

**A
REPORT
ON
ONE DAY VIRTUAL VISIT AND ONLINE WORKSHOP
ON
“FACILITIES AND OPPORTUNITIES:
INTERNSHIP AT NPTI, SHIVPURI”**

22, January 2022

Organized By:



**Department of Electrical Engineering
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE**

(A Govt. Aided UGC autonomous & NAAC Accredited institute affiliated to RGPV,
(Bhopal)

**Race Course Road, Gola Ka Mandir,
Gwalior, M.P. 474005**

Website: www.mitsgwalior.in

and



**National Power Training Institute
(A National Apex Body for Training in Power Sector)**

**Shyampur, Satanwara
Shivpuri, Madhya Pradesh**

Website: http://npti.gov.in/npti_shivpuri/



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ABOUT THE WORKSHOP

The Department of Electrical Engineering, MITS, Gwalior in collaboration with the National Power Training Institute, Shivpuri has organized a Virtual Visit and One Day Online Workshop on “Facilities and Opportunities: Internship at NPTI, Shivpuri” on 22nd January 2021.

The Virtual Visit and Workshop has covered the following topics in detail:

- 210 MW Fossil Fuel Simulator
- Introduction to Power Plant Familiarization
- Introduction to National Grid & Smart Grid.
- Power Plant Related Simulator Operation

IDEA BEHIND THIS INTERACTIVE WORKSHOP

The idea behind this interactive workshop are as follow:

- (1) To inspire the students regarding the internship at NPTI, Shivpuri.
- (2) To familiarise them with the practical concept of the Thermal Power Plant.
- (3) To familiarise the students with the Scenario and facilities available at NPTI, Shivpuri.



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EXPERTS FOR WORKSHOP

1. **Shri Sanjay D. Patil**
Director NPTI Shivpuri (MP)
2. **Shri Vikas Kumar Jangra**
Assistant Director, NPTI Shivpuri (MP)
3. **Shri Yogesh Ku. Paliwal**
Assistant Director, NPTI Shivpuri (MP)
4. **Shri Peeyush Kr. Singh**
Deputy Director, NPTI Shivpuri (MP)

COORDINATORS

1. **Dr. Shishir Dixit**
Associate Professor, EED, MITS, Gwalior (MP)
2. **Prof. Nikhil Paliwal**
Assistant Professor, EED, MITS, Gwalior (MP)



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REGISTRATION

The registration was free for these National Workshops and the link for the same was as below:

Registration Link: <https://forms.gle/hKr9hQgbdQwE7E9r9>

E-certificates have been issued to all the participants, who have successfully attended the workshop and submitted the feedback with following link:

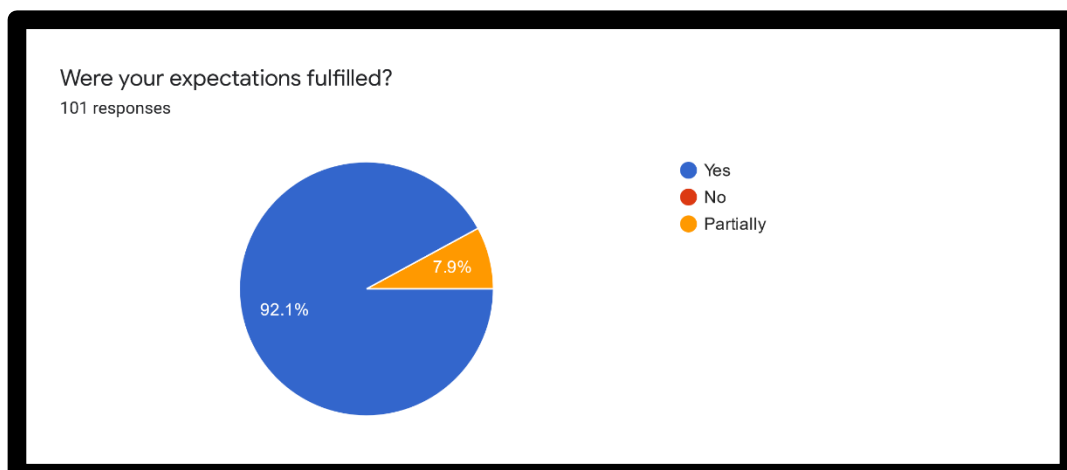
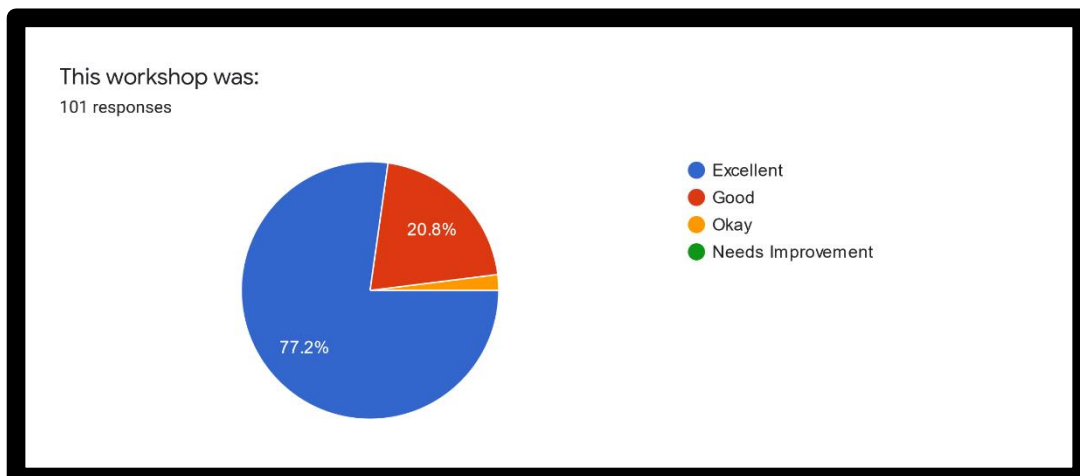
Feedback form Link: <https://forms.gle/Zbcptvjnh4JEDrx97>

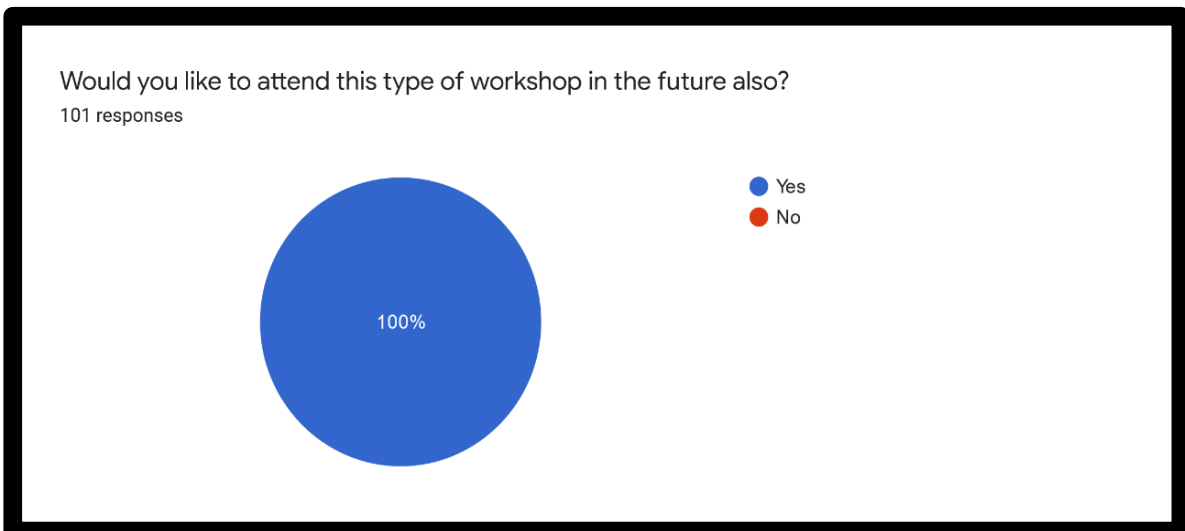
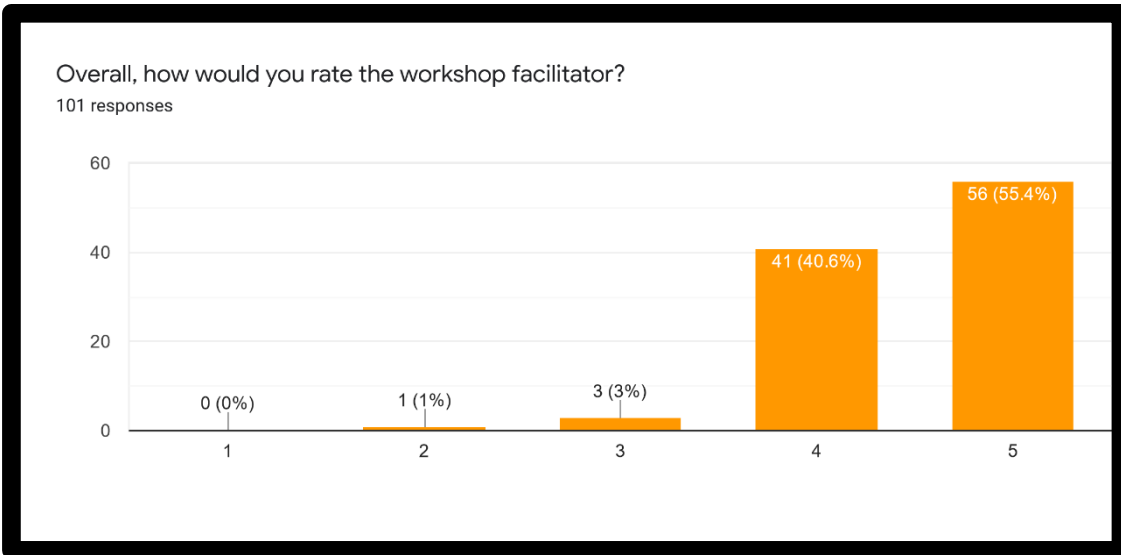
FEEDBACK REPORT

From this “Virtual Visit and Online Workshop” XY students participants (UG, PG and Research Scholar) along with XY faculty & staff members were benefitted.

The feedback responses of the participants are collected and analysed which are illustrated for better understanding.

The response of the media for aforesaid activity is also enclosed.







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AGENDA



राष्ट्रीय विद्युत प्रशिक्षण संस्थान
National Power Training Institute
विद्युत मंत्रालय, भारत सरकार
(Ministry of Power, Govt. of India)
शिवपुरी -473 551 (मध्यप्रदेश)
Satanwada, Shivpuri- 473 551 (Madhya Pradesh)



Date - 20.01.2022

AGENDA

कार्यक्रम अनुसूची /PROGRAM SCHEDULE

Program Title	One Day Online Virtual Visit & Workshop on “Facilities and Opportunities: Internship at NPTI, Shivpuri			
Duration	One Day (22.01.2022)			
Venue	Online			
Timings	11:00 AM to 03:00 PM			
Date	Session	Topic	Lecture/ Demo	Faculty Name (Sh.)
22-01 -2022	11:00 AM - 11:30 AM	Inauguration & Welcome Address, Overview of Simulator	Lecture	Sh. Sanjay D Patil, Director/Hol
	11:30 AM - 12:00 PM	Introduction to Power Plant Familiarization, Working of Boiler & Auxiliaries	Lecture	Sh. <u>Vikas Kumar Jangra,</u> Asstt. Director
	12:00 PM - 12:30 PM	Working of Turbine & Auxiliaries	Lecture	Sh. <u>Yogesh Kumar Paliwal,</u> Asstt. Director
	12:30 PM - 01:00 PM	Generator & Excitation Systems, Smart Grid	Lecture	Sh. <u>Peeyush Kr. Singh</u> Dy. Director
	01:00 PM - 01:30 PM	Overview of National Grid	Lecture	Sh. Sanjay D Patil, Director/Hol
	01.30 PM - 02:00 PM	Virtual visit to Simulator	Demo	Sh. <u>Vikas Kumar Jangra,</u> Asstt. Director Sh <u>Yogesh Kumar Paliwal,</u> Asstt. Director
	02:00 PM - 02:45 PM	Questions & Answers		
	02:45 PM - 03:00 PM	Vote of Thanks		Sh. Sanjay D Patil, Director/Hol, Sh. <u>Vikas Kumar Jangra,</u> Asstt. Director



ONE DAY VIRTUAL VISIT AND WORKSHOP

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FLYER

About NPTI, Shivpuri

The Campus houses the Institute building, 250 capacity auditorium, 03 nos. board rooms, VIP Guest House, Hostels, Sports facilities and Residential quarters for the employees. The main Institute building houses Lecture Halls, 3 Conference Room, Board Room, Library, and a Real-time Multifunctional Simulator. NPTI Shivpuri is having state of art multi-functional Simulators with a configuration of Thermal: 210 MW/ 500 MW/800 MW, Hydro: 250 MW & Smart Grid. This is the only simulator in India installed at NPTIs, developed for providing training to the power utilities with Smart controls for RE-Grid Integration, IT Centre, and the associated offices etc. NPTI Complex equipped with CCTV/Wi-Fi facilities in the entire campus. Each class rooms is equipped Air conditioner with latest Technology like Multi Touch Screen Podium, Projector and Smart Screen, Audio Systems, Smart TV for On-line sessions with WI-FI facilities.

About MITS, Gwalior

Madhav Institute of Technology & Science (MITS), Gwalior is one of the oldest and prestigious institutes of Madhya Pradesh. The institute is affiliated to RGPV, Bhopal but has academic autonomy since 2002 to run courses of its choice. The institute has been granted autonomy by UGC, New Delhi for a period of 6 years w.e.f. July 2017. The institute is also accredited by the National Assessment and Accreditation Council (NAAC) for 5 years from September 2017. Many of the programmes are accredited by the National Board of Accreditation (NBA). The institute provides Undergraduate, Postgraduate and Doctorate Education in Engineering, Architecture, and Management; fostering the spirit of national integration amongst the students, a close interaction with industry and a strong emphasis on research, interaction with industry and a strong emphasis on research.

COORDINATORS

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+91 89898 27830

WORKSHOP REGISTRATION FEE:

NO REGISTRATION FEE (FREE)

FOR REGISTRATION

CLICK ON THE LINK BELOW

<https://forms.gle/2nVAco1GLjpedu4S8>

COURSE CONTENTS

- 210 MW Fossil Fuel Simulator
- Introduction to Power Plant Familiarization
- Introduction to National Grid & Smart Grid
- Power Plant Related Simulator Operation Trainings

CONTACT PERSON

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National Power Training Institute
Satanwada, Shivpuri- 473 551 (M.P)



Madhav Institute of Technology & science
Gola ka Mandir, Gwalior - 474005, (M.P.)

ANNOUNCES

One Day Online Virtual Visit and Workshop On

“Facilities and Opportunities:
Internship at NPTI, Shivpuri”

22, January 2022

11:00 AM TO 03:00 PM

VENUE

Online Platform (Google meet)

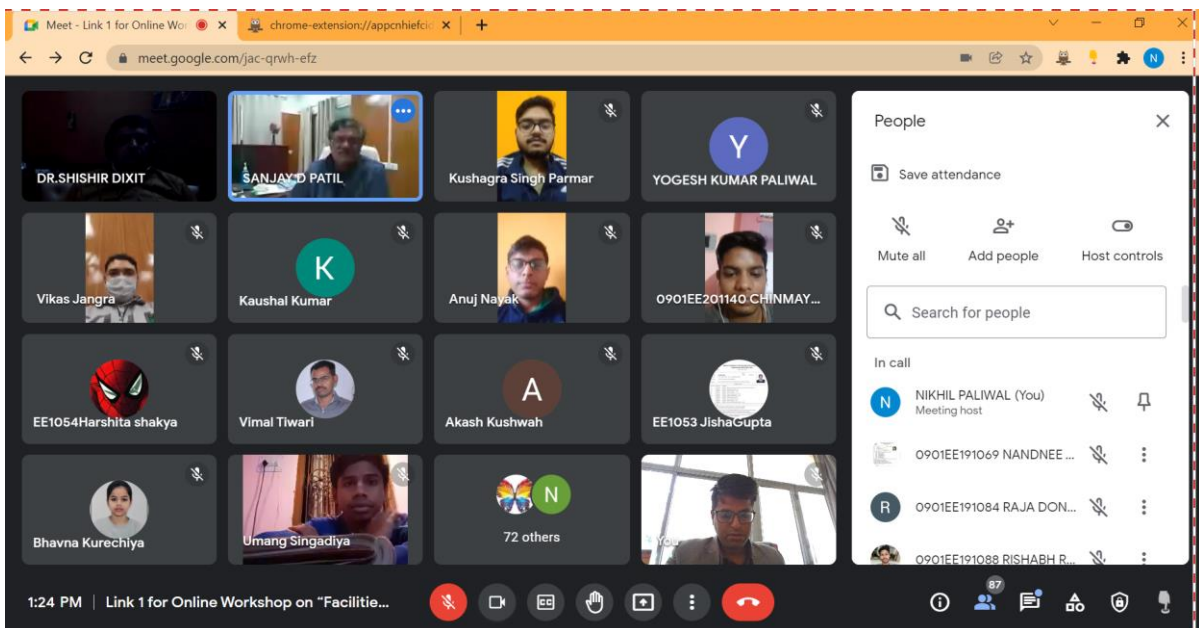
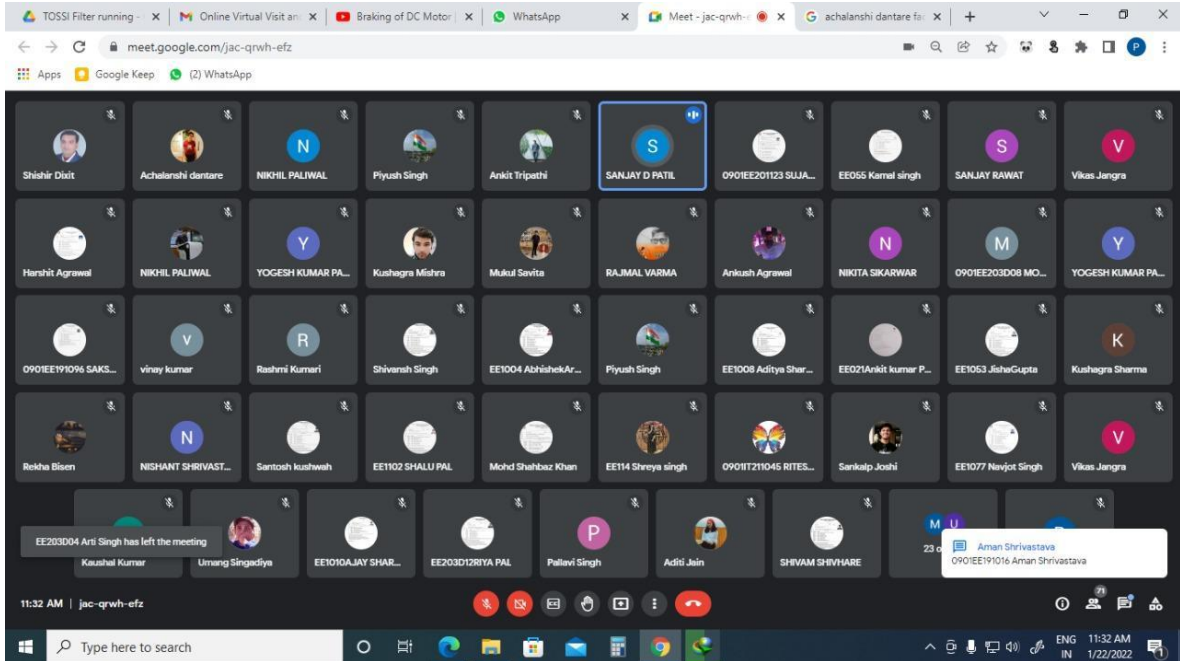
* Note - Google Meet link will be sent to your email ID after registration
E-certificate will be provided to all participants

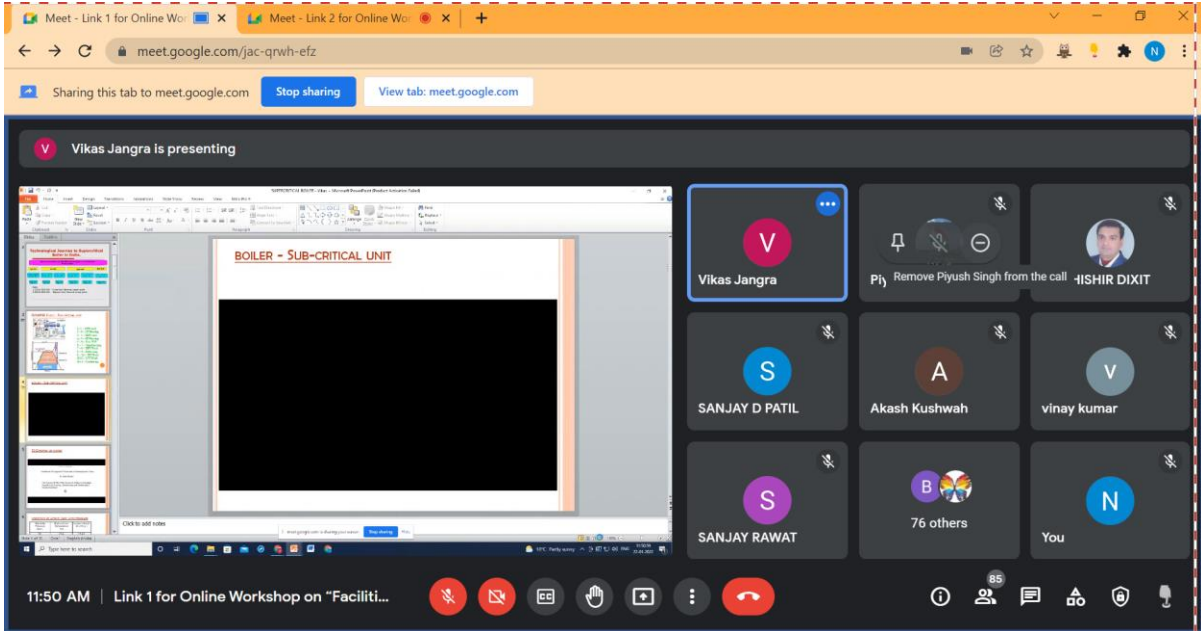


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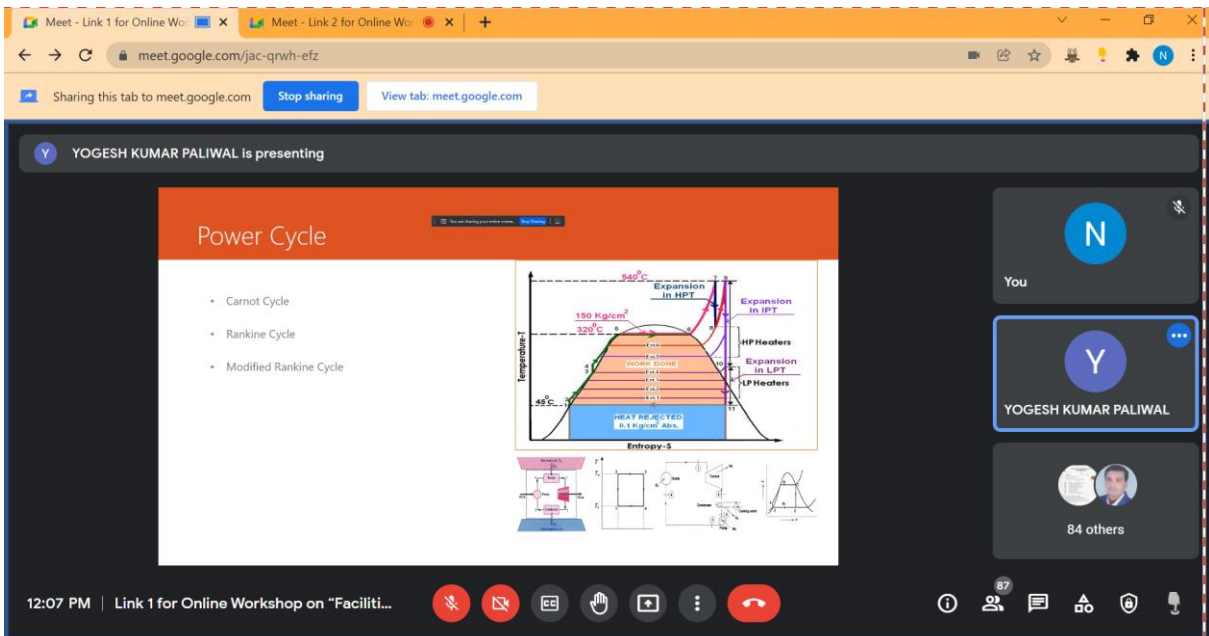


GLIMPSES





Meeting interface showing a presentation slide titled "BOILER - SUB-CRITICAL UNIT". The slide content is mostly obscured by a black box. The meeting controls at the bottom show the time as 11:50 AM and the meeting title as "Link 1 for Online Workshop on 'Faciliti...".



Meeting interface showing a presentation slide titled "Power Cycle". The slide lists:

- Carnot Cycle
- Rankine Cycle
- Modified Rankine Cycle

 A T-s diagram is shown with the following labels:

- Temperature-T
- 540°C
- Expansion in HPT
- Expansion in IPT
- HP Heaters
- Expansion in LPT
- LP Heaters
- 180 kg/cm²
- 320°C
- HEAT REJECTED to & rejected Abs.
- Entropy-S

 The meeting controls at the bottom show the time as 12:07 PM and the meeting title as "Link 1 for Online Workshop on 'Faciliti...".

MEDIA COVERAGE

माधव इंस्टीट्यूट ऑफ टेक्नोलॉजी में कार्यशाला आयोजित

सत्ता सुधार ■ ग्वालियर

माधव इंस्टीट्यूट ऑफ टेक्नोलॉजी एंड साइंस, ग्वालियर एवं समस्त नेशनल पावर ट्रेनिंग इंस्टीट्यूट (एनपीटीआई) के मध्य हाल ही में MO किया गया है। इलेक्ट्रिकल इंजीनियरिंग विभाग, माधव इंस्टीट्यूट ऑफ टेक्नोलॉजी एंड साइंस एवं नेशनल पावर ट्रेनिंग इंस्टीट्यूट के संयुक्त तत्वाधान में विद्यार्थियों को नेशनल पावर ट्रेनिंग इंस्टीट्यूट, शिवपुरी का वर्चुअल विजिट करवाया गया। साथ ही फैसिलिटीज एंड ओपपोर्टुनिटीज-इंटरनशिप एट एनपीटीआई, शिवपुरी पर एक दिवसीय कार्यशाला का सफल आयोजन किया गया।



कार्यक्रम के मुख्य अतिथि श्री संजय डी. पाटील, एनपीटीआई, डायरेक्टर के अतिरिक्त असिस्टेंट डायरेक्टर श्री मनोज कुमार, श्री योगेश कुमार पालीवाल एवं श्री पियूष कृ. सिंह ने अपने प्रेजेंटेशन के माध्यम से थर्मल पावर प्लांट एवं पर्यावरण का रक्षण करते हुए उसकी क्षमता को बढ़ाने के संबंध में विस्तार से चर्चा करीं।



एमआईटीएस ने एनपीटीआई से किया एमओयू साइन

विद्यार्थियों के लिए सुविधा

शिवपुरी, ग्वालियर

माधव इंस्टीट्यूट ऑफ टेक्नोलॉजी एंड साइंस (एमआईटीएस) ने नेशनल पावर ट्रेनिंग इंस्टीट्यूट (एनपीटीआई) के साथ एमओयू साइन किया गया है। इसके तहत शिवपुरी के नेशनल पावर ट्रेनिंग इंस्टीट्यूट का वर्चुअल विजिट विद्यार्थियों को कराई गई। साथ ही यहां मौजूद सुविधाओं के बारे में भी जानकारी दी गई। इस दौरान एक दिवसीय कार्यशाला का भी

आयोजन किया गया। इसमें मुख्य अतिथि एनपीटीआई के डायरेक्टर संजय डी. पाटील, अतिरिक्त असिस्टेंट डायरेक्टर मनोज कुमार, योगेश कुमार पालीवाल एवं पियूष सिंह ने प्रजेंटेशन दिया। इस दौरान थर्मल पावर प्लांट एवं पर्यावरण की जुड़ी जानकारी दी गई। कार्यक्रम में इलेक्ट्रिकल इंजीनियरिंग विभाग के लगभग 100 विद्यार्थी, अतिरिक्त विभागाध्यक्ष डॉ. सुलोचना वाघवाणी, डॉ. अरुण वाघवाणी आदि शामिल रहे। संचालन डॉ. शिशिर दीक्षित एवं प्रो. निखिल पालीवाल ने किया।

एमआईटीएस और एनपीटीआई के करार से छात्रों को मिलेगा फायदा

ग्वालियर. माधव इंस्टीट्यूट ऑफ टेक्नोलॉजी एंड साइंस एवं समस्त नेशनल पावर ट्रेनिंग इंस्टीट्यूट (एनपीटीआई) के बीच एमओयू साइन हुआ। इसका फायदा स्टूडेंट्स और फैकल्टी को मिलेगा। इलेक्ट्रिकल इंजीनियरिंग विभाग एमआईटीएस एवं नेशनल पावर ट्रेनिंग इंस्टीट्यूट के संयुक्त तत्वाधान में विद्यार्थियों को नेशनल पावर ट्रेनिंग इंस्टीट्यूट शिवपुरी की वर्चुअल विजिट करवाई गई। साथ ही 'फैसिलिटीज एंड अपॉर्च्युनिटीज: इंटरनशिप एट एनपीटीआई शिवपुरी' पर कार्यशाला हुई। मुख्य अतिथि के रूप में उपस्थित एनपीटीआई के डायरेक्टर संजय डी पाटील, असिस्टेंट डायरेक्टर मनोज कुमार, योगेश कुमार पालीवाल एवं पियूष सिंह ने प्रजेंटेशन के माध्यम से थर्मल पावर प्लांट एवं पर्यावरण का रक्षण करते हुए उसकी क्षमता को बढ़ाने के संबंध में विस्तार से चर्चा की।