



A

Report on Faculty Development Program on

"Smart Grid Enabling Technologies for Sustainable Future"

13th -17th March 2023



Organized by

Department of Electrical Engineering Swami Keshvanand Institute of Technology, M & G, Jaipur

Submitted by:

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Ms. Deepti Arela

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Dr. Tanuj Rawat

Department of EE

Event Coordinators

ACKNOLEDGEMENT

Apart from the efforts of the coordinators of the FDP, the success of any event depends largely on the encouragement and guidelines of many others. We take this opportunity to express my gratitude to the people who have been instrumental in the successful completion of this FDP.

We believe that guidance, support and blessings are the incomparable qualities that my gratitude to our Chairman, Shri Surja Ram Meel, Director, Shri Jaipal Meel and Registrar, Smt. Rachna Meel for providing unconditional freedom and financial support to execute this FDP.

We would also like to thank Dr. S.L. Surana, Director (Academics) and Prof. (Dr.) Ramesh Kumar Pachar, Principal (SKIT) for their constant support.

We would like to show my greatest appreciation to Dr. Sarfaraz Nawaz, Head & Associate Professor, Department of Electrical Engineering. We can't say thank you enough for his tremendous support and help. We feel motivated and encouraged every time We attend his meeting. Without his encouragement and guidance this FDP would not have materialized.

The guidance and support received from all the committee members and student Coordinators who contributed to this FDP, was vital for the success of the FDP. We are grateful for their constant support and help.

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1. Tentative Schedule & Approval Letter

Department of Electrical Engineering Tentative Events Schedule Session 2022-23

Budget	2000/-	20,000/-	25,000 -	25000/-	30,000/-	40,000/-	1.25 Lac	2.67 Lags
Any Collaboration		IE Student Chapter/IEEE Student Chapter	1		IE Student Chapter/IEEE Student Chapter	IE Student Chapter/IEEE Student Chapter	IEEE Student Chapter	7
Name of Coordinator	Dr. Sarfaraz Nawaz Dr. Jyotsna Singh Dr. Tanuj Rawat	Mr. Tanun Naruka Mr. Vikas Mahala Mr. Akash Deo Mr. Deepak Saini	Dr. Suman Sharma Mr. Finendra Rahul Mrs. Balibhav Bishal Mr. Jitendra Singh	Dr.Tunuj Rawat Ms.Deepti Arela Ms.Kavita Jain	Ms. Smriti Jain	Dr. Virendra Sangtani Mr. Abbishek Gupta	Dr. Sarfaraz Nawaz Dr. Pooja Jain Mr. Ajay Bhardwaj	Total Amount
Proposed Date	8-10 Aug 2022	10-14 Oct 2022	22-26 Nov 2022	05-09 Dec 2022	21-22 Feb 2023	15-17 March 2023	12-13 May 2023	N HAR
Mode of Conduction	Offline	Online	Online	Online	Offline	Hybrid Mode	Hybrid	ad. Prome
Title of Event	Modeling. Simulation and Optimization Tools for Electrical Engineering	Recent Simulation Tools	Recent trends of machine learning in Grid integrated Electric Vehicles	Smart Grid Enabling Technologies for Sustainable Future	Project Exhibition	Industrial	Advances in Computational Intelligence for Power System	January Popularion
Types of Event	Faculty Workshop	Student Workshop	Faculty Workshop	Faculty Development Programme (FDP)	Project Exhibition	Student Workshop	[international Conference	Approved
S.No	_	2	en.		•	9	-	4



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (Department of Electrical Engineering)

Proposal for

5 Days Faculty Development Programme (Online Mode)

On

"Smart Grid Enabling Technologies for Sustainable Future"

17/01/2023

Proposed Dates:

28 February - 04 March, 2023

Coordinators:

Dr. Jyoti Shukla, Assistant Professor

Dr. Kavita Jain, Assistant Professor Dr. Tanuj Rawat, Assistant Professor

Mrs. Deepti Arela, Assistant Professor

Objective:

To integrate and optimize distributed energy resources for

achieving more efficient and reliable grid, enable active participation of consumers with more environmental

constraints.

Target Audience:

Academician, Industry Personals, Research Scholars, PG and

UG Students of Electrical Engineering/Allied Disciplines.

Expert Members:

Eminent speakers from international and national institutes

(IITs, NITs, SKIT) and Industry

Proposed Budget:

S.No	Item	Total
1	External Faculty remuneration	24000/-
2	Printing materials and stationary items	1000/-
	Total	25,000/-

Forwarded to yes lo Principal size yes lo

Dr. Sarfaraz Nawaz

(Head-EE Dept)

2. BROCHURE OF FDP

Sh. Raja Ram Meel, Patron, SKIT Sh. Surja Ram Meel, Chairman, SKIT

Shri Jaipal Meel, Director, SKIT

Prof.(Dr.) S. L. Surana, Director (Academics), SKIT Mrs. Rachna Meel, Registrar, SKIT

Prof.(Dr.) Ramesh Kumar Pachar, Principal, SKIT

Prof. M.L.Bhargava, Advisor, SKIT

Prof. R.K. Jain, Dean, SKIT

Dr. Sarfaraz Nawaz, HOD (EE), SKIT

Prof. Mukesh Gupta, HOD (CSE), SKIT

Prof. Mukesh Arora, Head (ECE & OFA), SKIT

Prof. Ona Ladiwal, HOD (DMS), SKIT Prof. Dheeraj Joshi, HOD (ME), SKIT

Prof. D. K. Sharma, HOD (CE), SKIT

Prof. Rohit Mukherjee, Incharge, I Year, SKIT Prof. Amber Srivastava, Head (Math), SKIT Dr. Sharda Soni, Head (Chemistry), SKIT

Prof. Brajraj Sharma, Head (Physics), SKIT Prof. Neha Purohit, Head (English), SKIT

ori, Vikas Mai lala (Dy. P Dr. Virendra Sangtani Dr. Prateek Singhal Dr. Suman Sharma Dr. Dhanraj Chitara Dr. Ankit Vijayvargiya Dr. Pooja Jain

Mr. Ankush Tandon Mrs. Smriti Jain Mr. Bharat Modi Mr. Tarun Naruka Mr. Abhishek Gupta

Mr. Vikas Mahala (Dy. Head) Mr. Avadhesh Sharma Mr. Ajay Bhardwaj

Mr. Jitendra Singh Mr. Vivek Sharma Mr. Akash Deo

Md. Yusuf Sharif Mr. Garvit Gupta

REGISTRATION

To join this FDP, you are requested to register your name by clicking the following registration link / scanning the QR code:



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Mumal Bhati



Faculty Development Programme



"Smart Grid Enabling Technologies for Sustainable Future"



13th-17th March, 2023

Organized by

Department of Electrical Engineering

Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur, Rajasthan, India www.skit.ac.in

ABOUT SKIT, JAIPUR

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been Ranked No.1 Engineering Institute in Rajasthan by RTU Kota consecutively for the last five years. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier centre of technical education not only in Rajasthan but also in Northern India, which has been realized through efficient and dedicated faculty members, innovative teaching learning methods, and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA). programmes of the institute are accredited by the National Board of Accreditation (NBA). SKIT is only affiliated technical institute in Rajasthan to have earned an A++ grade by National Assessment And Accreditation Council (NAAC).

The Department of Electrical Engineering is distinctly focused towards integrating academics with cutting edge technology in the field of Electrical Engineering. All efforts are subtly harnessed with the aim of preparing the budding engineers to face the challenging dimensions of technical excellence in areas of Electrical Engineering. The department puts in consistent efforts for field exposure to students through various research oriented projects taken up for meeting the industry demands. The Department offers a perfect blend of electrical and electronics related courses to help students pursue a professional career or higher studies. The graduates of the Department venture out for a wide range of organizations including reputed MNC's, PSU's, Armed Forces and Indian Engineering Services (IES), etc.

India's power sector is witnessing a slew of reforms aimed at shaping a robust energy landscape for the country. In a deregulated power system, the high integration of distributed energy resources and renewable generation crops ups a threat for system operators and scheduling coordinators to sustain secure and reliable grid operations. Conducive competency for flexibility is progressively growing attributable towards sustainable development viz. widespread of electric vehicles, energy storage technology advancements, and rooftop photovoltaic systems in domestic application areas, among other things. This FDP surveys and likens existing studies and multidisciplinary approaches covering economic, environmental, social, technical, and regulatory aspects in the deregulated power system to recognize potential hurdles and opportunities for techno-economic feasibility and holistic decision making in the R&D background. This FDP will elucidate the flexibility competency in deregulated power systems and its pertinent dimensions. In addition, this FDP is beneficial for industries, as well as policymakers and academics regarding the cost effective solutions to

well as policymakers and academics regarding the cost - effective solutions to emergent glitches. The objective is to provide exposure to the participants to the state-of-the-art emerging trends and development in Deregulated Power System.

- systems.
 Role of Plug-in vehicles and low-carbon transportation alternatives in smart grid.
 Data Analytics, Al and ML application

- Electricity Market and Power System
- Operation & planning of Distributed energy resources in smart grid.

REGISTRATION FEES

There is no registration fee.

WORKSHOP SCHEDULE

Day	Session	Time
	Inaugural	09:30 AM To 10:00AM
Day 1 (Mar. 13)	Session 1	10:00 AM To 11:00 AM
	Session 2	11:30 AM To 12:30 PM
Day 2	Session 1	10:00 AM To 11:00 AM
(Mar. 14)	Session 2	11:30 AM To 12:30 PM
Day 3	Session 1	10:00 AM To 11:00 AM
(Mar. 15)	Session 2	11:30 AM To 12:30 PM
Day 4	Session 1	10:00 AM To 11:00 AM
(Mar. 16)	Session 2	11:30 AM To 12:30 PM
Day 5	Session 1	10:00 AM To 11:00 AM
(Mar. 17)	Session 2	11:30 AM To 12:30 PM
	Valedictory	12:30 PM Onwards

RESOURCE PERSON

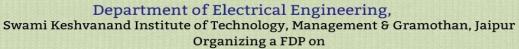
The Various session of workshop will be taken by renowned experts from various reputed Institutions.

TARGETED AUDIENCE

Academician, Industry Personals, Research Scholars, PG and UG Students of Electrical Engineering/Allied Disciplines.

3. SCHEDULE OF FDP







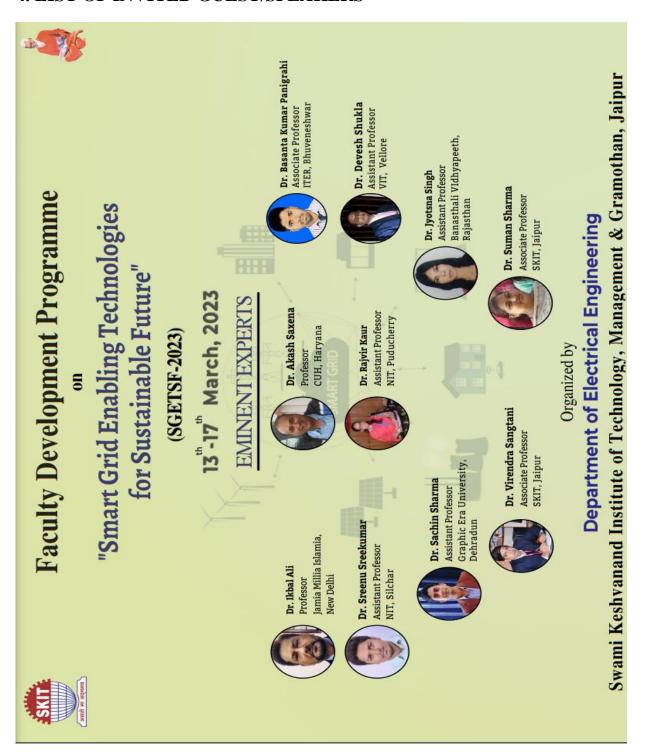
"Smart Grid Enabling Technologies for Sustainable Future"

March 13th-17th, 2023

FDP Schedule

Date	Time	Session
Duco	111110	Day 1
	09:30 AM To 10:00AM	Inaugural
Monday, 13-03-2023	10:00 AM To 11:00 AM	Cybersecurity For Smart Grid Dr. Rajvir Kaur, Assistant Professor, NIT, Puducherry
	11:30 AM To 12:30 PM	Aspects of Electric Vehicle Dr. Sreenu Sreekumar, Assistant Professor, NIT, Silchar
		Day 2
Tuesday,	10:00 AM To 11:00 AM	Electric Vehicle Integration in Smart Grid Dr. Jyotsna Singh, Assistant Professor, Banasthali VIdhyapeeth, Rajasthan
14-03-2023	11:30 AM To 12:30 PM	Study of faults in Distributed generation based power systems for Sustainable Future
		Dr.Basanta Kumar Panigrahi , Associate Professor, ITER, Bhuveneshwar
		Day 3
Wednesday,	10:00 AM To 11:00 AM	Future grids and optimization framework Dr. Akash Saxena, Professor, CUH, Haryana
15-03-2023	11:30 AM To 12:30 PM	Joint Operational planning for smart grid enabling technologies in distribution system Dr. Tanuj Rawat, Assistant Professor, SKIT, Jaipur
		Day 4
Thursday,	10:00 AM To 11:00 AM	Digital Twin Dr. Suman Sharma, Associate Professor, SKIT, Jaipur
16-03-2023	11:30 AM To 12:30 PM	Operational issues of smart Distribution System Dr. Sachin Sharma, Assistant Professor, Graphic Era University, Dehradun
		Day 5
	10:00 AM To 11:00 AM	Integration Of Renewable Energy Systems: Issues And Challenges Dr. Virendra Sangtani, Associate Professor, SKIT, Jaipur
Friday, 17-03-2023	11:30 AM To 12:30 PM	Modelling and Analysis of Integrated Transmission and Distribution Systems Dr. Devesh Shukla, Assistant Professor, VIT, Vellore
	12:30 PM Onwards	Valedictory

4. LIST OF INVITED GUEST/SPEAKERS



S. No.	Guests/Speakers Name	Affiliation
1.	Dr. Rajvir Kaur	Assistant Professor Department of Electrical Engineering, NIT Pudducherry
2.	Dr. Sreenu Sreekumar	Assistant Professor Department of Electrical Engineering, NIT Silchar
3.	Dr. Jyotsna Singh	Assistant Professor Department of Electrical Engineering, Banasthali Vidhyapeeth
4.	Dr. Basant Kumar Panigrahi	Associate Professor Department of Electrical Engineering, ITER Bhuveneshwar
5.	Dr. Akash Saxena	Professor Department of Electrical Engineering, CUH Haryana
6.	Dr. Devesh Shukla	Assistant Professor Department of Electrical Engineering VIT Vellore
7.	Dr. Sachin Sharma	Assistant Professor Department of Electrical Engineering, Graphic Era University
	Inhouse Inv	vited Speakers
8.	Dr. Tanuj Rawat	Assistant Professor Department of Electrical Engineering SKIT
9.	Dr. Virendra Sangtani	Associate Professor Department of Computer Engineering, SKIT M & G, Jaipur.
10.	Dr. Suman Sharma	Associate Professor Department of Electrical Engineering SKIT

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7. EVENT PHOTOGRAPHS

Inaugural Poster



FACULTY DEVELOPMENT PROGRAMME



on

"Smart Grid Enabling Technologies for

Sustainable Future" Inaugural Ceremony

MARCH 13, 2023



Shri Surja Ram Meel Chairman SKIT, Jaipur



Shri Jaipal Meel
Director
SKIT, Jaipur



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



Prof. (Dr.) Ramesh Kumar Pachar Principal SKIT, Jaipur



Ms. Rachna Meel Registrar SKIT, Jaipur



Ms. Abba Meel Advisor SKIT, Jaipur



Prof. (Dr.) R. K. Jain DEAN SKIT, Jaipur



Dr. Sarfaraz Nawaz Head, Dept. of EE SKIT, Jaipur

Chief Guest



Sh. Deepak Consul DGM PGCIL Delhi

Organized by Department of Electrical Engineering

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Rajasthan, India

Minutes of Meeting of Inaugural Session



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur Department of Electrical Engineering



Organizes

A

Faculty Development Program On

Smart Grid Enabling Technologies for Sustainable Future (SGETSF-2023)

March 13-17,2023

Invitation for

Inaugural Ceremony

(March 13, 2023 at 9:30 AM onwards) (Minute to Minute Programme)

Event Description	Duration
Introduction by Anchor (Nikita Choudhary, EE Dept., SKIT, Jaipur)	9:30 AM – 9:32 AM
Welcome Address	022.134 024.134
(Dr. Ramesh Kumar Pachar, Principal, SKIT, Jaipur)	9:33 AM – 9:36 AM
About the SKIT	
(Dr. Sarfaraz Nawaz, Head of EE Dept., SKIT, Jaipur)	9:39 AM – 9:42 AM
About the FDP	
(Dr. Jyoti Shukla, Asst. Professor, EE Dept., SKIT, Jaipur)	9:43 AM – 9:45 AM
Address by Chief Guest	
(Dr. Deepak Consul, DGM, PGCIL, Delhi)	9:46 AM – 9:56 AM
Vote of Thanks	
(Ms. Deepti Arela, Asst. Professor, EE Dept., SKIT, Jaipur)	9:57 AM – 10:00 AM

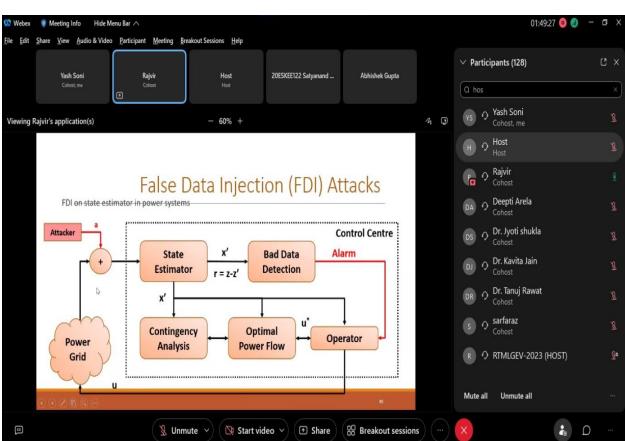
Day-1 Inaugural Session (9:30-10:00 AM)





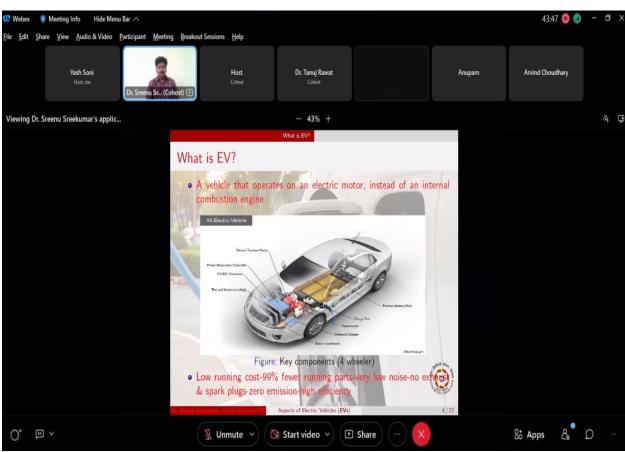
Day-1 Session-I (10:00-11:00 AM)



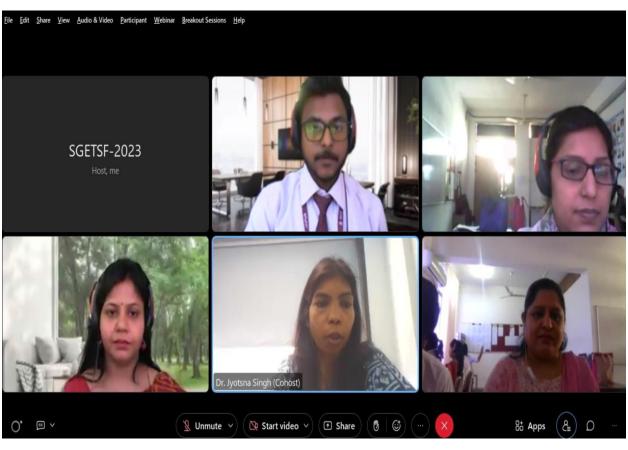


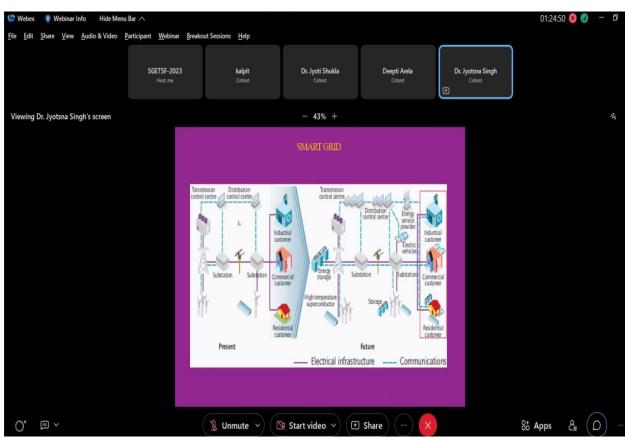
Day-1 Session-II (11:30-12:30 PM)



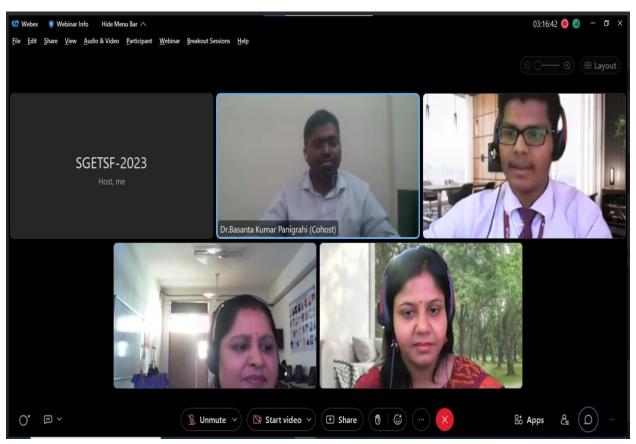


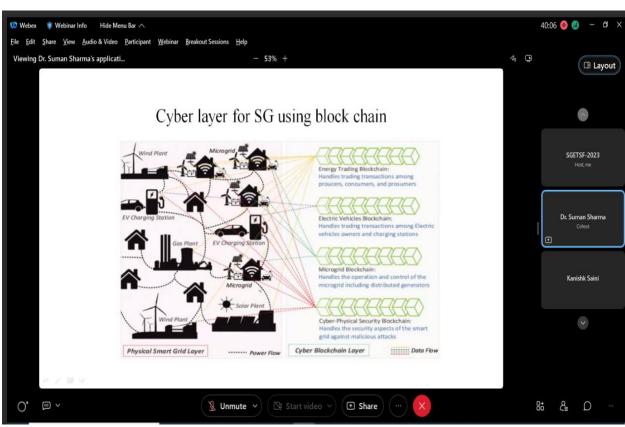
Day-2 Session-I (10:00-11:00 AM)



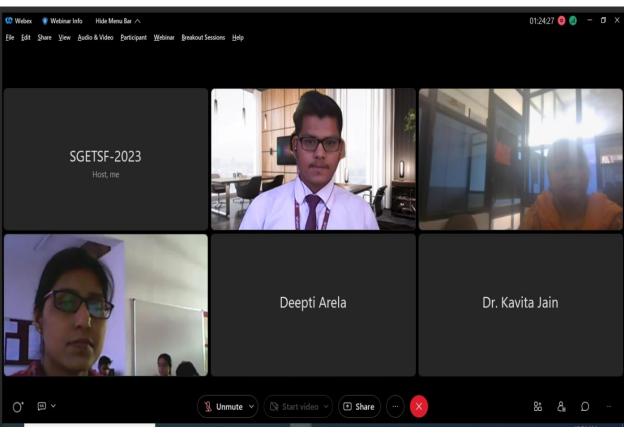


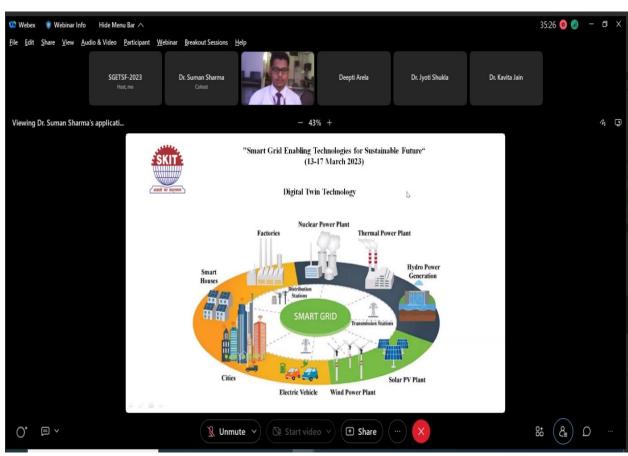
Day-2 Session-II (11:30-12:30 PM)



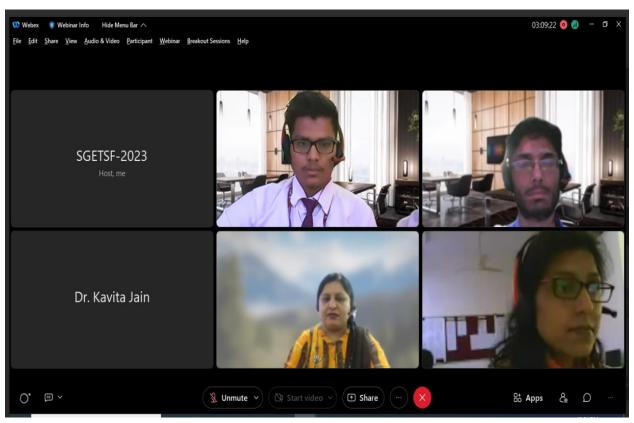


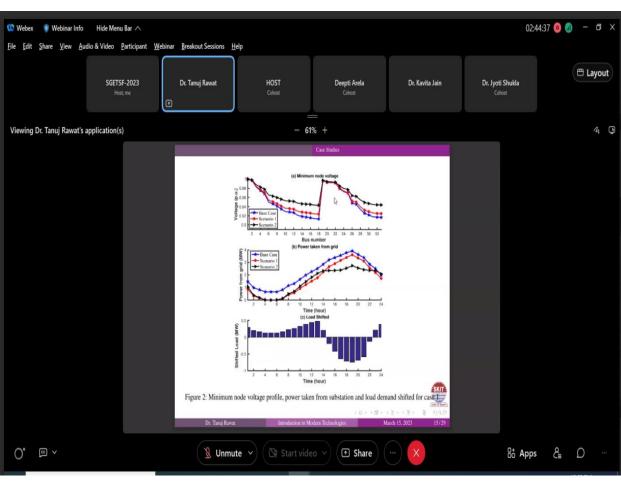
Day-3 Session-I (10:00-11:00 AM)



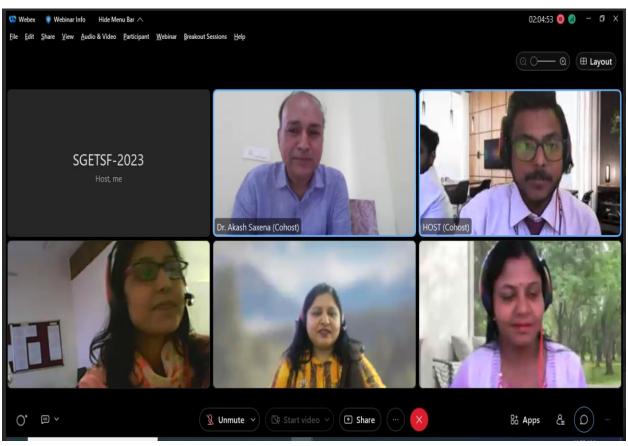


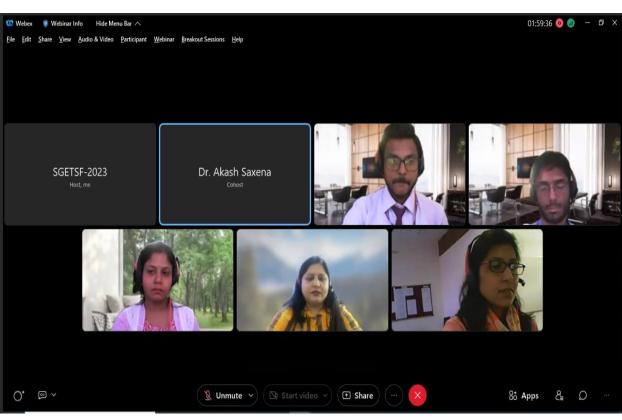
Day-3 Session-II (11:30-12:30 PM)



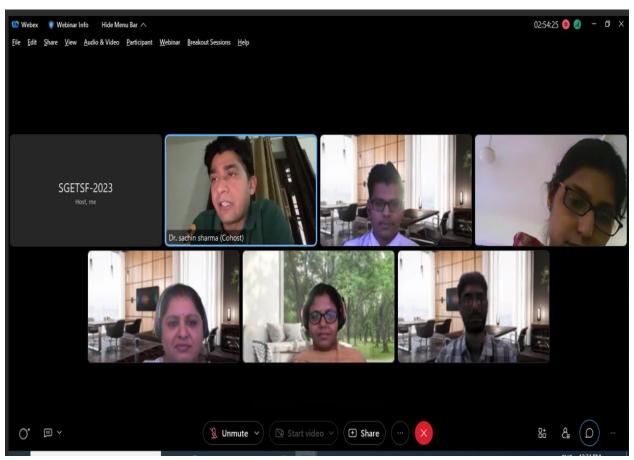


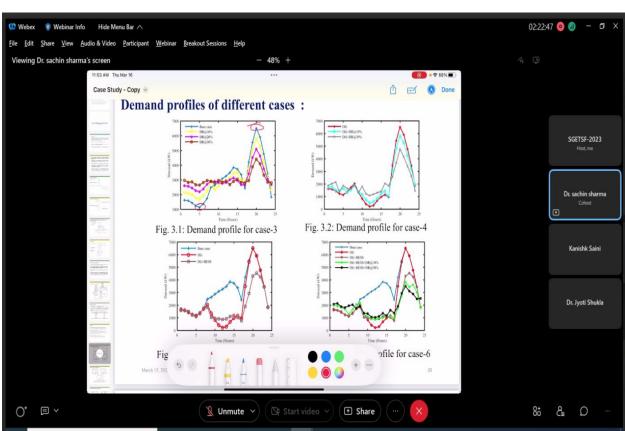
Day-4 Session-I (10:00-11:00 AM)





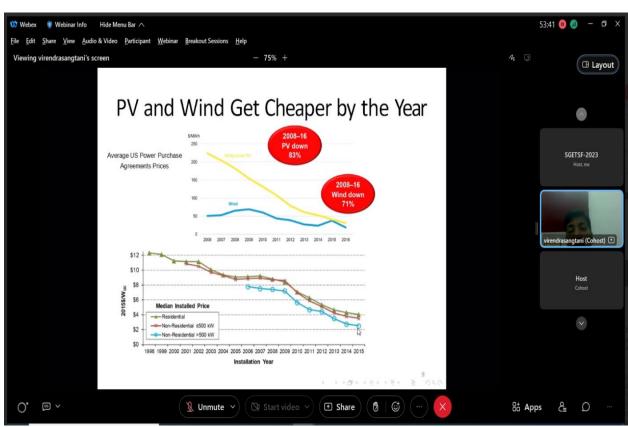
Day-4 Session-II (11:30-12:30 PM)



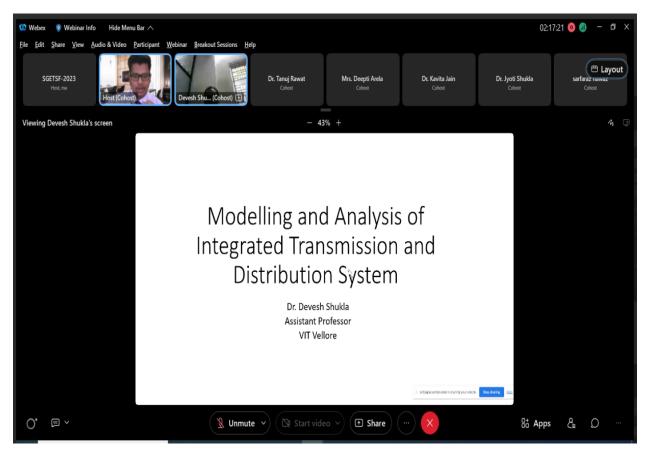


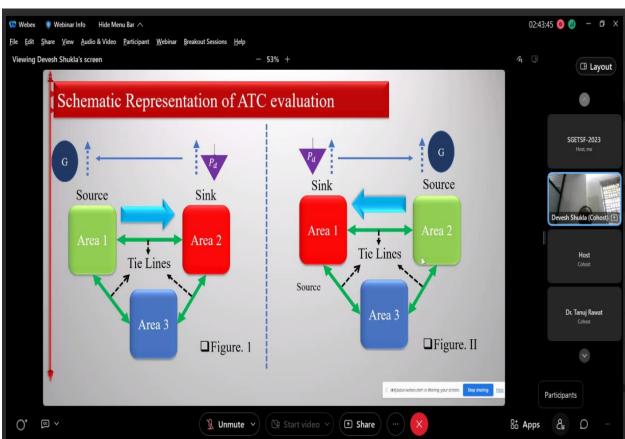
Day-5 Session-I (10:00-11:00 AM)





Day-5 Session-II (11:30-12:30 PM)





Day-5 Valedictory Function (12:30-1:00 PM) 03:21:29 **0 0 - D** × <u>File Edit Share View Audio & Video Participant Webinar Breakout Sessions Help</u> Devesh Shukla SGETSF-2023 Dr.Basanta Kumar Panigrahi (Cohost) O. @ ^ 8[±] Apps (& □ 03:15:59 💿 📵 🗕 🗗 🗙 $\underline{\underline{F}} \text{ile} \quad \underline{\underline{F}} \text{dit} \quad \underline{\underline{S}} \text{hare} \quad \underline{\underline{V}} \text{iew} \quad \underline{\underline{A}} \text{udio} \ \& \ \underline{V} \text{ideo} \quad \underline{\underline{P}} \text{articipant} \quad \underline{\underline{W}} \text{ebinar} \quad \underline{\underline{B}} \text{reakout Sessions} \quad \underline{\underline{H}} \text{elp}$ SGETSF-2023 Devesh Shukla (Cohost) Dr. Jyotsna Singh



O. @ ^

Bt Apps & □

8. SAMPLE COPY OF CERTIFICATES

8.1 Sample of Participant's Certificates



Faculty Development Programme on mart Grid Enabling Technologies for



"Smart Grid Enabling Technologies for Sustainable Future"

CERTIFICATE OF PARTIPICATION

Ref. No./SKIT/EE/SGETSF/2022-23/035

This is to certify that "Mrs. Supriya Awasthi" has attended a 5 Days Faculty Development Programme on "Smart Grid Enabling Technologies for Sustainable Future (SGETSF-2023)" held from March 13-17, 2023 at Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur.

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SKIT, Jaipur

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Dr. Tanuj Rawat Assistant Professor SKIT, Jaipur Mrs. Deepti Arela Assistant Professor SKIT, Jaipur



Faculty Development Programme
on
"Smart Grid Enabling Technologies for
Sustainable Future"



CERTIFICATE OF PARTIPICATION

Ref. No./SKIT/EE/SGETSF/2022-23/069

This is to certify that "Mrs. Manju Sharma" has attended a 5 Days Faculty Development Programme on "Smart Grid Enabling Technologies for Sustainable Future (SGETSF-2023)" held from March 13-17, 2023 at Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur.

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Dr. Tanuj Rawat Assistant Professor SKIT, Jaipur Mrs. Deepti Arela Assistant Professor SKIT, Jaipur



Faculty Development Programme on



"Smart Grid Enabling Technologies for Sustainable Future"

CERTIFICATE OF PARTIPICATION

Ref. No./SKIT/EE/SGETSF/2022-23/182

This is to certify that "Ms. Ritambhara Pradhan" has attended a 5 Days Faculty Development Programme on "Smart Grid Enabling Technologies for Sustainable Future (SGETSF-2023)" held from March 13-17, 2023 at Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur.

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Dr. Tanuj Rawat Assistant Professor SKIT, Jaipur Mrs. Deepti Arela Assistant Professor SKIT, Jaipur



Faculty Development Programme
on
"Smart Grid Enabling Technologies for
Sustainable Future"



CERTIFICATE OF PARTIPICATION

Ref. No./SKIT/EE/SGETSF/2022-23/154

This is to certify that "Mr. Praveen Kumar Yadav" has attended a 5 Days Faculty Development Programme on "Smart Grid Enabling Technologies for Sustainable Future (SGETSF-2023)" held from March 13-17, 2023 at Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur.

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Dr. Kavita Jain Dr. Tanuj Rawat Assistant Professor SKIT, Jaipur SKIT, Jaipur Mrs. Deepti Arela Assistant Professor SKIT, Jaipur



Faculty Development Programme on



Smart Grid Enabling Technologies for Sustainable Future

CERTIFICATE OF APPRECIATION

Ref. No./SKIT/EE/SGETSF/2022-23/006

This is to certify that **Dr. Sreenu Sreekumar, Assistant Professor** of **NIT Silchar** has contributed as **Resource Person** in the 5 Days Faculty Development Programme on "Smart Grid enabling Technologies for Sustainable Future (SGETSF-2023)" held from March 13-17, 2023 at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur.

Prof(Dr.) R.K.Pachar Principle SKIT, Jaipur

Dr. Sarfaraz Nawaz HOD, EE SKIT, Jaipur



Faculty Development Programme on



Smart Grid Enabling Technologies for Sustainable Future

CERTIFICATE OF APPRECIATION

Ref. No./SKIT/EE/SGETSF/2022-23/013

This is to certify that **Dr. Devesh Shukla, Assistant Professor** of **VIT, Vellore** has contributed as **Resource Person** in the 5 Days Faculty Development Programme on "Smart Grid enabling Technologies for Sustainable Future (SGETSF-2023)" held from March 13-17, 2023 at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur.

Prof(Dr.) R.K.Pachar Principle SKIT, Jaipur

Dr. Sarfaraz Nawaz HOD, EE SKIT, Jaipur



Faculty Development Programme on



Smart Grid Enabling Technologies for Sustainable Future

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Ref. No./SKIT/EE/SGETSF/2022-23/001

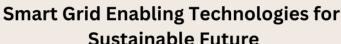
This is to certify that Mrs. Deepti Arela, Assistant Professor of SKIT, Jaipur has contributed as Coordinator in the 5 Days Faculty Development Programme on "Smart Grid enabling Technologies for Sustainable Future (SGETSF-2023)" held from March 13-17, 2023 at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur.

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Dr. Sarfaraz Nawaz HOD, EE SKIT, Jaipur



Faculty Development Programme on mart Grid Enabling Technologies fo



CERTIFICATE OF APPRECIATION

Ref. No./SKIT/EE/SGETSF/2022-23/004

This is to certify that **Dr. Jyoti Shukla, Assistant Professor** of **SKIT, Jaipur** has contributed as **Coordinator** in the 5 Days Faculty Development Programme on "Smart Grid enabling Technologies for Sustainable Future (SGETSF-2023)" held from March 13-17, 2023 at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur.

Prof(Dr.) R.K.Pachar Principle SKIT, Jaipur

Dr. Sarfaraz Nawaz HOD, EE SKIT, Jaipur

9. FEEDBACK FROM THE PARTICIPANTS

			DAY 1	L	DAY 2			DAY 3			DAY 4			DAY5		
Name	Email	How Much was the Sessio n Knowl edgea ble	How Was the Cont ent of The Sessi on	How Inter estin g was the topic chose n For the Sessi on	Ho W Mu ch was the Ses sio n Kn owl edg eab le	Ho W Wa s the Co nte nt of The Ses sio n	How Inter esting was the topic chose n For the Sessio n	How Muc h was the Sessi on Kno wled geabl e	How Was the Cont ent of The Sessi on	How Inter estin g was the topic chose on For the Sessi on	How Muc h was the Sessi on Kno wled geabl e	How Was the Cont ent of The Sessi on	How Inter estin g was the topic chose on For the Sessi on	How Muc h was the Sessi on Kno wled geabl e	How Was the Cont ent of The Sessi on	Ho w Int ere sti ng wa s the top ic cho sen Fo r the Ses sio
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10.MEDIA COVERAGE



पांच दिवसीय फैकल्टी डेवलपमेंट प्रोग्राम शुरू | स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान, जयपुर के इलेक्ट्रिकल इंजीनियरिंग विभाग ने पांच दिवसीय फैकल्टी डेवलपमेंट प्रोग्राम 'स्मार्ट ग्रिड इनेबलिंग टेक्नोलॉजीज फॉर सस्टेनेबल फ्यूचर' का शुभारम्भ 13 मार्च को किया गया। एफडीपी के उद्घाटन समारोह के मुख्य अतिथि दीपक कंसल (डीजीएम, पीजीसीआईएल, नई दिल्ली) थे। इलेक्ट्रिकल इंजीनियरिंग के प्रमुख डॉ. सरफराज नवाज ने सभी प्रतिभागियों का स्वागत किया और एसकेआईटी की उपलब्धियों के बारे में बताया। डॉ. ज्योति शुक्ला (सहायक प्रोफेसर, ईई विभाग, एसकेआईटी) ने एफडीपी के बारे में जानकारी दी। इसके बाद मुख्य अतिथि दीपक कंसल ने स्मार्ट ग्रिड और वर्तमान परिदृश्य में इसके महत्व का संक्षिप्त में परिचय दिया। उन्होंने आयोजन टीम और कार्यक्रम समन्वयक डॉ. ज्योति शुक्ला, डॉ. तनुज रावत, डॉ. कविता जैन और दीप्ति अरेला) को इतने महत्वपूर्ण विषय पर फैकल्टी डेवलपमेंट प्रोग्राम कराने के लिए सराहना की। अंत में दीप्ति अरेला (सहायक प्रोफेसर, ईई विभाग, एसकेआईटी) ने एसकेआईटी के सभी स्टाफ, मुख्य अतिथि और सभी प्रतिभागियों को हार्दिक धन्यवाद दिया।

स्मार्ट ग्रिड एनेबलिंग टेक्नोलॉजीज फॉर सस्टेनेबल फ्यूचर' की पांच दिवसीय एफडीपी संपन्न

P3 Police Public Politics

जयपुर । स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोधन (एसकेआईटी) जगतपरा, जयपर के इलेक्ट्रिकल इंजीनियरिंग विभाग का पांच दिवसीय एफडीपी कार्यक्रम 17 मार्च, 2023 को समाप्त हो गया है। एफडीपी का आयोजन ऑनलाइन माध्यम से ÷स्मार्ट ग्रिड इनेबलिंग टेक्नोलॉजीज फॉर सस्टेनेबल फ्यूचर÷ पर किया गया। एफडीपी का आयोजन डॉ कविता जैन (सहायक प्रोफेसर, ईई विभाग, एसकेआईटी जयपुर), डॉ तन्ज रावत (सहायक प्रोफेसर, ईई विभाग, एसके आईटी जयपुर), श्रीमती दीप्ति अरेला (सहायक प्रोफेसर, ईई विभाग, SKIT जयपुर), और डॉ. ज्योति शुक्ला



(सहायक प्रोफेसर, ईई विभाग, SKIT जयपुर) द्वारा किया गया था। प्रख्यात वक्ताओं ने एफडीपी के विषय के बारे में अपने सम्मानित ज्ञान को साझा किया। वक्ताओं ने नवीकरणीय ऊर्जा प्रणालियों के एकीकरण, स्मार्ट वितरण प्रणाली के परिचालन मुद्दों और एकीकृत पारेषण और वितरण प्रणाली के मॉडिलंग और

विश्लेषण के मुद्दों और चुनौतियों के बारे में भी बात की। प्रतिभागियों को स्मार्ट ग्रिंड और इलेक्ट्रिक वाहनों के पहलुओं से अवगत कराया जाना था। अंत में, एफडीपी के आयोजकों ने सभी गणमान्य लोगों को इस एफडीपी को सफल नहीं बल्कि यादगार बनाने के लिए धन्यवाद दिया।



The Electrical Engineering Department of SKIT, Management & Gramothan, Jaipur organised a Five-Day Faculty Development Programme on 'Smart Grid Enabling Technologies for Sustainable Future' (SGETSF-2023) from 13-17 March. The Chief Guest of the Inaugural Ceremony was Deepak Consul DGM, PGCIL New Delhi. The Head of Electrical Engineering Dr Sarfaraz Nawaz gave a brief introduction to SKIT. Dr Jyoti Shukla (Asst. Prof EE Dept, SKIT) briefed about the FDP. The Chief Guest Deepak Consul gave a brief introduction to the Smart grid and its importance in the current scenario.

11.DAYWISE DETAILED REPORT OF STTP

Inaugural Session, (Tuesday 22/3/2022), 9:30-10:00 am

Chief Guest: Shri Deepak counsel, DGM, PGCIL, New Delhi

The inaugural ceremony of the five-day online Faculty Development Program on Smart Grid Enabling Technologies for Sustainable Future organized by the Department of Electrical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, was held on Wednesday, March 22n, 2022. The Chief Guest of the event was Shri Deepak counsel, DGM, PGCIL, New Delhi. More than 250 people from various institutes around the country have registered for this event.

Dr. Sarfaraz Nawaz, HOD, Department of EE, SKIT, welcomed all the dignitaries and participants from various parts of the country, as well as colleagues and students. He discussed a brief introduction of the institute. He mentioned the significance of the FDP and its aim of bringing together a core group of researchers from all over India. He motivated everyone to actively participate in the FDP to get benefits and wished all the coordinators a successful event.

Dr. Jyoti Shukla, Assistant Professor, Department of EE and Coordinator of the workshop, shared a brief introduction of this 5-day Faculty Development program. The main theme of the Faculty Development programme is to discuss and address about the most recent innovative trends, concerns, practical challenges and solution methodologies adopted in the field of emerging trends in smart grid. A smarter grid adds resiliency to electric power systems and better prepares them to address emergencies such as severe storms, earthquakes. At the end-user level, smart grids can enable demand flexibility and consumer participation in the energy system, including through demand response, electric vehicle (EV) charging and self-produced distributed generation and storage. All these attributes are accelerating research in smart grid area.

In the end, Mrs. Deepti Arela, Assistant Professor, Department of EE, offered a vote of thanks to all. She thanked all the invited guests and participants for gracing the occasion with their solemn presence. She also thanked college management for providing all kinds of facilities to conduct such FDP in the department.

Day -1, session- 1(13/3/2021, 10:00-11:00 AM, Eminent Speaker: Dr.Rajvir Kaur):-

The theme for the first session of the first day was "Cyber Security for Smart Grid" and the guest of the session was Dr.Rajvir Kaur. She is currently serving as an Assistant professor at the National Institute of Technology, Puducherry. The seminar was conducted on the online platform

Webex. The guest shared the content of the meeting with all. Firstly she gave an outline of the session. She explained how Ellen Gill coined the term Cyber-Physical System where CPS combined digital and physical objects. Then she explained the evolution of CPS which included 'Edge Computing and Cloud Computing' as the significant technologies that led to this evolution on a global level. She discussed the components of CPS and industrial control systems followed by the types of ICS. She also explained reasons for vulnerabilities in ICS where connections between the process network and other networks tend to lack securement and a variety of data flows between networks also sometimes unprotected control system components and physical and logically distributed environments will be more difficult, Followed by cyber attacks on ICS, depending upon the motive of the attacker (financial or non-financial). She then shared the data on utility incidents worldwide. At the end of her presentation, she explained the Smart Grid and its components of Smart Grid which mainly included Advanced metering infrastructure, Phasor measurement units and Digitalized substations leading to The Ukraine Attack and its stats.

Day- 1, session- 2 (13/3/2021, 11:30-12:30 AM, Eminent Speaker: Dr.Sreenu Sree kumar.):-

The theme for the first session of the first day was "Electric Vehicles" and the guest of the session was Dr.Sreenu Sreekumar. He is currently serving as an Assistant professor at the National Institute of Technology, Silchar. The seminar was conducted on the online platform Webex. He explained the aspects of Electric Vehicles in the modern world. Then he explained the aspects at a deeper level which included Rapid Urbanization, Climate Change, Energy Security and Energy availability. 64% on road mobility-related energy demand reduction by 2030-156 Mtoe-37% of carbon emission reduction-savings of Rs 3.9 lakh crore. He explained the history of EVs from the 1700s to 2008 followed by in-depth knowledge about EVs and the key components of EVs. The components of EVs are Electric Traction Motors. Traction Battery Pack, Power electronic controller etc. He then explained the working principle of the BLDC motor and the construction of the BLDC motor in which the stator core is made up of silicon steel stampings and the rotor is made up of a permanent magnet. Windings are connected to a dc supply via a power electronic switching circuit.

At last, he shared the data of 'Leading EVs in India' which included TataNexon EV, Hyundai Kona Electric, MG 2S EV, Tata Tigor EV etc. At 11:02 AM, the student host presented the vote of thanks to the speaker for giving such an insightful session to all the attendees. The session ended successfully at 11:10 AM. under the guidance of the faculty members of the Electrical Engineering department of the SKIT college.

Day- 2, Session -1 (14/3/2021, 10:00-11:00 AM, Eminent Speaker: Dr. Jyotsna Singh):-

The topic for today's first session was 'Electric Vehicle Integration in Smart Grid' and the honored guest of this session was Dr. Jyotsna Singh. The seminar was conducted on the online platform Webex. Firstly she gave an outline of the session and then explained what is a conventional grid, the problems in these grids, these grids are powered by fossil fuels, so contribute to greenhouse gases. The load is increasing continuously so we have to come up with an alternative solution. Then she started the introduction to the Smart Grid and discussed the basic architecture of the Smart grid like this grid has a high-temperature superconductor, energy storage, transmission control center, distribution control center, substation, etc. She then discussed the smart grid enabling technologies, and the challenges and benefits of the smart grid. The benefits are better efficiency, better reliability, better power quality, environmental benefits, etc, and the challenges are, optimal allocation of these technologies, the interest of different stakeholders, etc. She explained the coordination of electric vehicles' reactive power and renewable energy in a smart grid, the mathematical modeling of EVs demand, and two-stage EVs scheduling with renewable power. She also shared the data of total real power taken from the grid and at last she gave a summary of the session and the source of the data.

Day- 2, Session- 2 (14/3/2021, 11:30-12:30 AM, Eminent Speaker: Dr.Basanta Kumar Panigrahi)

The topic for second day second session was 'Study of Faults in Distributed Generation Based Power System for Sustainable Future' and the honored guest of this session was Dr.Basanta Kumar Panigrahi. The seminar was conducted on the online platform Webex. Firstly he gave an introduction to the session by telling everyone about 'what is a fault' and that it needs to be located and cleared as fast as possible. Then he discussed the steps involved in the characterization of fault disturbances. He also suggested a roadmap to achieve the goal of detection of faults, their classification, and their location. He discussed the single-line diagram with four DGs connected to the grid. Then he discussed four methods for the analysis of the fault which were using wavelet transform, using wavelet packet transform, using HS transform, and using independent component analysis. He then explained the methods using different figures. The next slide was the classification of faults in a DG-based power system. There were five classifications that Dr. discussed using some figures and tables. At last Dr.Basanta concluded his session by giving a conclusion of detection, classification, and location of the fault and also the future scope of it. He also shared his contact details and references with all.

Day -3, Session- 1 (15/3/2021, 10:00-11:00 AM, Eminent Speaker: Dr. Akash Saxena)

The theme for the first session of the third day was "Future Grids and Optimization **Framework**" and the revered guest of the session was Dr. Akash Saxena. He is currently serving as a Professor at the School of Engineering and Technology, located in the Central University of Haryana. The seminar was conducted on the online platform Webex. Firstly, he expressed his gratitude to the committee, coordinators and HOD of the EE department. After this, he gave an outline of the session and explained, that the focus of the session is on the basic development of the framework with special reference to the future grid. He talked about future grids... By giving us a brief about the conventional grids of the 1960s or 1980s when restructuring has started by the policymakers. The conventional grid at that time was a typical conventional structure where all the entities like generation, transmission, and distribution are governed by the government only. But, in the present time, the consumer is also a part of the conventional grid and private players are also taking care of the above-mentioned entities. Then, he explained through a case study how a framework can be built by optimization. Then he gave us a brief about what is demand response and the various reactions of consumers to it such as reducing consumption, shift consumption, using on site consumption, etc. Then he shared about the demand response benefits and sides of demand response benefits such as participant side, market side, market performance side, and reliability side. And then he added some demand side management and optimization techniques. He discussed the various ways of estimating and developing the baseline load curve using the data from baseline windows such as averaging, regression, maximum value, rolling average etc. He also shared the fact that Jaipur Vidyut Vitran Nigam Limited (JVVNL) used the "5 in 10" method for the estimation of the baseline for its DR project which covered July 2013 to march 2014. He further explained the critical review of wind and Renewable Integration, critical review of marked and remuneration, and critical review of optimization in DSM. Then, he discussed the development and applications of intelligent demand response simulators by nature-inspired algorithms using two case studies. After that, he continued with the various problem formulations regarding the optimization framework. He explained that the validation of the proposed technique is done by two test boats... Test boat one is strategic conservation and two is load shifting. He continued by sharing a Whale Optimization Algorithm (WOA) and its pseudo code, strategic conservation results of the residential area, reduction in operational cost, Reduction in peak demand, etc. Then he shared the Grey Wolf Optimizer (GWO) and its pseudo code. He touched upon various different topics such as the design of an intelligent demand response Simulator by divergent Biogeography Based Optimization (BBO), Immigration λ , emigration μ . He discussed two variants of BBO (Iteration control BBO and pandemic BBO) with their respective pseudo codes. He shared

about Slime Mould Algorithm (SMA) and Oppositional Slime Mould Algorithm (OSMA). Then he concluded the session with a brief summary of the whole presentation.

Day -3, Session- 2 (15/3/2021, 11:30-12:30 AM, Eminent Speaker: Dr. Tanuj Rawat)

The theme for the second session of the third day (11:30 AM to 12:30 PM) was "Joint Operational Planning of Smart Grid Enabling Technologies in Distribution System". The seminar was conducted on the online platform Webex. The session was started by the student host with greetings to all the dignitaries. He then welcomed and greeted the guest and gave a brief introduction about Dr. Tanuj Rawat to all the attendees. The guest then began sharing the content of the meeting with all. Firstly, he expressed his gratitude to the committee, coordinators, and HOD of the EE department. After this, he mentioned that the conventional grid, the electrical grid of the past century, is a unidirectional network. This means that electricity flows unidirectionally from generators to substations, over transmission lines, and eventually to consumers' outlets. Additionally, it should be noted that most of the equipment and lines of the conventional power grid were installed many years ago. They are large investments and accordingly, their provisioning typically takes years. As a result, these grid elements are outdated and need to be maintained and supervised frequently in order to keep the power flowing. Also, fossil fuels are constantly being depleted, through this and other uses, and are therefore generally getting more and more expensive based on market prices. He also explained about Distributed energy resources (DERs) which are small-scale energy resources usually situated near sites of electricity use, such as rooftop solar panels and battery storage. Their rapid expansion is transforming not only the way electricity is generated but also how it is traded, delivered, and consumed. He also explained about two different planning frameworks for joint allocation and operation management of distributed energy resources (DERs) in the distribution system. In the first planning framework, the allocation of wind and solar-based distributed generations (DGs) in presence of demand response (DR) to optimize network losses in the distribution system is considered. In the second planning framework, optimal accommodation of both photovoltaic (PV) and battery storage systems (BSS) in a distribution system integrated with DR technology to simultaneously minimize energy losses and maximize PV hosting capacity is investigated. The initial mixed-integer non-linear programming (MINLP) problem is transformed into a mixed-integer second-order conic programming (MISOCP) model for both the planning frameworks. The planning framework for both models is assessed on a 33bus distribution system under different case studies. Dr. Tanuj Rawat concluded that although the allocation of only PV in the distribution system reduces energy losses but it increases peak-tovalley difference and load deviation without any reduction in peak demand or improvement in

minimum node voltage. Hence, planning only PV results in the underutilization of grid assets and demand more investments. He also concluded that increasing the DR participation rate improvises the technical parameters of the distribution network and hosting capacity of renewables.

Day -4, Session- 1(15/3/2021, 10:00-11:00 AM, Eminent Speaker:Dr. Suman Sharma)

The topic for day four session one was 'Digital Twin Technology'; this session's honored guest was Dr.Suman Sharma. She is the Associate Professor in the Electrical engineering department of Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur Rajasthan. The seminar was conducted on the online platform Webex. Firstly she gave an outline of the session and then explained what is a 'Digital Twin Technology' and its significance in the evolution of the electricity grid. Then she started the introduction to the Digital Twin Technology and discussed the basic architecture of the Digital twin technology like Digital Twin is a rapidly growing field in which a virtual replica or digital model of a physical system, product, process, or service is created. This digital replica can be used to simulate and analyze the behavior of the physical system, allowing for better understanding, optimization, and prediction of its performance. Digital twins can be applied in various industries, including manufacturing, healthcare, transportation, and construction, among others. They have the potential to improve efficiency, reduce costs, enhance safety, and enable better decision-making. However, developing and maintaining an accurate digital twin requires careful consideration of data quality, model accuracy, and security concerns. She also shared the data of total detail of Dgital Twin Technology and at last she gave a summary of the session and the source of the data.

Day -4, Session- 1 (15/3/2021, 11:30-12:30 AM, Eminent Speaker: Dr. Sachin Sharma)

The Theme of the day four second session was 'Operational Issues Of Smart Distribution System'. This session's honored guest was Dr. Sachin Sharma. He is the Assistant Professor in the Electrical Engineering Department of Graphic Era University Dehradun. The seminar was conducted on the online platform Webex. Firstly he gave an outline of the session and then explained what is 'Operational Issues Of Smart Distribution System' and 'Bi-level optimization framework for optimal accommodation of PV and BESS in the distribution system in Coordination with DR'. Then he started the introduction to the operational issues of the smart distribution system and discussed the basic architecture of the operational issues of smart distribution system. Smart distribution systems are modern power distribution systems that incorporate advanced technologies such as real-time monitoring, control, and communication capabilities. These

systems offer several benefits such as improved reliability, efficiency, and flexibility. Addressing these operational issues requires a comprehensive approach that involves collaboration between various stakeholders, including utilities, regulators, technology providers, and customers. Robust cybersecurity measures, effective data management strategies, and adequate technical training and support are essential to ensuring the smooth operation of smart distribution systems. He also shared the data of total detail of Smart Distribution System and at last he gave a summary of the session and the source of the data. At last student host presented the vote of thanks to the speaker for giving such an insightful session to all the attendees and then requested all the panelists to turn on their cameras to windup the meeting by capturing a snapshot.

Day -5, Session- 1 (16/3/2021, 10:00-11:00 AM, Eminent Speaker: Dr. Virendra Sangtani)

The theme for the first session of the fifth day was 'Integration of Renewable Energy Systems: Issues and Challenges" and the revered guest of the session was Dr. Virendra Sangtani. He is currently serving as an Associate professor at Swami Keshvanand Institute of Technology, Jaipur, Rajasthan. The seminar was conducted on the online platform Webex. The guest began sharing the content of the meeting with all. Firstly, he expressed his gratitude to the committee, coordinators and HOD of EE department. After which he gave an outline of the session and explained, what is Renewable Energy, Renewable Energy Sources, Types of Renewable Energy Sources, and uses of this energy. He added that the capital cost of solar and wind energy (renewable energy) for the load are \$5000\$25000 and \$500-\$1000. Then he shared the global energy consumption status report where fossil fuels shared energy consumption around 78.4% and all renewable energy around 19.3% in 2016. He discussed about the Electric Energy Sector where Non-Renewable Electricity dominated renewable electricity by the percentage ratio of 75.5: 24.5 also hydropower made a total of 16.6% out of 24.5% Renewable electricity. 'Major Energy transitions are slow as 1.2 billion people lack access to electricity and 2.8 billion people rely on biomass and heating.' He shared the statistics and figures of Solar PV growth and wind growth where Solar PV accounted 303GW and wind accounted 487GW (record at the world total). He also elaborated about Grid connected battery storage which grew by 50% in 2016. He outlined the efficiencies and productivity of renewable energies, Solar up to 16%, Wind up to 40% and biofuel 20%, followed by a small review on Variability and distribution and transmission. He also specified the operation of CAES (Compressed Air Energy Storage) and described types of batteries which included Lead Acid battery, Sodium Sulphur Battery, Nickel Cadmium and Lithium Ion. At last, he elucidated the reasons for Energy Storage and how to comprehend Energy Storage.

Day-5, Session -2 (16/3/2021, 11:30-12:30 AM, Eminent Speaker:Dr. Devesh Shukla)

The theme for the second session of the fifth day was "Modelling and Analysis of integrated Transmission and Distribution". and the revered guest of the session was Dr. Devesh Shukla, He is currently serving as an Associate professor at VIT, Jaipur, Rajasthan. The seminar was conducted on the online platform Webex. The session was started by the student host with greetings to all the dignitaries at 11:30 A.M. He welcomed and greeted the guest and gave a brief introduction about Dr. Devesh Shukla to all the attendees. Firstly, he expressed his gratitude to the committee, coordinators and HOD of the EE department. to all the attendees. The guest then began sharing the content of the meeting with all. He mentioned what are the probabilities of bidirectional power flow and he elaborated us about the need for Co-simulation of transmission and distributed systems. He stated that the Power transmission is the large-scale movement of electricity at high voltage levels from a power plant to a substation whereas power distribution is the conversion of highvoltage electricity at substations to lower voltages that can be distributed and used by private, public, and industrial customers.

He also put into words a summary of various metrics for evaluating power system flexibility is presented, which is not yet available in the literature. Also, this review article highlights flexibility assessment in the presence of variable generation and load uncertainties. Common power system planning and operational models—namely, net load analysis, capacity expansion, production cost, and dynamic models—are reviewed to illustrate each model's outputs for flexibility assessment. In distribution systems integrated with DR technology to simultaneously minimise energy losses and maximise PV hosting capacity is investigated. Theinitial mixed-integer nonlinear programming (MINLP) problem is transformed into a mixed integer second order conic programming (MISOCP) model for both the planning frameworks. The planning framework for both the models is assessed on a 33-bus distribution system under different case studies. He concluded that Developing approaches to analyses the vast quantities of data generated in integrated T&D modelling, validating the algorithms using field data, and developing theoretical underpinnings for the accuracy, stability and convergence of integrated T&D modelling algorithms are some of the other areas of research that would facilitate the widespread adoption of integrated T&D modelling of power systems by the industry. Researchin integrated T&D modelling is filled with exciting possibilities and success here has the potential to significantly improve the modelling of power systems under increasing penetration of distributed and renewable energy resources.

12.1 Objective of STTP

- > Smart grid fundamentals, architecture
- > To understand about importance of simulation and modelling.
- Network communications requirements in terms of protocols, delay, bandwidth, and cost as essential in smart grid security development
- > Security aspects in smart grid: network security, data security, cyber security issues
- > Standards, protocols, secure standards for automation and communication for maintaining cyber security.
- > IoT applications in smart grid for security
- > Advanced Metering Infrastructure Security
- > AC/DC, DC/DC micro grids and power electronics applications
- > RES integration issues, Wide area measurements: Use of phasor measurement units (PMUs) to ensure accurate time information.
- > Electrical Vehicles and energy storage

12.2 Outcome of STTP

- > Identify the latest trends in smart grid technology
- > Analyse the performance of smart grid system
- > Establish optimal sizing of RES system for smart grid
- > Simulate the integration of smart grid and electric vehicle

13. OTHER INFORMATION

FDP on "Smart Grid Enabling Technologise for Sustainable Future"

SGETSF-2023 (13-17 March 2023)

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Атоп	2500	2500	2500	2500	3000	2500	2500
Pan Number Amount	COCPK7583L	FJJPS9150J	HDFC0001843 DTGPS6824E	ATVPP5233C	IBKL0000298 AYWPS9977N	CCRPS3162A	SBN0011445 CQAPS7630C
IFSC code	ICIC0006768	SBIN0007061	HDFC0001843	SBIN0010927		UTIB0003560	SBIN0011445
Bank Details	ICICI MNIT Jaipur ICIC0006768	SBI, NIT SILCHAR SBIN0007061	HDFC New Sanganer Road, Jaipur	SBI, Khandagiri	IDBI BANK, Sunny 0298104000137874 Paradise Gopalpura, Jaipur	Axis Bank, Shimla bypass, Dehradun	SBI, IT ВНU
Bank Account No.	676801502491	37018862440	50100450189519	31282560016	0298104000137874	921010010927514	33447571926
Topic	Cyber Security for Smart Grid	Aspects of Electric Vehicles	Electrical Vehicle Integration in Smart Grid	Study of Faults in Distributed Generation based Power Systems for Sustainable Future	Future Grids and Optimization Framework	Operational Issues of Smart Distribution System	Modelling and Analysis of Integrated Transmission and Distribution System
Affliation	Assistant professor, NIT Puducherry	Assistant professor, NIT SILCHAR	Assistant professor, Banasthali vidhyapeeth, Rajasthan	Associate Professor, ITER Bhuveneshwar	Professor, Central university Future Grids and of Haryana	Assistant Professor, Graphic Era University, Dehradun	Assistant Professor, VIT Vellore
Name of Eminent Speaker	Dr. Rajvir Kaur	Dr. Sreenu sreekumar	Dr. Jyotsna singh	Dr. Basant Kumar Panigrahi	Dr. Akash Saxena	DR. Sachin Sharma	Dr. Devesh Shukla
Date of Expert Lecture	13-03-2023	13-03-2023	14-03-2023	14-03-2023	15-03-2023	16-03-2023	17-03-2023
Sr. No.	-	2	3	4	5	9	7

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