala
14	15ESKEE706	Akshay Jain
15	15ESKEE707	Akshay Kumar Pancholi
16	15ESKEE708	Amit Kumar
17	15ESKEE709	Arpit Kapoor
18	15ESKEE710	Arun Kumar Sahu
19	15ESKEE711	Ashish Kumar
20	15ESKEE712	Chandan Kumawat
21	15ESKEE713	Chhavi Agarwal
22	15ESKEE714	Deepak Jangid
23	15ESKEE715	Dikshit Gehlot
24	15ESKEE716	Garvit Sharma
25	15ESKEE717	Gaurang Garg
26	15ESKEE718	Gunjan Sharma
27	15ESKEE720	Himanshu Mahawar
28	15ESKEE721	Jay Sharma
29	15ESKEE722	Kuldeep
30	15ESKEE723	Kuldeep Choudhary
31	15ESKEE724	Kuldeep Sharma
32	15ESKEE725	Lakshya Kaushik
33	15ESKEE726	Manish Kumar Saini
34	15ESKEE727	Manmohit Mangawa
35	15ESKEE728	Md Asif Ansari
36	15ESKEE729	Mohammed Rizwan
37	15ESKEE730	Mohit Kumar
38	15ESKEE731	Naman Garg



39	15ESKEE732	Naman Mudgal
40	15ESKEE733	Nitesh Gupta
41	15ESKEE734	Palak Joshi
42	15ESKEE735	Parth Joshi
43	15ESKEE736	Pratishtha Hada
44	15ESKEE737	Preeti Lawaniya
45	15ESKEE738	Prithvi Singh Shekhawat
46	15ESKEE739	Priyanka Sharma
47	15ESKEE740	Punit Sharma
48	15ESKEE741	Rahul Singh Naruka
49	15ESKEE742	Rajesh Panwar
50	15ESKEE743	Reeta Dulait
51	15ESKEE744	Ritu Soni
52	15ESKEE746	Robin Khalwa
53	15ESKEE747	Rohit Bhatnagar
54	15ESKEE748	Rohit Kumar
55	15ESKEE749	Sachin Sharma
56	15ESKEE750	Salesh Kumar
57	15ESKEE751	Shashikant Kumar
58	15ESKEE752	Shital Meena
59	15ESKEE753	Shivraj Singh Shekhawat
60	15ESKEE754	Shubham Tailang
61	15ESKEE755	Snehil Shekhar Jha
62	15ESKEE756	Subham Malav
63	15ESKEE757	Swaram Tripathi
64	15ESKEE759	Ved Prakash
65	15ESKEE760	Vipul Kumar Singh
66	15ESKEE761	Virendra Singh Rathore
67	15ESKEE064	Naman Sharma
68	15ESKEE065	Nand Kishore Choudhary
69	15ESKEE067	Naresh Singodiya
70	15ESKEE068	Nikhil Punia
71	15ESKEE069	Nikhilesh Parashar
72	15ESKEE070	Nilesh Bhephalawat
73	15ESKEE071	Nishant Harkesh Meena
74	15ESKEE072	Nitesh Sankhala
75	15ESKEE073	Nitin Chandel
76	15ESKEE074	Parul Vikash
77	15ESKEE075	Pawan Khatik
78	15ESKEE076	Piyush Malav
79	15ESKEE077	Pooja Kala
80	15ESKEE078	Poonam Shekhawat
81	15ESKEE079	Prabhat Kumar
82	15ESKEE080	Pramod Kumar

83	15ESKEE081	Pranshu Jain
84	15ESKEE082	Prashant Garg
85	15ESKEE083	Prashant Gehani
86	15ESKEE085	Prayag
87	15ESKEE086	Priya Kulhar
88	15ESKEE087	Priya Sharma
89	15ESKEE088	Priyanshu Sharma
90	15ESKEE089	Rahul Agarwal
91	15ESKEE090	Rahul Choudhary
92	15ESKEE091	Rahul Mehta
93	15ESKEE092	Raj Prakash
94	15ESKEE093	Rajat Jangid
95	15ESKEE094	Rajesh Kumawat
96	15ESKEE095	Rakesh Bhati
97	15ESKEE096	Richa Daga
98	15ESKEE097	Rishabh Jain
99	15ESKEE099	Sangeeta Meena
100	15ESKEE101	Santosh Kumar Sharma
101	15ESKEE102	Sharad Singhal
102	15ESKEE103	Shivani Singhal
103	15ESKEE104	Shshank Mittal
104	15ESKEE105	Shubham Bhambhu
105	15ESKEE106	Shubham Sharma
106	15ESKEE107	Shubhra Singh
107	15ESKEE108	Shweta Vyas
108	15ESKEE109	Simran Sharma
109	15ESKEE110	Sonu Gurjar
110	15ESKEE111	Sumit Tailor
111	15ESKEE112	Sunil Kumar Sharma
112	15ESKEE113	Sushil Kumar Joshi
113	15ESKEE115	Tinkal Meena
114	15ESKEE116	Toshesh Meena
115	15ESKEE117	Ujjwal Kumar
116	15ESKEE118	Vidhi Sharma
117	15ESKEE119	Vikash Deep
118	15ESKEE121	Vinod Kumar
119	15ESKEE122	Vishal Gyanani
120	15ESKEE123	Vishnu Mali
121	15ESKEE124	Yash Meena
122	15ESKEE125	Yash Mewara
123	15ESKEE126	Yogesh Kumar
124	15ESKEE300	Amal Singh Naruka
125	15ESKEE301	Harish Kumar Sharma
126	711	Dr. Akash Saxena

127	61	Mr. Sarfaraz Nawaz
128	172	Mr. Bharat Modi
129	64	Mr. Ankush Tandon
130	189	Mr. Abhishek Gupta
131	670	Mr. Jinendra Rahul
132	191	Mr. Avadesh Sharma
133	756	Mr. Gaurav kansal
134	714	Mr. Mohd. Imran
135	687	Ms. Baibhav Bishal
136	688	Mrs. Rammurti Meena
137	732	Mr. Ankit Vijay
138	779	Mr. Vikas Mahala
139	137	Mrs. Pooja Jain
140	827	Mr. Arun Nayak
141	192	Mr. Tarun Naruka
142	691	Mr. Manish Navlakha
143	788	Mr. Vivek Sharma
144	690	Mr. Jitendra singh
145	758	Mr. Akash Deo
146	822	Mr. Deepak Saini
147	816	Md. Yusuf Shareef
148	194	Mr. Tarun Chheepa
149	188	Mrs. Kavita jain
150	658	Mrs. Deepti Arela
151	72	Mr. Ajay Bharadwaj
152	662	Mr. Garvit Gupta