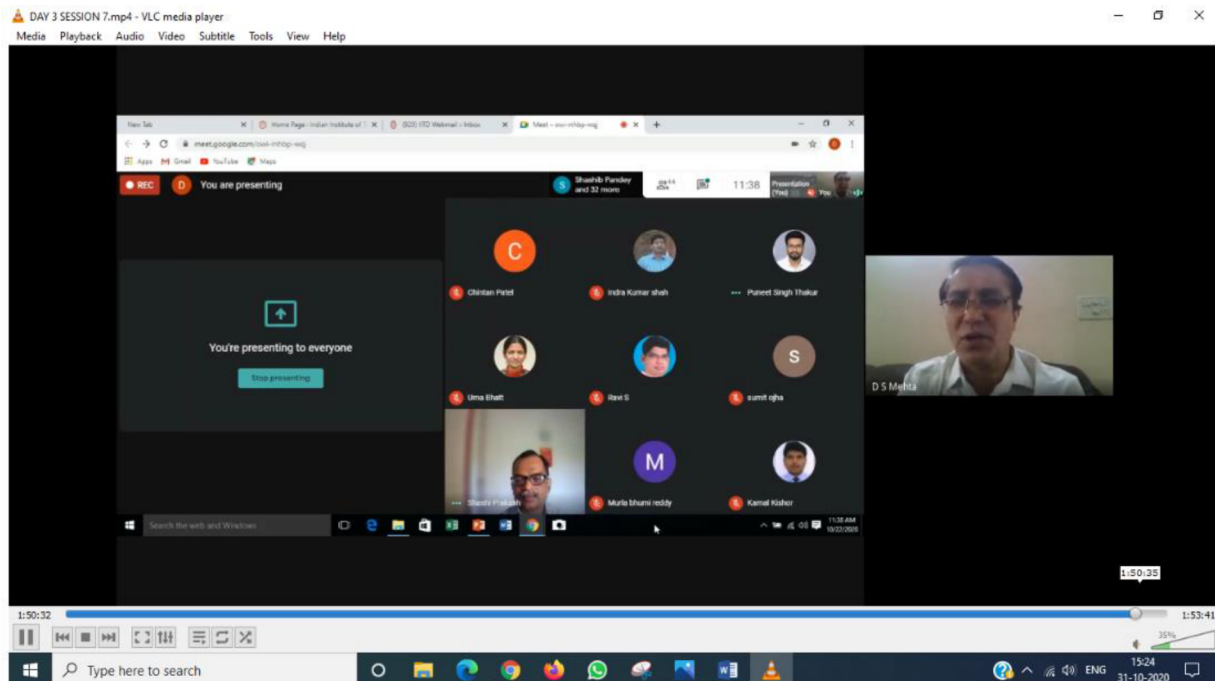


## Summary of Photonics workshop

A five days, AICTE sponsored workshop on Photonics was conducted from 20<sup>th</sup> to 24<sup>th</sup> October 2020. In the workshop around 70 participants from different parts of the country participated and 63 participants successfully completed the FDP. The inauguration was held on 20<sup>th</sup> Oct. 2020 online at 10:00 am. Chief Guest of the program was Prof. Renu Jain (Vice-Chancellor, Devi Ahilya Vishwavidyalaya), Guest of Honour of the function were Prof. Sanjeev Tokekar (Director, IET, Devi Ahilya Vishwavidyalaya). Prof. Shashi Prakash (Coordinator, FDP) chaired the function. In addition, Directors/Heads of different departments, and participants were also present. Dr. Shashi Prakash, Coordinator of the FDP, conveyed their sincere thanks to ATAL Academy, Hon'ble Vice Chancellor Prof. Renu Jain, Director, IET, Prof. Sanjeev Tokekar, participants and University administration for all the support.

Besides the University, the subject experts were drawn from esteemed organizations such as IITs, IIIT, SGSITS, IPS Academy and the Industry; theoretical as well as hands on sessions were organised. Speakers of the workshops were (i) Prof. Shashi Prakash, IET, Devi Ahilya Vishwavidyalaya, Indore (ii) Prof. Dalip Singh Mehta, IIT, Delhi (iii) Prof. Anand Srivastava, IIIT, Delhi (iv) Dr. Bijoy Chand Chatterjee, South Asian University, New Delhi (v) Mr. Hitesh Mehta, MD, Fiber Optika Technologies, Mumbai, (vi) Prof. Joseph Thomas Andrews, SGSITS, Indore (vi) Dr. Dharmendra Singh Yadav, Department of Electronics & Communication, IPS Academy, Indore. Dr. Gorakh Parulkar, MD [PATH], DNB, were the meditation trainer.

The valedictory function was organized on 24<sup>th</sup> Oct. 2020. Participants greatly acknowledged all the resource persons for their magnificent lectures. At the end of the FDP, Prof. Ajay Verma, Head-Department of Electronics and Instrumentation, IET, Devi Ahilya Vishwavidyalaya and Prof. Shashi Prakash conveyed their sincere thanks.





Report on  
AICTE Training and Learning (ATAL) Academy  
Sponsored

# Faculty Development Program

On

## “Energy Engineering”


14th - 18th December 2020

*FDP Coordinator*

**Dr. Govind Maheshwari**

Associate Professor ,  
Mechanical Engineering Department,  
IET-DAVV, Indore  
9826247653

# Faculty Development Program(FDP) on Energy Engineering

- *AICTE Sponsored FDP program on "Energy Engineering" under ATAL scheme was conducted through online mode during 14<sup>th</sup>-18<sup>th</sup> December , 2020 in IET-DAVV Indore under aegis of Mechanical Engineering Department*
  - *Total 136 participants got certificate as per the AICTE criteria of 80% Attendance and 60% minimum marks in test conducted during the program.*
  - *The program was scheduled for 5 days and as per the guideline of AICTE and total 14 session was conducted. Duration of each session is planned as 1.5 hrs. was taken by the experts. The experts were known academicians from various reputed Institutes/organizations of India. Many of the resource persons were pioneer in the field of Finite Time Thermodynamics and exergy which are the two prominent terms in Energy Engineering.*
  - *Most of the resource persons were from IITs and NITs. Practical Applications were also illustrated during the sessions from the experts.*
- 

**AICTE Training and Learning (ATAL)  
Academy**

Sponsored

**Faculty Development Program**

On

**“Energy Engineering”**

*14th December - 18th December, 2020*

**Inaugural Function**

**14th December, 2020**

Presented By

*Mechanical Engineering Department,  
Institute of Engineering & Technology,  
Devi Ahilya University, Indore*

Speakers at the Inaugural Session



Dr. Renu Jain  
Hon'ble Vice Chancellor,  
DAVV, Indore



Dr. Sanjiv Tokekar  
Director,  
IET-DAVV, Indore



Dr. Ashesh Tiwari  
Professor & HOD,  
IET-DAVV, Indore



Dr. Govind Maheshwari  
(Coordinator of FDP),  
IET-DAVV, Indore

**AICTE Training and Learning (ATAL)  
Academy**

Sponsored

**Faculty Development Program**

On

**“Energy Engineering”**

*14th December - 18th December, 2020*

**Sessions**

**Day 1 - 14<sup>th</sup> December 2020**

Coordinator

**Dr. Govind Maheshwari**

Associate Professor ,  
Mechanical Engineering Department,  
Institute of Engineering and Technology,  
Devi Ahilya University, Indore



Dr. Govind Maheshwari  
IET-DAVV, Indore

Introduction and Overview of  
the FDP

10 AM - 11:30 AM



Dr. S C Kaushik  
IIT Delhi

Teaching Exergy to Scientists  
and Engineers

12 PM - 1:30 PM



Dr. S C Kaushik  
IIT Delhi

Solar Cooling Options

2 PM - 3:30 PM

**AICTE Training and Learning (ATAL)  
Academy**

Sponsored

**Faculty Development Program**

On

**“Energy Engineering”**

*14th December - 18th December, 2020*

**Sessions**

**Day 2 - 15<sup>th</sup> December 2020**

Coordinator

**Dr. Govind Maheshwari**

Associate Professor ,  
Mechanical Engineering Department,  
Institute of Engineering and Technology,  
Devi Ahilya University, Indore



Dr. Sharad Choudhary  
IET-DAVV, Indore

**Air Conditioning and System  
Efficiency**

10 AM - 11:30 AM



Dr. Rajvir Singh Doohan  
RRCAT Indore

**Recent Advances in Cryogenics**

12 PM - 1:30 PM



Dr. Manoj Gupta  
GEC Ujjain

**Thermodynamic Analysis of  
Solar Plate Collector and Solar  
Concentrators**

2 PM - 3:30 PM

**AICTE Training and Learning (ATAL)  
Academy**

Sponsored

**Faculty Development Program**

On

**“Energy Engineering”**

*14th December - 18th December, 2020*

# Sessions

Day 3 - 16<sup>th</sup> December 2020

Coordinator

**Dr. Govind Maheshwari**

Associate Professor ,  
Mechanical Engineering Department,  
Institute of Engineering and Technology,  
Devi Ahilya University, Indore



Dr. Siraj Ahmed  
MANIT Bhopal

Wind Turbine: Design and  
Performance Prediction

10 AM - 11:30 AM

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Dr. Shobha Sinha  
NIT Raipur

New Frontiers in Energy

12 PM - 1:30 PM

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Dr. Dheerendra V. Singh  
IIST Indore

Use of ANN and Decision Tree in  
Energy Analysis of Vapour  
Absorption Refrigeration System

2 PM - 3:30 PM

**AICTE Training and Learning (ATAL)  
Academy**

Sponsored

**Faculty Development Program**

On

**“Energy Engineering”**

*14th December - 18th December, 2020*

**Sessions**

**Day 4 - 17<sup>th</sup> December 2020**

Coordinator

**Dr. Govind Maheshwari**

Associate Professor ,  
Mechanical Engineering Department,  
Institute of Engineering and Technology,  
Devi Ahilya University, Indore



Dr. Neena Bansal  
Delhi University

Managing the Mind  
(Techniques of De-stressing the  
Mind)

10 AM - 11:30 AM

---



Dr. Lalit Singh  
Scientist, BARC, Mumbai

Research Scope in Nuclear  
Energy

12 PM - 1:30 PM

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Dr. Sanjay Khatwani  
SDBCT Indore

Exergy Cost Data Modelling of  
Energy Conversion Systems

2 PM - 3:30 PM



**AICTE Training and Learning (ATAL)  
Academy**

Sponsored

**Faculty Development Program**

On

**“Energy Engineering”**

*14th December - 18th December, 2020*

**Sessions**

**Day 5 - 18<sup>th</sup> December 2020**

Coordinator

**Dr. Govind Maheshwari**

Associate Professor ,  
Mechanical Engineering Department,  
Institute of Engineering and Technology,  
Devi Ahilya University, Indore



Dr. Govind Maheshwari  
IET-DAVV, Indore

Finite Time Thermodynamic  
Analysis of Heat Engine Cycles  
- A New Approach

10 AM - 11:30 AM



Dr. Roopesh Tiwari  
SAGE University, Indore

Heat Exchanger Efficiency and the  
Effect of Heat Leakages on the  
Performance of heat Exchangers

12 PM - 1:30 PM

**Institute of Engineering and Technology, Devi Ahilya University, Indore**

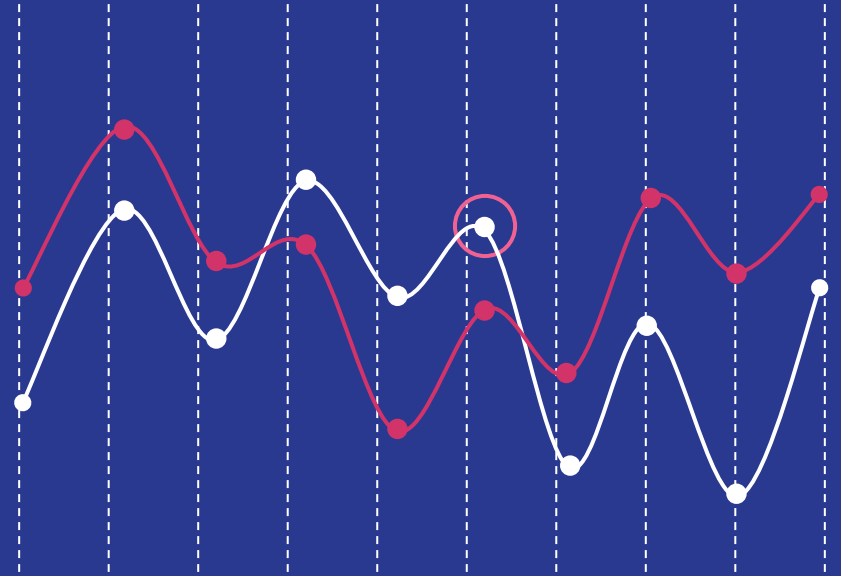
**Schedule for AICTE Sponsored FDP Program on "Energy Engineering"**

14th - 18th Dec 2020

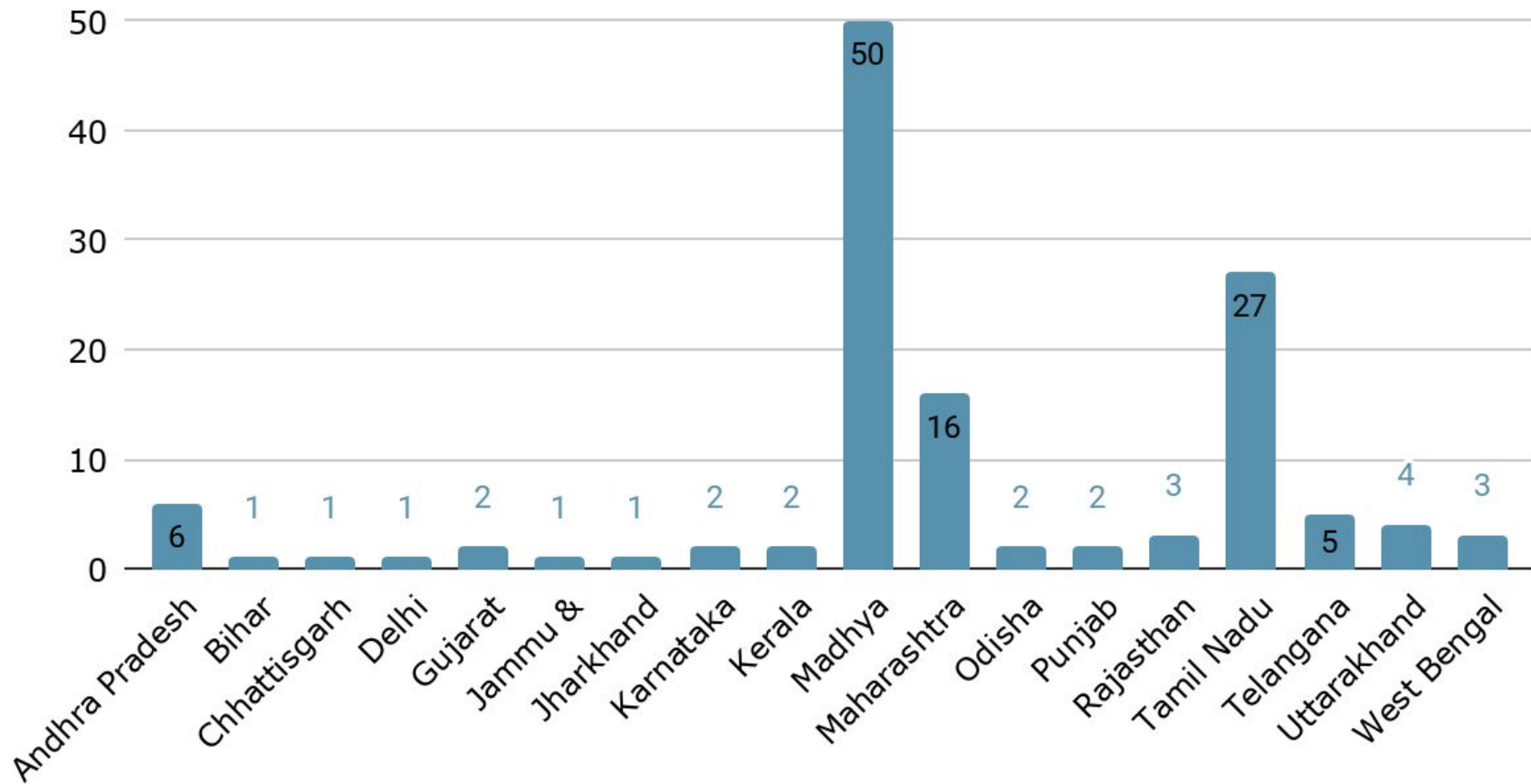
Day / Timing		Session I		Session II		Session III
		10:00 AM-11:30AM		12:00 Noon- 01:30PM		2:00PM- 03:30PM

14 December, 2020	Name of Expert	Dr.Govind Maheshwari	TEA BREAK	Dr.S.C.Kaushik	LUNCH BREAK	Dr.S.C.Kaushik
	Organization	IET-DAVV, Indore		IIT, Delhi		IIT, Delhi
	Topic	Introduction and overview of the FDP		Teaching Exergy to Scientists and Engineers		Solar Cooling Options
15 December, 2020	Name of Expert	Dr.Sharad Choudhary		Dr. Rajvir Singh Doohan		Dr.Manoj Gupta
	Organization	IET, DAVV, Indore		Scientist, RRCAT, Indore		GEC, Ujjain
	Topic	Air Conditioning and System Efficiency		Recent Advances in Cryogenics		Thermodynamic Analysis of Solar Plate Collector and Solar Concentrators
16 December, 2020	Name of Expert	Dr. Siraj Ahmed		Dr.Shobha Sinha		Dr.Dheerendra V.Singh
	Organization	MANIT, Bhopal		NIT, Raipur		IIST, Indore
	Topic	Wind Turbine: Design and Performance Prediction		New Frontiers in Energy		Use of ANN and Decesion Tree in Energy Analysis of Vapour Absorption Refrigeration System
17 December, 2020	Name of Expert	Dr Neena Bansal		Dr Lalit Singh		Dr Sanjay Khatwani
	Organization	Prof., Delhi University & Faculty, Art of Living		Scientist, BARC, Mumbai		SDBCT, INDORE
	Topic	Managing the Mind (Techniques of De-stressing the Mind)		Research Scope in Nuclear Energy		Exergy Cost Data Modeling of Energy Conversion Systems
18 December, 2020	Name of Expert	Dr.Govind Maheshwari	Dr.Roopesh Tiwari	-		
	Organization	IET, DAVV, Indore	SAGE University, Indore	IET DAVV		
	Topic	Finite Time Thermodynamic Analysis of Heat Engine Cycles- A New Approach	Heat Exchanger Efficiency and the effect of heat leakages on the performance of Heat Exchangers	Valedictory function , Feedback of participants and Quiz test		

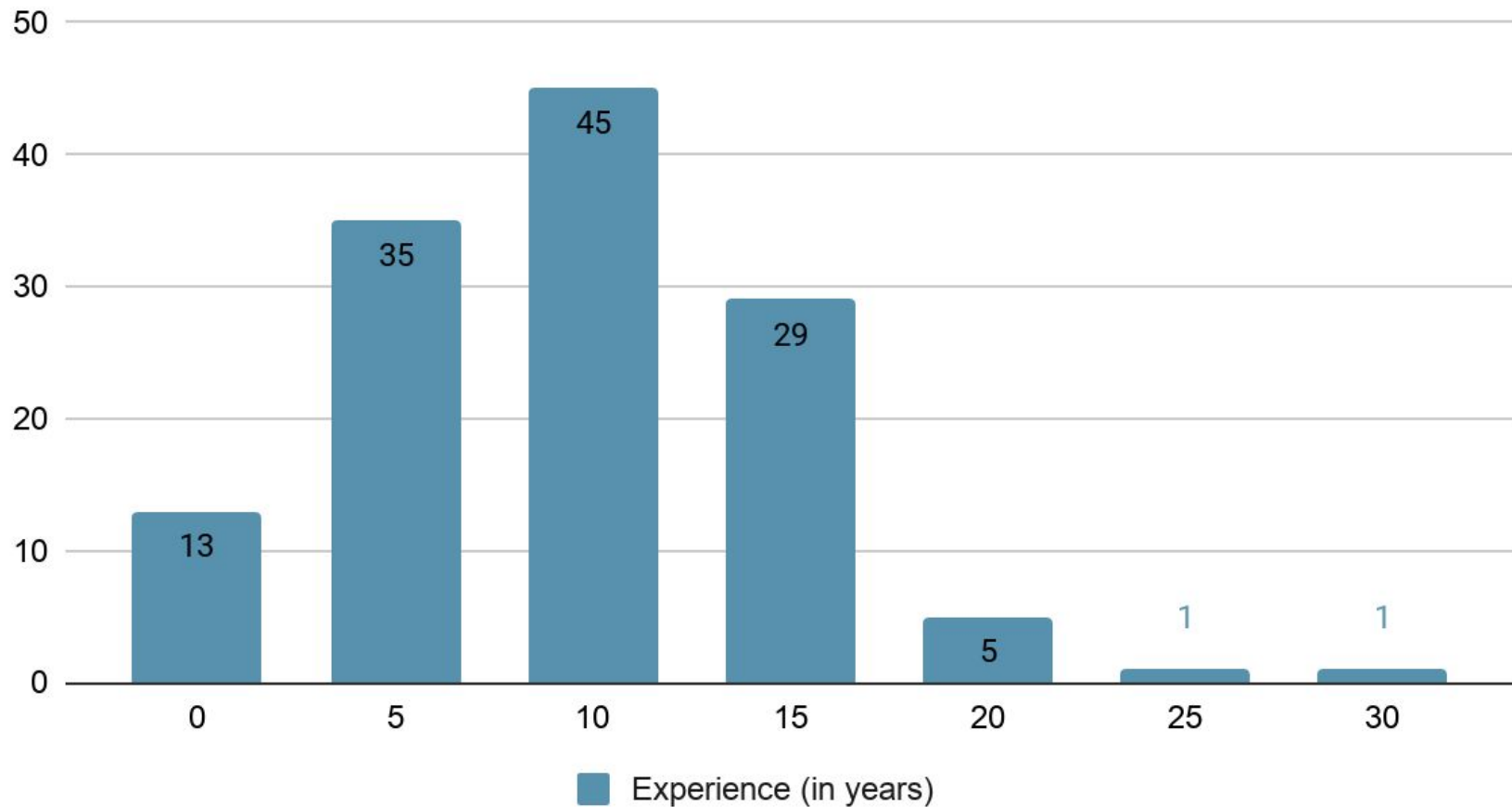
# Participant Data



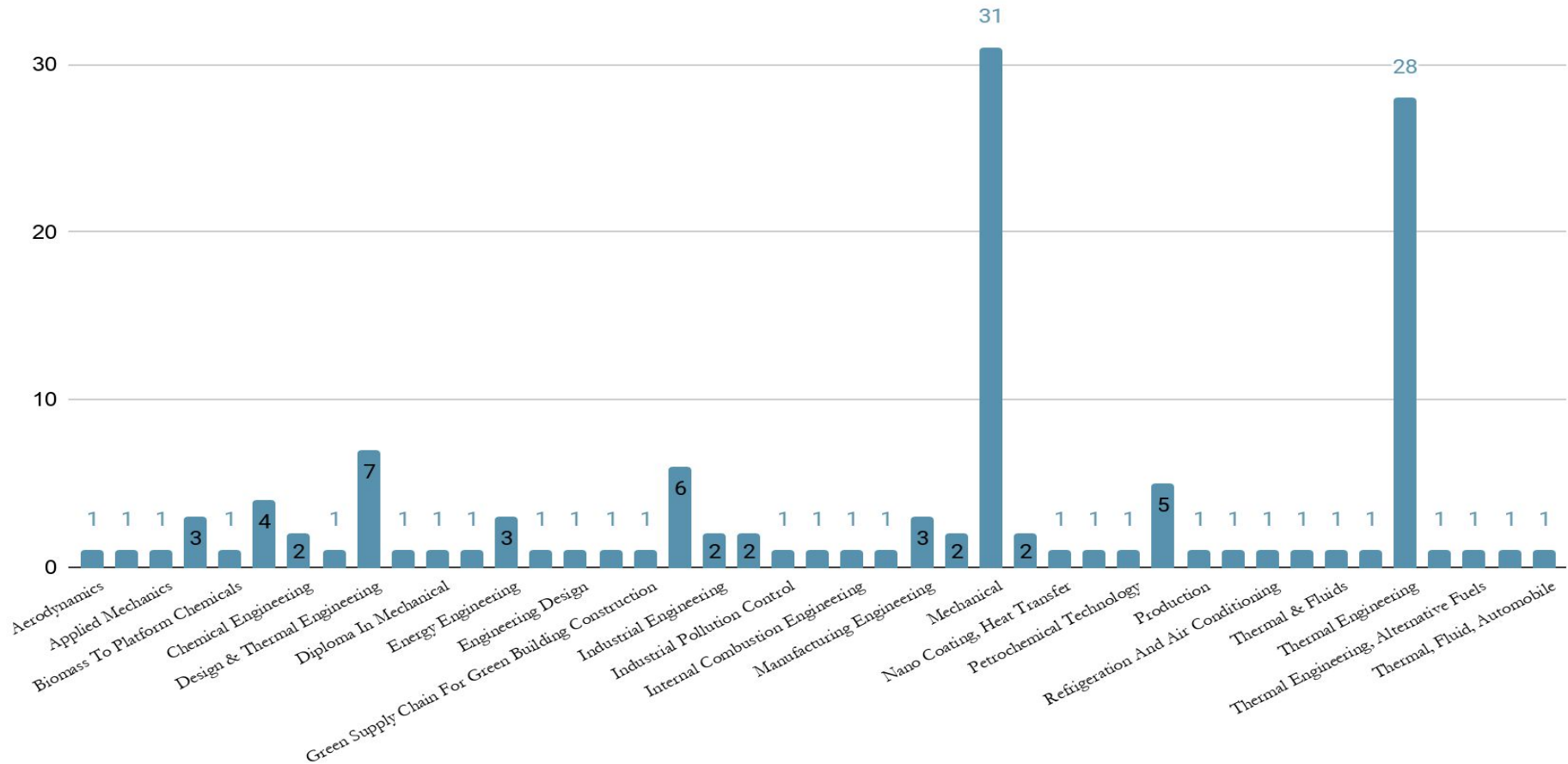
# Demography of Participants



# Experience of Participants



# Specialization of Participants







# Glimpses of the Program

The screenshot displays a Zoom meeting interface. On the left, a presentation slide is shown with the text "You're presenting to everyone" and a "Stop presenting" button. The main area features a gallery of participants, including video feeds for Govind Maheshwari and Avdhoot Walunj, and profile icons for Dr. Anupam Kumari, Kalaiarasan Rajendran, Rajadurai Arulmozhi, Vilas Hajare, Neelam Dubey, Santhosh M, and Dr. Suwarna Torgal. A large video feed on the right shows Siraj Ahmed. The top bar includes a "REC" indicator, a "You are presenting" status, a participant count of "Sabai s and 70 more", a time of "11:39 AM", and a "Presentation (You)" indicator.

REC You are presenting

S Sabai s and 70 more 11:39 AM Presentation (You) You

Govind Maheshwari Avdhoot Walunj Dr. Anupam Kumari

Kalaiarasan Rajendran Rajadurai Arulmozhi Vilas Hajare

Neelam Dubey Santhosh M Dr. Suwarna Torgal

Siraj Ahmed

You're presenting to everyone

Stop presenting



## Summary of Biophotonics workshop

SERB sponsored Faculty development Programme/workshop on Biophotonics was conducted from 6<sup>th</sup> to 7<sup>th</sup> March 2021 in which around 90 participants from different parts of the country participated, out of which 55 participants successfully completed the FDP. The inauguration was held on 6<sup>th</sup> March 2021 online at 10:00 am. Chief Guest of the program was Prof. Renu Jain (Vice-Chancellor, Devi Ahilya Vishwavidyalaya), Guest of Honour of the function were Prof. Sanjeev Tokekar (Director, IET, Devi Ahilya Vishwavidyalaya). Prof. Shashi Prakash (Coordinator, FDP) chaired the function. In addition, Directors/Heads of different departments, and participants were also present. Dr. Shashi Prakash, Coordinator of the FDP, conveyed their sincere thanks to SERB, Hon'ble Vice Chancellor Prof. Renu Jain, Director, IET, Prof. Sanjeev Tokekar, participants and University administration for all the support. The speakers for the two-day FDP/Workshop on "Biophotonics" were (i) Prof. Shashi Prakash, IET, Devi Ahilya Vishwavidyalaya, Indore (ii) Prof. Sudipta Maiti, Tata Institute of Fundamental Research, Mumbai (ii) Prof. A.K. Nirala, IIT (ISM) Dhanbad, Jhrakhand, (iii) Dr. Rajesh Kumar, IIT Ropar, Punjab. It was a great Initiative by SERB. We got huge response for registration as well as lots of compliment for arranging the online workshop, contents and hands on.

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "Institute of Engineering & Technology Devi Ahilya University, Indore". The slide content includes:

- Logos of the Institute and SERB.
- Three small portraits of speakers: Prof. Shashi Prakash, Prof. Sanjeev Tokekar, and Prof. Sudipta Maiti.
- Text: "We cordially invite you to the inaugural function of Science & Engineering Research Board Department of Science & Technology Sponsored Faculty Development Program (FDP) in BIOPHOTONICS (6-7 Mar. 2021) on 6 Feb. 2021 at 10:00 AM."

The meeting interface shows a grid of participants on the right side, including Anika Sharma, Vanshi Bhowas, Renu Jain, Ajay Verma, Sanjeev Tokekar, Sofia AAZ, Sachinika Bhat, Dr. Genudaa Kulkade, and Piyanka Dubey. The presenter, Shashi Prakash, is visible in the bottom right corner. The bottom of the screen shows the Windows taskbar and the VLC media player interface.