

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

Title of Event: RTU (ATU) TEQIP III Sponsored Faculty Development Program
“Solar Thermal Engineering for Sustainable Future” dated Aug. 24 to 28, 2020

OUTCOMES OF THE FDP

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

- Identify need of the Solar Thermal Applications for a sustainable future.
- Analyze the design and performance of Solar Thermal Applications.
- Know about recent advancements in Solar Thermal Engineering.
- Examine the Solar Thermal Applications on energy, environment and economic basis.
- Identify the need of Thermal Energy Storage for better management of Solar Energy.
- Know about initiatives taken by Government bodies to support Solar Thermal Applications.

TECHNICAL REPORT

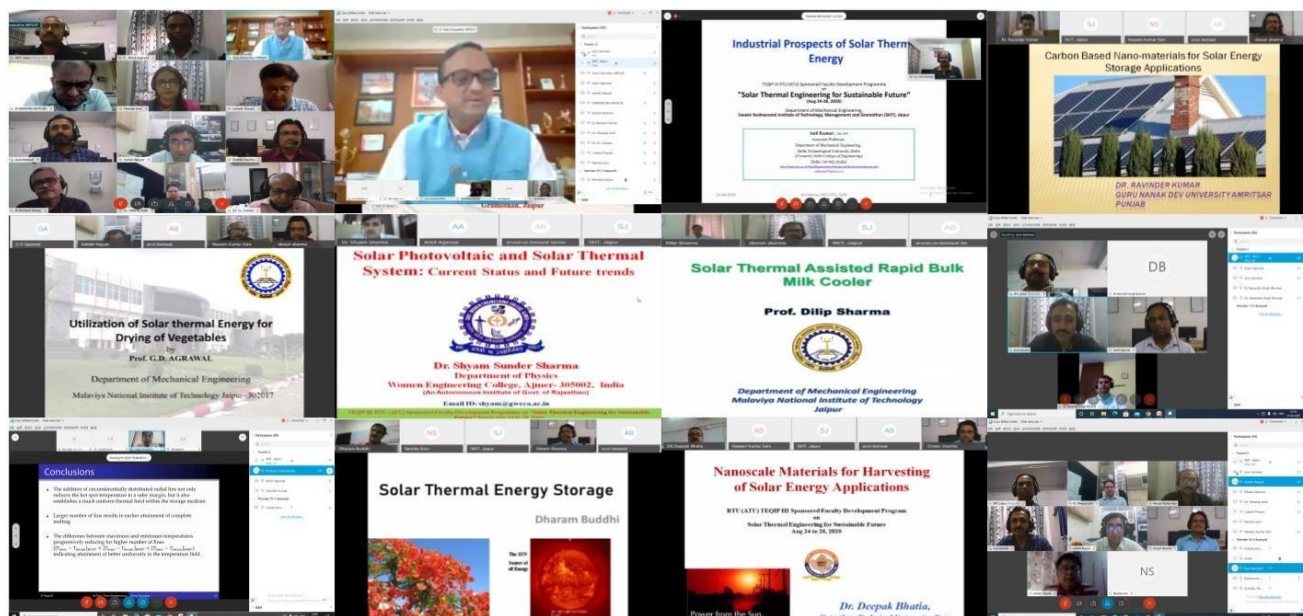
With an aim to discuss the state of the art research in the solar thermal engineering field, one week *RTU (ATU) TEQIP III Sponsored* Faculty Development Program on **Solar Thermal Engineering for a Sustainable Future** during Aug 24-28, 2020 was hosted by the Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur. Dr. Lokesh Tharani was the event coordinator for this FDP along with Mr. Ankit Agarwal (Associate Professor, SKIT) and Mr. Dinesh Kumar Sharma (Assistant Professor, SKIT) as coordinators from the host institute. Mr. Praveen Saraswat, Mr. Naveen Kumar Sain, Mr. Chandan Kumar, Ms. Namita Soni, Mr. Brij Mohan Sharma, Mr. Arun Beniwal, and Mr. Sanjay Choudhary were members of the organizing committee.

The 1st day of the FDP started with the inaugural session. Prof. S. L. Surana (Director, Academics, SKIT) welcomed all the participants and experts in this one-week FDP. He highlighted the need for solar thermal engineering to propose a sustainable solution. He made a special focus on the need for proper thermal energy storage for the efficient utilization of solar thermal applications. Dr. Lokesh Tharani (Event Coordinator) discussed the need for the program and talked about the collaborative efforts for the arrangement of the experts and the proper organization of this event. He also talked about the possibilities and scope of power generation through solar thermal engineering. Dr. Tharani highlighted the subsidies and other government initiatives taken to promote solar thermal applications. Mr. Ankit Agarwal presented the introduction to the FDP and the experts managed along with the topic of the talks. Dr. Dharendra Mathur (TEQIP Coordinator, RTU) welcomed Chief Guest and session expert Prof. N. S. Rathore (VC, MPUAT, Udaipur). Prof. N.S. Rathore delivered his expert talk on the solar thermal collectors. He talked about various methods to improve performance and to reduce the cost of solar thermal collectors. Dr. Dheeraj Joshi (Head, ME Department, SKIT) proposed a formal vote of thanks. In the second session of the FDP, Prof. Anil Kumar, Delhi Technological University presented his expert talk on the Solar Dryer and Solar Air Heater. He emphasized that domestic and industrial both types of heat

requirements can be comfortably met by the available solar thermal technologies. He further added that many industries such as Dairy, Timber, Drying, Food Processing Industries, etc. have initiated the technology merge of solar thermal in their existing setup to improve the share of renewable energy.

Day 2 started with the talk of Dr. Ravinder Kumar, Guru Nanak Dev Technical University, Amritsar, Punjab. He presented his research on the carbon-based nanomaterials to improve the productivity and performance of Solar PV cells. Dr. Kumar shared his research experience over CNTs used in the preparations of efficient solar PV cells in collaboration with IIT Bombay. Session II of Day 2, Prof. G. D. Agarwal, MNIT, Jaipur shared his research experience of solar drying of vegetables using a solar air heater. He discussed his recently developed solar air heater with controlled parameters in laboratory conditions. He further added that real-time condition testing and mass production of these solar air heaters would be helpful to propose it as per industrial standards.

Dr. Shyam Sunder Sharma, Government Engineering College for Women, Ajmer presented his expert talk on the comparative study of solar thermal and solar PV during the First session of Day 3. He presented his research experiences on Solar PV Cells. Session II of Day 2, Prof. Dilip Sharma, MNIT, Jaipur presented an actual working real-size setup for Solar Assisted Bulk Milk Cooler. Prof. Sharma shared the research experience of his DST sponsored project and he detailed the selection and design of various components for this project. He further added various issues faced from the concept to the realization of this project. Prof. Sharma emphasized the development of such projects for the upliftment of the grass-root population of the Indian village.



Day 4 started with a talk by Dr. Narendra Singh Beniwal of BIET Jhansi. He presented his research on solar PVT collectors. He discussed that the solar PVT module is the integration of solar thermal arrangement within a solar PV module. He presented his research on the solar PVT detailing the various arrangements and configurations. In session II of Day 4, Prof. P R Chakraborty, IIT Jodhpur discussed his research experience of thermal energy storage integration in the solar thermal collectors to perform the effective solar cooking operation to make Chapatis and Phulkas. He further added that with the proper selection and design of a latent thermal energy storage

system, the desired cooking using solar can be conveniently performed.

Day 5 Session I, Prof. Dharam Buddhi, Senior Executive Dean, Lovely Professional University, Punjab delivered his research experience on thermal energy storage for solar thermal engineering. He has described the shifting of paradigm from sensible thermal energy storage to the latent thermal energy storage. He further detailed the significance of thermal energy storage for the effective utilization of Solar thermal energy applications. In Session II of Day 5, Dr. Deepak Bhatia, RTU, Kota delivered his talk on

the nanoscale materials for harvesting solar energy. He discussed the use of nanomaterials to improve the efficiency of solar applications.

The valedictory session was organized on Day 5. Dr. Lokesh Tharani, Dr. Dheeraj Joshi, Dr. Ashish Nayyar, and Dr. Deepak Bhatia graced the valedictory with their presence. Mr. Dinesh Kumar Sharma presented the Technical Report of the FDP. Dr. Lokesh Tharani acknowledged efforts by the coordinators and organizing team to make this FDP very successful. He thanked all the participants for their overwhelming response and active participation. Dr. Dheeraj Joshi congratulated the entire team of this FDP for flawless coordination. Dr. Ashish Nayyar presented a formal vote of thanks in this valedictory session. He extended sincere thanks to RTU (ATU) TEQIP III to sponsor this FDP. Nearly 300 participants registered this online FDP from various IITs, NITs, and various reputed institutions.

पांच दिवसीय फैकल्टी डवलपमेंट प्रोग्राम का शुभारम्भ
Rajasthan Patrika
 By: Rakhi Hajela | Updated: 25 Aug 2020, 05:55 PM IST



मैकेनिकल इंजीनियरिंग पर पांच दिवसीय फैकल्टी डवलपमेंट प्रोग्राम
 जयपुर, समाचार जगत न्यूज। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी) रामनगरिया, जगतपुरा में सोमवार को मैकेनिकल इंजीनियरिंग डिपार्टमेंट के द्वारा ऑनलाइन प्लेटफॉर्म पर टीईक्यूआईपी स्पॉसरेड पांच दिवसीय फैकल्टी डवलपमेंट प्रोग्राम का शुभारम्भ हुआ। जिसका विषय 'सोलर थर्मल इंजीनियरिंग फॉर सस्टेनेबल फ्यूचर' था। **Samachar Jagat**
 इस कार्यक्रम के मुख्य अतिथि एमपियुएटी, उदयपुर के वाइस चांसलर डॉ. एन.एस राठौर थे। इस कार्यक्रम के विशिष्ट अतिथि आरटीयू टीईक्यूआईपी को-ऑर्डिनेटर प्रो. धीरन्द्र माथुर, थे।

News Coverage



सौर ऊर्जा के विभिन्न आयामों पर हुई चर्चा
 सोलर थर्मल इंजीनियरिंग फॉर सस्टेनेबल फ्यूचर पर फैकल्टी डवलपमेंट प्रोग्राम शुरू

कार्यालय संवाददाता जयपुर। भारत सरकार द्वारा सौर ऊर्जा के विकास के लिए विभिन्न योजनाएं चलाई जा रही हैं, अनेक वारे सौर में सौर ऊर्जा को सक्षम बना लेना सोचा गया है। इसी के तहत सौर ऊर्जा को सक्षम बनाने के लिए सस्टेनेबल फ्यूचर पर फैकल्टी डवलपमेंट प्रोग्राम के तहत सौर ऊर्जा के विभिन्न आयामों पर चर्चा की गई। इस कार्यक्रम का संचालन सोलर थर्मल इंजीनियरिंग डिपार्टमेंट के अध्यक्ष प्रो. धीरन्द्र माथुर, ने किया। इस कार्यक्रम के अतिथि आरटीयू टीईक्यूआईपी को-ऑर्डिनेटर प्रो. धीरन्द्र माथुर, थे। इस अवसर पर एसकेआईटी के डायरेक्टर अकादमिक प्रो. एसएल सुराणा ने सभी आयामों का ऑनलाइन प्लेटफॉर्म पर स्वागत किया और सौर उष्मीय ऊर्जा एवं उसके स्टोरेज के विभिन्न माध्यमों के विकास के लिए चर्चाएं की गईं।

एसकेआईटी में फैकल्टी डवलपमेंट प्रोग्राम का शुभारम्भ
Daily News
 डेली न्यूज, IAS रिपोर्टर



महानगर संवाददाता
 जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में मैकेनिकल इंजीनियरिंग डिपार्टमेंट द्वारा ऑनलाइन प्लेटफॉर्म पर टीईक्यूआईपी स्पॉसरेड पांच दिवसीय फैकल्टी डवलपमेंट प्रोग्राम का शुभारम्भ हुआ। सोलर थर्मल इंजीनियरिंग फॉर सस्टेनेबल फ्यूचर विषय पर आयोजित कार्यक्रम के मुख्य अतिथि एमपियुएटी उदयपुर के वाइस चांसलर डॉ. एनएस राठौर थे। विशिष्ट अतिथि आरटीयू टीईक्यूआईपी को-ऑर्डिनेटर प्रो. धीरन्द्र माथुर थे। इस अवसर पर एसकेआईटी के डायरेक्टर अकादमिक प्रो. एसएल सुराणा ने आयामों का ऑनलाइन प्लेटफॉर्म पर स्वागत किया और सौर उष्मीय ऊर्जा एवं उसके स्टोरेज के विभिन्न माध्यमों पर चर्चा की।

CHIEF PATRON
Prof. R. A. Gupta
Honorable Vice-Chancellor, RTU

PATRON
Shri Raja Ram Meel, Patron, SKIT
Shri Surja Ram Meel, Chairman, SKIT

ADVISORS
Shri Jaipal Meel, Director, SKIT
Dr. S. L. Surana, Director (Academics), SKIT
Mrs. Rachna Meel, Registrar, SKIT
Dr. Ramesh Kumar Pachar, Principal, SKIT
Dr. Dheeraj Joshi, HOD (ME), SKIT
Dr. Ashish Nayyar, Professor (ME), SKIT

RTU (ATU) TEQIP-III COORDINATOR
Dr. Dharendra Mathur

RTU EVENT COORDINATOR
Dr. Lokesh Tharani, Associate Professor

HOST INSTITUTE COORDINATOR
Mr. Ankit Agarwal, Associate Professor
Mr. Dinesh K. Sharma, Assistant Professor

RTU (ATU) TEQIP-III COMMITTEE
Dr. Harish Sharma (Nodal officer Academic)
Prof. D.K. Sambariya (Nodal Officer Procur)
Dr. S. D. Purohit (Nodal Officer Finance)
Dr. Irum Alvi (Conference)
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Mr. Anshul Bansal (GATE & Induction)
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ORGANIZING COMMITTEE
Mr. Praveen Saraswat Mr. Chandan Kumar
Mr. Brij M. Sharma Mr. Arun Beniwal
Mr. Naveen K. Sain Ms. Namita Soni
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REGISTRATION FORM

To join this workshop, you are requested to register your name by clicking the following registration link / QR code:
<https://forms.gle/XocERj39R6WpXxCj7>



Note:

- ✓ The workshop will be conducted through online platform.
- ✓ The registration for the workshop is on first cum first serve basis.
- ✓ During registration, please join the WhatsApp group to receive workshop related information.
- ✓ E-Certificate will be provided to the participants who will attend 80% of the session and submit assignments including feedback of FDP.

CONTACT US

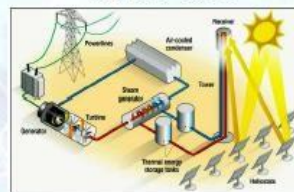
Mr. Ankit Agarwal
Associate Professor, Department of ME,
Mobile: 9887222265
Email: fdpste@skit.ac.in

Mr. Dinesh Kumar Sharma
Assistant Professor, Department of ME,
Mobile: 9785449998
Email: dinesh.sharma@skit.ac.in



Faculty Development Program
on

**“Solar Thermal Engineering
for Sustainable Future”**
August 24 – 28, 2020



Organized by
Rajasthan Technical University, Kota
&
Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur



Host Institute

Department of Mechanical Engineering
Swami Keshvanand Institute of Technology,
Management & Gramothan, Ramnagar,
Jagatpura, Jaipur – 302017
Web: www.skit.ac.in

ABOUT TEQIP-III

The project, third phase of Technical Education Quality Improvement Program (referred to as TEQIP-III) is fully integrated with the twelfth five-year plan objectives for Technical Education as a key component for improving the quality of engineering education in existing institutions with a special consideration for low income states and special category state and support to strengthen few affiliated technical universities to improve their policy, academic and management practices.

Rajasthan Technical University, KOTA

Rajasthan Technical University (RTU) is located at Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan. The university currently affiliated about 129 engineering colleges, 04 B. Arch, 41 MCA Colleges, 95 MBA Colleges, 44 M. Tech. Colleges and 03 Hotel Management and Catering Institute. The University aims to provide quality technical education which may help Rajasthan in its technical development and will boost technical environment in the country.

ABOUT SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been ranked no.1 engineering institute in Rajasthan by RTU, Kota consecutively for the last three years. SKIT is a selective comprehensive institution offering undergraduate and postgraduate programmes in Engineering and Management. 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, state of the art infrastructures and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

Department of Mechanical Engineering

The department started academic activities in the year 2003-04 with the admission of its first batch of undergraduates. The Department offers B.Tech. in Mechanical Engineering and M.Tech. in Production Engineering and Renewable Energy Technology courses. 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 been accredited by National Board of Accreditation (NBA) (India).

OUTCOMES OF THE FDP

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

- Identify need of the Solar Thermal Applications for a sustainable future.
- Analyze the design and performance of Solar Thermal Applications.
- Know about recent advancements in Solar Thermal Engineering
- Examine the Solar Thermal Applications on energy, environment and economic basis.
- Identify the need of Thermal Energy Storage for better management of Solar Energy.
- Know about initiatives taken by Government bodies to support Solar Thermal Applications.

CONTENTS OF THE FDP

- Solar Thermal Collectors
- Solar Cooking
- Solar Air Heater and Dryer
- Solar Domestic and Industrial Water Heating
- Concentrating Solar Power Plant
- Solar Thermal Refrigeration and Air Conditioning
- Thermal Energy Storage
- Economics of Solar Based Projects
- Solar Thermal Modelling and Simulation
- Solar Thermal Energy Management
- Sustainability and Solar Thermal Energy
- Government Initiatives to Promote Solar Thermal

WORKSHOP SCHEDULE

Day 1 to Day 5 (Aug. 24 to Aug. 28, 2020)	12.15 PM - 01.45 PM	Session I
	02:00 PM - 03:30 PM	Session II

Note: - Detailed workshop schedule is available in separate sheet.

RESOURCE PERSON

The various sessions of this FDP will be taken by renowned experts from IITs, NITs and various reputed institutions.

REGISTRATION FEE

There is no registration fee.

TARGETED AUDIENCE

This FDP will be very helpful for research scholars, faculty members and research scientists who are working in the area of solar thermal energy, its applications and storage. The targeted audiences are faculty of various engineering institutes affiliated to RTU/BTU and other academic institutes.

RTU (ATU) TEQIP III Sponsored
Faculty Development Program
"Solar Thermal Engineering"
Department of Mechanical Engineering, SKIT, Jaipur.
Participation List

S.N.	Full Name (AS to be printed on Certificate)	Email Address	State
1	Ankit Kumar Agarwal	akagarwal87@gmail.com	Rajasthan
2	Praveen Suraswat	praveenmeskit@gmail.com	Rajasthan
3	Chandan Kumar	chandan.kumar@skit.ac.in	Rajasthan
4	Chandan Kumar	chandan.kumar@skit.ac.in	Rajasthan
5	SANJAY CHOUDHARY	sanjay.sahu.mech@gmail.com	Rajasthan
6	Nitin Goyal	nitingoyal089@gmail.com	Rajasthan
7	PRAMOD JAIN	pramod.jain@skit.ac.in	Rajasthan
8	Sunil Kumar	sunilcrazy1@gmail.com	Rajasthan
9	MANOJ KUMAR	mksainisingh@gmail.com	Rajasthan
10	SHIVAM SAXENA	ssaxena3901@gmail.com	RAJASTHAN
11	Amit Kumar Bansal	amit.bansal@skit.ac.in	Rajasthan
12	JETENDER BABULAL JANGID	jitendrab.jangid@skit.ac.in	Rajasthan
13	Sumit Sharma	sumitait1111@gmail.com	Rajasthan
14	M.Pandarinath	pandarinath_auto@mvarec.edu.in	Telangana
15	SHRAWAN RAM	shrawanram.patel@jietjodhpur.ac.in	Rajasthan
16	NITIN SHARMA	Nitin.sharma@jnit.org	Rajasthan
17	SOURABH JAIN	sourabh.jain@anandice.ac.in	Rajasthan
18	Tarun Badiwal	Badiwaltarun17@gmail.com	Rajasthan
19	Avinash Nath Tiwari	avinash.nath@jagannathuniversity.org	Rajasthan
20	Rakesh Kumar	rakesh.kumar@jagannathuniversity.org	Rajasthan
21	MOHD SHARIF	sarif.mohd@marudhar.ac.in	Rajasthan
22	Prof.(Dr.)Trapti Sharma	dr.traptisharma@gmail.com	Rajasthan
23	Mukesh Didwania	mukeshdidwania4u@gmail.com	Rajasthan
24	SAURABH GUPTA	saurabh.gupta@skit.ac.in	Rajasthan
25	Varun Kumar	varunkrjbad@gmail.com	Rajasthan
26	Arun Beniwal	arun.beniwal@skit.ac.in	Rajasthan
27	Saumya Yadav	saumya.yadav116@gmail.com	Uttar Pradesh
28	Love Kishore Sharma	Sharma.ajmer21@gmail.com	Rajasthan
29	PRITAM KUMAR	pritamkumar9080@gmail.com	Rajasthan
30	RUPAM PAL	rupampal48@gmail.com	Karnataka
31	Balamurugan P	balamuruganp.civil@mkce.ac.in	Tamilnadu
32	DHEEMU LAVANYA KUMARI	dheemu.lavanya@gmail.com	Telangana
33	KARAN BHALLA	kbhalla88@gmail.com	Punjab
34	Amit Jhalani	jhalaniamit@gmail.com	Rajasthan
35	MOHAMMED KAZIM ALI	Mdkazimali1@gmail.com	TELANGANA
36	Deshpande Rasagna	rasagnadeshhpande@gmail.com	Telangana
37	Vignesh Manivannan	Vigneshmanivannan01@gmail.com	Tamilnadu
38	Bokka Durga Vara Prasad	bdv.prasad9@gmail.com	Andhra Pradesh
39	RANJIT ARJUN KATKAR	katkarr76@gmail.com	MAHARASHTRA
40	Naman choudhary	namanchoudhary33@gmail.com	Rajasthan
41	LIPAN KUMAR SAHOO	lipankumarsahoo1997@gmail.com	Odisha

S.N.	Full Name (As to be printed on Certificate)	Email Address	State
42	Sruthi Madhuri Majeti	sruthi12madhuri@gmail.com	Andhra Pradesh
43	Lalit Kumar Sharma	erlksjecrc@gmail.com	Rajasthan
44	Pradeep Kumar Meena	paru.meena@gmail.com	Delhi
45	MOTI LAL RINAWA	rinawa_iitd75@gmail.com	Rajasthan
46	Vivek Pandey	vivekpandey.22@gmail.com	Rajasthan
47	Pinky Mourya	pink.mits1986@gmail.com	Rajasthan
48	Deepshikha Rathore	Deep.Nano@gmail.com	Rajasthan
49	Ankit Khandelwal	ankitkhandelwal44@gmail.com	Rajasthan
50	Prashant Mathur	mathur.prashant02@gmail.com	Rajasthan
51	Basant Kumar	basantkumar1369@gmail.com	Bihar
52	Puja Kumari Shreewastav	pujashreewastav20@gmail.com	Bihar
53	Dr.Pawan Bhambu	p_bhambu@yahoo.co.in	RAJASTHAN
54	Tarun Kumar Chheepa	tarun.chheepa@skit.ac.in	Rajasthan
55	Kuldeep Singhal	Er.kuldeepsinghal@gmail.com	Rajasthan
56	SUDHIR BHARDWAJ	sudhir.hep@gmail.com	RAJASTHAN
57	MADHUKAR KUMAR	madhukar.raichand@skit.ac.in	Rajasthan
58	MUKESH KUMAR	sirfdhayal@gmail.com	Rajasthan
59	Aditya Narayan Sharma	adityr2k@gmail.com	Rajasthan
60	Dr Sujeet Jain	jainsujeet78@gmail.com	Rajasthan
61	LOKENDRA CHOUDHARY	lokendra.lamba1212@gmail.com	Rajasthan
62	Dinesh Kumar Sharma	Dinesh.sharma@skit.ac.in	Rajasthan
63	VIRENDRA SHARMA	vsharmakiran@gmail.com	Rajasthan
64	SHAIENDRA BOHRA	sbohra131071@gmail.com	RAJASTHAN
65	Ambarish Datta	ambarishdatta.iitst@gmail.com	West Bengal
66	Rajesh Singh Shekhawat	rssraaz@gmail.com	RAJASTHAN
67	Priyanka Gupta	priyanka.eca@gmail.com	Rajasthan
68	Vaibhav sharma	sharmavaibhav.222@gmail.com	Rajasthan
69	GAJULA SRI VENKATA RAMA ABHISHEK	abhishhek.gajula@gmail.com	Andhra Pradesh
70	Abdullahi Bello Umar	abdulbello2005@gmail.com	Rajasthan
71	Subhajit Santra	subhajitsantra.elec@gmail.com	West Bengal
72	DEBABRATA PATRA	debujeec1988@gmail.com	WEST BENGAL
73	Anindya Sarkar	anindya.keec@gmail.co.	West Bengal
74	Raju Ramaiah	raju_esp@yahoo.com	Karnataka
75	Nitesh Kumar Dixit	nitesh20.dixit@gmail.com	RAJASTHAN
76	Sukanta Singh	sukantasingsh2008@gmail.com	West Bengal
77	SANJAY SINGH	Sanjay274352singh@gmail.com	RAJASTHAN
78	Pranay Tak	tak.pranay@gmail.com	Rajasthan
79	Smita Pareek	smita.pareek@bkbiet.ac.in	Rajasthan
80	VIJAY KUMAR JANGID	vijayjangid1982@gmail.com	RAJASTHAN
81	Chandra Mohan Kumar	Chandra.mohan@skit.ac.in	Rajasthan
82	Mit Patel	mitpatel.me@gmail.com	Gujarat
83	Akshet Bishnoi	akshet29@gmail.com	Rajasthan
84	Akriti soni	akritisoni04@gmail.com	Rajasthan
85	Mahesh R Chavda	maheshchavda1990@gmail.com	Gujarat
86	VINOD SINGH YADAV	vsyadav@nituk.ac.in	Uttarakhand
87	JUGAL PANKAJKUMAR SHAH	Jugalshah@djmit.ac.in	GUJARAT

S.N.	Full Name (As to be printed on Certificate)	Email Address	State
88	Tejas N Raval	Tejas.raval@nirmatni.ac.in	Gujarat
89	ANKUR SHARMA	sankur605@gmail.com	Rajasthan
90	Akash Singhal	aakash.singhal182@gmail.com	Rajasthan
91	AVDHOT JEJURKAR	avdhootjejurkar11@gmail.com	Gujarat
92	POOJA CHOUDHARY	poojachoudhary87@gmail.com	Rajasthan
93	Kamal Kumar Jain	ikamalkum@gmail.com	Rajasthan
94	Anita Sharma	anitasharma1998rbt@gmail.com	RAJASTHAN
95	Sunil Bachani	sunil.bachani@gmail.com	Gujarat
96	Akshay Kumar singhal	Akshaysinghal2013@gmail.com	Rajasthan
97	Nikhil Jain	nikhiljain.ec@aryacollege.in	Rajasthan
98	SHUBHAM SAHU	sahu20shubham@gmail.com	Rajasthan
99	APOORVE MISHRA	apoorve861998@gmail.com	Rajasthan
100	RATHOD RAVIKUMAR RAMANLAL	ravirathod@gcet.ac.in	GUJARAT
101	Priyanka Gupta	priyanka.eca@gmail.com	Rajasthan
102	Darshan Gajdhar	darshangajdhar@yahoo.com	Gujarat
103	Ankit mishra	ankit.mishrakamta@gmail.com	Bihar
104	Monu Gupta	monugupta1492@gmail.com	RAJASTHAN
105	S.Kanimozhi	kanipinkykani@gmail.com	Tamil Nadu
106	RISHPAL POONIYA	rishpalpooniya@gmail.com	RAJASTHAN
107	Karan Motwani	karan.motwani@marwadieducation.edu.in	Gujarat
108	MEENAKSHI REDDY R	rmreddy123@gmail.com	Andhra Pradesh
109	Abdul Razak kaladgi	arkmech9@gmail.com	Karnataka
110	G Venkatesh	venkatesh.mech5118@gmail.com	Andhra Pradesh
111	K. SUJATHA	drksujatha23@gmail.com	Tamil Nadu
112	GANESH KAILAS BADGUJAR	ganesh.badgujar@raisoni.net	Maharashtra
113	Neelabh Gupta	neelabhgupta05@gmail.com	Rajasthan
114	Sunil Bachani	sunil.bachani@gmail.com	Gujarat
115	Devanshu Mathur	mathurshivam108@gmail.com	Rajasthan
116	SHUBHAM KAR	shubhkar5@gmail.com	Rajasthan
117	Tejas Bhavsar	bhavsartejas4535@gmail.com	Gujarat
118	Sunil Sharma	ersharma.sun@gmail.com	Rajasthan
119	Vivek Kumar Jain	vivek.jain129@gmail.com	Rajasthan
120	Archana Jain	archanajain.rbt@gmail.com	Rajasthan
121	Deepak Yadav	yadav8094deepak@gmail.com	Rajasthan
122	JITENDRA K SEN	jitendrakumarsen@tvmpower.com	Rajasthan
123	Dr. Yogesh Uttamrao Sathe	workshop@geca.ac.in	Maharashtra
124	SHIV PRAKASH TELI	shivam.darsan@yahoo.com	RAJASTHAN
125	MOTI LAL RINAWA	Government Engineering College JHALAWAR	Rajasthan
126	Venkatesh T Lamani	venkatesht.mech@bmsce.ac.in	Karnataka
127	Archana Singhal	archanasinghal346@gmail.com	Rajasthan
128	SUJIT BANERJEE	sujitbanerjee20@hotmail.com	West Bengal
129	Rajat Subhra Bhowmik	rajat.jubilee@gmail.com	West Bengal
130	sumita	sumita281@gmail.com	rajasthan
131	Vivek Sharma	viveksha1985@gmail.com	Rajasthan
132	KRISHAN KUMAR	krishankaler@gmail.com	Rajasthan
133	Hanuman kushwih	hanumankushwah@gmail.com	Rajasthan

S.N.	Full Name (As to be printed on Certificate)	Email Address	State
134	Raunak Advani	raunakadvani4@gmail.com	Rajasthan
135	Arvind Meena	arvindmitmse@gmail.com	Delhi
136	Kedar Narayan Bairwa	bairwame79@gmail.com	Rajasthan
137	Namita soni	Soninimmi28@gmail.com	Rajasthan
138	Nikhil Sharma	nikhil.sharma@skit.ac.in	Rajasthan
139	SHEETAL KUMAR JAIN	SHEETAL.KUMAR@RUJ-BSDU.IN	Rajasthan
140	Virendra Nagar	vknskit@gmail.com	Rajasthan
141	Varun Pratap Singh	ray_varun@yahoo.com	Uttarakhand
142	AMIT KUMAR	amitphogla@gmail.com	Haryana
143	NIMISHA RANI	nimishaneeti1793@gmail.com	BIHAR
144	GAUTAM KUMAR MAHTO	gkumar261099@gmail.com	Bihar
145	Hemant Raj Singh	hemant.singh@jaipur.manipal.edu	Rajasthan
146	Deepak Kachhot	dkachhot@jpr.amity.edu	Rajasthan
147	MD SEKENDAR	kanchan.sikandar@gmail.com	West Bengal
148	RISHPAL POONIYA	rishpalpooniya@gmail.com	RAJASTHAN
149	RISHPAL POONIYA	rishpalpooniya@gmail.com	RAJASTHAN
150	Manish Srivastava	anvikavyansh@gmail.com	Rajasthan
151	Sunil Kumar	kumarsunil2301@gmail.com	Rajasthan
152	Utkarsh gupta	utkarshgupta450@gmail.com	Rajasthan
153	Vaibhav Sisodiya	vaibhavs2810@gmail.com	Rajasthan
154	Khooshal Agarwal	agarwalkhooshal@gmail.com	Assam
155	Yash Hitesh Topiwala	yashtopiwala1999@gmail.com	Rajasthan
156	Priyanka Chauhan	priyankachauhan3859@gmail.com	Rajasthan
157	Sandeep kumar	sandeepkumarmeena2243@gmail.com	Rajasthan
158	Rohit Banjara	somawat032@gmail.com	Rajasthan
159	Rohit Banjara	somawat032@gmail.com	Rajasthan
160	Mahesh Baboo	m.baboo@rediffmail.com	Rajasthan
161	RENUKA R PATEL	RRP.FETR@GMAIL.COM	GUJARAT
162	SAPAN HITENKUMAR JOSHI	SHJ.FETR@GMAIL.COM	GUJARAT
163	ASMITA C PATEL	ACP.FETR@GMAIL.COM	GUJARAT
164	Sushil Kumar Maurya	mauryasushil86@gmail.com	Rajasthan
165	Madhur Swami	Madhurswami1998@gmail.com	Rajasthan
166	Akshay Kumar	akshay604549@gmail.com	Rajasthan
167	ANUJ KUMAR SHAH	anujvinay@yahoo.co.in	RAJASTHAN
168	Sudhir Singh	kgreesh_1976@rediffmail.com	Uttar Pradesh
169	RAVI RAJ	kr.ravigupta006@gmail.com	Rajasthan
170	DEEPTI ARELA	deeptiarelapce@gmail.com	RAJASTHAN
171	Richhpal Mehariya	richhpalmehariya341510@gmail	Rajasthan
172	yogesh kumar singh	ys796977@gmail.com	rajasthan
173	Rajesh Kumar	rajeshkumar@coer.ac.in	Uttarakhand
174	GOURAV YADUVANSHI	sumeetjai36@gmail.com	RAJASTHAN
175	SHIVANI YADUVANSHI	geetkpur@gmail.com	RAJASTHAN
176	RENU YADUVANSHI	sweetkpur@gmail.com	RAJASTHAN
177	Pratap bhanu shekhawat	pbshekhawat555@gmail.com	Madhya pradesh
178	NITESH KUMAR MISHRA	nitesh_mishra0823@yahoo.com	M. P.
179	Bhupendra panchore	Bpanchore24@gmail.com	Madhya pradesh

S.N.	Full Name (As to be printed on Certificate)	Email Address	State
180	Rahul Jangid	Rahuljangidskit10000@gmail.com	Rajasthan
181	Sandeep Kumar Bhaskar	SANDEEPKUMARBHASKAR@GMAIL.COM	RAJASTHAN
182	Sandeep Kumar Bhaskar	SANDEEPKUMARBHASKAR@GMAIL.COM	RAJASTHAN
183	Radhey Shyam Meena	rshyamnmre@gmail.com	Delhi
184	Saksham Jain	sakshamjain2107@gmail.com	Rajasthan
185	Sourabh maharshi	sourabhmaharshi92@gmail.com	Rajasthan
186	ZULFUKAR ALI AHMED	zul.bme@gmail.com	Westbengal
187	Manish Kumar	manishkumar087@gmail.com	Gujarat
188	RACHANA ARYA	arya.rachana1827@gmail.com	RAJASTHAN
189	JITENDRA kumar	Jitendra.kumar@skit.ac.in	Rajasthan
190	Sanjeev Kumar Mittal	sanjeev.mittal@poornima.org	Rajasthan
191	Jyoti Kumari	erjyotikumari1910@gmail.com	Bihar
192	Prashant Singh	prashantimsme@mitmoradabad.edu.in	Uttar Pradesh
193	Ajay Kumar Dhanopia	ajaydhanopia123@gmail.com	Rajasthan
194	Gaurav Srivastava	gaurav.srivastava@poornima.org	Rajasthan
195	Kapil Nahar	kapil.nahar@gmail.com	Rajasthan
196	Sudesh Garg	sudeshjitu101@gmail.com	Rajasthan
197	KOVID GOYAL	goyal.6@iitj.ac.in	RAJASTHAN
198	Vikas Ranveer Singh Mahala	vikas.m513@gmail.com	Rajasthan
199	CHANDRA MOHAN KUMAR	chandra.mohan@skit.ac.in	Rajasthan
200	Sankit Sharma	sankits282@gmail.com	Rajasthan
201	DEEPAK KUMAR JOSHI	jazydeepak@gmail.com	RAJASTHAN
202	Kavita Jain	kjkavitajain.21@gmail.com	Rajasthan
203	ANKUR KUMAR	ankursinghal786@gmail.com	Rajasthan
204	Parth Sharma	parth171201@gmail.com	Rajasthan
205	Abhishek Patidar	ajmn107@gmail.com	Rajasthan
206	Yogesh Vaishnav	yogeshv1998@gmail.com	Rajasthan
207	Shobhit Saxena	saxenashobhit1999@gmail.com	Rajasthan
208	Deepak Gupta	deepu_2231@yahoo.co.in	Rajasthan
209	Vishnu R Nair	vishnurnair40@gmail.com	Rajasthan
210	KANCHAN KUMARI	ksharma78652@gmail.com	Bihar
211	Shailendra Kasera	shailendrakasera@poornima.org	Rajasthan
212	Dr. Prem Singh	prem.singh@skit.ac.in	Rajasthan
213	Sudhanshu Jain	sudhanshu.jain99@gmail.com	Rajasthan
214	UMESHKANNAN	umeshkannan.p@poornima.org	Rajasthan
215	RAHUL SHARMA	rahul.sharma@poornima.org	Rajasthan
216	Abhay Singh Gurjar	Abhay07gurjar@gmail.com	Rajasthan
217	Manoj Sharma	manojsharma@poornima.org	Rajasthan
218	Abhishek Sharma	064abhu@gmail.com	Rajasthan
219	Deepak Kumar	deepakme7777@gmail.com	Rajasthan
220	Manoj Sharma	manojsharma@poornima.org	Rajasthan
221	KSHITIJ KALRA	Kshitijyogeshkalra@gmail.com	Rajasthan
222	Ashish Nayyar	yoursashish2@gmail.com	Rajasthan
223	Navpratap Singh	nav.pratap@yahoo.com	Punjab
224	Amit Dangayach	amit.dangayach1989@gmail.com	Rajasthan
225	Arup Kumar Sikdar	arup.sikdar2@gmail.com	West Bengal

S.N.	Full Name (As to be printed on Certificate)	Email Address	State
226	Harsh maheshwari	Harshmah2760@gmail.com	Rajasthan
227	HEMANT YOGI	hemant yogi773486131@gmail.com	Rajasthan
228	Madhur sain	Me.Madhursain@gmail.com	Rajasthan
229	Navpratap Singh	nav.pratap@yahoo.com	Punjab
230	Hitesh Thadani	hitkunj283@gmail.com	Rajasthan
231	Karan soni	Karansonijpr96@gmail.com	Rajasthan
232	Lalit Sharma	lalitsharma260000@gmail.com	Rajasthan
233	Jalaj prakish gupta	jalajgupta698@gmail.com	Rajasthan
234	Anushree Soni	anushree722@gmail.com	Rajasthan
235	SATENDRA SINGH	stsingh1999@gmail.com	UTTAR PRADESH
236	Hari Om Mahiya	hariommahiya@gmail.com	Rajasthan
237	Kuldeep sharma	Vinodsharmadera1111@gmail.com	Rajasthan
238	Nikhil Pandey	nikhilpandeynp30@gmail.com	Rajasthan
239	Mukul garg	mecukul29@gmail.com	Rajasthan
240	Gaurav jain	ggauravjain26@gmail.com	Rajasthan
241	CHANDAN SEN	itschandan07@gmail.com	West Bengal
242	Sudhir Kumar Pathak	sudhirpathak95@gmail.com	RA
243	Kunal Colin Williams	kunalwilliams@gmail.com	Rajasthan
244	KUNAL MANTWAL	maniwal8182k@gmail.com	RAJASTHAN
245	Naval Tripathi	navaltripathi69@gmail.com	Rajasthan
246	DEVTANU BOSE	devtanubasa@gmail.com	West Bengal
247	Pushpendra Choudhary	Pushpendra 13690@gmail.com	Rajasthan
248	Atul Gupta	gatulg29@gmail.com	Rajasthan
249	Hakeem Niyas U S	hakeemnus@rgipt.ac.in	Karnataka
250	Dr. Mahesh Kumar Jangid	jangid.mahesh@vitj.ac.in	Rajasthan
251	Raj goyal	rajgoyal20201@gmail.com	Rajasthan
252	Harsh Singh gahlot	Gahlotharshsingh@gmail.com	Rajasthan
253	K B Rana	kbrana@rtu.ac.in	Rajasthan
254	VAIBHAV SAXENA	VAIBHI2012SAXENA@GMAIL.COM	Rajasthan
255	Ajit Singh Shekhuwar	singhaju397@gmail.com	Rajasthan
256	PATEL AESHA DINESHBHAI	patelaesha510@gmail.com	Gujarat
257	Amber Srivastava	amber@skit.ac.in	Rajasthan
258	Pawan Kumar Yogi	yogipawan5@gmail.com	Rajasthan
259	Naveen Kumar Sain	naveen.sain@skit.ac.in	Rajasthan
260	Aditi verma	aditiverma218@gmail.com	Rajasthan
261	Sunil Bachani	sunil.bachani@gmail.com	Gujarat
262	UDDESHYA	uddeshya244@gmail.com	Uttar Pradesh
263	Rahul Mishra	mishra.rahul@vitj.ac.in	Rajasthan
264	Satish Kumar Jangid	jangid.satish@vitj.ac.in	Rajasthan
265	Raj Kumar Yadav	rkyee1990@gmail.com	Rajasthan
266	Sandhya Dilip Jadhav	sdjadhav121@gmail.com	Maharashtra