

**Swami Keshvanand Institute of Technology,  
Management & Gramothan**

Ramnagaria (Jagatpura) Jaipur-17



**Extra-Curricular Activities 2023-24  
IE (EE) Student Chapter  
Annual Report of Chapter Activities**

**Student Coordinator:**

Shreyash Sharma

(8890830688)

Saurabh Kumar Pushp

(8955256054)

**Faculty Coordinator:**

Mr. Jinendra Rahul

(9530098449)

Mr. Jitendra Singh

(9314557275)

**About The Club:-** The Electrical Technical club (ETC) – was formed in 12 July 2012 under IE Students' chapter. The students' chapters organize various activities like special lectures, Quiz competitions, Group Discussions, Seminars, Workshops, Symposia, product and project demonstration, etc. for the development of socio-techno-intellectual qualities in the students as well as for encouraging their quest for knowledge in a disciplined manner.

**Objective:-** To improve learning in advanced technology and to promote research in core and interdisciplinary domains.

**Outcomes:-** After completion of activities, competitive skills, character and leadership skills are developed and get unique opportunities.

**Details of Students Coordinators:-**

S. No.	University Roll No.	Name	Year	Branch	Mob. No.	Remarks (if any)
1.	21ESKEE074	Shreyash Sharma	III	EE	8890830688	
2.	21ESKEE069	Saurabh Kumar Pushp	III	EE	8955256054	

**Details of Faculty Coordinators:-**

Sr. No.	Name	Branch	Mob. No.	Remarks (if any)
1.	Jinendra Rahul	EE	9530098449	
2.	Jitendra Singh	EE	9314557275	

**Yearly Calendar:-**(Starting from 1 July 2023 to till date)

<b>S. No.</b>	<b>Date</b>	<b>Name of The Activity</b>	<b>Description</b>	<b>Remarks (if any)</b>
1.	17 - 21 October, 2023	Short Term Training Program (STTP)	Short Term Training Program (STTP) on “Application of Power Converters in Electrical Engineering” for Students	
2.	03 Nov. 2023	Expert Talk	Expert Talk on “Smart Grid and Energy Management Automation”	
3.	07-08 Nov. 2023	Quiz Mania	Quiz Competition	
4.	22 Dec. 2023	KYC 3.0	solar power plant visit at SKIT M&G, Jaipur	
5.	07 March 2024	Project Expo- 2024	National Level Project Expo-2024	
6.				
7.				

## Group Photo of Club Coordinators (Faculty and Students):-





*A*

*Report on*

*Short Term Training Program*

*on*

***“Applications of Power Converters in Electrical Engineering”***

***October 17 - 21, 2023***



**Organized by:**

**Department of Electrical Engineering**

**&**

**IE (I) Student Chapter**

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

***Submitted by:***

Dr. Prateek Kumar Singhal (Associate Professor)

Mr. Tarun Naruka (Associate Professor)

Mr. Vikas Mahala (Assistant Professor & Deputy Head)

Mr. Deepak Saini (Assistant Professor)

## **Department of Electrical Engineering, SKIT M&G Jaipur**

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## **1. About SKIT**

SKIT (SKIT), inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today, the Institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Ph. D., Postgraduate and Graduate Courses in Engineering and Management. 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 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.

### **Our Inspiration**

**"Mass illiteracy is the root cause behind backwardness of India. If we want speedy progress of nation, we need to root it out as early as possible."**

**– Swami Keshvanand**

Swami Keshvanand, an orphan, illiterate, nomadic man who never received formal education, was the founder of more than 300 schools, 50 hostels and innumerable libraries, social service centers and museums. Swami Keshvanand had a deep understanding of the rural society of the desert region. He had explained the peculiarities of the desert region, identified the problems and suggested appropriate and logical solutions. It was Swami Keshvanand's lifelong endeavors to eradicate social evils like untouchability, child marriage, indebtedness, poverty, backwardness, alcohol abuse, moral dissipation etc.

### **Vision**

To promote higher learning in advanced technology, management skills and industrial research to make our country a global player.

### **Mission**

To promote quality education, training and research in field of Engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

### **Quality Policy**

We are committed to 'achievement of quality' as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves. Institute would pursue quality in

- All its endeavors like admissions, teaching-learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.
- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services."

## 2. Approval Letter of STTP



Swami Keshvanand Institute of Technology, Management &  
Gramothan, Jaipur, Rajasthan-302017  
Department of Electrical Engineering



### STTP Features:

**Hands-On Demonstrations:** Practical exercises and simulations to reinforce theoretical knowledge.

**Guest Lectures:** Experts from the industry sharing their experiences and real-world applications.

**Lab Sessions:** Access to well-equipped laboratories for hands-on learning experiences.

**Certificate of Participation:** Participants will receive certificates upon successful completion of STTP.

**Target Audience:** In-house undergraduate students of Electrical Engineering

### Resource Requirements:

- Lecture rooms with audiovisual equipment.
- Laboratory facilities for hands-on experiments.
- STTP materials, components, and tools.
- Experienced faculty members and industry professionals to conduct sessions.

**Budget:** A proposed budget plan covering expenses for materials, equipment, refreshments, and guest speakers is as follows:

S.N	Item	Total
1	Expert remuneration	30,000/-
2	Printing & other materials, equipment, refreshments and stationary items	10,000/-
	<b>Total</b>	<b>40,000/-</b>

We kindly request your approval and support to organize this STTP in Electrical Engineering Department. This initiative aligns with our commitment to providing a comprehensive and practical education to our students.

  
Dr. Prateek Kumar Singh  
Associate Professor, EED & STTP Coordinator

*Approved*  
*11/10/2023*  
*Not permitted*  
*11/10/23*

  
Dr. Sarfaraz Nawaz  
Head-EED

### 3. Documents Related to Finance

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

### Department of Electrical Engineering

Name of Event	5 days Short Term Training Program for Students on "Applications for Power Converters in Electrical Engineering"
Date	17-21 October, 2023

### Total Expenditure Details

S.N	Particular	Type	Amount in Rs/-	Remark
1	Dr. Sunil Kumar Gupta	Expert	3000	To be paid
2	Dr. Nand Kishore Gupta	Expert	3000	To be paid
3	Dr. Manoj Kumawat	Expert	3000	To be paid
4	Dr. Devendra Somwanshi	Expert	3000	To be paid
5	Miscellaneous	Stationary, Printing, Refreshment, Petrol etc.	6233	Paid
Total Expenditure			18,233/-	

verified  
Dr. Prateek Singhal



Dr. Sarfaraz Nawaz

Head, EE Dept.

#### **4. Committee of STTP**

##### **Convener:-**

**Dr. Prateek Kumar Singhal**

Associate Professor

Phone: 7793027050

Email: prateek.singhal@skit.ac.in

##### **Faculty Coordinators:-**

**Mr. Tarun Naruka**

Associate Professor

Phone: 7665880996

Email: tarun.naruka@skit.ac.in

**Mr. Vikas Mahala**

Assistant Professor

Phone: 8561811965

Email: vikas.mahala@skit.ac.in

**Mr. Deepak Saini**

Assistant Professor

Phone: 9024879584

Email: deepak.saini@skit.ac.in

##### **Student Coordinators:-**

**Mr. Shreyash Sharma**

III Year (EE Dept., SKIT M&G Jaipur)

**Mr. Saurabh Kumar Pushp**

III Year (EE Dept., SKIT M&G Jaipur)

## 5. STTP Brochure

<p><b>Patrons</b> Shri Raja Ram Meel, Patron, SKIT Shri Surja Ram Meel, Chairman, SKIT</p> <p><b>Advisory Committee</b> Shri Jaipal Meel, Director, SKIT Prof. S. L. Surana, Director (Academics), SKIT Mrs. Rachna Meel, Registrar, SKIT Prof. Ramesh Kumar Pachar, Principal, SKIT Prof. R.K.Jain, Dean, SKIT Dr. Sarfaraz Nawaz, HOD (EE), SKIT Prof. Anil Choudhary, HOD (IT), SKIT Prof. Mukesh Gupta, HOD (CSE), SKIT Prof. Mukesh Arora, Head (ECE &amp; OFA), 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 (Maths), SKIT Dr. Sharda Soni, Head (Chemistry), SKIT Prof. Brajraj Sharma, Head (Physics), SKIT Prof. Neha Purohit, Head (English), SKIT Prof. Ona Ladiwal, HOD (DMS), SKIT Prof. Sangeeta Vyas, Head (OSA), SKIT</p> <p><b>Faculty Members</b></p> <table border="0"> <tr> <td>Dr. Dhanraj Chitara</td> <td>Mrs. Deepti Arela</td> </tr> <tr> <td>Dr. Virendra Sangtani</td> <td>Mr. Jinendra Rahul</td> </tr> <tr> <td>Dr. Suman Sharma</td> <td>Mr. Jitendra Singh</td> </tr> <tr> <td>Dr. Pooja Jain</td> <td>Mr. Ajay Bharadwaj</td> </tr> <tr> <td>Dr. Jyoti Shukla</td> <td>Mohd. Yusuf Sharif</td> </tr> <tr> <td>Dr. Sanjeev Kumar</td> <td>Mr. Vivek Sharma</td> </tr> <tr> <td>Mr. Abhishek Gupta</td> <td>Mr. Avadhesh Sharma</td> </tr> <tr> <td>Mr. Ankush Tandon</td> <td>Mr. Garvit Gupta</td> </tr> <tr> <td>Mr. Bharat Modi</td> <td>Mr. Mahesh Meena</td> </tr> <tr> <td>Ms. Smriti Jain</td> <td></td> </tr> </table>	Dr. Dhanraj Chitara	Mrs. Deepti Arela	Dr. Virendra Sangtani	Mr. Jinendra Rahul	Dr. Suman Sharma	Mr. Jitendra Singh	Dr. Pooja Jain	Mr. Ajay Bharadwaj	Dr. Jyoti Shukla	Mohd. Yusuf Sharif	Dr. Sanjeev Kumar	Mr. Vivek Sharma	Mr. Abhishek Gupta	Mr. Avadhesh Sharma	Mr. Ankush Tandon	Mr. Garvit Gupta	Mr. Bharat Modi	Mr. Mahesh Meena	Ms. Smriti Jain		<p style="text-align: center;"><b>REGISTRATION</b></p> <p>To join this workshop, you are requested to register your name by clicking the following registration link or scanning QR code: <a href="https://forms.gle/HHfWYwzEEGzvm2c6">https://forms.gle/HHfWYwzEEGzvm2c6</a></p> <div style="text-align: center;">  </div> <p style="text-align: center;"><b>CONVENER</b></p> <p><b>Dr. Prateek Kumar Singhal</b> Associate Professor Phone: 7793027050 Email: prateek.singhal@skit.ac.in</p> <p style="text-align: center;"><b>COORDINATORS</b></p> <p><b>Mr. Tarun Naruka</b> Associate Professor Phone: 7665880996 Email: tarun.naruka@skit.ac.in</p> <p><b>Mr. Vikas Mahala</b> Assistant Professor Phone: 8561811965 Email: vikas.mahala@skit.ac.in</p> <p><b>Mr. Deepak Saini</b> Assistant Professor Phone: 9024879584 Email: deepak.saini@skit.ac.in</p> <p><b>STUDENT COORDINATORS</b> <b>Mr. Shreyash Sharma</b> Mr. Saurabh Kumar Pushp III Year (EE Dept., SKIT) III Year (EE Dept., SKIT)</p>	<p style="text-align: center;">A Short Term Training Program (STTP) for Students</p> <p style="text-align: center;">on</p> <p style="text-align: center;"><b>"Application of Power Converters in Electrical Engineering"</b></p> <p style="text-align: center;">17<sup>th</sup> - 21<sup>st</sup> October, 2023 (05 Days)</p> <div style="text-align: center;">  </div> <p style="text-align: center;">Organized by Department of Electrical Engineering, &amp; Institution of Engineers (IEI)</p> <div style="display: flex; justify-content: space-around;">   </div> <p style="text-align: center;"><b>Swami Keshvanand Institute of Technology, Management &amp; Gramothan, Jaipur- 302017</b> <a href="http://www.skit.ac.in">www.skit.ac.in</a></p>
Dr. Dhanraj Chitara	Mrs. Deepti Arela																					
Dr. Virendra Sangtani	Mr. Jinendra Rahul																					
Dr. Suman Sharma	Mr. Jitendra Singh																					
Dr. Pooja Jain	Mr. Ajay Bharadwaj																					
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Mr. Ankush Tandon	Mr. Garvit Gupta																					
Mr. Bharat Modi	Mr. Mahesh Meena																					
Ms. Smriti Jain																						

<p style="text-align: center;"><b>About SKIT, Jaipur</b></p> <div style="text-align: center;">  </div> <p>Swami Keshvanand Institute of Technology, Management &amp; Gramothan (SKIT) has been Ranked No.1 Engineering Institute in Rajasthan by RTU Kota consecutively for the last six 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). SKIT is only affiliated technical institute in Rajasthan to have earned an A++ grade by National Assessment And Accreditation Council (NAAC).</p> <p style="text-align: center;"><b>Department of Electrical Engineering</b></p> <p>The Department of Electrical Engineering is distinctly focused towards integrating academics with cutting edge technology in the field of Electrical Engineering. The B. Tech. Program has been accredited five times in succession by NBA since 2009 Department is also conducting M. Tech and</p>	<p>PhD Program in Power Systems specialization. All efforts are subtly harnessed with the aim of preparing the budding engineers to face the challenging dimensions of technical excellence in areas such as Electrical Machines &amp; Drives, Control &amp; Automation, Power Systems Design, Power Electronics and MATLAB Applications. 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, Electronics and Computer related courses to help students pursue a professional career or higher studies.</p> <p style="text-align: center;"><b>About the Workshop</b></p> <p>This STTP aims to provide students with valuable insights into the world of power converters, an essential technology in modern electrical engineering. This STTP will cover various aspects of power converters, including: Introduction to Power Converters: Basics of power conversion and their significance in electrical systems. Types of Power Converters: Understanding different types, such as DC-DC converters, DC-AC inverters, and more. Applications in Renewable Energy: Exploring how power converters are vital in renewable energy systems like solar and wind. Motor Drives: Learning about motor control techniques using power converters in industrial applications. Grid Integration: Understanding how power converters enable the integration of renewable sources into the electrical grid.</p>	<p style="text-align: center;"><b>STTP Features:</b></p> <ul style="list-style-type: none"> <li>• Hands-On Demonstrations: Practical exercises and simulations to reinforce theoretical knowledge.</li> <li>• Guest Lectures: Experts from the industry sharing their experiences and real-world applications.</li> <li>• Lab Sessions: Access to well-equipped laboratories for hands-on learning experiences.</li> <li>• Certificate of Participation: Participants will receive certificates upon successful completion of STTP.</li> <li>• Target Audience: In-house undergraduate students of Electrical Engineering</li> </ul> <p style="text-align: center;"><b>Workshop Schedule</b></p> <p>The training program will be conducted from 17<sup>th</sup>-21<sup>st</sup> October 2023, in which one session will be carried on each day.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Date</th> <th>Session</th> </tr> </thead> <tbody> <tr> <td>17<sup>th</sup>-21<sup>st</sup> October, 2023</td> <td>12:30 to 02:30 PM</td> </tr> </tbody> </table>	Date	Session	17 <sup>th</sup> -21 <sup>st</sup> October, 2023	12:30 to 02:30 PM
Date	Session					
17 <sup>th</sup> -21 <sup>st</sup> October, 2023	12:30 to 02:30 PM					

## 6. STTP Poster



A  
SHORT TERM TRAINING PROGRAM  
(STTP)  
FOR STUDENTS  
ON

**"Application of Power Converters in  
Electrical Engineering"**

EMINENT EXPERTS



**Dr. Sunil Kumar Gupta**  
Dean (R&D)  
Poornima University,  
Jaipur



**Mr. Dinesh Kumar**  
SKIT, Jaipur



**Dr. Nandkishore Gupta**  
Poornima University, Jaipur



**Dr. Manoj Kumawat**  
NIT, Delhi



**Dr. Devendra Somwanshi**  
Poornima College of  
Engineering, Jaipur

Organized by  
**IE(I) Student Chapter**  
&  
**Department of Electrical Engineering**  
Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur

## 7. STTP Schedule



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

**A**  
**Short Term Training Program (STTP)**  
**for Students**  
**on**  
**"Application of Power Converters in Electrical Engineering"**  
**17<sup>th</sup> - 21<sup>st</sup> October, 2023 (05 Days)**

STTP Schedule



Date	Time	Venue	Speaker Name	Title of Session
<b>Day 1</b>				
Tuesday, 17-10-2023	12:30 PM to 02:30 PM	JC Bose Seminar Hall	Dr. Sunil Kumar Gupta	Understanding Inverters: From Basics to Advanced Concepts
<b>Day 2</b>				
Wednesday, 18-10-2023	12:30 PM to 02:30 PM	6F : Lab 10	Mr. Dinesh kumar	Power Converters : Industrial Aspect
<b>Day 3</b>				
Thursday, 19-10-2023	12:30 PM to 02:30 PM	6F : Lab 10	Dr. Nandkishore Gupta	Issues and challenges in Power Converters
<b>Day 4</b>				
Friday, 20-10-2023	12:30 PM to 02:30 PM	6F : Lab 10	Dr. Manoj Kumawat	Grid Integration
<b>Day 5</b>				
Saturday, 21-10-2023	12:30 PM to 02:30 PM	6F : Lab 10	Dr. Devendra Somwanshi	Role of Power Converter in Solar PV

## 8. List of Registered Candidates

S.N.	Name	College Id	RTU Roll Number	Semester	Branch
1	Aman Maru	B210704	21ESKEE005	5th	EE
2	Ankita Jangir	B210761	21ESKEE006	5th	EE
3	Devesh Nagar	B210597	21ESKEE015	5th	EE
4	Divya Jain	B210980	21ESKEE018	5th	EE
5	Dushyant Sharma	L220036	22ESKEE201	5th	EE
6	Kalpith Mathur	B211131	21ESKEE027	5th	EE
7	Kanishk Khandal	B210786	21ESKEE029	5th	EE
8	Kanishk Saini	B211106	21ESKEE030	5th	EE
9	Kannu Sharma	B211099	21ESKEE031	5th	EE
10	Karan Mourya	B211150	21ESKEE032	5th	EE
11	Kartikey Nehra	B210623	21ESKEE033	5th	EE
12	Keshav Gautam	B210281	21ESKEE034	5th	EE
13	Khushi Nayak	B211166	21ESKEE035	5th	EE
14	Krati Choudhary	B211135	21ESKEE037	5th	EE
15	Mohammed Fardeen	B210722	21ESKEE039	5th	EE
16	Mohit Jarwal	B210593	21ESKEE040	5th	EE
17	Naveen Ghosliya	B210514	21ESKEE041	5th	EE
18	Navin Suthar	B210423	21ESKEE042	5th	EE
19	Palak	B211126	21ESKEE045	5th	EE
20	Pankaj Kumar Samota	B210982	21ESKEE046	5th	EE
21	Parag Saini	B211035	21ESKEE047	5th	EE
22	Pradeep Singh Rajawat	B210591	21ESKEE049	5th	EE
23	Pranshul Singh	B210248	21ESKEE050	5th	EE
24	Preeti Gupta	B210460	21ESKEE051	5th	EE
25	Priyanshu Sharma	B211085	21ESKEE052	5th	EE
26	Rahul Gangwal	b211057	21ESKEE055	5th	EE
27	Rahul Singh Panwar	B211079	21ESKEE057	5th	EE
28	Rakesh Swami	B210506	21ESKEE059	5th	EE
29	Rashi Chouhan	B211112	21ESKEE060	5th	EE
30	Ravi Kumar Meena	B211101	21ESKEE061	5th	EE
31	Ronak Kumar	B210984	21ESKEE063	5th	EE
32	Sachin Meena	B210701	21ESKEE064	5th	EE
33	Sakshya Mawaliya	B210985	21ESKEE066	5th	EE
34	Saloni	B211134	21ESKEE067	5th	EE
35	Sarthak Verma	B210347	21ESKEE068	5th	EE
36	Saurabh Kumar Pushp	B210706	21ESKEE069	5th	EE
37	Shankar Yogi	b210473	21ESKEE070	5th	EE
38	Shreyansh Meena	B211091	21ESKEE073	5th	EE
39	Shreyash Sharma	B210374	21ESKEE074	5th	EE
40	Sumit Sarsar	B210688	21ESKEE075	5th	EE
41	Tanu Meena	B210986	21ESKEE076	5th	EE
42	Vipendra Singh	B210695	21ESKEE078	5th	EE
43	Virendra Singh Rathore	B211107	21ESKEE079	5th	EE
44	Vivek Singh	B210257	21ESKEE080	5th	EE
45	Yash Agarwal	B210398	21ESKEE081	5th	EE
46	Yash Kasliwal	L220017	22ESKEE203	5th	EE
47	Yash Mina	B210613	21ESKEE082	5th	EE

## 9. Attendance of STTP

STTP-APCEE Attendance (17-21 Oct. 2023)							
S.No.	RTU Roll Number	Name	Day-1	Day-2	Day-3	Day-4	Day-5
1	21ESKEE005	Aman Maru	✓	P		P	P
2	21ESKEE006	Ankita Jangir	✓	P	P		P
3	21ESKEE015	Devesh Nagar	✓	P		P	P
4	21ESKEE018	Divya Jain		P	P		P
5	22ESKEE201	Dushyant Sharma	✓	P		P	P
6	21ESKEE027	Kalpiti Mathur	✓	P	P		P
7	21ESKEE029	Kanishk khandal	✓	P		P	P
8	21ESKEE030	Kanishk Saini	✓	P	P	P	P
9	21ESKEE031	Kannu Sharma	✓	P	P	P	P
10	21ESKEE032	Karan mourya	✓	P	P	P	P
11	21ESKEE033	Kartikey Nehra	✓	P	P	P	P
12	21ESKEE034	Keshav Gautam	✓	P	P	P	P
13	21ESKEE035	Khushi Nayak	✓	P	P	P	P
14	21ESKEE037	Krati choudhary					
15	21ESKEE039	Mohammed fardeen	✓	P	P		
16	21ESKEE040	Mohit Jarwal		P	P		
17	21ESKEE041	Naveen Ghosliya				P	
18	21ESKEE042	Navin suthar	✓	P	P	P	P
19	21ESKEE045	Palak	✓	P	P	P	P
20	21ESKEE046	Pankaj Kumar Samota	✓	P	P	P	P
21	21ESKEE047	Parag saini	✓	P	P	P	P
22	21ESKEE049	Pradeep Singh Rajawat	✓	P	P	P	P
23	21ESKEE050	Pranshul Singh	✓	P	P	P	
24	21ESKEE051	Preeti Gupta	✓	P	P	P	P
25	21ESKEE052	Priyanshu Sharma	✓	P	P	P	P
26	21ESKEE055	Rahul Gangwal	✓	P		P	P
27	21ESKEE057	Rahul Singh Panwar	✓	P	P	P	P
28	21ESKEE059	Rakesh Swami	✓	P	P	P	P
29	21ESKEE060	Rashi Chouhan	✓	P		P	P
30	21ESKEE061	Ravi Kumar Meena	✓	P			P
31	21ESKEE063	Ronak Kumar	✓	P			
32	21ESKEE064	Sachin Meena	✓	P			P
33	21ESKEE066	Sakshya mawaliya	✓	P	P		P
34	21ESKEE067	Saloni	✓	P	P	P	P
35	21ESKEE068	Sarthak verma	✓	P			
36	21ESKEE069	Saurabh kumar pushp	✓	P	P	P	P
37	21ESKEE070	Shankar yogi	✓				P
38	21ESKEE073	Shreyansh Meena	✓				
39	21ESKEE074	Shreyash Sharma	✓	P	P	P	P
40	21ESKEE075	Sumit sarsar	✓	P	P	P	P
41	21ESKEE076	Tanu Meena	✓	P		P	P
42	21ESKEE078	Vipendra Singh	✓	P		P	P
43	21ESKEE079	Virendra Singh Rathore		P	P	P	P
44	21ESKEE080	Vivek Singh	✓		P		P
45	21ESKEE081	Yash agarwal	✓	P			
46	22ESKEE203	Yash kasliwal	✓	P			
47	21ESKEE082	Yash mina	✓	P	P	P	P

## 10. Glimpses of STTP









## 11. Feedback of STTP

S.No	Name	How was the content of the workshop	Which topics or aspects of the workshop did you find most interesting or useful	What is your overall assessment of the event?
1	Keshav Gautam	4	Day 4	5
2	Aman Maru	5	Day 2	5
3	Ankita Jangir	4	Day 5	3
4	Devesh Nagar	5	Day 4	5
5	Divya Jain	4	Day 4	5
6	Kalpith Mathur	4	Day 2	3
7	Kanishk khandal	5	Day 4	4
8	Kanishk Saini	5	Day 5	1
9	Kannu Sharma	5	Day 4	5
10	Karan mourya	5	Day 4	4
11	Kartikey Nehra	4	Day 4	4
12	Khushi Nayak	4	Day 5	3
13	Mohit Jarwal	4	Day 3	4
14	Naveen Ghosliya	5	Day 3	4
15	Palak	3	Day 4	4
16	Parag saini	5	Day 5	5
17	Pradeep Singh Rajawat	5	Day 5	5
18	Pranshul Singh	5	Day 3	4
19	Preeti Gupta	5	Day 5	4
20	Priyanshu Sharma	5	Day 5	5
21	Rahul Gangwal	3	Day 1	3
22	Rahul Singh Panwar	5	Day 5	5
23	Rahul Singh Panwar	5	Day 4	4
24	Rakesh Swami	5	Day 3	4
25	Rashi Chouhan	4	Day 2	4
26	Ravi kumar meena	5	Day 5	5
27	Ronak Kumar	4	Day 2	4
28	Sachin Meena	2	Day 5	4
29	Sakshya mawaliya	4	Day 4	3
30	Saloni	4	Day 2	5
31	Saurabh Kumar Pushp	5	Day 5	5
32	Shankar yogi	3	Day 5	5
33	Shivam Gupta	3	Day 3	3
34	Shreyansh Meena	3	Day 1	3
35	Shreyash Sharma	5	Day 5	5
36	Sumit sarsar	5	Day 5	5
37	Tanu Meena	5	Day 2	5
38	Vipendra Singh	3	Day 4	3
39	Virendra Singh Rathore	3	Day 2	4
40	Vivek Singh	5	Day 5	5
41	Yash mina	4	Day 4	3
42	Yash kasliwal	4	Day 2	4
43	Navin suthar	5	Day 2	5
44	Dushyant Sharma	5	Day 3	5

## 12. Sample Copy of Participants Certificate

 <b>SKIT</b> श्रद्धां नमः सत्कारम्	 THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND TECHNICAL EDUCATORS OF INDIA
<b>SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT &amp; GRAMOTHAN, JAIPUR</b>	
<h1>Certificate</h1> <p>of Participation</p>	
This is to certify that ..... has	
attended five days <b>Short Term Training Programme (STTP)</b> on " <b>Application of Power Converters in Electrical Engineering</b> " held from <b>October 17<sup>th</sup> - 21<sup>st</sup>, 2023</b> organized by <b>Department of Electrical Engineering and IE(I) Student Chapter</b> at <b>Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur.</b>	
 <b>Prof. S. L. Surana</b> Director (Academics) SKIT, JAIPUR	 <b>Dr. R.K. Pachar</b> Principal SKIT, JAIPUR
 <b>Dr. Sarfaraz Nawaz</b> Head EE Dept. SKIT, JAIPUR	 <b>Dr. Prateek Kr. Singhal</b> Convener, APCEE 2023 SKIT, JAIPUR

### 13. List of Participants who received Certificates

S. No.	Name	RTU Roll No.	Score	Email
1	Aman Maru	21ESKEE005	17 / 20	amanmaru107@gmail.com
2	Ankita Jangir	21ESKEE006	14 / 20	B210761@skit.ac.in
3	Devesh Nagar	21ESKEE015	16 / 20	b210597@skit.ac.in
4	Divya Jain	21ESKEE018	13 / 20	b210989@skit.ac.in
5	Dushyant Sharma	22ESKEE201	19 / 20	dushyantsharma3210@gmail.com
6	Kalpith Mathur	21ESKEE027	17 / 20	B211131@skit.ac.in
7	Kanishk khandal	21ESKEE029	15 / 20	kanishkkhandal6165@gmail.com
8	Kanishk Saini	21ESKEE030	16 / 20	b211106@skit.ac.in
9	Kannu Sharma	21ESKEE031	17 / 20	kannusharmajaipur@gmail.com
10	Karan mourya	21ESKEE032	19 / 20	nkmorya2@gmail.com
11	Kartikey Nehra	21ESKEE033	17 / 20	b210623@skit.ac.in
12	Keshav Gautam	21ESKEE034	11 / 20	keshavgautam202@gmail.com
13	Khushi Nayak	21ESKEE035	14 / 20	b211166@skit.ac.in
14	Krati Choudhary	21ESKEE037	16 / 20	kratichoudhary6540@gmail.com
15	Mohit Jarwal	21ESKEE040	8/20	mohitjarwal012@gmail.com
16	Naveen Ghosliya	21ESKEE041	6 / 20	naveenghosliya2003@gmail.com
17	Navin suthar	21ESKEE042	17 / 20	sutharnavin769@gmail.com
18	Palak	21ESKEE045	15 / 20	palaksihag26@gmail.com
19	Parag saini	21ESKEE047	19 / 20	paragsaini75@gmail.com
20	Pradeep Singh Rajawat	21ESKEE049	14 / 20	singh.pradeep998247@gmail.com
21	Pranshul Singh	21ESKEE050	17 / 20	b210248@skit.ac.in
22	Preeti Gupta	21ESKEE051	14 / 20	b210460@skit.ac.in
23	Priyanshu Sharma	21ESKEE052	19 / 20	priyanshu10062003@gmail.com
24	Rahul Gangwal	21ESKEE055	19 / 20	rahul1gangwal@gmail.com
25	Rahul Singh Panwar	21ESKEE057	17 / 20	rahulsingh023@gmail.com
26	Rakesh Swami	21ESKEE059	19 / 20	Swamirk9664@gmail.com
27	Rashi Chouhan	21ESKEE060	17 / 20	b211112@skit.ac.in
28	Ravi Kumar Meena	21ESKEE061	18 / 20	b211101@skit.ac.in
29	Ronak Kumar	21ESKEE063	18 / 20	b210984@skit.ac.in
30	Sachin Meena	21ESKEE064	18 / 20	b210701@skit.ac.in
31	Sakshya mawaliya	21ESKEE066	19 / 20	bsakshyamawliya@gmail.com
32	Saloni	21ESKEE067	15 / 20	garg.saloni583@gmail.com
33	Saurabh Kumar Pushp	21ESKEE069	19 / 20	b210706@skit.ac.in
34	Shankar yogi	21ESKEE070	20 / 20	shankaryogi14988@gmail.com
35	Shreyansh Meena	21ESKEE073	18 / 20	b211091@skit.ac.in
36	Shreyash Sharma	21ESKEE074	18 / 20	b210374@skit.ac.in
37	Sumit sarsar	21ESKEE075	19 / 20	sumitsarsar4@gmail.com
38	Tanu Meena	21ESKEE076	19 / 20	b210986@skit.ac.in
39	Vipendra Singh	21ESKEE078	18 / 20	b210695@skit.ac.in
40	Virendra Singh Rathore	21ESKEE079	16 / 20	B211107@skit.ac.in
41	Vivek Singh	21ESKEE080	19 / 20	b210257@skit.ac.in
42	Yash kasliwal	22ESKEE203	5 / 20	kasliwaly60@gmail.com
43	Yash mina	21ESKEE082	18 / 20	B210613@skit.ac.in

## **14. Day-Wise Report**

### **Day-1**

**Date: 17-10-2023**

It was the first day of the ‘**Short Term Training Program (STTP)**’ organized by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur for students on “**Application of Power Converters in Electrical Engineering**”. The Guest Speaker of the day was **Dr. Sunil Kumar Gupta (Dean R&D, Poornima University, Jaipur)**. The session was commenced at 12:30 P.M. with a welcome note to the speaker by the student host.

Dr. Sunil Kumar Gupta first threw light on basics of Inverters and the basic history of Inverters. He also talked about overloading and short circuits. He discussed the history of inverters Charles Proteus Steinmetz, a pioneering electrical engineer, developed the rotary converter in the 1890s. It was an early device capable of converting AC to DC and vice versa, serving as a precursor to modern inverters. In 1920 the Vibrator Inverter was introduced and then development of static inverters in 1940s marked a significant shift away from mechanical components. Later, in 1960s the Transistorized Inverters are introduced for making inverters more compact, reliable and suitable for a broader range of application. He talked about working principle of Inverters. He also discussed the Inverter topology and the ongoing trends in Inverter Technology. He briefly explained Intellectual Property Rights (IPRs) like patents, designs, trademarks etc. Lastly, He also briefed about the different measures and the process for Patent, Trademark and Copyright.

At last, **Dr. Sarfaraz Nawaz (HOD EE Dept., SKIT)** presented a memento to the guest speaker and the vote of thanks was presented by the student host. In this way, the session lasted for two hour and ended at 02:30 P.M.

### **Day-2**

**Date: 18-10-2023**

It was the second day of STTP and the guest speaker of the day was **Mr. Dinesh Kumar (Assistant Professor, ECE Dept., SKIT)**. The session was commenced at 12:30 P.M. with a welcome note to the speaker by the student host.

Mr. Dinesh Kumar talked about the power electronic devices such as MOSFET, thyristor and their Ampere ratings.

He also talked about the PC817, an opto-coupler also called an opto-isolator, photo-coupler and optical isolator is one kind of semiconductor device that allows the electrical signal to transmit between two isolated circuits through light. Later he discussed about the projects and work he had done during pandemic for the betterment of society. He motivated students for practical learning and students must make projects with their studies. Later, He talked about lithium-ion battery is a type of rechargeable battery which uses the reversible reduction of lithium ions to store energy. He also briefed about Battery Management System (BMS) is technology dedicated to the oversight of a battery pack, which is an assembly of battery cells, electrically organized in a row column matrix configuration to enable delivery of targeted range of voltage and current for a duration of time against expected load scenarios. He discussed about an water level sensor, TDS sensor, pH sensor etc. Lastly, he talked about current sensor which is a device that detects and converts current to an easily measurable output. He also explained about the Lipo cells and the components of circuit of power converters. He made the students aware about the importance of making projects with your studies.

At last, **Dr. Prateek Kumar Singhal (Associate Professor, EE Dept., SKIT)** presented a momento to the guest speaker and the vote of thanks was presented by the student host. In this way, the session lasted for two hours and ended at 2:30 P.M.

### **Day-3**

**Date: 19-10-2023**

It was the third day of STTP and the guest speaker of the day was **Dr. Nand Kishore Gupta (Associate Professor, Department of Electrical & Electronics Engineering, Poornima University, Jaipur)**. The session was commenced at 12:30 P.M. with a welcome note to the speaker by the student host.

Dr. Nand Kishore Gupta first threw light on the types of battery and their uses in different devices and the Lithium ion batteries in Electric Vehicles. He talked about the meaning of conversion and the use of inverters in daily life. He also talked about the need analysis of power converters as the task of a power converter is to process and control the flow of electric energy by supplying voltages and currents in a form that is optimally suited for the user loads. He talked about the stability and reliability of the power converters. He also discussed about the Blackout and the reasons behind the situation of blackout. He explained about the Issues and challenges in power converters.

He briefly explained about the different power electronic based converters and diode based converters. He also explained about different innovations of power converters in electric vehicles.

At last, **Dr. Prateek Kumar Singhal** and **Mr. Tarun Naruka** presented a momento to the guest speaker and the vote of thanks was presented by the student host. In this way, the session lasted for two hour and ended at 02:30 P.M.

#### **Day-4**

**Date: 20-10-2023**

It was the fourth day of STTP and the guest speaker of the day was **Dr. Manoj Kumawat (Assistant Professor, NIT Delhi)**. The session was commenced at 12:30 P.M. with a welcome note to the speaker by the student host.

Dr. Manoj Kumawat first talked about the designing of restructured power system. He talked about the Grid Integration and grid integration of renewable energy which means reimagining operation and planning for a reliable, cost-effective, and efficient electricity system with cleaner new energy generators. Later he explained about the load flow analysis that can help prevent power system overloads and decrease your risk of a short circuit or a blowout. He also explained about backward and forward load flow analysis algorithm in power system. Lastly he also briefed about Transmission and Distribution system analysis.

At last, Dr. Prateek Kumar Singhal Sir and Mr. Tarun Naruka Sir presented a momento to the guest speaker and the vote of thanks was presented by the student host. In this way, the session lasted for two hour and ended at 02:30 P.M.

#### **Day-5**

**Date: - 21-10-2023**

It was the fifth day of STTP and the guest speaker of the day was **Dr. Devendra Somwanshi Sir (Registrar, Poornima College of Engineering, Jaipur)**. The session was commenced at 12:30 P.M. with a welcome note to the speaker by the student host.

Dr. Devendra Somwanshi Sir first talked about the significance of AC and DC. Then he discussed about Power Converters and the different converters that converts AC to AC, AC to DC, DC to DC and DC to DC. He also discussed about the brief history of the converters. He discussed about different types of filters in power converters, semiconductor switches, control circuits (such as microcontroller), feedback components, protection components etc.

Later he discussed about the problems that arises with the battery of electric vehicles. Lastly he talked about the silicon carbide and gallium nitride switches.

At last, Dr. Sarfaraz Nawaz (HOD, EE, SKIT) presented a momento to the guest speaker. In this way, the session lasted for two hours and ended at 02:30 P.M.

## **15. Words of Acknowledgement**

I 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 student's workshop.

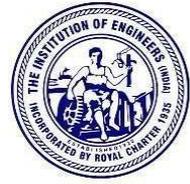
I would like to extend a special thanks to Dr. Sunil Kumar Gupta (Dean R&D, Poornima University, Jaipur) for educating the students about applications of inverters in daily life and their history.

I would also like to thank Dr. S.L. Surana, Director (Academics) and Prof. (Dr.) Ramesh Kumar Pachar, Principal (SKIT) to allow me to execute this workshop in the college campus and for your guidance.

I would also thank to Dr. Sarfarz Nawaz, Head of Electrical Engineering Department, SKIT for consisting contribution in this workshop.

I would also like to thank all the technical and non-technical staff members for providing their valuable time for the successful execution of this workshop.

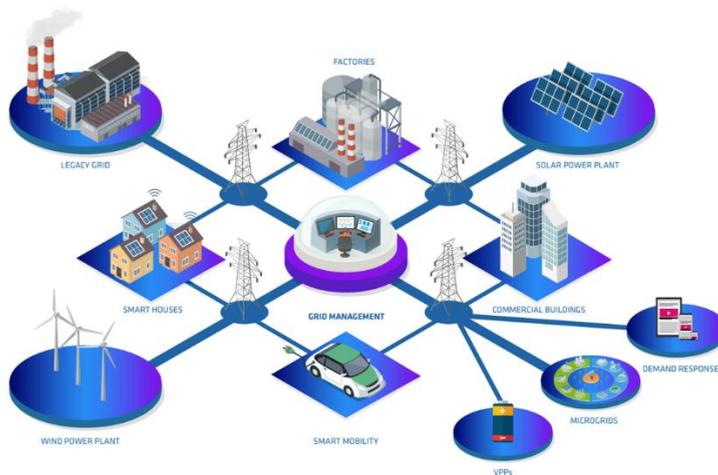
I would also thank to all our participants and students for their participation in this workshop and my best wishes to all the students for their bright future and life.



A  
Report  
on

# Expert Talk on “Smart Grid and Energy Management Automation”

7 March 2024



*Organized by*  
IEI Student Chapter (EE),  
Swami Keshvanand Institute of Technology, Management &  
Gramothan, Jaipur

## **About SKIT: -**

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today, the Institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Ph. D., Postgraduate and Graduate Courses in Engineering and Management.

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 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.

### **Our Inspiration**

**"Mass illiteracy is the root cause behind backwardness of India. If we want speedy progress of nation, we need to root it out as early as possible."**

**– Swami Keshvanand**

## **Vision**

To promote higher learning in advanced technology, management skills and industrial research to make our country a global player.

## **Mission**

To promote quality education, training and research in field of Engineering & management by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

## **Quality Policy**

We are committed to ‘achievement of quality’ as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves. Institute would pursue quality in

- All its endeavours like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.
- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services.”

# Message by SKIT, Jaipur: -



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



31/10/2023

## NOTICE

### EXPERT TALK

This is to inform all V and VII Semester students of Electrical Engineering that the IE(I) Student Chapter (Electrical Engineering) is organizing an Expert Talk on “**Smart Grid and Energy Management Automation**”. The talk will be delivered by **Dr. Ikbal Ali, Professor, Department of Electrical Engineering, Faculty of Engineering and Technology, JMI, New Delhi.**

The faculty members of the department not engaged in teaching work may attend the lecture. Other interested faculty and staff members of the institute are also invited for the same.

Other details are as follows:

**Venue:** 6FL8 (Seminar Hall)

**Day & Date:** Friday, 03/11/2023

**Time:** 9:30-11:00 AM

Dr. Sarfaraz Nawaz

Head, Department of Electrical Engineering

**Copy to:**  
Director,  
Director (Academics),  
Registrar,  
Principal,  
Dean,  
OFA,  
OSA,  
EE Faculty & Students by Circulation, and  
Notice Board (EE Deptt.)

## List of Attendees:

Roll No.	Name of Participants
21ESKEE001	Abhay Verma
21ESKEE002	Abhinav Srivastava
21ESKEE003	Aditya Harsh
20ESKEE009	Aish Khan
20ESKEE012	Akhil Upadhyay
21ESKEE004	Aman Jangid
20ESKEE015	Anjali Thakur
20ESKEE019	Anurag Kumar
21ESKEE008	Arman Mathew
21ESKEE009	Ashish Mahawar
21ESKEE010	Ayush Gaur
21ESKEE011	Badal Saini
21ESKEE012	Bhavya Singh
20ESKEE023	Deepak Kumar Meena
21ESKEE014	Deependra Singh Ranawat
21ESKEE015	Devesh Nagar
21ESKEE016	Devesh Sharma
20ESKEE025	Diksha Sambhariya
20ESKEE028	Divya Chachlani
21ESKEE018	Divya Jain
20ESKEE029	Divyansu Bhartia
20ESKEE030	Dolly Malik
20ESKEE031	Dushyant Kalodia
20ESKEE032	Faisal Mohammad Ganaie
20ESKEE036	Gaurav Tyagi
21ESKEE020	Hardik Verma
21ESKEE021	Harish
20ESKEE041	Harsh Singh Narooka
21ESKEE022	Harshit Sharma
20ESKEE048	Kanhaiya Lal Parsoya
20ESKEE049	Kanika Paliwal
20ESKEE052	Kartik Soni
21ESKEE036	Khwaish Gupta
21ESKEE037	Krati Choudhary
20ESKEE056	Krati Lakhani

20ESKEE057	Kunal Sharma
20ESKEE064	Madhav Mittal
20ESKEE065	Mahi Jain
20ESKEE069	Mohammad Sahil
20ESKEE070	Mohit Chahar
20ESKEE076	Mumal Bhati
20ESKEE077	Mustfa
20ESKEE078	Naman Jain
20ESKEE083	Neeraj Garg
21ESKEE044	Nishchay Parashar
21ESKEE045	Palak
21ESKEE046	Pankaj Kumar Samota
20ESKEE087	Parth Singh Deval
20ESKEE091	Prabuddh Saini
20ESKEE092	Prakhar Saxena
20ESKEE094	Pulkit Gupta
20ESKEE098	Rahul Kumawat
20ESKEE099	Rahul Meena
20ESKEE103	Rajkumar Sain
21ESKEE059	Rakesh Swami
20ESKEE104	Ranjan Kumar Tiwari
21ESKEE060	Rashi Chouhan
20ESKEE108	Rishank Mittal
20ESKEE109	Rishi Sharma
20ESKEE110	Rishiraj Nagar
20ESKEE111	Rituraj Sharma
21ESKEE063	Ronak Kumar
21ESKEE064	Sachin Meena
21ESKEE065	Sagar Kumar Gurjar
21ESKEE066	Sakshya Mawaliya
21ESKEE067	Saloni
21ESKEE068	Sarthak Verma
21ESKEE069	Saurabh Kumar Pushp
21ESKEE070	Shankar Yogi
21ESKEE071	Shivam Gupta
21ESKEE072	Shivam Tiwari
21ESKEE073	Shreyansh Meena

21ESKEE074	Shreyash Sharma
21ESKEE075	Sumit Sarsar
21ESKEE076	Tanu Meena
21ESKEE078	Vipendra Singh
21ESKEE079	Virendra Singh Rathore
21ESKEE080	Vivek Singh

## Glimpses of The Event: -







## **Report of the Event: -**

The Institute of Engineers Student Chapter, Electrical Engineering Department, SKIT organized “Expert talk on “Smart Grid and Energy Management Automation” on Nov. 03, 2023, from 9:30 AM to 11:00 AM by Dr. Ikbali Ali, Professor, Department of Electrical Engineering, JMI, New Delhi. This event was organised under the guidance of Dr. Sarfaraz Nawaz (Head, Deptt. Of EE), Mr. Jitendra Singh (Assistant Professor, Electrical Engineering Dept., SKIT), Mr. Jinendra Rahul (Assistant Professor, Electrical Engineering Dept., SKIT). This event will give you insights of the smart grid and energy management automation. In this event 78 participants were presented. The technical details of the expert talk is as follows:

The traditional electrical grid, while effective in its time, faces numerous challenges in today's world due to increasing energy demands, aging infrastructure, and the need for environmental sustainability. The Smart Grid represents a revolutionary shift, integrating advanced digital technology to enhance the reliability, efficiency, and sustainability of electricity services. Coupled with Energy Management Automation, these systems are transforming how we produce, distribute, and consume energy.

The Smart Grid is an electrical grid enhanced with information and communication technology (ICT) to enable two-way communication between utilities and consumers. This interconnected system comprises smart meters, sensors, and other advanced technologies that provide real-time data and facilitate better decision-making.

Key features of the Smart Grid include:

- Advanced Metering Infrastructure (AMI)
- Grid Automation
- Demand Response
- Integration of Renewable Energy Sources

### **Energy Management Automation**

Energy Management Automation refers to the use of technology to optimize the production, distribution, and consumption of energy. It encompasses various tools and systems designed to reduce energy waste, lower costs, and improve the overall efficiency of energy systems.

### **Components of Energy Management Automation**

Building Energy Management Systems (BEMS)

Industrial Energy Management Systems (IEMS)

Home Energy Management Systems (HEMS)

Automated Demand Response (ADR)

### **Benefits of Smart Grid and Energy Management Automation**

Enhanced Reliability

Improved Efficiency

Environmental Sustainability

Consumer Empowerment

Economic Benefits

### **Challenges and Considerations**

Despite its many benefits, the implementation of Smart Grid and Energy Management Automation systems faces several challenges:

High Initial Costs

Cybersecurity Risks

Regulatory and Standardization Issues

Consumer Engagement

The Smart Grid and Energy Management Automation represent a paradigm shift in the energy sector, offering significant benefits in terms of reliability, efficiency, and sustainability. While there are challenges to overcome, the potential for a more resilient and environmentally friendly energy system makes the investment worthwhile. As technology continues to advance, these systems will play a critical role in meeting the growing energy demands of the future.

### **Signature of Faculty Coordinators: -**



**Mr. Jinendra Rahul**  
Asst. Prof., EE Dept.  
IEISC Coordinator



**Mr. Jitendra Singh**  
Asst. Prof., EE Dept.  
IEISC Coordinator



**Dr. Sarfaraz Nawaz**  
Head, EE Dept.  
SKIT, JAIPUR

SKIT\_IEI/2023/01

Date: 01/11/2023

## NOTICE

### *Quiz Mania*

The Institute of Engineers Student Chapter, SKIT is going to organize “Quiz Mania–Quiz Competition. It is a two days event, provide a memorable experience and indulge creative & technical thinking, observation skills, analytical skills, and other numerous skills in the youth minds for the betterment of the present and future. All the interested student are requested to register to this event.

<b>DATE</b>	07-08 Nov. 2023
<b>TIME</b>	02:30 PM
<b>VENUE</b>	I Round-Online, II Round- 6FL8, Civil Block

**Student Coordinator:** -

**Shreyash Sharma** - 8890830688

**Saurabh Kumar Pushp** - 8955256054

**Faculty Coordinator:** -



Mr. Jinendra Rahul  
Asst. Prof., EE Dept.  
IEISC Coordinator

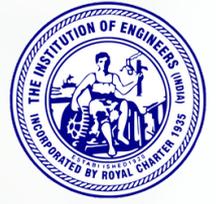


Mr. Jitendra Singh  
Asst. Prof., EE Dept.  
IEISC Coordinator

*Don't miss this golden chance of gaining knowledge about solar plant.*



# IEI STUDENT CHAPTER



presents

# Quiz Mania

## About This Event

- Quiz Mania is a 2-day event organized by IEI Student Chapter, Department of Electrical Engineering, SKIT Jaipur, where we try to provide a memorable experience and indulge creative & technical thinking, observation skills, analytical skills, and other numerous skills in the youth minds for the betterment of the present and future.
- **It is scheduled On 7th November, 2023 (Tuesday) and 8th November, 2023 (Wednesday).**
- It will be held in two rounds:-

### 1) Online round

- The **1st round** will be conducted through a online platform via google form on **7th November, 2023**. Students have to score **minimum 60 percent** marks in 1st round of quiz event to be eligible for receiving a **e-certificate**.

## 2) Offline round

- **10 students** will be shortlisted for the 2nd round (offline round). It will be conducted in **6L8 (Civil Block)** on **8th November, 2023** and winners will be awarded with **prize**.

## General details of the Event

- The 1st and 2nd winner will be rewarded with a winning prize and a certificate of appreciation.
- Timing of the rounds will be shared in Whats App group.
- There will be no registration fees for IE(I) Student chapter members.
- There is a registration fee of Rs. 50 for Non registered members of IE(I) Student Chapter.
- Ten students will be shortlisted for second round will be awarded by printed certificate.

## Faculty Coordinators

Mr. Jitendra Singh  
Mr. Jinendra Rahul

## Student Coordinators

Shreyash Sharma (8890830688)  
Saurabh Kr. Pushp (8955256054)



# IEI STUDENT CHAPTER



Presents

# QUIZ MANIA

Quiz Your Way to Victory!



REGISTER  
YOURSELF



- ₹50/- FEES FOR NON REGISTERED MEMBERS OF IE(I) STUDENT CHAPTER.
- FREE FOR REGISTERD IEI MEMBERS.
- FOR MORE INFORMATION PLEASE GO THROUGH GUIDLINES OF EVENT AVAILABLE IN REGISTRATION FORM.

FOR ANY QUERY

Shreyash Sharma(8890830688)

Saurabh pushp(8955256054)

 [iei\\_skit](https://www.instagram.com/iei_skit)

 [institutionofengineers.sc@skit.ac.in](mailto:institutionofengineers.sc@skit.ac.in)

## Registration Details

S. No.	Name	Email	College ID	Roll Number	Mobile No.	Branch	Student Ch	Year
1	Ashish Mahawar	b210380@skit.ac.in	B210380	21ESKEE009	8005513050	EE	Yes	3 rd
2	Deepak kumar	deepakkumar101205@gmail.com	B220948	22Eskee022	9928559880	EE	Yes	2 nd
3	Tushar Panchal	b220623@skit.ac.in	B220623	22ESKEE073	7878799934	EE	Yes	2 nd
4	Anuj kanchal	b210486@skit.ac.in	B210486	21ESKEE007	8764002087	EE	Yes	3 rd
5	Yashasva Bansal	yashasvaagarwal@gmail.com	B221465	22ESKEE080	6367190687	EE	Yes	2 nd
6	Mahak mayani	mahakmayani@gmail.com	B220729	22ESKEE046	7877790115	EE	Yes	2 nd
7	Sakshya Mawaliya	sakshyamawaliya@gmail.com	B210985	21ESKEE066	8955788524	EE	Yes	3 rd
8	Avinash jain	avinashjain2003@gmail.com	B221008	22ESKEE016	9602197364	EE	Yes	2 nd
9	Naveen Ghosliya	naveenghosliya2003@gmail.com	B210514	21ESKEE041	7627016835	EE	Yes	3 rd
10	Yash mina	B210613@skit.ac.in	B210613	21ESKEE082	6350215722	EE	Yes	3 rd
11	Ankit loyal	ankitloyal.1999@gmail.com	B221332	22ESKEE014	7357836451	EE	Yes	2 nd
12	Ravi Kumar Meena	B211101@skit.ac.in	B211101	21ESKEE061	9772680508	EE	Yes	3 rd
13	Aditya Pareek	Adityapr001@gmail.com	B221165	22ESKEE006	8890146040	EE	Yes	2 nd
14	Mohit Kumar	mohitkumaryogi1@gmail.com	B221157	22ESKEE049	8003241372	EE	Yes	2 nd
15	Roshni Tirthani	roshnitirthani5@gmail.com	B221460	22ESKIT306	7877813303	IT	Yes	2 nd
16	Virendra Singh Rathor	B211107@skit.ac.in	B211107	21ESKEE079	8306640757	EE	Yes	3 rd
17	Vivek Singh	b210257@skit.ac.in	B210257	21ESKEE080	7081760993	EE	Yes	3 rd
18	Abhinav Srivastava	b210261@skit.ac.in	B210261	21ESKEE002	6386394259	EE	Yes	3 rd
19	Shankar yogi	shankaryogi14988@gmail.com	b210473	21ESKEE070	7014802129	EE	Yes	3 rd
20	Shreyansh Meena	B211091@skit.ac.in	B211091	21ESKEE073	8302249030	EE	Yes	3 rd
21	Arpit Sharma	arpitsharma42900@gmail.com	L220008	22ESKEE200	9660415425	EE	Yes	3 rd
22	Shivam Gupta	shivam.is.shivay@gmail.com	B210303	21ESKEE071	9928858146	EE	Yes	3 rd
23	Preeti Gupta	b210460@skit.ac.in	B210460	21ESKEE051	9001817482	EE	Yes	3 rd
24	Priyanshu Sharma	priyanshu10062003@gmail.com	B211085	21ESKEE052	9462775140	EE	Yes	3 rd
25	Arman Mathew	mathewarman2003@gmail.com	B210424	21ESKEE008	8005751074	EE	Yes	3 rd
26	Deependra Singh Rana	b210637@skit.ac.in	B210637	21ESKEE014	8905535231	EE	Yes	3 rd
27	Deependra Singh Rana	b210637@skit.ac.in	B210637	21ESKEE014	8905535231	EE	Yes	3 rd
28	Tarun Kumawat	tarunkumawat1733@gmail.com	B220828	22ESKEE072	9509991733	EE	Yes	2 nd
29	Parag saini	paragsaini75@gmail.com	B211035	21ESKEE047	9829637632	EE	Yes	3 rd
30	Rahul Singh Panwar	rahulpanwar02003@gmail.com	B211079	21ESKEE057	7014659916	EE	Yes	3 rd
31	Sachin Meena	B210701@skit.ac.in	B210701	21EKSEE064	9549304915	EE	Yes	3 rd
32	Ronak Kumar	b210984@skit.ac.in	B210984	21ESKEE063	7597368485	EE	Yes	3 rd
33	Sumit Sarsar	sunitsarsar4@gmail.com	B210688	21ESKEE075	6375798687	EE	Yes	3 rd
34	Vaibhav Kumawat	b221136@skit.ac.in	B221136	22ESKEE075	8529253668	EE	Yes	2 nd
35	Kartikey Nehra	kartikeynehra2021@gmail.com	B210623	21ESKEE033	7014996086	EE	Yes	3 rd

36	Manvish Ghusinga	b221338@skit.ac.in	B221338	22ESKEE047	8852078332	EE	Yes	2 nd
37	MANVISH GHUSINGA	b221338@skit.ac.in	B221338	22ESKEE047	8852078332	EE	Yes	2 nd
38	Dushyant Sharma	dushyantsharma3210@gmail.com	L220036	22eskee201	7878412167	EE	Yes	3 rd
39	Aman Maru	amanmaru107@gmail.com	B210704	21ESKEE005	9694455203	EE	Yes	3 rd
40	Devesh Nagar	b210597@skit.ac.in	B210597	21ESKEE015	7742107127	EE	Yes	3 rd
41	Devesh Sharma	b210596@skit.ac.in	B210596	21ESKEE016	9928887087	EE	Yes	3 rd
42	Vishal Jyani	vjyani02@gmail.com	B221487	22ESKEE078	8769790505	EE	Yes	2 nd
43	Sarthak verma	Sarthakrajwaniya@gmail.com	B210347	21eskee068	9079374731	EE	Yes	3 rd
44	Ajnansns	Ajjanana@gmail.com	833737	Eusjjsjssj	3.83763E+11	ECE	Yes	2 nd
45	Kailash pooniya	kpuniya45@gmail.com	B210594	21ESKEE026	9672816127	EE	Yes	3 rd
46	Aditya harsh	b211007@skit.ac.in	B211007	21ESKEE003	9660219768	EE	Yes	3 rd
47	Mohit Jarwal	<a href="mailto:mohitjarwal012@gmail.com">mohitjarwal012@gmail.com</a>	B210593	21ESKEE040	8824881677	EE	Yes	3 rd
48	Bhavya singh	b210979@skit.ac.in	B210979	21ESKEE012	8905968866	EE	Yes	3 rd
49	Ankita Jangir	B210761@skit.ac.in	B210761	21ESKEE006	9799846664	EE	Yes	3 rd
50	Divya Jain	divyajain40120@gmail.com	B210980	21ESKEE018	8209478217	EE	Yes	3 rd
51	Rahul Gangwal	rahul1gangwal@gmail.com	B211057	21ESKEE055	9983469282	EE	Yes	3 rd
52	Shivam Tiwari	Shivsharma045.2021@gmail.com	B210474	21ESKEE072	9352825423	EE	Yes	3 rd
53	Navin suthar	sutharnavin769@gmail.com	B210423	21ESKEE042	8302179755	EE	Yes	3 rd
54	Mayank jain	mayankjain304021@gmail.com	B220865	22ESKEE048	6375866091	EE	Yes	2 nd
55	Mayank jain	mayankjain304021@gmail.com	B220865	22ESKEE048	6375866091	EE	Yes	2 nd
56	Tarun Kumawat	tarunkumawat1733@gmail.com	B220828	22ESKEE072	9509991733	EE	Yes	2 nd
57	Karan moury	nkmorya2@gmail.com	B211150	21eskee032	9602861362	EE	Yes	3 rd
58	Anuj Tak	anujtak2020@gmail.com	B221446	22ESKEE015	7742318048	EE	Yes	2 nd

## First Round Score Sheet

S. No.	Name	Roll No.	Branch	Contact No.	Score
1	Naveen Ghosliya	21ESKEE041	EE	7627016835	7 / 30
2	Kailash pooniya	21ESKEE026	EE	9672816127	12 / 30
3	Anuj kanchal	21ESKEE007	EE	8764002087	12 / 30
4	Avinash jain	22ESKEE016	IT	9602197364	15 / 30
5	Shivam Tiwari	21ESKEE072	EE	9352825423	15 / 30
6	Sarthak verma	21ESKEEO68	EE	9079374731	15 / 30
7	Mohit Jarwal	21ESKEE040	EE	8824881677	15 / 30
8	Yashasva Bansal	22ESKEE080	EE	6367190687	16 / 30
9	Tushar Panchal	22ESKEE073	EE	7878799934	18 / 30
10	Sumit sarsar	21ESKEE075	EE	6375798687	18 / 30
11	Divya jain	21ESKEE018	EE	8209478217	20 / 30
12	Rahul Gangwal	21ESKEE055	EE	9983469282	21 / 30
13	Arpit Sharma	22ESKEE200	EE	9660415425	22 / 30
14	Shivam Gupta	21ESKEE071	EE	9928858146	23 / 30
15	Devesh Nagar	21ESKEE015	EE	7742107127	23 / 30
16	Deependra Singh Ranaw	21ESKEE014	EE	8905535231	24 / 30
17	Bhavya Singh	21ESKEE012	EE	8905968866	24 / 30
18	Aditya harsh	21ESKEE003	EE	9660219768	24 / 30
19	Kartikey Nehra	21ESKEE033	EE	7014996086	24 / 30
20	Devesh Sharma	21ESKEE016	EE	9928887087	25 / 30
21	Abhinav Srivastava	21ESKEE002	EE	6386394259	25 / 30
22	Preeti Gupta	21ESKEE051	EE	9001817482	25 / 30
23	Arman Mathew	21ESKEE008	EE	8005751074	26 / 30
24	Ashish Mahawar	21ESKEE009	EE	8005513050	26 / 30
25	Shreyansh Meena	21ESKEE073	EE	8302249030	26 / 30
26	Ronak Kumar	21ESKEE063	EE	7597368485	26 / 30
27	Sachin Meena	21ESKEE064	EE	9549304915	26 / 30
28	Karan mourya	21ESKEE032	EE	9602861362	26 / 30
29	Sakshya Mawaliya	21ESKEE066	EE	8955788524	27 / 30
30	Yash mina	21ESKEE082	EE	6350215722	27 / 30
31	Virendra Singh Rathore	21ESKEE079	EE	8306640757	27 / 30
32	Ravi Kumar Meena	21ESKEE061	EE	9772680508	28 / 30
33	Priyanshu Sharma	21ESKEE052	EE	9462775140	28 / 30
34	Shankar yogi	21ESKEE070	EE	7014802129	29 / 30
35	Parag saini	21ESKEE047	EE	9829637632	29 / 30

List of selected participants for Second Round

<b>S. No.</b>	<b>Name</b>	<b>Roll No.</b>	<b>Branch</b>	<b>Year</b>	<b>Score</b>
1	Arman Mathew	21ESKKEE008	EE	3rd	26 / 30
2	Ashish Mahawar	21ESKKEE009	EE	3rd	26 / 30
3	Karan mourya	21ESKKEE032	EE	3rd	26 / 30
4	Parag saini	21ESKKEE047	EE	3rd	29 / 30
5	Priyanshu Sharma	21ESKKEE052	EE	3rd	28 / 30
6	Ravi Kumar Meena	21ESKKEE061	EE	3rd	28 / 30
7	Ronak Kumar	21ESKKEE063	EE	3rd	26 / 30
8	Shankar yogi	21ESKKEE070	EE	3rd	29 / 30
9	Virendra Singh Rathore	21ESKKEE079	EE	3rd	27 / 30
10	Yash mina	21ESKKEE082	EE	3rd	27 / 30



SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,  
MANAGEMENT & GRAMOTHAN, JAIPUR



# Quiz Mania

## CERTIFICATE

OF PARTICIPATION

THIS IS TO CERTIFY THAT

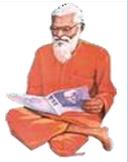
**Arpit Sharma**

has participated in the **Quiz competition**  
**"Quiz Mania"** organized by **IEI Student Chapter, SKIT, Jaipur**  
scheduled from 7th November to 8th November, 2023.

**Dr. Sarfaraz Nawaz**  
Head, EE Dept.  
SKIT, JAIPUR

**Mr. Jitendra Singh**  
Asst. Prof., EE Dept.  
IEISC Coordinator

**Mr. Jinendra Rahul**  
Asst. Prof., EE Dept.  
IEISC Coordinator



## **“Quiz Mania (Quiz Competition 2K23)”**

### **“Report”**

Date: - 08-11-2023

The "Quiz Mania Quiz Competition 2K23" held at 6FL6 (EE Dept.) on 08/11/23 was an exhilarating celebration of knowledge, wit, and friendly competition. Organized by IEI Student Chapter (EE Dept.), the event aimed to engage participants in a battle of intellect and provide a platform for showcasing their quizzing prowess.

The competition attracted a diverse group of participants, including students from various branches of 1st to 3rd Year. 60 participants had registered for this event.

The quiz followed a dynamic format, incorporating two rounds which are:-

1. Online round- The 1<sup>st</sup> round was conducted through a online platform via Google form on one day prior to the main event i.e. on 7<sup>th</sup> November, 2023, at 02:40 PM. The participants were given a time of 30 minutes to solve all the questions. The questions were from technical, non-technical and general knowledge which challenge the participants' breadth of knowledge and ability to think on their feet.
2. Offline round- 10 students were shortlisted for the 2<sup>nd</sup> round. It was held at 6FL6 (EE Dept.) on 8<sup>th</sup> November, 2023. The event commenced at 1:40 PM and the participants were given a time of 20 minutes to solve all the questions. The Offline round covered a wide spectrum of topics, which included technical and general knowledge questions related to their branches.

After a fiercely contested competition, two participants emerged as the triumphant champions, displaying an impressive array of knowledge and their intelligence by scoring the highest marks in the quiz. The first winner Mr. Ronak Kumar and the runner-up Mr. Arman Mathew have received Amazing Prizes. The winners and other noteworthy participants were also acknowledged with certificates. In this way, the event ended at 02:30 P.M.

The " Quiz Mania Quiz Competition 2K23" was not just a competition, it was a celebration of intellectual curiosity and camaraderie. The success of the event was a testament to the dedication of the organizing team, the enthusiasm of the participants, and the support of our faculty coordinators.

We extend our heartfelt gratitude to all participants, sponsors, and attendees who made this event a resounding success. Until next year, may the quest for knowledge continue!

**Organizing team,**

**IEISC Team**

**“Quiz Mania (Quiz Competition 2K23)”**

**Event Glimpses**



SKIT\_IEI/2023/03

Date: 15/12/2023

## NOTICE

### *KYC 3.0*

The Institute of Engineers Student Chapter, SKIT is going to organize “Know Your College 3.0 – The Solar Power Plant Visit” (KYC 3.0). This event will give you the insights of the Solar Power Plants installed in our institution. All the interested student are requested to attend this event.

**Participation certificates will be provided.**

<b>DATE</b>	22 December 2023
<b>TIME</b>	11:00 AM
<b>VENUE</b>	7F:EE-LAB 14 and terrace (Civil Block)

**Student Coordinator: -**

**Shreyash Sharma - 8890830688**

**Saurabh Kumar Pushp - 8955256054**

**Faculty Coordinator: -**



Mr. Jinendra Rahul  
Asst. Prof., EE Dept.  
IEISC Coordinator



Mr. Jitendra Singh  
Asst. Prof., EE Dept.  
IEISC Coordinator

*Don't miss this golden chance of gaining knowledge about solar plant.*

## List of Registered Candidates

S. No.	Univ. Roll No.	Name of Participant	Email	Mobile No.	Year	Branch
1	21ESKEE001	Abhay Verma	av746439@gmail.com	6006075490	III	EE
2	21ESKEE002	Abhinav Srivastava	srivastavaabhinav2910@gmail.com	6386394259	III	EE
3	21ESKEE005	Aman Maru	amanmaru107@gmail.com	9694455203	III	EE
4	21ESKEE006	Ankita Jangir	aktjangid@gmail.com	9799846664	III	EE
5	21ESKEE007	Anuj Kanchal	anujkanchal29@gmail.com	8764002087	III	EE
6	21ESKEE008	Arman Mathew	mathewarman2003@gmail.com	8005751074	III	EE
7	21ESKEE009	Ashish Mahawar	ashish.mahawar018@gmail.com	8005513050	III	EE
8	21ESKEE013	Chirag Parihar	chiragsinghparihar31@gmail.com	7742913163	III	EE
9	21ESKEE016	Devesh Sharma	joshidev062@gmail.com	9928887087	III	EE
10	21ESKEE017	Dipesh Jalwania	dipeshjalwania2001@gmail.com	7727837936	III	EE
11	21ESKEE018	Divya Jain	divyajain40120@gmail.com	8209478217	III	EE
12	21ESKEE019	Divyansh Asopa	dipu28.da@gmail.com	8278685674	III	EE
13	21ESKEE021	Harish	harish05122003@gmail.com	6378717659	III	EE
14	21ESKEE022	Harshit Sharma	harshit18msh@gmail.com	7976111730	III	EE
15	21ESKEE023	Himanshu Choudhary	hc3618838@gmail.com	9783374515	III	EE
16	21ESKEE026	Kailash Pooniya	kpuniya45@gmail.com	9672816127	III	EE
17	21ESKEE027	Kalpith Mathur	kalpit412@gmail.com	8905570437	III	EE
18	21ESKEE028	Kanika Gupta	guptakanika954@gmail.com	9950865843	III	EE
19	21ESKEE029	Kanishk Khandal	kanishkkhandal6165@gmail.com	9587706165	III	EE
20	21ESKEE030	Kanishk Saini	kanishkofficialmgmt@gmail.com	9166666699	III	EE
21	21ESKEE032	Karan Mourya	nkmorya2@gmail.com	9602861362	III	EE
22	21ESKEE033	Kartikey Nehra	kartikeynehra2021@gmail.com	7014996086	III	EE
23	21ESKEE034	Keshav Gautam	keshavgautam202@gmail.com	8824759393	III	EE
24	21ESKEE035	Khushi Nayak	nayakkhushi8078@gmail.com	8094962538	III	EE
25	21ESKEE036	Khwaish Gupta	khwaish72003@gmail.com	8742002500	III	EE

S. No.	Univ. Roll No.	Name of Participant	Email	Mobile No.	Year	Branch
26	21ESKEE037	Krati Choudhary	kratichoudhary6540@gmail.com	9460108967	III	EE
27	21ESKEE040	Mohit Jarwal	mohitjarwal012@gmail.com	8824881677	III	EE
28	21ESKEE041	Naveen Ghosliya	naveenghosliya2003@gmail.com	7627016835	III	EE
29	21ESKEE042	Navin Suthar	sutharnavin769@gmail.com	8302179755	III	EE
30	21ESKEE043	Neeraj Godwal	neerajgodwal198@gmail.com	7976578151	III	EE
31	21ESKEE044	Nishchay Parashar	nishchayparashar2004@gmail.com	9897717032	III	EE
32	21ESKEE045	Palak	palaksihag26@gmail.com	9079145536	III	EE
33	21ESKEE046	Pankaj Kumar Samota	pankajsamota30@gmail.com	8955296550	III	EE
34	21ESKEE047	Parag Saini	paragsaini75@gmail.com	9829637632	III	EE
35	21ESKEE048	Pradeep Badgoti	pradeepbadgoti4@gmail.com	8741029064	III	EE
36	21ESKEE049	Pradeep Singh Rajawat	singh.pradeep998247@gmail.com	7568543740	III	EE
37	21ESKEE050	Pranshul Singh	pranshulsinghmo.ms84@gmail.com	8445451752	III	EE
38	21ESKEE051	Preeti Gupta	guptapreeti3019@gmail.com	9001817482	III	EE
39	21ESKEE052	Priyanshu Sharma	priyanshu10062003@gmail.com	9462775140	III	EE
40	21ESKEE053	Radheshyam Sharma	rohitsharmajii5164@gmail.com	9828019763	III	EE
41	21ESKEE055	Rahul Gangwal	rahul1gangwal@gmail.com	9462520506	III	EE
42	21ESKEE057	Rahul Singh Panwar	rahulsingh02003@gmail.com	7014659916	III	EE
43	21ESKEE059	Rakesh Swami	swamirk6377@gmail.com	9664464697	III	EE
44	21ESKEE060	Rashi Chouhan	rashichouhan241@gmail.com	9079098043	III	EE
45	21ESKEE063	Ronak Kumar	ronakrk261@gmail.com	7597368485	III	EE
46	21ESKEE065	Sagar Kumar Gurjar	sagarsmd12@gmail.com	8209099306	III	EE
47	21ESKEE067	Saloni	garg.saloni583@gmail.com	8875729836	III	EE
48	21ESKEE068	Sarthak Verma	sarthakrajwaniya@gmail.com	9079374731	III	EE
49	21ESKEE070	Shankar Yogi	shankaryogi14988@gmail.com	7014802129	III	EE
50	21ESKEE071	Shivam Gupta	shivam.is.shivay@gmail.com	9928858146	III	EE
51	21ESKEE072	Shivam Tiwari	shivsharma045.2021@gmail.com	9352825423	III	EE
52	21ESKEE075	Sumit Sarsar	sumitsarsar4@gmail.com	6375798687	III	EE
53	21ESKEE076	Tanu Meena	rkmeena75@gmail.com	9413707959	III	EE
54	21ESKEE078	Vipendra Singh	vipendrasingh8283@gmail.com	8003304110	III	EE

<b>S. No.</b>	<b>Univ. Roll No.</b>	<b>Name of Participant</b>	<b>Email</b>	<b>Mobile No.</b>	<b>Year</b>	<b>Branch</b>
55	21ESKEE079	Virendra Singh Rathore	krishnarathore.ksr@gmail.com	9950860757	III	EE
56	21ESKEE082	Yash Mina	yashmeena1020@gmail.com	6350215722	III	EE
57	22ESKEE200	Arpit Sharma	arpitsharma42900@gmail.com	9660415425	III	EE
58	22ESKEE203	Yash Kasliwal	kasliwaly60@gmail.com	8690061812	III	EE

## Attendance List

S. No.	Univ. Roll No.	Name of Participant	Email	Mobile No.	Year	Branch
1	21ESKEE008	Arman Mathew	mathewarman2003@gmail.com	8005751074	III	EE
2	21ESKEE016	Devesh Sharma	joshidev062@gmail.com	9928887087	III	EE
3	21ESKEE018	Divya Jain	divyajain40120@gmail.com	8209478217	III	EE
4	21ESKEE019	Divyansh Asopa	dipu28.da@gmail.com	8278685674	III	EE
5	21ESKEE022	Harshit Sharma	harshit18msh@gmail.com	7976111730	III	EE
6	21ESKEE023	Himanshu Choudhary	hc3618838@gmail.com	9783374515	III	EE
7	21ESKEE027	Kalpith Mathur	kalpit412@gmail.com	8905570437	III	EE
8	21ESKEE028	Kanika Gupta	guptakanika954@gmail.com	9950865843	III	EE
9	21ESKEE030	Kanishk Saini	kanishkofficialmgmt@gmail.com	9166666699	III	EE
10	21ESKEE033	Kartikey Nehra	kartikeynehra2021@gmail.com	7014996086	III	EE
11	21ESKEE035	Khushi Nayak	nayakkhushi8078@gmail.com	8094962538	III	EE
12	21ESKEE036	Khwaish Gupta	khwaish72003@gmail.com	8742002500	III	EE
13	21ESKEE037	Krati Choudhary	kratichoudhary6540@gmail.com	9460108967	III	EE
14	21ESKEE040	Mohit Jarwal	mohitjarwal012@gmail.com	8824881677	III	EE
15	21ESKEE041	Naveen Ghosliya	naveenghosliya2003@gmail.com	7627016835	III	EE
16	21ESKEE043	Neeraj Godwal	neerajgodwal198@gmail.com	7976578151	III	EE
17	21ESKEE045	Palak	palaksihag26@gmail.com	9079145536	III	EE
18	21ESKEE047	Parag Saini	paragsaini75@gmail.com	9829637632	III	EE
19	21ESKEE049	Pradeep Singh Rajawat	singh.pradeep998247@gmail.com	7568543740	III	EE
20	21ESKEE050	Pranshul Singh	pranshulsinghmo.ms84@gmail.com	8445451752	III	EE
21	21ESKEE051	Preeti Gupta	guptapreeti3019@gmail.com	9001817482	III	EE
22	21ESKEE053	Radheshyam Sharma	rohitsharmajii5164@gmail.com	9828019763	III	EE
23	21ESKEE055	Rahul Gangwal	rahul1gangwal@gmail.com	9462520506	III	EE
24	21ESKEE057	Rahul Singh Panwar	rahulsingh02003@gmail.com	7014659916	III	EE
25	21ESKEE060	Rashi Chouhan	rashichouhan241@gmail.com	9079098043	III	EE
26	21ESKEE063	Ronak Kumar	ronakrk261@gmail.com	7597368485	III	EE

<b>S. No.</b>	<b>Univ. Roll No.</b>	<b>Name of Participant</b>	<b>Email</b>	<b>Mobile No.</b>	<b>Year</b>	<b>Branch</b>
27	21ESKEE067	Saloni	garg.saloni583@gmail.com	8875729836	III	EE
28	21ESKEE071	Shivam Gupta	shivam.is.shivay@gmail.com	9928858146	III	EE
29	21ESKEE075	Sumit Sarsar	sumitsarsar4@gmail.com	6375798687	III	EE
30	21ESKEE076	Tanu Meena	rkmeena75@gmail.com	9413707959	III	EE
31	22ESKEE200	Arpit Sharma	arpitsharma42900@gmail.com	9660415425	III	EE
32	22ESKEE201	Dushyant Sharma	dushyantsharma3210@gmail.com	7878412167	III	EE

### Feedback Details

S. No.	Univ. Roll No.	Name of Participant	Year	Branch	Overall, how entertaining was the event?	Overall, how was the content of the event?	After the event, how inspired did you feel?	Do you feel the day provided value for Time?	Any suggestions / Remarks
1	21ESKEE008	Arman Mathew	III	EE	9	9	9	9	Nothing
2	21ESKEE016	Devesh Sharma	III	EE	10	10	10	10	
3	21ESKEE018	Divya Jain	III	EE	9	9	10	10	No
4	21ESKEE019	Divyansh Asopa	III	EE	2	7	1	2	
5	21ESKEE022	Harshit Sharma	III	EE	10	10	10	10	Nice visit
6	21ESKEE023	Himanshu Choudhary	III	EE	9	8	10	9	
7	21ESKEE027	Kalpith Mathur	III	EE	10	10	10	10	
8	21ESKEE028	Kanika Gupta	III	EE	7	9	10	10	
9	21ESKEE030	Kanishk Saini	III	EE	10	9	10	10	No comments
10	21ESKEE033	Kartikey Nehra	III	EE	10	10	10	9	
11	21ESKEE035	Khushi Nayak	III	EE	10	9	9	9	
12	21ESKEE036	Khwaish Gupta	III	EE	7	9	8	6	
13	21ESKEE037	Krati Choudhary	III	EE	9	9	10	10	No it was good
14	21ESKEE040	Mohit Jarwal	III	EE	2	7	1	2	
15	21ESKEE041	Naveen Ghosliya	III	EE	10	10	10	10	
16	21ESKEE043	Neeraj Godwal	III	EE	9	8	10	9	no
17	21ESKEE045	Palak	III	EE	9	10	8	10	
18	21ESKEE047	Parag Saini	III	EE	10	10	9	10	
19	21ESKEE049	Pradeep Singh Rajawat	III	EE	10	10	10	10	

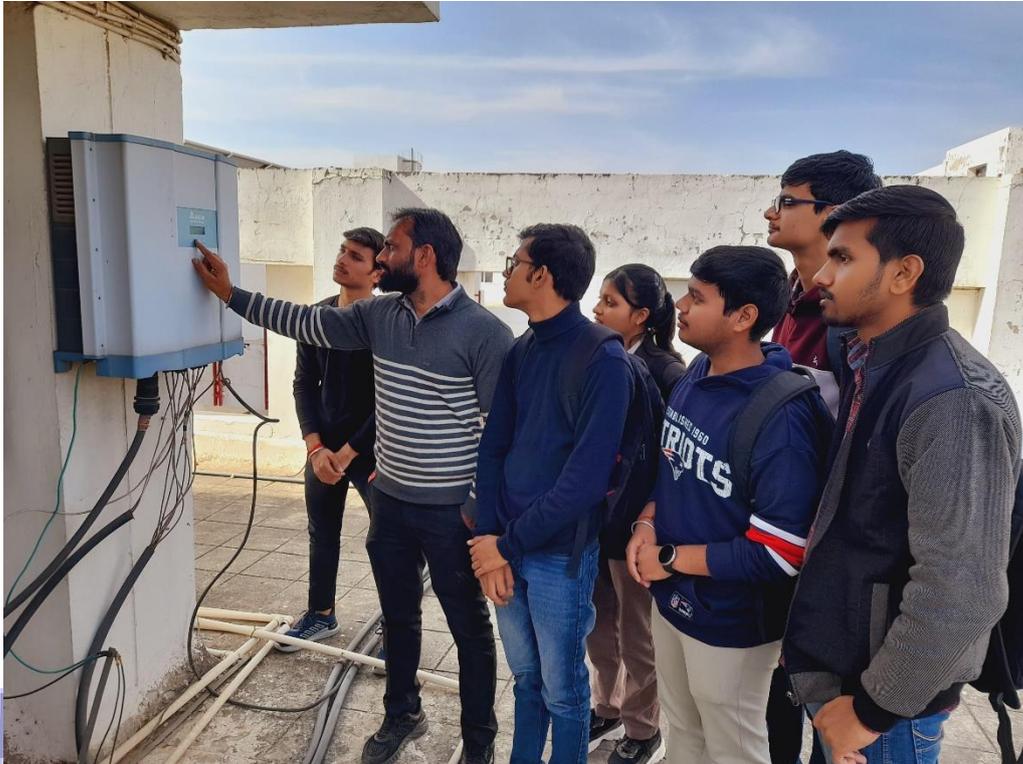
S. No.	Univ. Roll No.	Name of Participant	Year	Branch	Overall, how entertaining was the event?	Overall, how was the content of the event?	After the event, how inspired did you feel?	Do you feel the day provided value for Time?	Any suggestions / Remarks
20	21ESKEE050	Pranshul Singh	III	EE	10	10	10	10	
21	21ESKEE051	Preeti Gupta	III	EE	10	10	9	10	It was good
22	21ESKEE053	Radheshyam Sharma	III	EE	10	10	10	9	No
23	21ESKEE055	Rahul Gangwal	III	EE	8	9	8	8	No
24	21ESKEE057	Rahul Singh Panwar	III	EE	6	4	5	4	
25	21ESKEE060	Rashi Chouhan	III	EE	10	10	10	10	
26	21ESKEE063	Ronak Kumar	III	EE	9	8	9	8	
27	21ESKEE067	Saloni	III	EE	8	10	9		
28	21ESKEE071	Shivam Gupta	III	EE	8	8	9	7	Nice event
29	21ESKEE075	Sumit Sarsar	III	EE	9	8	2	1	
30	21ESKEE076	Tanu Meena	III	EE	10	7	6	6	
31	22ESKEE200	Arpit Sharma	III	EE	7	10	5	8	good
32	22ESKEE201	Dushyant Sharma	III	EE	10	10	9	9	Nice visit

**INSTITUTION OF ENGINEERS STUDENT CHAPTER**

**Photos**

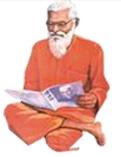


**INSTITUTION OF ENGINEERS STUDENT CHAPTER**





**SWAMI KESHWANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN, JAGATPURA, JAIPUR**

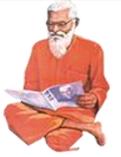


**INSTITUTION OF ENGINEERS STUDENT CHAPTER**

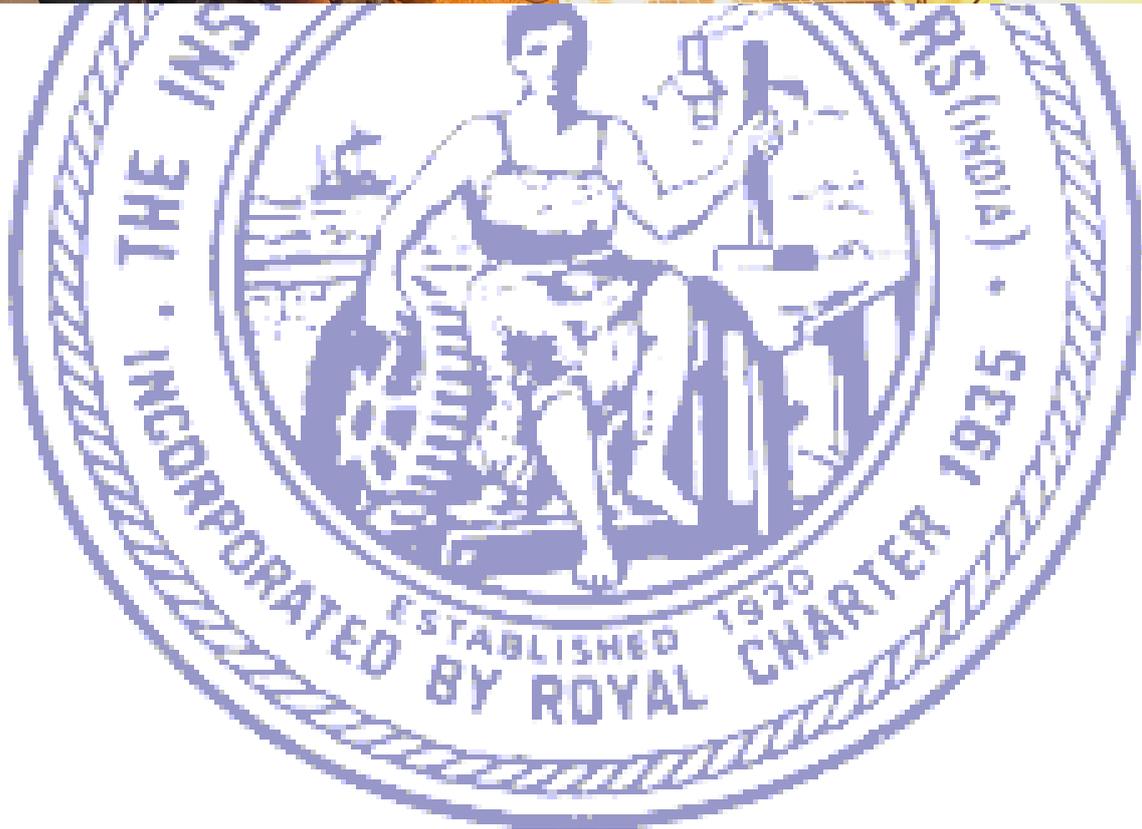




**SWAMI KESHWANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN, JAGATPURA, JAIPUR**



**INSTITUTION OF ENGINEERS STUDENT CHAPTER**





## **“Report on KYC 3.0”**

**Date: 22/12/2023**

The Institute of Engineers Student Chapter, Electrical Engineering Department, SKIT organized “Know Your College 3.0 – The Solar Power Plant Visit” (KYC 3.0) on Dec. 22, 2023, from 11:00 AM to 2:00 PM. This event was organised under the guidance of Mr. Jitendra Singh (Assistant Professor, Electrical Engineering Dept., SKIT), Mr. Jinendra Rahul (Assistant Professor, Electrical Engineering Dept., SKIT) and technical support provided by Mr. Banshi Lal (Technical Assistant, Electrical Engineering Dept., SKIT). It was a visit of Solar Power Plant visit installed on the terrace of SKIT. This event will give you the insights of the Solar Power Plants installed in our institution. In this event 58 participants were registered. These participants were divided into different batches.

The event begins from the Energy system lab (7F:EE-Lab14), here, faculty gave information about the solar power plant and solar energy to all the attendees. Students also got the knowledge about the various measurements in PV system. After getting the knowledge of all around PV system, students visited the 400 kW rooftop solar power plant at SKIT M&G, Jaipur. Here, Students got an insight about the construction of solar panel, energy produced by it, costing of panel, efficiency of panel, generation process of energy, types of solar plant installation, equipment used for better performance of panel, the connections being done, metering is being done, capacity of panel, benefits of solar panel and energy, measures taken for care of panel. They also got to know about the production capacity of college premises, costing of solar plant installation in premises, and how is institute benefitted.

In the last, attendees filled feedback form and thanked the Student Chapter for the conduction of (KYC 3.0) . In this way, the event lasted up to 2:30 PM.



A Report on

# Project Expo

7 March 2024



*Organized by*

IEI Student Chapter (EE),

Swami Keshvanand Institute of Technology, Management &  
Gramothan, Jaipur

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## **1. About SKIT: -**

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today, the Institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Ph. D., Postgraduate and Graduate Courses in Engineering and Management.

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 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.

### **Our Inspiration**

**"Mass illiteracy is the root cause behind backwardness of India. If we want speedy progress of nation, we need to root it out as early as possible."**

**– Swami Keshvanand**

## **Vision**

To promote higher learning in advanced technology, management skills and industrial research to make our country a global player.

## **Mission**

To promote quality education, training and research in field of Engineering & management by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

## **Quality Policy**

We are committed to ‘achievement of quality’ as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves. Institute would pursue quality in

- All its endeavours like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.
- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services.”

## 2. Message by SKIT, Jaipur: -



**SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN, JAGATPURA, JAIPUR**



**Institution of Engineers India, Student Chapter**

**SKIT\_IEI/2024/NA01**

**Date:24/02/2024**

## **NOTICE**

### ***PROJECT EXPO***

The Institute of Engineers Student Chapter, SKIT is going to organize a "Project Expo." It is a platform which will help to unleash the potential of the students. It is scheduled on 7th March, 2024 at SKIT, Jaipur from 10:00 A.M. to 3:00 P.M. It will be held in two rounds: - Shortlist Round and Expo Round.

**Participation Certificates will be provided to all who qualified for the Expo Round.**

<b>DATE</b>	7th March, 2024
<b>TIME</b>	10:00 A.M. to 3:00 P.M.
<b>VENUE</b>	SKIT, Jaipur

**NOTE** – Interested students can fill the online form and scan the QR code for participation.

### **Student Coordinator:-**

Yash Soni - 7014310742  
Vanshika Nirwan - 9352308607



### **Faculty Coordinator: -**

Mr. Jinendra Rahul  
Asst. Prof., EE Dept.  
IEISC Coordinator

Mr. Jitendra Singh  
Asst. Prof., EE Dept.  
IEISC Coordinator

*Don't miss this golden opportunity to get inspired.*

### 3. Committee for the Event: -

#### **FACULTY COORDINATOR**

Dr. Sarfaraz Nawaz, Head  
Mr. Jitendra Singh, Assistant Professor  
Mr. Jinendra Rahul, Assistant Professor  
(Department of Electrical Engineering)

#### **STUDENT COORDINATOR**

Yash Soni (IV Year)  
Vanshika Nirwan (IV Year)

#### **TEAM**

Mr. Shreyash Sharma  
Mr. Ashish Mahawar  
Mr. Devesh Sharma  
Mr. Aman Janjid  
Mr. Naveen Ghosliya  
Mr. Kanishk Khandal  
Mr. Saurabh Kumar Pushp  
Mr. Yash Kasliwal  
Mr. Praddep Singh Rajawat  
Mr. Yash Saini  
Mr. Yathartha Solanki  
Ms. Mumal Bhati

#### 4. Details of the Event: -

## Event Overview

IE(I) Student Chapter, Department of Electrical Engineering is privileged to organize a Project Expo. Project Expo is a platform that will help to unleash the potential of the students. The main objective of the Project Expo is to bring out the student's innovation.

The Project Expo is scheduled on 07th March, 2024 at SKIT Jaipur from 10 A.M. to 3 P.M. It will be held in two rounds: -

### 1.Shortlist Round

This round is conducted through an online platform via Google Forms. Based on your project details, the project will be shortlisted for the Expo Round before 04th March, 2024.

Registration form link for Shortlist round -

<https://forms.gle/yVusGq8doF9DZUnXA>

### 2.Expo Round

In this round, the shortlisted teams get a chance to showcase their project in the Project Expo at SKIT, Jaipur on 07th March, 2024.

## Registration Details

- Payment of Rs. 100 per person for shortlisted teams only, for both online and offline mode.
- Payment screenshot has to be uploaded in the registration form.

### Note:

- Participation certificate will be given to all registered students for the expo round.
- Participants should bring all the necessary equipment required for the proper demonstration and execution of their project model.
- The decision of the judges is final and binding.
- The event will be held in hybrid mode (i.e. both online and offline mode).
- Online mode will be applicable for the students of outside Jaipur city only.

## Guidelines

- Each team must have a minimum of 2 and a maximum of 4 members.
  - The team leader has to register on behalf of the group and mention the names of the rest of the members in the Google form for the event.
  - The last date to register for the 1st round via Google form is 04<sup>th</sup> March.
  - The team that is shortlisted for the second round has to pay Rs.100 per person as the registration fee, for both mode.
  - The competition is open to diploma, undergraduate, and postgraduate students only.
- All the participants must carry student ID cards.
- A team member can participate in only one project exhibit.

# Rules & Regulations

## Offline mode:-

- The project must be displayed and demonstrated at the venue in the given time slot.
- Only working models are accepted.

## Online mode:-

- The project must be displayed and demonstrated in a 2 min video by the team members.
- Then the team leader will upload this video on the given link.
- On the basis of project quality, the jury members will select one of the best projects from all uploaded videos.
- The results of the online mode will be announced on 09<sup>th</sup> March.
- The winning amount will be sent to the team leader's account number.
- Certificates of all members will be sent to the college address of the team.

**For More Queries, Contact:**

**Yash Soni**

**7357762906**

**Vanshika Nirwan**

**9785347804**

5. Poster of the Event: -



Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur



IE(I) Student Chapter  
Department of Electrical Engineering  
Organizes



A National level



# PROJECT EXPO '24

(Hybrid Mode)  
(Pre Pravah Event)

For Hardware Projects Only

Sponsored By:



**ENGINEERS ACADEMY**<sup>®</sup>  
Your GATEway to Professional Excellence  
IES • GATE • PSUs • JTO • IAS • NET

**MARCH 7<sup>th</sup>**

For Registrations,  
scan here



**PRIZES  
WORTH  
₹ 20K**

**Faculty Coordinators**  
Dr. Sarfaraz Nawaz  
Mr. Jinendra Rahul  
Mr. Jitendra Singh

**For any query contact :**  
Yash Soni: 7357762906  
Vanshika Nirwan: 9785347804

For more details visit : [www.skit.ac.in](http://www.skit.ac.in)

6. Banner of the event:-

**SKIT**  
असतो मा सद्गमय

Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur

THE INSTITUTION OF ENGINEERS  
INDIA  
INCORPORATED BY ACT OF PARLIAMENT  
1947

A National level

**PROJECT**

**EXPO 2024**

(Pre Pravah Event)

7<sup>th</sup> MARCH

Sponserd by

**MADE EASY**  
India's Best Institute for IES, GATE & PSUs

SKIT,  
JAIPUR

Organized by  
IE(I) Student Chapter & Department of Electrical Engineering

## 7. Expenses of the Event: -

**Name of Event: Project Expo-2024**

**Date of Event: 7 March 2024**

<b>S. No.</b>	<b>Bill No.</b>	<b>Details</b>	<b>Amount (₹)</b>
1		Honorarium to Judges	5000
2		Cash Award to Winners	5500
3		Printing, Memento & Stationary Items	7000
4		Food Packets for participants and	5500
5		Miscellaneous Items	4000
<b>Total:</b>			<b>27000</b>

## 8. List of Registered Candidates: -

S. No.	Team Members Name	Name of College with Address	Project Title
1	Krati Lakhani, Kanishk Pratap Singh Rathore, Kartik Soni, Dushyant Kalodia, Karan Vashishth	SKIT Jagatpura, Jaipur	Smart Solar Grass Cutter with lawn coverage
2	Anjali Thakur, Akhil Upadhyay, Abhishek Chandel, Akshat Jinakar	SKIT, Jagatpura	Railway track crack detection
3	Aditi, Tanisha, Kiran, Ashi	Hindustan College of Science and Technology	Production of organic soap by using natural ingredients
4	Mr. Dishan Khandal , Mr. Harsh Jagwani , Mr Gaurav Sharma	Poornima College of Engineering, Sitapura , Jaipur	LED CUBE
5	Piyush Kumar Rathi Pulkit Tiwari Rohit Sharma	Skit Jaipur	Third harmonic less inverter
6	Satyanand Kandela. Sandeep Kumar Yadav. Sourabh Saharan Sarla Choudhary. Sachin Yadav	Swami Keshvanand Institute of Technology Management and Gramothan Jaipur	Generation of Electricity ny Biodegradable Waste
7	Saarthak Chopra	SKIT, Jaipur	Building components and it's reinforcement details
8	Ajay Saroch , Ashwini Singh, Asad Ali, Adnan Khan, Kavita Sharma	SKIT, Jaipur	Multipurpose Agriculture machine
9	Vishal Verma, Devendra Kerwal, Vishal Chaudhary, Yuvraj Pandit	Swami Keshvanand Institute of Technology Management and Gramothan, Ramnagar, Jagatpura, Jaipur	Solar power Quadcopter drone
10	Harsh Kumar, Priyanshu Soni, Rajeev Kumar Bag, Avinash Kumar	Poornima College of Engineering, ISI-6 RIICO Industrial Area, Sitapura Jaipur 302022	RFID Door Lock and Unlock system
11	Manshu Sharma	Poornima University	Fire fighter car robot
12	Ajay Nagar, Sourabh Jangir	Poornima University, Jaipur	IoT- Based Soil Analysis for Infrastructure Development
13	Reetika Kalakar, Aman Meena, Ayush Sharma	Poornima University, Jaipur	Flow Sensor - IoT Based Water Flow Measurement System
14	Rishi Sharma, Ranjan Kumar Tiwari, Raj Kumar Sain, Parth Singh Deval	Swami Keshvanand Institute of Technology Jagatpura Jaipur	An intensive approach to reduce range anxiety of electric vehicles by calibrating weight factor.

15	Prem Kumawat, Jitendra Shekawat	Poornima Univer	affordable cnc plotter
16	Balveer Singh	Poornima University, Plot No. Is-2027-2031, Ramchandrapura P.O. Vidhani Vatika Road Sitapura, Rajasthan 303905	Affordable Drone
17	Ravi Kumar, Pulkit Baroda, Priyanshu Sharma	Poornima College Of Engineering, Jaipur Sitapura 302022	Electricity generating footwear
18	Getzial Anbumani, Barnali Mukharjee, Helen Cecilia Mary, Srihari	Hindustan Institute of Technology and Science	Password Based door lock system
19	Aditya Rawat, Aesha Suthar	Swami Keshwanand Institute of Technology M&G, Jaipur Rajasthan	Cost Effective Pure Sine Wave Portable Inverter
20	Himank Sharma, Deepanshi Jain, Banshika Sharma, Harshit Gupta	Poornima College Of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur	SmartLink: Intelligent Home Control Center
21	Sachin Singh Rawat, Rishabh Matoliya	Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT)	surveillance car robot car
22	Sarthak, Ronit, Abhinav	Manav Rachna University Faridabad	SMARY CAR PARKING SYSTEM USING ARDUINO
23	D. Shyam Sai Prasad, Pothuganti Sahithya, M.Vardhan	Manav Rachna International Institute of Research and Studies, Faridabad, Haryana 121003	IoT Smart Boat for Enhanced Pond Fishing Using ESP32 CAM and Environmental Sensors
24	Avinash, Harsh, Priyanshu, Rajeev	Poornima College Of Engineering ISI-6 RIICO Industrial Area, Sitapura Jaipur 302022	Fire fighter robo
25	Navya Sharma, Mahi Jain, Mandeep Hingonia, Neeraj Garg	Swami Keshvanand Institute Of Technology, Jaipur	IOT Based health Monitoring System
26	Getzial Anbumani, Barnali Mukharjee, Helen Cecilia Mary, Srihari	Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur.	SCAR (Solar Cleaner Autonomous Robot)
27	Vibhansh Jain, Mayank Gupta, Ameen Zehra, Aditya Sharma	Swami Keshvanand Institute of Technology Management and Gramothan	Smart Cradle with enhanced security system
28	Siddharth Rao, Krishna Nand Sharma, Suraj Sharma, Nikhil Sharma	Poornima University, Ramchandrapura, P.O. Vidhani Vatika, Sitapura Extension, Jaipur, Rajasthan	Sensor Based gas leakage detector system

29	Shreejeet Karmakar, Gaurav Singh, Shachin Yadav, Mohit Sharma	Poornima University, Ramchandrapura, Sitapura	Development of a Spy Camera Robot for Surveillance Applications
30	Praful Kumar, Devraj Kumar, Ramesh Chaudhary, Chandveer Singh	Poornima University Sitapura Jaipur	Line following and obstacle avoidance with Bluetooth control robot
31	Kashish Jangid, Shikhar Gupta, Yash Chauhan	Poornima University, Plot No. Is-2027-2031, Ramchandrapura P.O. Vidhani Vatika Road Sitapura, Rajasthan 303905	Metal Detecting Robot
32	Gaurav, Ishan, Gaurang, Kavish	Skit College, Jaipur	Automatic railway gate controller with Arduino
33	Navadeep, Rohan Sai	Manipal University Jaipur, Rajasthan, Jaipur, Bagru	Water management system
34	Somu Ganesh Reddy	Muthayammal Engineering College	E-bike speed controlling system STM32
35	Aniket Khandelwal, Ananya Chattarjee, Aanchal Toshawar	Poornima University, Sitapura, Jaipur (302022)	Tapguard
36	Viransh Pradhan And Navyanshi Joshi	Poornima University, Sitapura, RIICO INDUSTRIAL AREA JAIPUR, RAJASTHAN	Visual Firefighting robot
37	Pooja Bharia, Yogesh Singh Shekhawat	Poornima University, Vidhani Vatika, 303905, Jaipur	Enhanced Connectivity in Automotive Environments
38	Aditya Raj Singh Ranawat, Akash Mahawar and Aditya Modi	Poornima College Of Engineering, RICCO Industrial Area, Sitapura, Jaipur	EnvioCure Innovators: Botanical Wellness Monitoring System
39	Sumit Jangir, Sudhanshu Saini, Priyanshi Jain, Ritu Ojha	Poornima College Of Engineering Jaipur	Smart door lock system
40	Astha Gaur	Poornima University, Vidhani , Jaipur	Bluetooth Control Fire Fighting Robot
41	Vivek Sharma, Sakshi Swami, Naveen Nainiwal, Harsh Agarwal	Poornima University, Plot No. Is-2027-2031, Ramchandrapura P.O. Vidhani Vatika Road Sitapura, Rajasthan 303905	Plant Monitoring System using GSM module
42	Kartik Verma, Siddhi Saini, Payaswini Chandela, Riya Gupta,	Poornima College of Engineering, Sitapura, Jaipur.	Smart Fan
43	Shankar Kumar, Sarthak Mangal, Sahil Agarawal , Kartik Verma	Poornima College Of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022	DECODING CLOCK

<b>44</b>	Aswin Arunkumar, Herschelle Thomas, Aditya Wadje, Nitin Jangir	Malviya National Institute of Technology, Jaipur, 302017	Basanti
<b>45</b>	Mahaveer Jeengar, Divyansh Ramola, Kushal Gajjar, Shubh Chordia	Malviya National Institute of Technology, Jaipur, 302017	Quadruped Spider
<b>46</b>	Rohit Mahawar, Shailza Agarwal, Raj Kumar Meena	Anand International College Of Engineering Jaipur, Agra Road Jaipur	Radio controlled car for precise shooting
<b>47</b>	Abhishek Mahawar, Ayushi Agrawal	Anand International College of Engineering Jaipur	Robotic Gripper Arm

## 9. List of teams selected for Expo Round:-

S. No..	Team Members Name	Name Of College with Address	Project Title
1	Naresh Swami, Ishika Jain, Manoj Seervi	Poornima College Of Engineering	Alcoguard Drive
2	Abhishek Chandel, Akshat Jinakar	SKIT, Jagatpura	Railway Track Crack Detection
3	Mr. Dishan Khandal, Mr. Harsh Jagwani, Mr Gaurav Sharma	Poornima College Of Engineering, Sitapura , Jaipur	Led Cube
4	Vivek Sharma, Sakshi Swami, Harsh Agarwal	Poornima University, Plot No. Is-2027-2031, Ramchandrapura P.O. Vidhani Vatika Road Sitapura, Rajasthan 303905	Plant Monitoring System Using GSM Module
5	Satyanand Kandela. Sandeep Kumar Yadav. Sourabh Saharan, Sarla Choudhary. Sachin Yadav	Swami Keshvanand Institute of Technology Management and Gramothan Jaipur	Generation of Electricity By Biodegradable Waste
6	Saarthak Chopra	Skit Jaipur	Building Components and It's Reinforcement Details
7	Ajay Saroch, Ashwini Singh, Asad Ali, Adnan Khan, Kavita Sharma	Skit, Jaipur	Multipurpose Agriculture Machine
8	Vishal Verma, Devendra Kerwal, Vishal Chaudhary, Yuvraj Pandit	Swami Keshvanand Institute Of Technology Management And Gramothan, Ramnagaria Jagatpura,Jaipur	Solar Power Quadcopter Drone
9	Ajay Nagar, Sourabh Jangir	Poornima University, Jaipur	Cost Effective Pure Sine Wave Portable Inverter
10	Reetika Kalakar, Aman Meena, Ayush Sharma	Poornima University, Jaipur	Flow Sensor - IOT Based Water Flow Measurement System
11	Rishi Sharma, Ranjan Kumar Tiwari, Raj Kumar Sain, Parth Singh Deval	Swami Keshvanand Institute of Technology Jagatpura Jaipur	An Intensive Approach to Reduce Range Anxiety Of Electric Vehicles By Calibrating Weight Factor.
12	Abhay Kashyap, Nitin Sharma, Mahipal Singh, Astha Gaur	Poornima University, Ramchandra Pura,Sitapura Extension Vidhan Jaipur	Self-Driving Car/ Driving Assistance
13	Aditya Rawat, Aesha Suthar, Manish Singh	Swami Keshwanand Institute of Technology M&G, Jaipur Rajasthan	Cost Effective Pure Sine Wave Portable Inverter
14	Himank Sharma, Deepanshi Jain, Banshika Sharma, Harshit Gupta	Poornima College Of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur	Smartlink: Intelligent Home Control Center

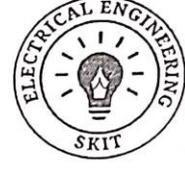
15	Sachin Singh Rawat, Rishabh Matoliya	Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT)	Surveillance Car Robot Car
16*	Avinash, Harsh, Priyanshu, Rajeev	Poornima College Of Engineering ISI-6 RIICO Industrial Area, Sitapura Jaipur 302022	Fire Fighter Robo
17	Navya Sharma, Mahi Jain, Mandeep Hingonia, Neeraj Garg	Swami Keshvanand Institute Of Technology, Jaipur	IOT Based Health Monitoring System
18	Vibhansh Jain, Mayank Gupta, Ameen Zehra, Aditya Sharma	Swami Keshvanand Institute of Technology Management and Gramothan	Smart Cradle with Enhanced Security System
19	Siddharth Rao, Krishna Nand Sharma	Poornima University, Ramchandrapura, P.O. Vidhani Vatika, Sitapura Extension, Jaipur, Rajasthan	Sensor Based Gas Leakage Detector System
20	Manshu Sharma, Vasu Garg	Poornima University, Plot No. Is-2027-2031, Ramchandrapura P.O. Vidhani Vatika Road Sitapura, Rajasthan 303905	Affordable Drone
21	Prem Kumawat, Jitendra Singh Shekawat	Poornima University, Plot No. Is-2027-2031, Ramchandrapura P.O. Vidhani Vatika Road Sitapura, Rajasthan 303906	Affordable Cnc Plotter
22	Shreejeet Karmakar, Gaurav Singh, Shachin Yadav, Mohit Sharma	Poornima University, Ramchandrapura, Sitapura	Development of A Spy Camera Robot For Surveillance Applications
23	Praful Kumar, Devraj Kumar, Ramesh Chaudhary, Chandveer Singh	Poornima University Sitapura Jaipur	Line Following and Obstacle Avoidance with Bluetooth Control Robot
24	Yash Chauhan, Mr., Sudhanshu Sharma	Poornima University, Plot No. Is-2027-2031, Ramchandrapura P.O. Vidhani Vatika Road Sitapura, Rajasthan 303905	Metal Detecting Robot
25	Dipesh Dour, Avinash Jain	Skit, Jaipur	Automatic Railway Gate Controller with Arduino
26	Navadeep, Rohan Sai	Manipal University Jaipur, Rajasthan, Jaipur, Bagru	Water Management System
27	Aniket Khandelwal, Ananya Chattarjee, Aanchal Toshawar	Poornima University, Sitapura, Jaipur (302022)	Tapguard
28*	Viransh Pradhan And Navyanshi Joshi	Poornima University, Sitapura, RIICO INDUSTRIAL AREA JAIPUR, RAJASTHAN	Visual Firefighting Robot
29	Mohit Soni	Skit, Jaipur	Bipedal Walking Robot
30	Aswin Arunkumar, Herschelle Thomas, Aditya Wadje, Nitin Jangir	Malviya National Institute of Technology, Jaipur, 302017	Basanti

<b>31</b>	Mahaveer Jeengar, Divyansh Ramola, Kushal Gajjar, Shubh Chordia	Mahaveer Jeengar, Divyansh Ramola, Kushal Gajjar, Shubh Chordia	Quadruped Spider
<b>32</b>	Rohit Mahawar, Shailza Agarwal,Raj Kumar Meena	Anand International College of Engineering Jaipur,Agra Road Jaipur	Radio Controlled Car for Precise Shooting
<b>33</b>	Abhishek Mahawar, Ayushi Agrawal	Anand International College of Engineering Jaipur	Robotic Gripper Arm

## 10. List of winning teams in Expo Round:-

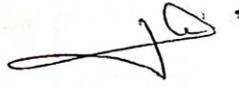


Swami Keshvanand Institute of Technology, Management &  
Gramothan, Jaipur  
Department of Electrical Engineering  
विद्युत् अभियंत्रिकी विभाग



## PROJECT\_EXPO-2024

Prize	Project Title and ID	College Name
Winner	Quadruped spider (131)	MNIT Jaipur
Ist Runner Up	IOT Based Health Monitoring System (117)	SKIT Jaipur
Ist Runner Up	Water management and water automation (123)	Manipal University, Jaipur
II Runner Up	Smart Link: Intelligent Home Control Center (114)	Poornima College Of engineering
II Runner Up	Affordable CNC plotter	Poornima University
Special Attraction	Radio control shooting robo car	Anand international college of engineering jaipur

  
Vijay Kumar Soren  
(DST Jaipur)

  
Dr. Sarfaraz Nawaz  
(Head, E-E)

  
Dr. Pankajendra  
(Professor - EE)  
JKLU Jaipur

## 11. Glimpses of The Event: -





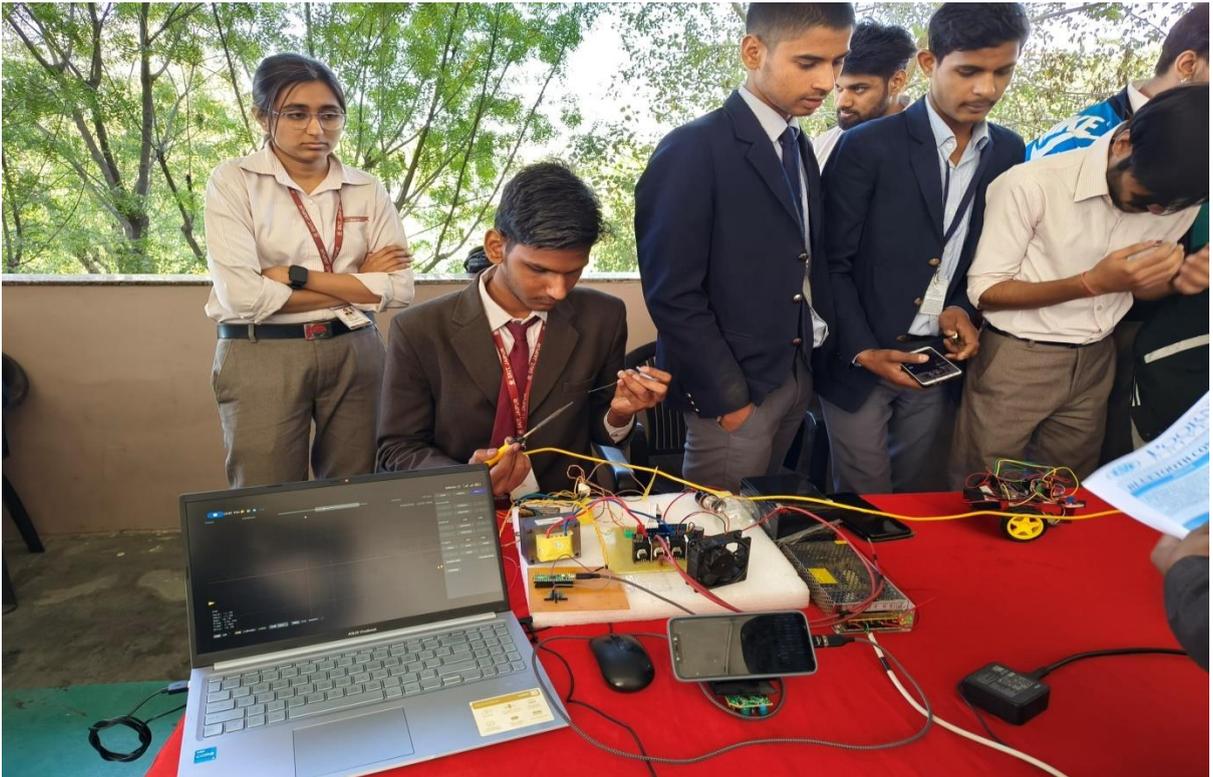






















## 12. Group photo of the event





### 13. Sample Copy of Participants Certificate:



### 14. Sample Copy of Coordinator Certificate:



## 15. News of Event:-

### प्रोजेक्ट एक्सपो में दिखे इंजीनियरिंग इनोवेशन



जयपुर @ पत्रिका प्लस. स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी इलेक्ट्रिकल इंजीनियरिंग विभाग के आईई (आई) छात्र चैप्टर की ओर से 'प्रोजेक्ट एक्सपो- 2024' का आयोजन किया गया। इसमें विभिन्न इंजीनियरिंग कॉलेजों के स्टूडेंट्स ने तीन दर्जन से अधिक प्रोजेक्ट प्रस्तुत किए। इसमें हार्डवेयर, आईटी बेस्ड, एआई समेत विभिन्न सेगमेंट्स से प्रोजेक्ट्स स्टूडेंट्स ने एजीबिट किए। एक्सपो कोर्डिनेटर डॉ. सरफराज नवाज ने बताया कि स्टूडेंट्स ने बेहतर प्रोजेक्ट प्रस्तुत किए। सहायक प्रोफेसर जिनेन्द्र राहुल और जितेन्द्र सिंह ने स्टूडेंट्स का कोर्डिनेशन किया।

### एसकेआईटी में अनलीशिंग इनोवेशन: प्रोजेक्ट एक्सपो 2024 का आयोजन



जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनजमेंट एंड एंटरप्राइज (एसकेआईटी) जयपुर के इलेक्ट्रिकल इंजीनियरिंग विभाग के आईई (आई) छात्र चैप्टर को राष्ट्रीय स्तर पर 'प्रोजेक्ट एक्सपो - 2024' का आयोजन करने का अवसर मिला। यह छात्रों के लिए अपने प्रोजेक्ट्स को प्रदर्शित करने का बेहतरीन अवसर था और शिक्षक कोर्सेजों के कई छात्रों ने ध्यान दिया। इस अवसर पर शोभा समर्थिता गुजरा अतिथि डॉ. विजय सुक्सेना सहयोग और विशिष्ट अतिथि प्रो. पुष्पेन्द्र सिंह ने रक्षा। कार्यक्रम की देशभक्ति संस्कार समन्वयक डॉ. सारफराज नवाज (प्रमुख, आई विभाग, एसकेआईटी), श्री जितेन्द्र राहुल (सहायक प्रोफेसर, आई विभाग, एसकेआईटी), और श्री जितेन्द्र सिंह (सहायक प्रोफेसर) के मार्गदर्शन में की गई। डॉ. विजय, विजय अतिथियों ने राष्ट्रीय प्रतियोगिता से गुजरने वाली और उनकी प्रोजेक्ट्स को प्रदर्शित करने का अवसर मिला और कार्यक्रम के अंत में सभी प्रोजेक्ट्स को प्रदर्शित करने का अवसर मिला। 'प्रोजेक्ट एक्सपो 2024' के विजेताओं को 20,000 रुपये के पुरस्कार से सम्मानित किया गया।

## प्रोजेक्ट एक्सपो में दिखे इंजीनियरिंग इनोवेशन

जयपुर(सीमा सन्देश)। एसकेआईटी के आईई (आई) छात्र चैप्टर की ओर से राष्ट्रीय स्तर पर 'प्रोजेक्ट एक्सपो-2024' का आयोजन गुरुवार को किया गया। आयोजन में शहर के विभिन्न इंजीनियरिंग कॉलेजों के विद्यार्थियों ने तीन दर्जन से अधिक प्रोजेक्ट प्रस्तुत किये। इसमें हार्डवेयर, आईटी आधारित, एआई सहित विभिन्न प्रोजेक्ट शामिल थे। एक्सपो कोर्डिनेटर डॉ. सरफराज नवाज ने



बताया कि विद्यार्थियों ने विशेषज्ञों के मार्गदर्शन में उम्दा प्रोजेक्ट्स प्रस्तुत किए हैं। असिस्टेंट प्रो. जिनेन्द्र राहुल और जितेन्द्र सिंह ने समन्वय किया।

मुख्य अतिथि डीएसटी जयपुर के असि. डायरेक्टर डॉ. विजय सुक्सेना और विशिष्ट अतिथि जेकेएलयू के प्रो. पुष्पेन्द्र सिंह थे।



## प्रोजेक्ट एक्सपो में दिखे इंजिनियरिंग इनोवेशन एसकेआईटी में आयोजित हुआ प्रोजेक्ट एक्सपो -2024

शहर के विभिन्न इंजीनियरिंग कॉलेजों छात्रों ने प्रस्तुत किया तीन दर्जन से अधिक प्रोजेक्ट

### P3 Police Public Politics

जयपुर / जुगल शर्मा । स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी इलेक्ट्रिकल इंजीनियरिंग विभाग के आईई (आई) छात्र चैप्टर की ओर से नेशनल लेवल पर 'प्रोजेक्ट एक्सपो - 2024' का आयोजन गुरुवार को किया गया। आयोजन में शहर के विभिन्न इंजीनियरिंग कॉलेजों के स्टूडेंट्स ने तीन दर्जन से अधिक प्रोजेक्ट प्रस्तुत किए। इसमें हार्डवेयर, आईटी बेस्ड, एआई समेत विभिन्न सेगमेंट्स से उम्दा प्रोजेक्ट्स स्टूडेंट्स ने एग्जीबिट किए। इस दौरान एटेंडेंस मॉनिटरिंग सिस्टम, फेस रिकगनाइजेशन एंड एंसरिंग, ट्रेक

क्रैकिंग डिटेक्शन, लॉ कॉस्ट होम ऑटोमेशन सिस्टम समेत अन्य कई बेहतर प्रोजेक्ट प्रस्तुत किए। एक्सपो कॉर्डिनेटर डॉ. सरफराज नवाज ने बताया कि स्टूडेंट्स ने एक्सपर्ट्स के मार्गदर्शन में उम्दा प्रोजेक्ट्स प्रस्तुत किए हैं, जिनकी एक्सपर्ट्स ने तारीफ की है। आई विभाग के सहायक प्रोफेसर जिनेन्द्र राहुल और जितेन्द्र सिंह ने स्टूडेंट्स कॉर्डिनेशन किया। कार्यक्रम में मुख्य अतिथि के रूप में डीएसटी जयपुर के एसि. डायरेक्टर डॉ. विजय सक्सेना और विशिष्ट अतिथि के रूप में जेकेएलयू यूनिवर्सिटी के प्रो. पुष्पेन्द्र सिंह ने आयोजन में शिरकत की।

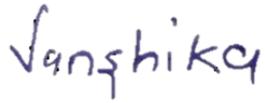
## **16. Words of Acknowledgement: -**

The Institution of Engineers (India) student chapter, Electrical Engineering Department of SKIT M & G, Jaipur was privileged to organize a national level “Project Expo-2024” at the badminton court, civil block, SKIT M & G. The event was graced by esteemed Chief Guest Dr. Vijay Kumar Saxena, Assistant Director, Department of Science and Technology, Rajasthan and Guest of Honor, Prof. Pushpendra Singh, Professor at JKLU, Jaipur. The Project Expo commenced at 9:30 a.m. with a heartfelt and enthusiastic welcome note from the student host.

Dr. Sarfaraz Nawaz (Head, EE Department) welcomed Dr. Vijay Kumar Saxena with flowers then Mr. Jitendra Singh (Asst. Prof., EE Department) welcomed Prof. Pushpendra Singh with flowers. Prof. Simrath Lal Surana (Director, Academics, SKIT M & G) with Prof. Ramesh Kumar Pachar (Principal, SKIT M & G), Prof. Raj Kumar Jain (Dean, SKIT M & G), HODs (other department) and faculty members walked through all the projects showcased in the Project Expo-24 and had a conversation with all the participants and exchanged their outlook about their projects and ideas behind them. Following this, the chief guest Prof. Pushpendra Singh and Dr. Vijay Kumar Saxena walked through all the projects, examined all the projects and evaluated the projects on the various criteria. The chief guests had a brief conversation with all the participants about their projects.

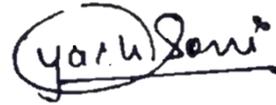
A great number of participants were present from different colleges to participate in the event. Extraordinary projects were showcased and exhibited in the Project Expo. A fine refreshment was arranged for all the contestants and attendees. Thereafter, Dr. Sarfaraz Nawaz was invited to present a memento to Prof. Pushpendra Singh, and then Mr. Jinendra Rahul and Mr. Jitendra Singh were invited to present a memento to Dr. Vijay Kumar Saxena after this prize distribution ceremony was held at the JC Bose seminar hall to celebrate the achievements of astounding performances of the teams. Prizes worth Rs.20,000 and mementos were distributed to the winners of Project Expo-24. The rest of the participants were awarded certificates of participation. At last, Dr. Sarfaraz Nawaz (HOD, Electrical Department) presented a formal vote of thanks to the honorable and eminent chief guests. The event successfully ended at 2:30 p.m. under the guidance of the faculty members of the Electrical Engineering department of SKIT M & G, Jaipur.

**17. Signature of Student Coordinators: -**



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Vanshika Nirwan



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Yash Soni

**18. Signature of Faculty Coordinators: -**



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**Mr. Jinendra Rahul**  
Asst. Prof., EE Dept.  
IEISC Coordinator



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**Mr. Jitendra Singh**  
Asst. Prof., EE Dept.  
IEISC Coordinator



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**Dr. Sarfaraz Nawaz**  
Head, EE Dept.  
SKIT, JAIPUR

**Thank You**