



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



A Report on

Integrated Approach in Science and Technology for a Sustainable Future

Title of Talk: Harnessing Solar Energy for Sustainable Development



28th February, 2022

Organized by:

IEEE-MTT Student Chapter

**Department of Electronics & Communication
Engineering**

Swami Keshvanand Institute of Technology Management & Gramothan
Ramnagar, Jagatpura, Jaipur-302 017, Rajasthan, India

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1. Objective and Outcome of the event

Objectives

- To give the knowledge about the Solar Energy, Sustainability and benefits of the solar energy.
- Estimate the energy production from a solar panel array and Compare the costs of electricity sources.
- Students able to understand about solar power plant. Solar water pumping system, solar home lighting system
- Determine the economic benefit of installing a solar array.

Outcomes

The participants of this session able to gain the knowledge from the experience of experts. He enhances the technology by continuous research and development in the field of Harnessing Solar Energy for Sustainable Development. Students will explore the geographic conditions that favor or restrict the use of various renewable energy technologies in a particular place. Students will create an optimal renewable energy plan for a community that meets specific constraints and criteria.

2. Event Brochure



The brochure features a background with a stylized atom and colorful overlapping circles. At the top, there are three logos: IEEE, SKIT (Swami Keshvanand Institute of Technology), and MTT-S (MHz to THz Community). The text is centered and uses various colors (red, blue, green, purple) for emphasis.

IEEE

SKIT
स्वामी केशवानंद

MTT-S
MHz to THz Community

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

IEEE-MTT Student Chapter

Celebrates


National Science Day

Theme: Integrated Approach in Science and Technology for a Sustainable Future

Title of Talk : Harnessing Solar Energy for Sustainable Development

Date: 28 February 2022 **Time: 10:00 AM to 11:00 AM**

Speaker



Dr. Minal Bafana
Professor and Head, Department of Physics
Convener, IPR Cell
Agrawal PG College, Jaipur

Faculty Coordinator: Dr. Shubhi Jain
Student Chapter Chairman: Mr. Harshal Nigam
Student Chapter Vice Chairman: Mr. Abhinandan Jain
Student Coordinators: Debopam Sinha & Priyanshu Lohar

Registration form link and QR code



<https://forms.gle/4F7HqM6bhCqUxor19>

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3. Schedule of the Event

S.No.	Date	Time	Topic	Expert Name
1	28/02/ 2022	10:00 am - 11:00 am	Harnessing Solar Energy for Sustainable Development	Dr. Minal Bafana Professor and Head, Department of Physics Convener, IPR Cell Agrawal PG College, Jaipur

4. Invited Guests

S. No	Guest/Speakers	Name and Affiliation
1.	Guest	Dr. Minal Bafana Professor and Head, Department of Physics Convener, IPR Cell Agrawal PG College, Jaipur

5. List of Participants (SKIT-Faculty)

S. No.	Email Address	Participant Name	Department	Institute/Organization	Candidate Type	Employee Id
1	naveen@skit.ac.in	Naveen Jain	IT	SKIT M & G, Jaipur	Faculty	18
2	shubhi.jain@skit.ac.in	Dr. Subhi Jain	ECE	SKIT M & G, Jaipur	Faculty	59
3	harshal.nigam@skit.ac.in	Mr. Harshal Nigam	ECE	SKIT M & G, Jaipur	Faculty	764
4	pkjain@skit.ac.in	Dr. Praveen Kumar Jain	ECE	SKIT M & G, Jaipur	Faculty	107
5	s k satish.bhatnagar@skit.ac.in	Dr. Satish Bhatnagar	ECE	SKIT M & G, Jaipur	Faculty	171
6	abhinandan.jain@skit.ac.in	Mr. Abhinandan Jain	ECE	SKIT M & G, Jaipur	Faculty	829

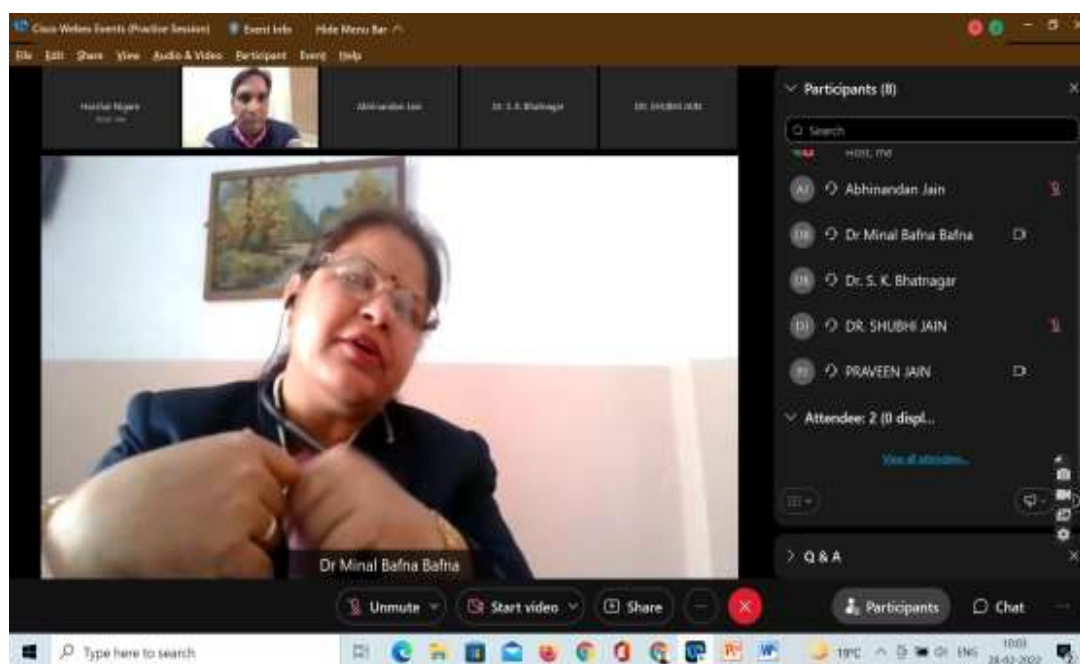
List of Participants (SKIT-Student)

S. No.	Email Address	Participant Name	Department	Institute/Organization
1	hanusharma2002@gmail.com	Rohit sharma	ECE	Anand international collge of engineering
2	B200914@skit.ac.in	Sanchit Agrawal	ECE	SKIT, Jaipur
3	lakshit133@gmail.com	lakshit jain	ECE	SKIT, Jaipur
4	b200951@skit.ac.in	Kanak Singhal	ECE	SKIT, Jaipur
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12	amishajha132001@gmail.com	Amisha jha	ECE	SKIT JAIPUR
13	shikhakumari2k02@gmail.com	Shikha kumari	ECE	SKIT JAIPUR
14	crosslinmary@gmail.com	L.crosslinmary		St.mother theresha engineering college
15	mohitkumawat6700@gmail.com	Mohit Kumawat	ECE	SKIT JAIPUR
16	purvitanwar1803@gmail.com	Purvi Tanwar	ECE	SKIT JAIPUR
17	aanchi89015@gmail.com	Aanchal yadav	ECE	SKIT JAIPUR
18	rajatsmart2001@gmail.com	Rajat Gupta	ECE	SKIT JAIPUR
19	pulkit9817sharma@gmail.com	Pulkit Sharma	ECE	SKIT JAIPUR

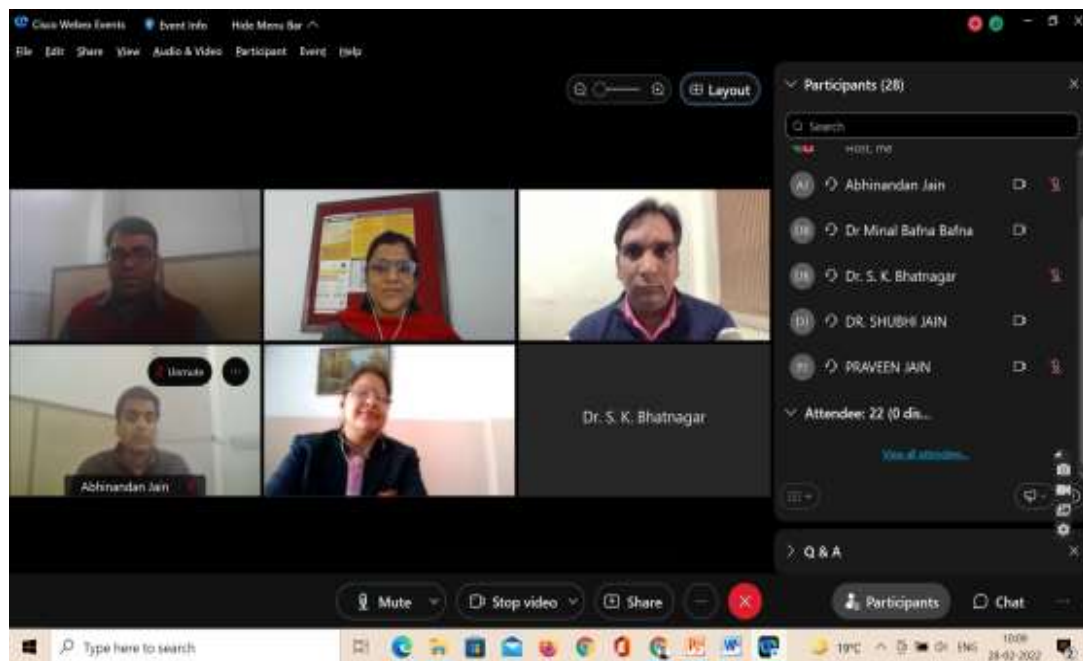
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20	rempire206@gmail.com	Somya Rawat		Anand International College of Engineering
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31	rakey2322@gmail.com	RAKESH S		K. Ramakrishnan College of Technology
32	B200914@skit.ac.in	Sanchit Agrawal	ECE	SKIT JAIPUR

6. Screenshots of the Even



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The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "Problem Identification" with the subtitle "Distribution of resources." The slide content includes several bullet points and images:

- ❖ The traditional skills of making handicraft items have almost ceased due to limited market for it. Actual Handicraft is part of life and not a major source of income. The artists are either MIG-NREGA workers or single seasonal laborers working for 3-6 months a year. Lack of livelihood pushes them towards cities.
- ❖ Due to hilly terrain, lack of good electrical and road transport network, there is a hindrance for the development process to reach there in this mode.
- ❖ As a result of which educational, health and industrial infrastructure has also not been well developed in this place.
- ❖ There is a widespread misconception that development can be achieved by installing and using advanced high-maintenance and expensive technologies.
- ❖ Lack of awareness and skill development required for upliftment.
- ❖ The region is a hilly terrain having tremendous solar potential available throughout the year.

The slide also features a red banner at the bottom that reads "28 February 2022 NATIONAL SCIENCE DAY 2022" and logos for IEEE, SVKM's, and PVT.

On the right side of the Zoom interface, the "Participants (34)" panel is visible, showing a list of attendees:

- Panelist: b
- Harsh...
- Dr. Minal Bafna Bafna
- Abhimandan Jain
- Dr. S. K. Bhatnagar
- DR. SHUBH JAIN
- PRAVEEN JAIN

The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 10:28 on 28-02-2022.

7. Sample Copy of Certificate

Participant Certificate

Expert Certificate



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

Expert Talk on
“Harnessing Solar Energy for Sustainable Development”

Certificate of Appreciation



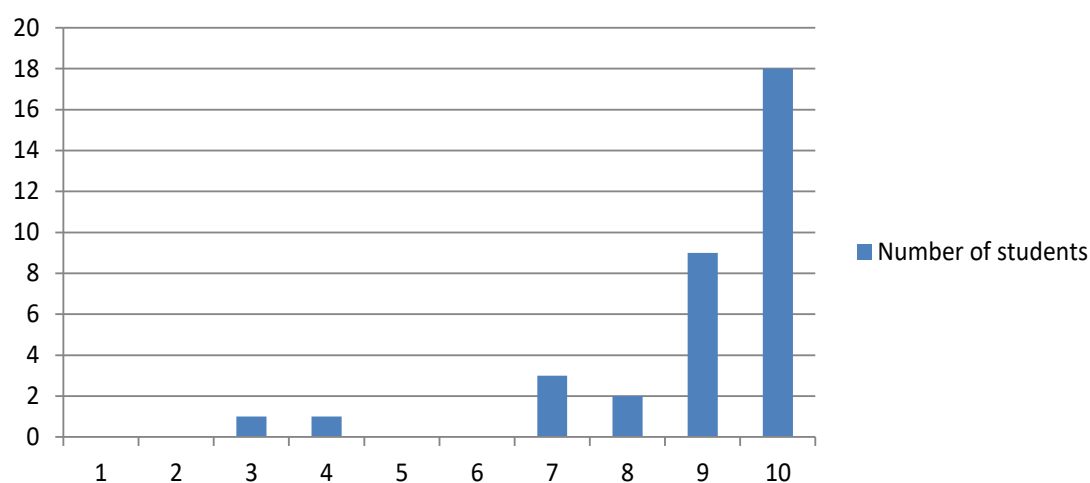
This is to certify that **Dr. Minal Bafna, Professor and Head, Physics Department of Agrawal PG College, Jaipur** has given an Expert talk on the topic **“Harnessing Solar Energy for Sustainable Development”, to celebrate National Science Day** as organized by **SKIT-IEEE (MTT) Student Chapter, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur** on **February 28, 2022**

			
Mr. Harshal Nigam Assistant Professor Student Chapter Chairman SKIT-IEEE (MTT) Student Chapter SKIT,M&G, Jaipur	Mr. Abhinandan Jain Assistant Professor Student Chapter Vice Chairman SKIT-IEEE (MTT) Student Chapter SKIT,M&G, Jaipur	Dr. Shubhi Jain Assistant Professor Faculty Advisor SKIT-IEEE (MTT) Student Chapter SKIT,M&G, Jaipur	Prof. Dr. Mukesh Azora Head ECE Department SKIT M&G Jaipur

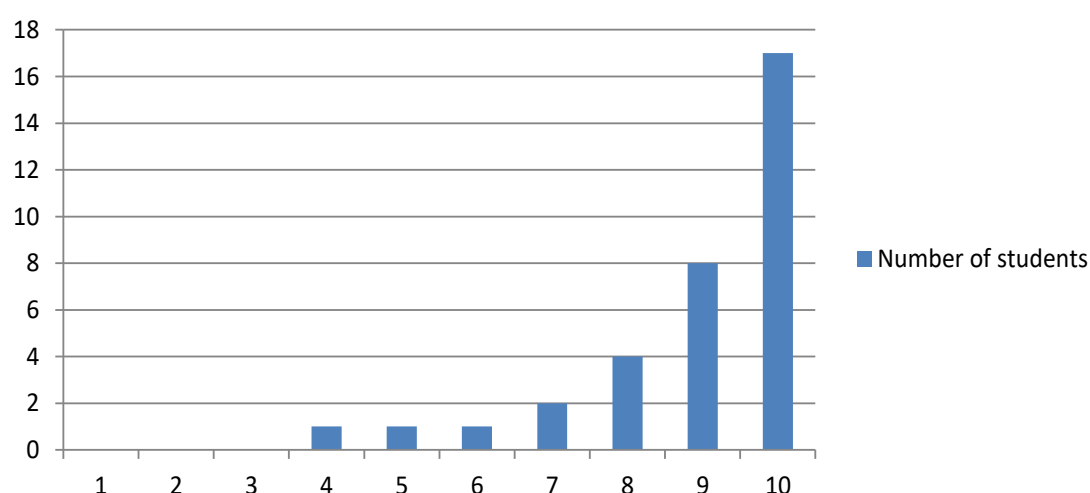
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8. Feedback report

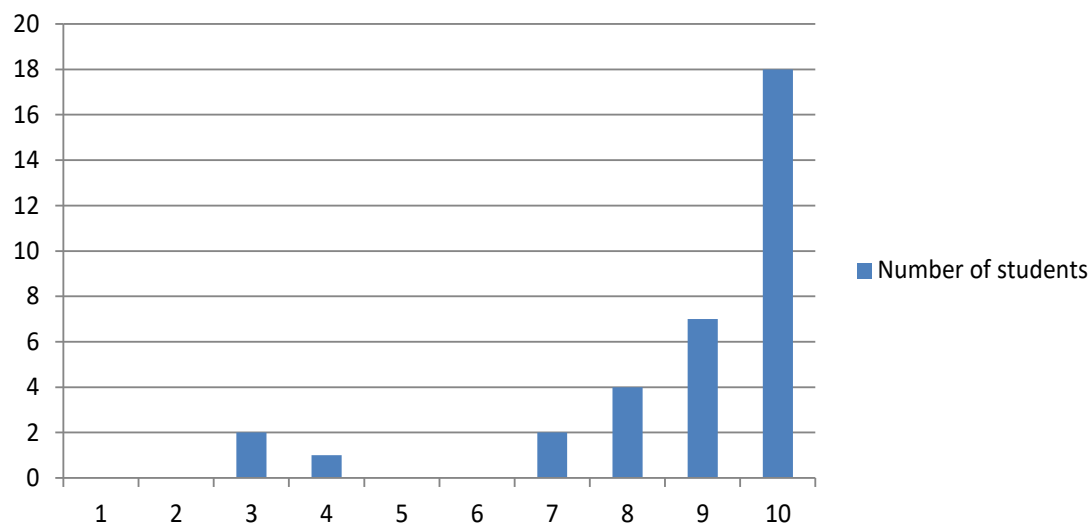
1. Your experience about the session



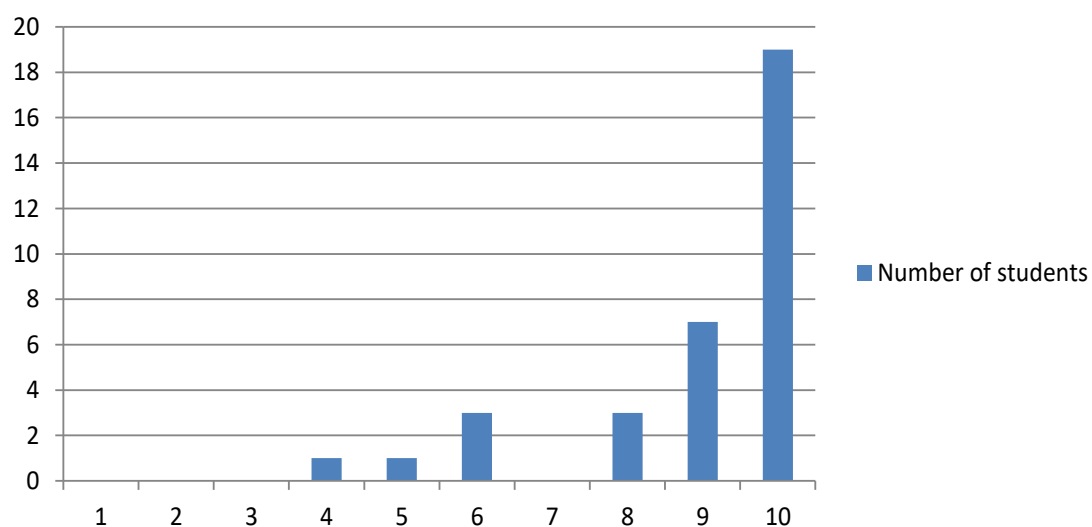
2. Overall, how do you rate the program you attended in terms of usefulness and effectiveness?



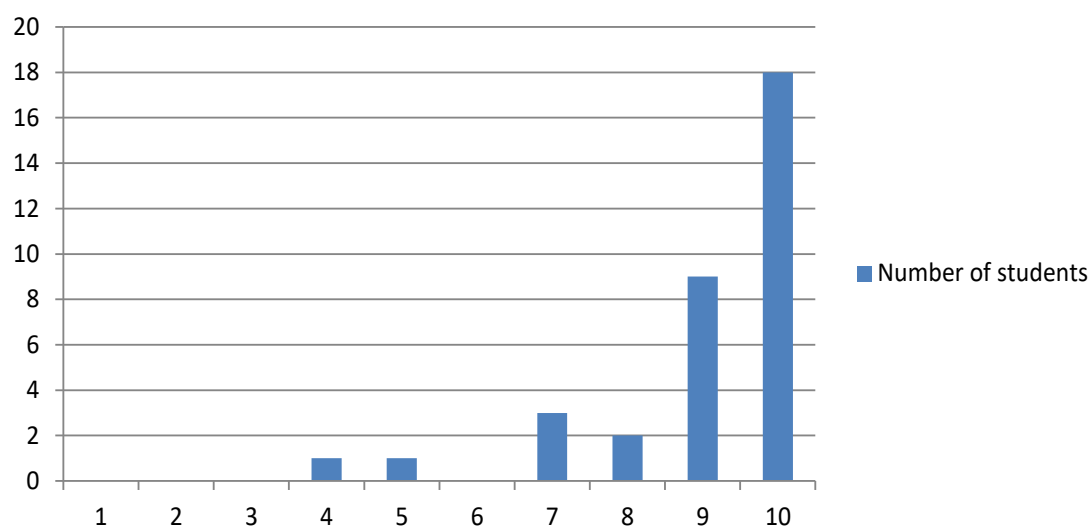
3. Relevancy of topic



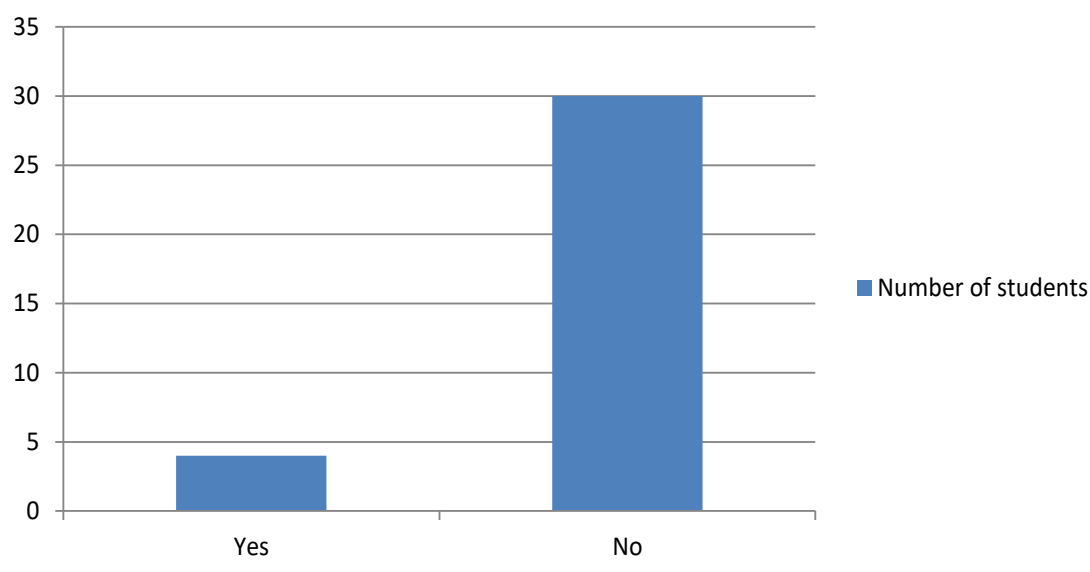
4. About speaker



5. General Arrangement



6. In future you want to attend such course at this Institute (SKIT, Jaipur).



7. Topic that can be covered in the next course?

- Electronics
- Full stack development, cloud development, web development, android development
- Artificial intelligence
- More about science.

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- Wind energy water energy
- IOT
- AI
- Energy Sources other than Solar
- Astronomy
- Web development or cyber security
- Data Science
- 5G technology
- Related to natural resources
- PPS in language in computer
- Global warming
- Green revolution
- Antenna
- Solar energy
- C programming

8. Knowledge gained by the course.

- Solar power
- Really a great course to experience, learned about great aspects of science
- About solar energy and systems.
- Solar energy
- Very knowledgeable
- Informative session on alternative energy sources and their applications.
- About resources in nature.
- About new science technologies

9. Overall experience of the course.

- Good
- Superb
- Excellent
- Useful

- Very best
- it was overall a good course to gain knowledge
- Brilliant
- 10 on 10
- Excellent
- nil
- Very good
- Good session

10. Suggestions

- Nothing
- More Advanced and on demand topics should be covered
- More interactive session
- More discussion and deep knowledge about the topic should given
- Keep it up to your teach and useful of students
- All good.
- It was far better than previous one.
- Very good session
- Useful session

9. Technical Report

IEEE-MTT student chapter of Swami Keshvanand Institute of Engineering and Technology Management and Gramothan, Jagatpura , organised an interactive session on the occasion of “National Science Day 2022” based upon theme ”Integrated Approach in Science and Technology for a Sustainable Future” on 28/2/2022. Title of the talk was ”Harnessing Solar Energy for Sustainable Development” Special guest for this interactive session was Dr. Minal Bafna, Head , Department Of Physics, Agarwal PG College, Jaipur. Session begin with Dr. Shubhi Jain telling the students about the importance of National Science Day. Then Dr. Praveen Jain welcomed the guest with humble words. In this interactive session Dr. Minal Bafna briefed the students about the solar energy, its ease of availability in a country like India, and how this blessing that the geographic location of India has can be used for it’s own benefit. She made the students aware about the current energy scenario where the demand of energy is increasing day by day and the supply is not sufficient and even the natural reserves of fossil fuels are depleting and problems which goes unnoticed like the improper distribution of resources mainly in the hilly areas and lack of employability of the localites , where there is plenty of sunlight and this can be used to solve this problem to a significant extent . This interactive session was concluded by the note of thanks by Assistant Prof. Harshal Nigam .

---Thank You-----