

TECHNICAL REPORT

One-Week Faculty Development Programme on "Smart Use of Renewable Energy Resources for Sustainable Future" February 21 to 25, 2022





Department of Mechanical Engineering

Swami Keshvanand Institute of Technology, Management and Gramothan

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Approval letter of the Event

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Mechanical Engineering

Date: 27.08.2021

Subject: Proposals from ME Deptt. for online events for the session:2021-22

Following proposals for conduction of online events (FDP/STTP/Conference/Expert Lecture) are being submitted for your kind approval:

S.No.	Proposed Event Title	Event Type	Faculty Coordinators	Tentative Dates	Duration	Budget
1	Industrial Automation and Smart Manufacturing	STTP	Dr. Manoj Kumar Sain Mr. Praveen Saraswat Mr. Brij Mohan Sharma	22-26 November, 2021	5 Days	30,000/-
2	Smart Use of Renewable energy resources for sustainable futureRenewable Energy	FDP	Dr. Chandan Kumar Mr. Ankit Agarwal Mr. Dinesh Sharma	6-10 December, 2021	5 days	30,000/-
3	Advanced Optimization Techniques and their Applications (AOTA) -2021	FDP	Dr. Prem Singh Sudesh Gang Vinay Marwal	13-18 December, 2021	5 days	30,000/-
4	International Conference on "Mechatronies Applications in Manufacturing and Automation" (ICMAMA-2021-22)	Conference	Dr. Vikash Gautam Dr. Prem Singh Mr. Sudesh Gang	20-22 January, 2022	3 days	25000/-
5	Student workshop on Data Analytics & Research Methodology	Workshop	Dr. Achin Srivustav Dr. Chandan Kumar Mr. Praveen Saraswat Dr.Manoj Kumar Suin	8-12 February, 2022	5 Days	30,000/-
6	International Conference on "Smart Industries and Manufacturing Systems" (SIMS-2022)	Conference	Dr. Manoj Kumar Sain Mr. Praveen Saraswat	23-25 June, 2022	3 Days	25000/-
7	Expert lecture series	Expert Lecture	Dr. Deepak Kumar (Coordinator)	6 lectures	2 Hour each lecture	10000/-

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Dr. Dheeraj Joshi
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Event Brochure



Faculty Development Programme

on

"Smart Use of Renewable Energy Resources for Sustainable Future"

(SURER-2022)

(FEBRUARY 21 - 25, 2022)

Organized By

(Department of Mechanical Engineering)

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



No Registration Fee



Last Date of Registration 18th February, 2022



Email: fdp_me@skit.ac.in



Registration Link: https://forms.gle/xj46YjjPwVoS2QCr7

Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur – 302017
Web: www.skit.ac.in, Phone: +911415160463

About SKIT - Jaipur

SKIT – Jaipur was established in the year 2000 as an embodiment of the teachings of Swami Keshvanand. The Institute is affiliated to Rajasthan Technical University, Kota for offering Graduate and Under-graduate Courses in Engineering and Management. As of today, SKIT-Jaipur is consecutively fourth time ranked No. 1 institute by Rajasthan Technical University, Kota. Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry –Institute Interface. Apart from the University curriculum, SKIT also pursues activities for research and development in various fields. The green landscaping, aesthetic elegance of arches and the vibrant pursuit of knowledge by the young aspirants make the environment serene, pleasant and dynamic. Students joining the institute share the box full of opportunities for professional and personal development through an environment of practical orientation, industrial interaction and student led activities which help the students to develop good communication skills, integrated personality and greater competitive spirit. You are most welcome to visit our website http://www.skit.ac.in/ to gain more insight about SKIT.

About Department of Mechanical Engineering (SKIT – Jaipur)

The department started academic activities in the year 2003-04 with the admission of its first batch of under-graduates. The department offers B.Tech Program (Mechanical Engg.), M.Tech Program (Production Engg. and Renewable Energy Technology) and Ph.D. Program (Mechanical Engg.) approved by RTU, Kota. The department has modern laboratories developed and designed from the perspective of the latest requirements of academia. Consistent pursuit of excellence by the department is clearly reflected in the fact that the department has already been accredited and re-accredited by the National Board of Accreditation (NBA) (India). The department has developed its facilities in such a way that students can practice self-study and undertake other curricular activities. Special attention is paid for developing positive attitudes, leadership, group working and safety consciousness in the students.

Outcomes of The Faculty Development Programme

After attending this FDP, an attendee will be able to:

- ➤ Highlight the role of renewable energy resources for a sustainable future.
- Analyze the design and performance of renewable energy systems.
- Get acquainted with the recent advancements in the field of renewable energy.
- Analyze the smart use of renewable energy resources for sustainable development.
- > Aware about initiatives taken by government bodies to support renewable energy sector.

[SURER-2022]

EMINENT SPEAKERS



Dr. M. V. Reddy
Senior Researcher, Inst. of
Research Hydro-Quebec, Canada



Prof. Dilip Sharma
Professor,
MNIT, Jaipur



Prof. Dharam Buddhi
Dean (R &D),
LPU, Punjab



Prof. Deepak Sharma
College of Engineering and
Technology, Udaipur



Dr. K. Sudhakaran Faculty of Mech. Engg. Univ. Malaysia, Pahang



Dr. Anil Kumar Mechanical Dept, DTU, Delhi



Dr. Brijesh Tripathi Mechanical Dept, RTU, Kota



Dr. K. B. Rana Mechanical Dept, RTU, Kota



Sriman Girdhari Das Akshay Patra Foundation, Jaipur

PATRONS



Sh. Raja Ram Meel Patron, SKIT



Sh. Surja Ram Meel Chairman, SKIT

ADVISORS



Sh. Jaipal Meel Director, SKIT



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



Dr. Ramesh Kr. Pachar Principal, SKIT



Smt. Rachna Meel Registrar, SKIT



Dr. R. K. Jain Dean, SKIT



Dr. Dheeraj Joshi Head, ME, SKIT



Dr. Ashish Nayyar Professor, ME, SKIT

Contents of Faculty Development Programme

- Solar Thermal Systems
- Solar PV Advancements
- Bio-originated Fuels for IC Engines
- Thermal Energy Storage
- Wind Energy Potential and Applications
- Energy System Modelling and Simulation
- Government Initiatives to Promote Renewable Energy

Coordinators

Dr. Chandan Kumar (+91 9460481589)

Mr. Dinesh Kumar Sharma (+91 9785449998)

Mr. Ankit Agarwal (+91 9887222265)

Email: fdp_me@skit.ac.in

Organizing Committee

Dr. Amit Jhalani

Mr. Arun Beniwal

Mr. Naveen Kumar Sain

Ms. Namita Soni

Mr. Sandeep Bhaskar

Schedule of the Event



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Faculty Development Program on





Schedule of the Program

	Schedule of the Program						
Day/Date		Session –I 09.30 AM - 11.00 AM	Session – II 11.30 AM - 01.00 PM				
Monday 21.02.2022	Advances in high energy storage materials Inaugural Session (09.00-09.30 AM) Dr. M.V. Reddy, Institute of Research Hydro- Dr. Anil Kumar, 1		Prospectus of Solar Energy Appl Dr. Anil Kumar, DTU Link: http://shorturl.a	ications in Industry J, Delhi			
Tuesday 22.02.2022	Dr.	and Simulation of Wind Turbine Brijesh Tripathi, RTU, Kota ık: http://shorturl.at/dwySX	Research and Development Schemes for Renewable Energ Mr. Vikas Shinde, MPCST, Bhopal Link: http://shorturl.at/dwySX				
Wednesday 23.02.2022	Prof	drogen fuels in IC engines Dilip Sharma, MNIT, Jaipur ink: <u>http://shorturl.at/jkC18</u>	Science and Sprituality Shriman Girdhari Das, Akshay Patra Foundation, Jaipur Link: http://shorturl.at/jkCI8				
Thursday 24.02.2022	Prof. Deepak Sharma, C	bility in our Daily Life through Renewable Energy Resources College of Engineering and Technology, Udaipur kl: http://shorturl.at/foBRW	Performance Analysis of Dr. Kunj Bihari Rana, R Link: <u>http://shorturl.at</u>	TU, Kota			
Friday 25.02.2022	Thermal Energy Storage Friday Prof. Dharam Buddhi, LPU, Punjab		Energy Transition and Sustainability: The New Era of Mankind Dr. K. Sudhakaran, Universiti of Malaysia, Pahang Link: http://shorturl.at/lqP56	Valedictory Session (01.00-01.30 PM) http://shorturl.at/lqP56			

Note: The event is being hosted on CISCO Webex platform and the link for the sessions are provided here.

Organising Team FDP SURER-2022

<u>List of Invited Guest/Speakers</u>

S. No.	Name of Expert	Designation & Organisation	Contact	Consent
1	Dr. M.V. Reddy	Senior Researcher, Institute of Research Hydro-Quebec, Canada	+1 (514) 2269783 reddymvvr@gmail.com	Dr MV Reddy 19 Jamasny 2022 Good Morning Sir 10.41 am How are you? 10.41 am We are organizing one week FDP with following details and wish to have you as a Chief Guest in inaugural session of this FDP. We also sek to have your caper talk in this session tself. Kindly accept our invitation. One Week Faculty Development Program on "Smart Use of Renewable Energy Resources for Sustainable Future" February 21 − 25 2022 Organized by Department of Mechanical Engineering (NBA Accredited), Swami Keshwanand Institute of Technology, Management & Germothan, Jaipur (India) On Feb 21, 2022 09:15 AM IST omwards 10:44 am It is in online mode. 12,000 pm Many thanks for accept ur invitation and give a talk Message Message
2	Dr. Anil Kumar	Associate Professor, Delhi Technical University, Delhi	9425680448 anilkumar76@dtu.ac.in	Dr. Anil kumar DTU, We are organizing one week FDP with following details and seek to have your expert talk in one of the session in this FDP. Kindly accept our invitation. One Week Faculty Development Program on "Smart Use of Renewable Energy Resources for Sustainable Future" February 27 - 25, 2022 Organized by Department of Mechanical Engineering (NBA Accredited), Swami Keshwanad Institute of Technology, Management & Gramothan, Jaipur (India) Very good morning Ankut ji 11:18 am Ankit ji 11:18 am You One Week Faculty Development Program on "Smart Use of Renewable Energy Resources for Sustainable Future". Convenient on afternoon 21 Feb 2022, mail all information at anlkumar76@dtu.ac.in 4.54 pm

S. No.	Name of Expert	Designation & Organisation	Contact	Consent
3	Dr. Brijesh Tripathi	Associate Professor, Rajasthan Technical University, Kota	9891855857 btripathi@rtu.ac.in	10.48 @ G G G G G G G G G G G G G G G G G G
4	Mr. Vikas Shinde	Principal Scientist, M. P. Council of Science and Technology Bhopal	9926365747 shende.v@gmail.com	Telephonically confirmed.
5	Dr. Dilip Sharma	Professor, Malaviya National Institute of Technology, Jaipur	9414250328 sharmadmnit@gmail.co m	Pr Dilip Sharma 3 February 2022 Respected Sir Good Morning 857 am John March 1997 We are organizing one week FDP with following details and seek to have your expert talk in one of the session in this FDP. Kindly accept our invitation. B.58 am John March 1997 Cone Week Faculty Development Program on 'Smart Use of Renewable Energy Resources for Sustainable Future' February 21 – 25, 2022 Organized by Department of Machanical Engineering (NBA Accredited). Swami Keshwanand Institute of Technology, Management & Gramothan, Jaipur (India) 8.58 am John March 1996 Ok 904 am Many thanks Sir 905 am John Service Start 1996 Berbruary 2022
6	Shriman Girdhari Das	Devotee, Akshay Patra Foundation, Jaipur	9116612168 gdgddasa94@gmail.com, gdgd@hkm-group.org	Telephonically confirmed.

S. No.	Name of Expert	Designation & Organisation	Contact	Consent
7	Prof. Deepak Sharma	Professor, College of Engineering and Technology, Udaipur	9414160221 deepshar@rediffmail.co m	Prof Deepak Sharma 11 February 2022 Respected Sir Good Morning 9,46 am V We are organizing one week FDP with following details and seek to have your expert talk in one of the session in this FDP. Kindly accept our invitation. One Week Faculty Development Program on 'Smart Use of Renewable Energy Resources for Sustainable Future' February 21 – 25, 2022 Organized by Department of Mechanical Engineering (NBA Accredited). Swam Keshwanand Institute of Technology, Management & Gramothan, Jaipur (India) 9,46 am V Good afternoon sir 12,54 pm Thanks for the invite. It would be my pleasure to deliver lecture during the forthcoming FDP being organised by you on a very perinent topic. Kindly schedule the same on either 23/10 cz 74/00/27022 as per your convenience. I will suggest the topic shortly. Regards (a) Message
8	Dr. Kunj Bihari Rana	Assistant Professor, Rajasthan Technical University, Kota	9468855055 kbrana@rtu.ac.in	Telephonically confirmed.
9	Dr. Dharam Budhdhi	Dean (R &D), Lovely Professional University, Punjab	9660195762 dbuddhi@gmail.com	Telephonically confirmed.
10	Dr. K. Sudhakaran	Assistant Professor, Faculty of Mechanical Engineering, University of Malaysia, Pahang	+60 19 7308925 nittsudhakar@gmail.com, sudhakar@ump.edu.my	Sudhakar Sir 19 January 2022 Good Morning Sir 10.46 am V We are organizing one week FDP with following details and seek to have your expert falk in one of the session in this FDP. Kindly accept to rinvitation. One Week Faculty Development Program on Smart Use of Renewable Energy Resources for Sustainable Future February 21 – 25, 2022 Organized by Department of Machanical Engineering (NBA Accredited), Swami Keshwanand Institute of Technology, Management & Gramothan, Jaipur (India) Good morning. I am doing well. Many thanks for the invitation. Hope it is online? Yes sir 11,51 am V It's online 11,52 am Vessign 11,52 am V Okay thank you. I accept the invitation 11,62 am Wessage

<u>List of registered participants</u>

S. No.	Full Name	Mobile Number	Email Address	Category	Organisation / Institute Name
1	Amit Jhalani	9887501755	amit.jhalani@skit.ac.in	Faculty	SKIT Jaipur
2	Naveen Kumar Sain	9413065501	naveen.sain@skit.ac.in	Faculty	SKIT
3	SAURABH GUPTA	9636014447	saurabh.gupta@skit.ac.in	Faculty	SKIT JAIPUR
4	CHANDRA MOHAN KUMAR	8302912546	chandra.mohan@skit.ac.in	Faculty	SKIT
5	Sandeep Kumar Bhaskar	98874 13133	Sandeep.bhaskar@skit.ac.in	Faculty	SKIT, M&G, Jaipur
6	Amit Kumar Bansal	9784594904	amit.bansal@skit.ac.in	Faculty	SKIT jaipur
7	Madhukar Kumar	9649333371	madhukar.raichand@skit.ac. in	Faculty	SKIT JAIPUR
8	Manu Augustine	8107105117	manu.augustine@skit.ac.in	Faculty	SKIT
9	Dinesh Kumar Sharma	9785449998	dinesh.sharma@skit.ac.in	Faculty	SKIT
10	Nitu singh	8587818615	singhnikki200@gmail.com	Student	Skit jaipur
11	Deepak Kachhot	7737357560	dkachhot@jpr.amity.edu	Faculty	Amity University Rajasthan
12	Prashant Mathur	9928003611	mathur.prashant02@gmail.c om	Faculty	Arya College of Engineering and I. T.
13	Rishpal pooniya	9462943794	rishpalpooniya@gmail.com	Student	SKIT JAGATPURA JAIPUR
14	Lalit Kumar Sharma	9413417182	erlksjecrc@gmail.com	Faculty	Jaipur Engineering College and Research Centre
15	Bheru Das Vairagi	9414808236	bheruvaishnav.86@gmail.c om	Faculty	Aravali Institute of Technical Studies
16	Dr. Lalit S Thakur	+919979195 332	lalit.thakur17747@paruluni versity.ac.in	Faculty	Parul University
17	Md Sekendar	8777301583	kanchan.sikandar@gmail.co m	Faculty	SKIT, Management and Gramothan
18	ABHAY DINKER	9680371509	abhay.dinker@iar.ac.in	Faculty	Institute of Advanced Research, Gandhinagar
19	Abdul Razak kaladgi	0866001878 3	arkmech9@gmail.com	Faculty	P.A College of Engg, Mangalore
20	Vivek Pandey	0821890673 3	vivekpandey.22@gmail.co m	Faculty	Mody University of Science and Technology
21	Hemant Raj Singh	94147 87734	hemant.singh@jaipur.manip al.edu	Faculty	Manipal University Jaipur
22	Rakesh Kumar	0946027042 1	rakesh.kumar@jagannathun iversity.org	Faculty	Jagannath Univesrsity Jaipur
23	S.K.Sharma	+919460013 249	sksharma@rtu.ac.in	Faculty	RTU Kota
24	Dr Koshal Kishor	9910856304	koshal.kishor@iar.ac.in	Faculty	Institute of Advanced Research
25	Saif Nawaz Ahmad	7677837164	saif.nawaz.ahmad@gmail.c om	Student	NATIONAL INSTITUTE OF TECHNOLOGY PATNA
26	Vikas Ranveer Singh Mahala	8561811965	vikas.mahala@skit.ac.in	Faculty	SKIT Jaipur
27	Brajesh Kumar	7679554218	brajeshkumar998@gmail.co m	Faculty	Vignan's Institute of Information Technology
28	Deepak Singh Panwar	7974308886	deepaksingh.panwar@ppsu. ac.in	Faculty	P P Savani University
29	Rajesh Maniksa Dharaskar	9637185741	rdharaskar@yahoo.co.in	Faculty	College Of Agricultural Engineering And Technology, Dr.Balasaheb

S. No.	Full Name	Mobile Number	Email Address	Category	Organisation / Institute Name
					Sawant Konkan Krishi Vidyapeeth, Dapoli
30	Prashant Singh	9457846572	prashantimsme@gmail.com	Faculty	Moradabad Institute of Technology
31	Surendra R Kalbande	7588763787	surenkalbande@gmail.com	Faculty	Dr Panjabrao Deshmukh Krishi Vidyapeeth
32	Vibhuti Amrutbhai Patel	9978019216	vapatel@nau.in	Faculty	CAET,NAU
33	Punam Anil Bhavsar	9049805195	punamab3@gmail.com	Faculty	College of Agriculture, Nagpur
34	Narendra Patel	9928258202	patel.narendra10@gmail.co m	Faculty	GITS
35	Rahul Kumar J. Sen	0940840894 8	rahul.sen1422@gmail.com	Faculty	Geetanjali Institute of Technical Studies Dabok
36	MUKESH GANCHI	9636810124	mukeshganchi1988@gmail.	Faculty	AITS,Udaipur
37	Deepti Mehta	8890875986	mehta.deepti89@gmail.com	Faculty	Geetanjali Institute of Technical Studies
38	Narendra Sharma	9827545746	narendrasharma.2304@gma il.com	Faculty	Aravali institute of technical studies, udaipur
39	PAVANENDRA KUMAR	9870708504	epavan02@gmail.com	Faculty	Moradabad Institute Of Technology
40	Preeti	8792338456	preetihj039@gmail.com	Student	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli
41	Arvind Kumar Singh	8630012824	arvindmit230144@gmail.co m	Faculty	Moradabad Institute of Technology, Moradabad
42	Varun Kumar	8233572424	varunkrjbad@gmail.com	Student	National Institute of Technology Patna
43	RAVIKUMAR RAMANLAL RATHOD	9033064853	ravirathod@gcet.ac.in	Faculty	G H Patel College of Engineering & Technology
44	RAKESH MAHAWAR	9460871364	mahawar.rakesh@gmail.co m	Faculty	Dr. K. N. Modi University, Niwai,
45	Onkar Mal Bunker	8955665395	rh.omb1nov@gmail.com	Faculty	Dr. K. N. Modi University Niwai Tonk Rajasthan India
46	Mohammad zuber khan	9772326464	mohdzuber.khan@gits.ac.in	Faculty	Geetanjali institute of technical studies dabok
47	Karan Hiralal Motwani	9099039697	karan.motwani@marwadie ducation.edu.in	Faculty	Marwadi University
48	Paul Arjun Sanjay	8952985774	arjunspaul44@gmail.com	Faculty	Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri
49	Alok Singh	9978365362	salok@nau.in	Faculty	CAET, Navsari Agricultural University, Navsari
50	Alok Kumar	9664058617	alokbijarniya001@gmail.co m	Faculty	SIET, Sikar
51	MANISH BHANDARI	9413509699	MANISHBHA78@GMAIL .COM	Faculty	MBM UNIVERSITY JODHPUR
52	RAM MOHAN	8115557079	rammohan.met12@itbhu.ac. in	Faculty	POORNIMA GROUP
53	SHARAD SHRIVASTAVA	9414931879	shrivastavasharad1@gmail.	Faculty	Poornima Institute Of Engineering & Technology, Jaipur
54	Manisha Joshi	7389394444	manisha18joshi@gmail.co m	Faculty	Geetanjali Institute of Technical Studies, Udaipur

S. No.	Full Name	Mobile Number	Email Address	Category	Organisation / Institute Name
55	Hukam chand	9001484123	hukamchand.me@jecrc.ac.i	Faculty	Jecre jaipur
56	Pramod kumar	7976384735	Pramodchoudhary339@gm ail.com	Faculty	Aravali institute of technical studies
57	Deepshikha Rathore	0887193726 3	deep.nano@gmail.com	Faculty	Amity University Rajasthan Jaipur
58	Mukesh Kumar	0978246554 5	sirfdhayal@gmail.com	Faculty	Modern Institute of Technology and Research Centre
59	shri bhagwan	9411646620	shribhagwanme@gmail.co m	Faculty	Teerthanker Mahaveer University Moradabad
60	DR SUMAN SHARMA	0941498029 3	SUMAN@SKIT.AC.IN	Faculty	SKIT M&G JAIPUR
61	NEERAJ GARG	8890858110	neeraj.garg@skit.ac.in	Faculty	SKIT Jaipur Rajasthan
62	Sarfaraz Nawaz	9351403141	sarfaraz@skit.ac.in	Faculty	SKIT M and G
63	Arun Beniwal	9887102200	arun.beniwal@skit.ac.in	Faculty	SKIT
64	Rahul Khatri	9214556535	rahulkhatri2311@gmail.co m	Faculty	Manipal University Jaipur
65	Prashant Mishra	9829280933	er.prashant2009@gmail.co m	Faculty	NIET Alwar
66	MANJU CHOUDHARY	0969472410 9	manju.choudhary@skit.ac.i	Faculty	SKITM&G, JAIPUR
67	DHEERAJ KUMAR DHAKED	+919785221 804	ddhakar9@gmail.com	Student	Rajasthan Technical University Kota
68	Rajeev Kumar	+919413688 285	rajeev.kumar@spsu.ac.in	Faculty	Sir Padampat Singhania University, Udaipur
69	Lalit Yadav	8949076678	lalit.yadav@spsu.ac.in	Faculty	Sir Padampat Singhania University Udaipur
70	Abdullahi Bello Umar	7073458982	abdulbello2005@gmail.com	Student	Suresh Gyan Vihar University
71	JETENDER BABULAL JANGID	9166250078	Jetenderb.jangid@skit.ac.in	Faculty	SKIT
72	Gagandeep	+918427263 631	gaganluthra88@gmail.com	Student	Thapar University
73	D.K. Vani	9424095701	vanidk66@gmail.com	Faculty	Krishi Vigyan Kendra
74	sumita	9887818787	sumita.hemrom@skit.ac.in	Faculty	SKIT
75	Ankur Mishra	8107579299	ankur.mishra@skit.ac.in	Faculty	Swami keshvanand Institute of technology Management & Gramothan , Jaipur
76	Ajay Kumar Dhanopia	0992890923 5	ajay.dhanopia@skit.ac.in	Faculty	Swami Keshvanand Institute of Technology, Management & Gramothan
77	Praveen Saraswat	9785018458	praveen.saraswat@skit.ac.in	Faculty	SKIT
78	Ganesh S. Bajad	9404869555	gsbajad@gmail.com	Faculty	Institute of Advanced Research
79	DHEEMU LAVANYA KUMARI	8801236626	dheemu.lavanya@gmail.co m	Faculty	TEEGALA KRISHNA REDDY ENGINEERING COLLEGE
80	Ramesh Kumar sharma	9829183262	wsi@jklu.edu.in	Faculty	J k lakshmi
81	Amrendra Kumar Singh	7903685469	er.amren038@gmail.com	Faculty	Modern Institute of Technology And research Centre, Alwar, Rajasthan
82	M.NagaSailaja	6300363728	sailajatkrec@gmail.com	Faculty	Teegala Krishna Reddy Engineering College

S. No.	Full Name	Mobile Number	Email Address	Category	Organisation / Institute Name
83	ANKIT SHARMA	9828236966	ankitshrma000@gmail.com	Faculty	Arya Institute of Engineering & Technology Jaipur
84	GARIMA SHARMA	0941493256 2	garimash.sharma@gmail.co m	Faculty	Global Institute of Technology
85	Hemant Mittal	7062310113	hemant.mittal@gitjaipur.co m	Faculty	GIT jaipur
86	Anand Poras	9412990385	anandsingh29@gmail.com	Faculty	Hindustan College of Science & Technology
87	Sanjay Choudhary	9587838444	Sanjay.choudhary@skit.ac.i n	Faculty	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur
88	Deepak gupta	0880028283 0	guptadeepakmn2468@gmai l.com	Industry Person	Uttarakhand Pollution Control Board
89	Pradeep Kumar	8239707770	pardeepkumar34770@gmai l.com	Faculty	Shekhawati group of institute
90	Monika Khurana	9887775699	khurana.monika2009@gmai l.com	Faculty	Swami keshvanand Institute of technology, management and gramothan, jaipur
91	Sushil Surana	9314889036	sushil@skit.ac.in	Faculty	Swami Keshavananda Institute of Technology
92	Madhav sharma	9887838292	Madhavsharma36@yahoo.c o.in	Faculty	Jagannath University
93	Dr Renu Bagoria	9772278440	renu.bagoria@jagannathuni versity.org	Faculty	Jagannath University
94	Sushma Lohia	8209666028	sushma.lohia@jagannathuni versitv.org	Faculty	Jagannath University, Jaipur
95	VISHNU AGARWAL	0894979492 8	vishnuagarwal.p@gmail.co m	Faculty	Geetanjali institute of technical studies
96	Rajnesh Kumar Yadav	9928457221	yrajnesh@gmail.com	Faculty	Chartered Institute of Technology
97	Pardeep Kumar	9896989643	pardeepkumar456@gmail.c om	Faculty	Chandigarh Engineering College, Jhanjeri
98	Sasmita Bal	9937113932	sasmitabal@gmail.com	Faculty	Alliance University, Bangalore
99	Shashi Kumar Jain	9893503505	shashi.k.jain@gmail.com	Faculty	Technocrats Institute of Technology & Science
100	Brij Mohan Sharma	9571463814	brijmohan.sharma@skit.ac.i n	Faculty	SKIT, M&G, Jaipur
101	Prakhar Bhardwaj	+918440028 466	pbpraks28@gmail.com	Student	SKIT
102	Abhishek Joshi	8982424748	abhi333joshi@gmail.com	Faculty	Geetanjali Institute of Technical studies, Udaipur
103	PAWAN BORA	9602969394	borapawan2602@gmail.co m	Student	Swami Keshvanand Institute of Technology, Management & Gramothan
104	PRATEEK DEOMAN MALWE	9404582917	prateek0519@gmail.com	Faculty	Dr. D. Y. Patil Institute of Technology Pimpri Pune Maharashtra
105	Deepak Kumar	9571019520	deepak.kumar@skit.ac.in	Faculty	SKIT Jaipur
106	Mr.C.NATESAMURT HI	9790022606	cnmoorthi1975@yahoo.co m	Faculty	Bharathidasan Engineering College, Nattrampalli, Tirupattur Dt.
107	VIKAS VYAS	8788359115	vikas.vyas@skit.ac.in	Faculty	SKIT
108	Lokesh Kumar	9461111876	lokeshg5.rec@gmail.com	Faculty	Dr. K. N. Modi University
109	JAHIER ABBAS SHAAIKH	0904990470 4	jahiershaaikh@gmail.com	Faculty	DYPIT, Pune

S. No.	Full Name	Mobile Number	Email Address	Category	Organisation / Institute Name
110	Sumit Sharma	0963689936 7	sumitait1111@gmail.com	Faculty	ACEIT
111	Pavan Kumar Meena	9057319274	pavankumarmeena578@gm ail.com	Student	SKIT
112	MADHAVAN V M	0999438676 9	madhavanvm@sonatech.ac. in	Faculty	Sona college of Technology, salem
113	Kiran Kumar	8442012170	kiranbugaliarj@gmail.com	Student	Swami keshvanand institute of technology
114	Pravat Kumar Swain	+919078288 499	pravatvision2020@gmail.co m	Faculty	Satyasai Engineering College Balasore
115	Amitkumar Satyawan Gawas	8237123330	amitkumargawas29@gmail.	Faculty	Dr. DY Patil Institute of Technology Pimpri
116	Chetan Jaiswal	7999793014	chetanjaiswal20@gmail.co m	Faculty	Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore
117	Shanavas A	9500435143	Shanavas.shan@gmail.com	Industry Person	Gulf Address Holdings
118	Sunilkumar Bandappa Harsur	8600155102	sunil.harsur@gmail.com	Faculty	Dr.D.Y.Patil Institute of Technology, Pune
119	Surbhi Mishra	9950645794	surbhiudr27@gmail.com	Faculty	Geetanjali Institute of Technical Studies
120	Pranay tak	9530376222	tak.pranay@gmail.com	Faculty	JIT Jaipur
121	Ramireddy Devarapalli	8121312323	devarapalliramireddy55@g mail.com	Faculty	Mahatma Gandhi Law College, Osmania University, Hyderabad.
122	Prashant Jethwani	9214955123	b210803@skit.ac.in	Student	SKIT JAIPUR
123	RAJ VARDHAN	7906215124	raj.vardhan411alpha@gmail .com	Faculty	Hindustan college of science and technology Farah mathura
124	Puneet Mangla	9568006050	puneetmangla73@gmail.co m	Faculty	Hindustan College of Science & Technology
125	Pawan Kumar Yogi	8955662038	yogipawan5@gmail.com	Faculty	Arya College of Engineering and Information Technology
126	Pankaj Mohan Rastogi	9414490254	pankaj.rastogi@spsu.ac.in	Faculty	Sir Padampat Singhania University
127	ANKIT ATAL	7014142091	mr.ankitatal5@gmail.com	Student	Anand international College of engineering
128	Ashish Nayyar		ashishnayyar@skit.ac.in	Faculty	SKIT JAIPUR
129	Dr. Chandan Kumar		chandan.kumar@skit.ac.in	Faculty	SKIT JAIPUR
130	Prof. Dheeraj Joshi		hodme@skit.ac.in	Faculty	SKIT JAIPUR
131	Rahul Khatri		rahul.khatri@jaipur.manipal .edu	Faculty	Manipal University Jaipur
132	Dilip Shrimali		aaranshrimali@gmail.com		
133	Namita Soni		namita.soni@skit.ac.in	Faculty	SKIT JAIPUR
134	Mugutrao Haribhau Tharkar		mugutrao.tharkar@gmail.co m	Faculty	College of Agricultural Engineering and Technology Dr.BSKKV dapoli District Ratnagiri
135	Lav Kumar		Klav6873@gmail.com	Student	Swami Keshvanand Institute of technology and management
136	Rahul Gautam		rahulgautam05211@gmail.c om	Student	IIT DHANBAD
137	Dr Sanjay Soni		soni563@yahoo.com	Faculty	Jabalpur Engineering college

S. No.	Full Name	Mobile Number	Email Address	Category	Organisation / Institute Name
138	Trivendra Sharma		trivendra.tara@gmail.com	Faculty	SKIT JAIPUR
139	Gatika Kumari		gatikadadrwal5@gmail.com	Student	Shekhawati institute of engineering and Technology ,sikar
140	Amit Kumar Mandal		shriamitmandal@gmail.com	Faculty	Poornima College of Engg.
141	Amit Ashokrao Deogirikar		amitdeogirikar@rediffmail.	Faculty	College of Agriculture, Dr Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli
142	Veeresh Kumar Guggilla		veeresh.tkrec@gmail.com	Faculty	TEEGALA KRISHNA REDDY ENGINEERING COLLEGE
143	Mukesh Kumar Lohar		mukeshklohar@gmail.com	Faculty	Geetanjali institute of technical studies dabok udaipur
144	Abhay vasantrao wavare		a_vw@rediffmail.com	Faculty	I E T, kannad
145	Rakesh Suresh More		rakeshmore2014@gmail.co m	Student	Sardar Patel College of Engineering, Mumbai
146	YOKESWARAN.V		yokeswaraneee314@gmail.	Faculty	E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
147	Akshay Verma		vermaakshay1221@gmail.c om	Student	SKIT JAIPUR
148	Hukum Saini		hukumchand.saini@jaganna th university.org	Faculty	Jagan Nath University Jaipur
149	Pradeep kumar sharma		pradeep.me@dknmu.org	Faculty	Dr. K.N. MODI UNIVERSITY, NEWAI
150	Ajay Kumar Dhanopia		ajaydhanopia123@gmail.co m	Faculty	SKIT JAIPUR
151	Jay Kumar Sharma		jaysharma55200@gmail.co m	Student	SKIT JAIPUR
152	YASH MAHESHWARI		yashm5747@gmail.com	Student	SKIT JAIPUR
153	Yogit Kumar		kumaryogit88@gmail.com	Student	SKIT JAIPUR
154	Vishal Kumar sonwal		vishalsonwal1999@gmail.c om	Student	SKIT JAIPUR
155	Mohammad zuber khan		zuber.khan@gits.ac.in	Faculty	Geetanjali institute of technical studies dabok
156	Sarthak Agarwal		sarthakagarwal3a@gmail.co m	Student	SKIT JAIPUR
157	Saksham jain		sakshamjain2107@gmail.co m	Student	SKIT JAIPUR

List of registered participants from SKIT

Faculty members

S. No.	Employe e ID	Full Name (As to be printed on Certificate)	Email Address
1	909	Dr. Amit Jhalani	amit.jhalani@skit.ac.in
2	862	Mr. Naveen Kumar Sain	naveen.sain@skit.ac.in
3	604	Mr. Saurabh Gupta	saurabh.gupta@skit.ac.in
4	695	Mr. Chandra Mohan Kumar	chandra.mohan@skit.ac.in
5	140	Mr. Sandeep Kumar Bhaskar	Sandeep.bhaskar@skit.ac.in
6	664	Mr. Amit Kumar Bansal	amit.bansal@skit.ac.in
7	792	Mr. Madhukar Kumar	madhukar.raichand@skit.ac.in
8	750	Dr. Manu Augustine	manu.augustine@skit.ac.in
9	153	Mr. Dinesh Kumar Sharma	dinesh.sharma@skit.ac.in
10	779	Mr. Vikas Ranveer Singh Mahala	vikas.mahala@skit.ac.in
11	669	Dr Suman Sharma	SUMAN@SKIT.AC.IN
12	856	Mr. Neeraj Garg	neeraj.garg@skit.ac.in
13	61	Dr. Sarfaraz Nawaz	sarfaraz@skit.ac.in
14	141	Mr. Arun Beniwal	arun.beniwal@skit.ac.in
15	185	Ms. Manju Choudhary	manju.choudhary@skit.ac.in
16	781	Mr. Jetender Babulal Jangid	Jetenderb.jangid@skit.ac.in
17	602	Ms. Sumita	sumita.hemrom@skit.ac.in
18	787	Mr. Ankur Mishra	ankur.mishra@skit.ac.in
19	676	Mr. Ajay Kumar Dhanopia	ajay.dhanopia@skit.ac.in
20	85	Mr. Praveen Saraswat	praveen.saraswat@skit.ac.in
21	603	Mr. Sanjay Choudhary	Sanjay.choudhary@skit.ac.in
22	86	Ms. Monika Khurana	khurana.monika2009@gmail.co m
23	152	Mr. Sushil Surana	sushil@skit.ac.in
24	723	Mr. Brij Mohan Sharma	brijmohan.sharma@skit.ac.in
25	875	Dr. Deepak Kumar	deepak.kumar@skit.ac.in
26	885	Mr. Vikas Vyas	vikas.vyas@skit.ac.in
27	74	Dr. Ashish Nayyar	ashishnayyar@skit.ac.in
28	665	Dr. Chandan Kumar	chandan.kumar@skit.ac.in
29	75	Prof. Dheeraj Joshi	hodme@skit.ac.in
30	675	Ms. Namita Soni	namita.soni@skit.ac.in
31	800	Mr. Trivendra Sharma	trivendra.tara@gmail.com
32	904	Mr. Raj Kumar	goswamiraz@gmail.com

SKIT Students

S. No.	University Roll No.	Name of students	Branch	Semester	Email ID
1	20ESKRE603	Ms. Nitu Singh	RET	III	singhnikki200@gmail.com
2	18ESKME09 0	Mr. Prakhar Bhardwaj	ME	VIII	pbpraks28@gmail.com
3	20ESKME06 7	Mr. Pawan Bora	ME	IV	borapawan2602@gmail.com
4	20ESKME05 1	Mr. Kiran Kumar	ME	IV	kiranbugaliarj@gmail.com
5	20ESKME05 3	Mr. Lav Kumar	ME	IV	Klav6873@gmail.com
6	18ESKME70 3	Mr. Akshay Verma	ME	VIII	vermaakshay1221@gmail.com
7	19ESKME20 4	Mr. Jay Kumar Sharma	ME	VIII	jaysharma55200@gmail.com
8	18ESKME15 1	Mr. Yash Maheshwari	ME	VIII	yashm5747@gmail.com
9	18ESKME15 4	Mr. Yogit Kumar	ME	VIII	kumaryogit88@gmail.com
10	18ESKME14 6	Mr. Vishal Kumar Sonwal	ME	VIII	vishalsonwal1999@gmail.com
11	18ESKME11 4	Mr. Sarthak Agarwal	ME	VIII	sarthakagarwal3a@gmail.com
12	18ESKME11 1	Mr. Saksham Jain	ME	VIII	sakshamjain2107@gmail.com

Attendance record

S. No.	Full Name	Attendanc e
5. 110.	run wanie	Percentage
1	Amit Jhalani	100%
2	Naveen Kumar Sain	40%
3	SAURABH GUPTA	100%
4	CHANDRA MOHAN KUMAR	40%
5	Sandeep Kumar Bhaskar	40%
6	Amit Kumar Bansal	40%
7	Madhukar Kumar	40%
8	Manu Augustine	80%
9	Dinesh Kumar Sharma	100%
10	Nitu singh	100%
11	Deepak Kachhot	100%
12	Prashant Mathur	40%
13	Rishpal pooniya	40%
14	Lalit Kumar Sharma	60%
15	Bheru Das Vairagi	60%
16	Dr. Lalit S Thakur	100%
17	Md Sekendar	100%
18	ABHAY DINKER	100%
19	Abdul Razak kaladgi	100%
20	Vivek Pandey	100%
21	Hemant Raj Singh	40%
22	Rakesh Kumar	60%
23	S.K.Sharma	100%
24	Dr Koshal Kishor	100%
25	Saif Nawaz Ahmad	100%
26	Vikas Ranveer Singh Mahala	60%
27	Brajesh Kumar	100%
28	Deepak Singh Panwar	40%
29	RAJESH MANIKSA DHARASKAR	100%
30	Prashant Singh	100%
31	Surendra R Kalbande	40%
32	Vibhuti Amrutbhai Patel	80%
33	Punam Anil Bhavsar	60%
34	Narendra Patel	100%
35	Rahul Kumar J. Sen	100%
36	MUKESH GANCHI	40%
37	Deepti Mehta	100%
38	Narendra Sharma	80%

39	PAVANENDRA KUMAR	100%
40	Preeti	100%
41	Arvind Kumar Singh	100%
42	Varun Kumar	40%
43	RAVIKUMAR RAMANLAL RATHOD	100%
44	RAKESH MAHAWAR	100%
45	Onkar Mal Bunker	100%
46	Mohammad zuber khan	60%
47	Karan Hiralal Motwani	80%
48	Paul Arjun Sanjay	80%
49	Alok Singh	40%
50	Alok Kumar	100%
51	MANISH BHANDARI	100%
52	RAM MOHAN	100%
53	SHARAD SHRIVASTAVA	100%
54	Manisha Joshi	100%
55	Hukam chand	100%
56	Pramod kumar	60%
57	Deepshikha Rathore	100%
58	Mukesh Kumar	100%
59	shri bhagwan	100%
60	DR SUMAN SHARMA	80%
61	NEERAJ GARG	40%
62	Sarfaraz Nawaz	40%
63	Arun Beniwal	60%
64	Rahul Khatri	100%
65	Prashant Mishra	100%
66	MANJU CHOUDHARY	40%
67	DHEERAJ KUMAR DHAKED	100%
68	Rajeev Kumar	80%
69	Lalit Yadav	100%
70	Abdullahi Bello Umar	100%
71	JETENDER BABULAL JANGID	100%
72	Gagandeep	40%
73	D.K. Vani	80%
74	sumita	100%
75	Ankur Mishra	60%
76	Ajay Kumar Dhanopia	100%
77	Praveen Saraswat	40%
78	Ganesh S. Bajad	100%
79	DHEEMU LAVANYA KUMARI	40%
80	Ramesh Kumar sharma	60%

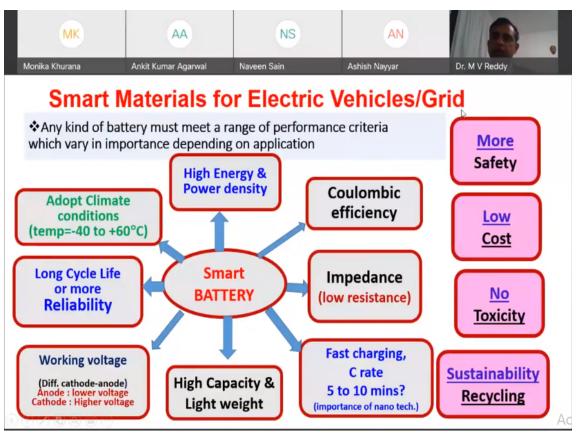
81	Amrendra Kumar Singh	80%
82	M.NagaSailaja	100%
83	ANKIT SHARMA	100%
84	GARIMA SHARMA	100%
85	Hemant Mittal	80%
86	Anand Poras	100%
87	Sanjay Choudhary	80%
88	Deepak gupta	40%
89	Pradeep Kumar	80%
90	Monika Khurana	100%
91	Sushil Surana	60%
92	Madhav sharma	40%
93	Dr Renu Bagoria	40%
94	Sushma Lohia	100%
95	VISHNU AGARWAL	100%
96	Rajnesh Kumar Yadav	80%
97	Pardeep Kumar	100%
98	Sasmita Bal	100%
99	Shashi Kumar Jain	100%
100	Brij Mohan Sharma	60%
101	Prakhar Bhardwaj	60%
102	Abhishek Joshi	100%
103	PAWAN BORA	100%
104	PRATEEK DEOMAN MALWE	80%
105	Deepak Kumar	40%
106	Mr.C.NATESAMURTHI	100%
107	VIKAS VYAS	100%
108	Lokesh Kumar	100%
109	JAHIER ABBAS SHAAIKH	100%
110	Sumit Sharma	60%
111	Pavan Kumar Meena	40%
112	MADHAVAN V M	100%
113	Kiran Kumar	100%
114	Pravat Kumar Swain	100%
115	Amitkumar Satyawan Gawas	60%
116	Chetan Jaiswal	60%
117	Shanavas A	40%
118	Sunilkumar Bandappa Harsur	80%
119	Surbhi Mishra	100%
120	Pranay tak	100%
121	Ramireddy Devarapalli	100%
122	Prashant Jethwani	40%

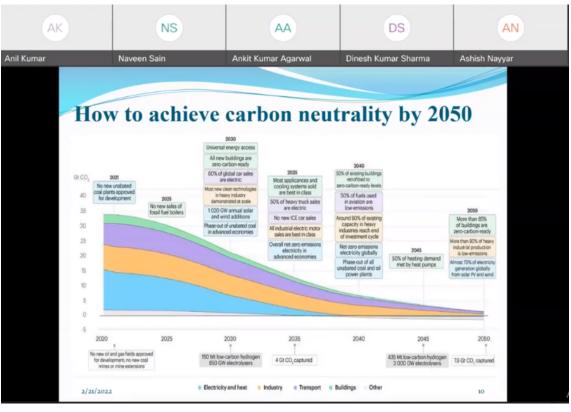
	T	
123	RAJ VARDHAN	100%
124	Puneet Mangla	100%
125	Pawan Kumar Yogi	100%
126	Pankaj Mohan Rastogi	100%
127	ANKIT ATAL	40%
128	Ashish Nayyar	60%
129	Dr. Chandan Kumar	100%
130	Prof. Dheeraj Joshi	40%
131	Rahul Khatri	100%
132	Dilip Shrimali	40%
133	Namita Soni	40%
134	Mugutrao Haribhau Tharkar	60%
135	Lav Kumar	80%
136	Rahul Gautam	100%
137	Dr Sanjay Soni	100%
138	Trivendra Sharma	80%
139	Gatika Kumari	100%
140	Amit Kumar Mandal	100%
141	Amit Ashokrao Deogirikar	40%
142	Veeresh Kumar Guggilla	100%
143	Mukesh Kumar Lohar	100%
144	Abhay vasantrao wavare	80%
145	Rakesh Suresh More	40%
146	YOKESWARAN.V	40%
147	Akshay Verma	40%
148	Hukum Saini	60%
149	Pradeep kumar sharma	40%
150	Ajay Kumar Dhanopia	40%
151	Jay Kumar Sharma	40%
152	YASH MAHESHWARI	40%
153	Yogit Kumar	40%
154	Vishal Kumar sonwal	40%
155	Mohammad zuber khan	60%
156	Sarthak Agarwal	40%
157	Saksham Jain	40%

Photographs of event

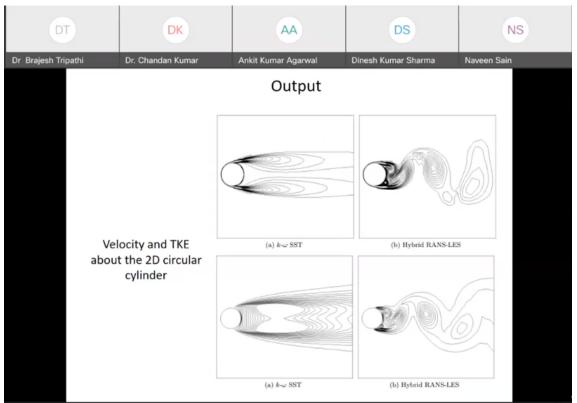




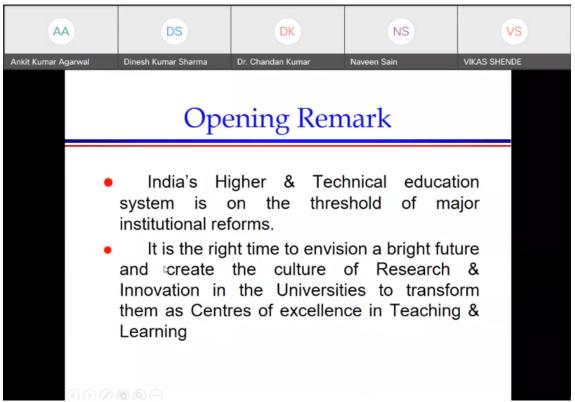










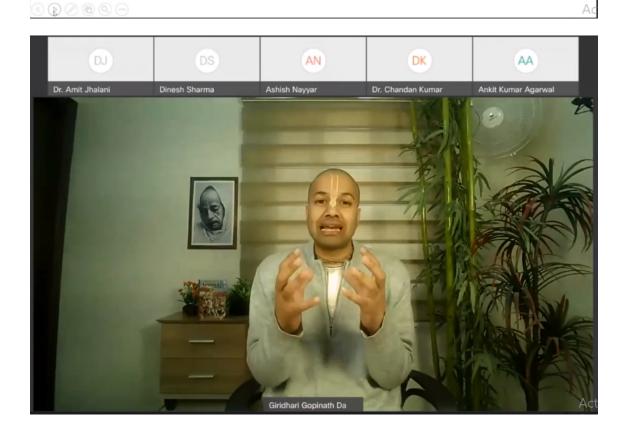


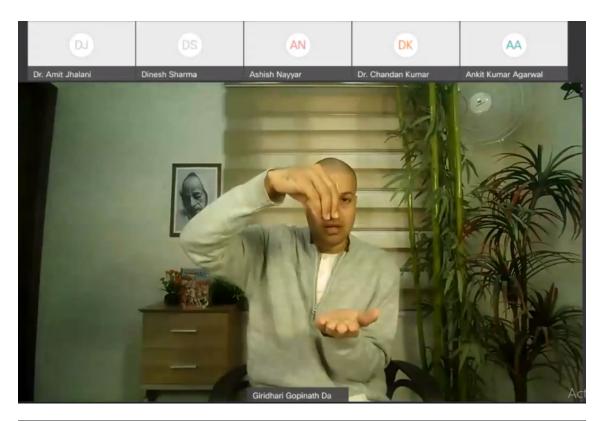


Methods for the use of H₂ in I.C. Engine

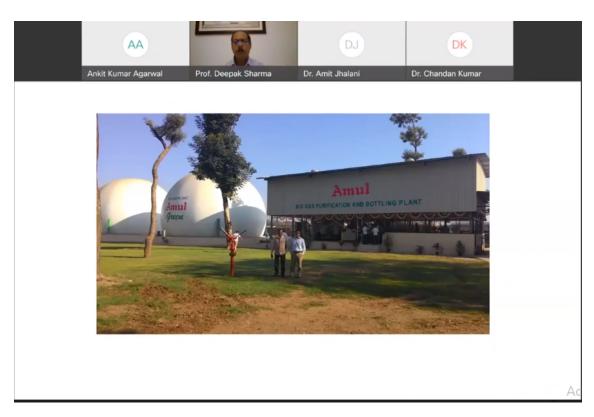


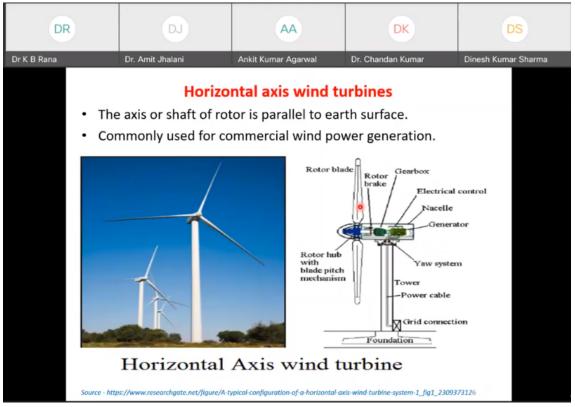
- 1. H₂ alone:-In S.I. engine.
- 2. H₂ + Gasoline. In S.I. engine.
- 3. H₂ + Diesel In C.I. engine.
- 4. H₂ + CNG In C.I. engine.

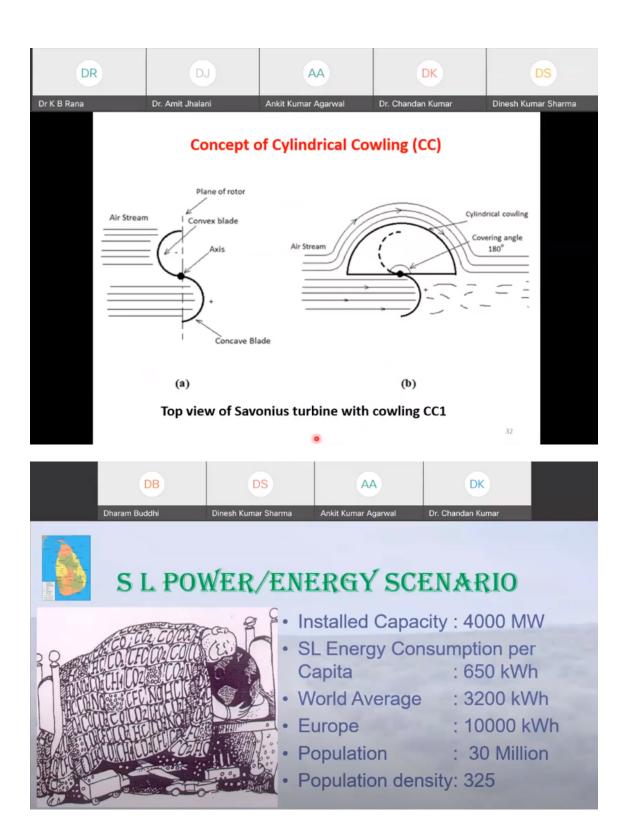














Applied Additional Uses for Thermal Energy Storage

- Reduced fluctuations of chilled water temperature: Chiller loading/ unloading is temperature based. Thermal storage allows drawing of more cooling when required and reduces temperature fluctuations. Important for areas requiring good humidity control.
- Short time excess peak meeting capacity: When loads exceed the design peak
 when conditions exceed average design value thermal storage allows excess
 supply to meet such conditions.

dbuddhi@gmail.com





The Great Energy Challenge: a moral dilemma

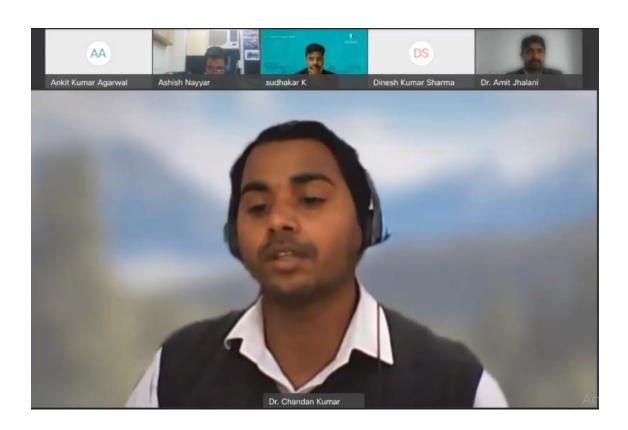


Three energy challenges of our generation:

- First, ending energy poverty. To ensure universal access to electricity and modern energy sources for cooking and heating.
- **Second**, we need to strengthen economic growth in a way that's equitable and satisfies growing energy demand.
- *Third*, we need to slow the warming of our planet by reducing global emissions.

In essence, we need to turn on the lights while turning down the global thermostat.

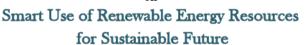




Copy of E-certificates



One-Week Faculty Development Programme on





Organised by

Department of Mechanical Engineering

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Certificate of Participation

This is to certify that *Dr. Amit Jhalani* of *Swami Keshvanand Institute of Technology, Management & Gramothan* has participated in the One-Week Faculty Development Programme on "Smart Use of Renewable Energy Resources for Sustainable Future" held from 21/02/2022 to 25/02/2022 at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur.

Prof. Dheeraj Joshi HOD, ME

Dr. Chandan Kumar Coordinator

Chandan Kymax

Dr. Ramesh Kumar Pachar Principal

Feedback report

A feedback of FDP was taken from the participants through a Google form. 270 responses were recorded. Overall the FDP is considered to be of value by the participants. Most of the participants appreciated the efforts put by the organizers and the experts.

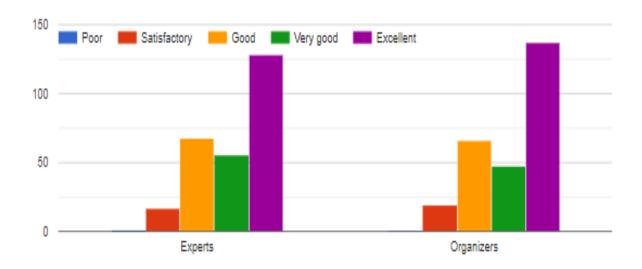


Figure 1. Level of Efforts

More than 80% of the participants considered the course to be of value addition. They have actively participated in the sessions.



Figure 2. Contribution of the course to your knowledge/learning

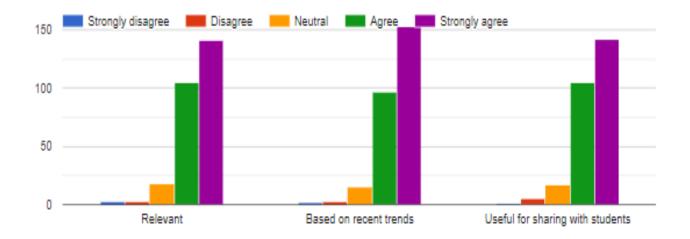


Figure 3. Course content Quality

In suggestions, many participants has suggested to provide the presentations used during the FDP for further study. More than 200 participants had 80% attendance or more. The session on Hydrogen fuel by Dr. Dilip Sharma from MNIT Jaipur and session on Sustainability by Dr. Sudhakaran from University of Malaysia, Pahang were the most liked sessions by the participants. They got their future research ideas from the different sessions.

The participants have shown their interest to join the such FDPs in future also.

Media Coverage

एसकेआईटी में रिन्यूएबल एनर्जी विषय पर पांच दिवसीय फैकल्टी डेवलपमेंट प्रोग्राम का शुभारम्भ

P3 Police Public Politics जयपुर ! स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी) रामनगरिया, जगतपुरा, जयपुर में सोमवार, 21, फरवरी 2022 को मैकेनिकल इंजीनियरिंग डिपार्टमेंट के द्वारा ऑनलाइन प्लेटफार्म पर पांच दिवसीय फैकल्टी डेवलपमेंट प्रोग्राम का शुभारम्भ हुआ। जिसका विषय 'स्मार्ट यूज ऑफ रिन्यूएबल एनर्जी रिसोर्सेज फॉर सस्टेनेबल प्यूचर था। इस कार्यक्रम के मुख्य अतिथि आई आर एच क्यू, कनाडा के सीनियर रिसर्चर, डॉ एम वी

रेड्डी थे। इस अवसर पर मैकेनिकल

विभागाध्यक्ष, प्रो. धीरज जोशी, ने सभी

आगंतुकों का ऑनलाइन प्लेटफार्म पर

स्वागत किया और कार्यक्रम के उदेश्य पर

प्रकाश डाला। एसके आईटी के डायरेक्टर

(अकादिमक) प्रो. एस एल सुराणा ने

एसके आईटी

इंजीनियरिंग,



ग्रीन रिन्यूएबल एनर्जी के विभिन्न स्रोत्र और उसके स्मार्ट यूज़ पर प्रकाश डाला। कार्यक्रम के मुख्य अतिथि डॉ एम वी रेड्डी ने सस्टनैबले यूज़ ऑफ़ एनर्जी के बारे में चर्चा की।

कार्यक्रम का समन्वय मैकेनिकल इंजीनियरिंग डिपार्टमेंट के असिस्टेंट प्रोफेसर डॉ चन्दन कुमार, दिनेश शर्मा और एसोसिएट प्रोफेसर ॲकित अग्रवाल, ने किया। इसके प्रथम सत्र में डॉ एम वी रेड्डी ने एडवांसेज इन हाई एनर्जी स्टोरेज मैटेरियल्स फाँर इलेक्ट्रिक व्हीकल्स पर विस्तृत चर्चा की। दूसरे सत्र में डॉ. अनिल कुमार, डीटीयु, दिल्ली ने सौर उप्मीय ऊर्जा का औद्योगिक क्षेत्र में उपयोग एवं सम्भावनाओ पर अपना विशेष व्याख्यान दिया। अंत में डॉ. आशीप नय्यर (प्रोफेसर, मैकेनिकल इंजीनियरिंग) ने धन्यवाद ज्ञापित किया। आगामी चार दिन तक इसमें देश-विदेश के विभिन्न संस्थानों के रिन्यूएबल एनर्जी विशेषज्ञ अपने-अपने विचार व्यक्त करेंगे।



जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान रामनगरिया, जगतपुरा, जयपुर में शुक्रवार को मैकेनिकल इंजीनियरिंग डिपार्टमेंट के हारा ऑनलाइन प्लेटफार्म पर आयोजित पांच दिवसीय फैकल्टी डेक्लपमेंट प्रोग्राम 'स्मार्ट यूज ऑफ रिन्यूएबल एनर्जी रिसोसेंज फॉर सस्टेनेबल पन्यूचर' का समापन हुआ। इस फैकल्टी डेक्लपमेंट प्रोग्राम में कुल दस सत्र हुए जिसमें देश- विदेश के विभिन्नप्रतिष्ठित संस्थानों के रिन्यूएबल एनर्जी विशेषज्ञों ने अपने-अपने विचार व्यक्त किये।एफडीपी के पांचले दिन प्रो. धरम बुद्धि, वाईस-चांसलर, उत्तरांचल युनिवर्सिटी, देहरादून ने थर्मल एनर्जी स्टोरेज और एफडीपी समापन समारोह के मुख्य अतिथि डॉ. के सुधाकरन, युनिवर्सिटी ऑफ मलेशिया, पहांग ने एनर्जी ट्राजीशन एंड सस्टेनेबिलिटी: दी न्यू एरा ऑफ मैनकाइंड पर व्याख्यान दिया।

एफडीपी समापन समारोह में एफडीपी कोऑडिंनेटर दिनेश शर्मा ने एफडीपी की रिपोर्ट प्रस्तुत की। अंत में एफडीपी कोऑडिंनेटर डॉ चन्द्रन कुमार ने धन्यवाद ज्ञापित किया। समापन समारोह में प्रो. थीरज जोशी (विभागाध्यक्ष, मैं के निक ल इंजीनियरिंग), प्रो. आशीप नव्यर, और ऑकत अग्रवाल उपस्थित थे।

Day Wise detailed report

Renewable energy and sustainable development are the key technologies to offer solutions to the ever-increasing environmental pollutions and depleting conventional fuel reserves. With an aim to discuss the state of art technologies pertaining to the renewable energy domain, a one-week faculty development programme on "Smart use of Renewable Energy Resources for Sustainable Future" was organized by Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur from February 21 to 25, 2022.

First day of the FDP started with the Inaugural session which was graced by the presence the Chief Guest Dr. M V Reddy, Senior Researcher, Institute of Research Hydro-Quebec, Canada, Prof. (Dr.) S.L. Surana, Director (Academmics), SKIT, Prof. Dheeraj Joshi, HoD, Department of Mechanical Engineering, SKIT and Prof. Ashish Nayyar (Professor, ME). Prof. Dheeraj Joshi welcomed the Chief Guest, dignitaries and all the participants. Prof. Joshi discussed the need of such FDPs as a very important development activity for upliftment of Faculty. He thanked the entire team of FDP for choosing such a relevant topic of general interest addressing the solutions to energy crisis currently being faced by the world. Prof. S. L. Surana discussed about the role of green and renewable energy for sustainable development. Dr. MV Reddy, Chief Guest addressed the gathering. Dr Reddy highlighted the sustainable use of energy. Prof. Ashish Nayyar proposed formal vote of thanks.

Dr MV Reddy addressed the gathering in the First session of Day 1. Dr. Reddy presented advances in high energy storage materials for electric vehicles. He discussed about the various aspects of battery operated electric vehicles. Dr. Anil Kumar, Delhi Technological University presented his expert talk during second session on Prospectus of Solar Energy Applications in Industry covering literally all aspects of solar energy whether it is solar thermal, solar PV, solar air heater, solar desalination, etc.

Second Day First Session started with the talk Dr Brajesh Tripathi, Rajasthan Technical University, Kota. Dr Tripathi shared his research experience on use of computational fluid dynamics for analysis of Wind Mill. In second session of the day, Principal Scientist MP council of Science and Technology Mr. Vikas Shende discussed various research schemes of department of science and technology, New Delhi and Rajasthan for the benefits of the researcher and faculty of engineering institutions.

Prof. Dilip Sharma, Professor (HAG), Malaviya National Institute of Technology, Jaipur interestingly shared use of Hydrogen as a fuel for IC engines during First session of Day 3. Prof. Sharma covered literally all aspects of using Hydrogen whether it is fuel cell, hydrogen production and storage, safety standards, NHEB, Hydrogen CNG mix, etc. In the second session of the day, Shriman Girdhari Das Ji Akshay Patra Foundation Jaipur enlighten us with the very informative talk on the science and spirituality. He discussed the Vaidic knowledge is the basis of the many of the scientific concepts and theories.

On First session Day 4, Prof. Deepak Sharma talked about the sustainability practices in our day-to-day life using renewable energy resources. Prof. Sharma very interestingly highlighted the use of solar chulha, solar water heater, solar PV and use many other renewable energy resources towards sustainable development. In Second session of the day, Dr Kunj Bihari Rana, Rajasthan Technical University, Kota presented his research experience on Performance of Wind Mill. He discussed the potential and benefits of Vertical Axis Wind Turbine.

Day 5 Session 1 witnessed the presence of Well-known Researcher in the field of Thermal energy storage Prof. Dharam Buddhi, Vice Chancellor, Uttranchal University, Dehradun. Prof. Budhi highlighted the importance of thermal energy storage looking at the ever increasing energy demands. He also discussed the various aspects of thermal energy storage design. During second session of the day, Dr K. Sudhakaran Universiti of Malaysia, Pahang addressed the gathering with his highly informative talk on the energy transition and sustainability: A new era of mankind. Dr. Sudhakaran very interesting discussed every aspect of using renewable energy resources in such as way where existing use of land is not compromised. Dr. Sudhakaran showed various practices followed worldwide for sustainability such as Floating solar panels, Hydrogen production and storage,

At the end, on behalf of whole organizing team, I would like to express my sincere gratitude to all of our experts for accepting our invitation and delivering the talks covering literally all aspects of smart use of renewable energy resources for sustainable future and made this event meaningful for our participants, I suppose. I would like to thank the participants for overwhelming response on our request to participate in this FDP in form of over 300 registrations from all corners of the country. From this plateform I would like to extend my sincere thanks for having more than 100 participants in all session live, I feel they have been benefitted with the knowledge sharing by our invited talks during various expert sessions of

this FDP. Thanks for being with us. This was a very joyful and satisfying experience on our efforts made. This gives us as a fuel for our future projects. You can forward us your suggestions in the feedback form also you can write to us for any improvements.

Objectives and Outcomes

After attending this FDP, an attendee will be able to:

Highlight the role of renewable energy resources for a sustainable future.

Analyze the design and performance of renewable energy systems.

Get acquainted with the recent advancements in the field of renewable energy.

Analyze the smart use of renewable energy resources for sustainable development.

Aware about initiatives taken by government bodies to support renewable energy sector.

Utilization report

Swami Keshvanand Institute of Technology, Management and Gramothan Department of Mechanical Engineering

Note

Date: 11.03.2022

Subject: Honorarium for Session Speakers in the one week FDP on Smart use of Renewable Energy Resources for Sustainable Future

A one-week faculty development programme on "Smart use of Renewable Energy Resources for Sustainable Future" was organized by Department of Mechanical Engineering, from February 21 to 25, 2022.

You are requested to kindly pay the honorarium as mentioned below.

S. No.	Name of Speaker	Bank Details	Session Date & Time	Amount
1	Venkatashamy Reddy M	Account no 068310101665 IFSC - CNRB0000683 Bank & Branch - Canara Bank, IISC Campus, Banglore PAN No.: AUUPV9583D	Date: 21.02.2022 Time: 09.30 AM	3000/-
2	Dr. Anil Kumar	Account no 10625461594 IFSC - SBIN0010446 Bank & Branch - SBI, MANIT, Bhopal PAN No.: AQEPK5810A	Date: 21.02.2022 Time: 11.30 AM	3000/-
3	Brajesh Tripathi	Account no 6660000400000758 IFSC – PUNB0666000 Bank & Branch -PNB, Gautam Buddha Univ., Greater Noida PAN No.: AHLPT2891A	Date: 22,02.2022 Time: 09.30 AM	3000/-
4	Vikas Shende	Account no 20031400550 IFSC - SBIN0010468 Bank & Branch -SBI, Nehru Nagar, Bhopal PAN No.: CFRPS6626A	Date: 22.02.2022 Time: 11.30 AM	3000/-
5	Dilip Sharma	Account no 676801116690 IFSC – ICIC0006768 Bank & Branch -ICICI Bank, M R E C, Jaipur PAN No.: AJSPS2017G	Date: 23.02.2022 Time: 09.30 AM	3000/-
6	Deepak Sharma	Account no 694201018571 IFSC – ICIC0006942 Bank & Branch -ICICI Bank, University Campus, Udaipur PAN No.: ADSPS9099J	Date: 24.02.2022 Time: 11.30 AM	3000/-
7	Kunj Bihari Rana	Account no 6009000400000276 IFSC – PUNB0600900 Bank & Branch -PNB, RTU Campus, Kota PAN No.: BOSPR5009H	Date: 24.02.2022 Time: 09.30 AM	3000/-
8	Dharam Buddhi	Account no 14500100012890 IFSC – FDRL0001450 Bank & Branch -Federal Bank, Dehradun PAN No.: AMHPB8766D	Date: 25.02.2022 Time: 11.30 AM	3000/-
9	K. Sudhakar	Account no 30530963500 IFSC - SBIN0001608 Bank & Branch -SBI, MANIT, Bhopal PAN No.: BURPS2114R	Date: 25.02.2022 Time: 09.30 AM	3000/-
			Total	27,000/-

Dr. Chandan Kumar Event Coordinator Approved Red 1022

Juraj 98/n. HOD. ME 1-3-2022 Prof. Dheway Josh

Director/Registrar