



INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACTIVITY NAME:

“Expert Session on Basics of Heat Transfer Processes”

DATE OF ACTIVITY: 13TH Dec, 2022

ACTIVITY COORDINATOR: Mr. Umesh Badode



APPROVAL LETTER

Date: 06/12/2022

To,

The Principal
Indore Institute of Science and Technology
Indore

Subject: Approval for Expert Session on Basics of Heat Transfer Processes

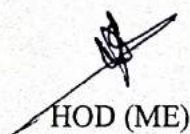
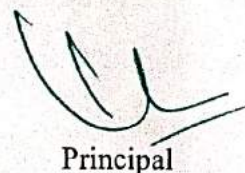
Respected sir,

We are planning an expert Session for ME students on Heat transfer processes on 13/12/2022. It will be a 2 Hr. lecture for which the expert has been invited from Manish Shah & Associates. Kindly approve the same.

Thanking You

Yours faithfully

Mr. Umesh Badode,
Assistant Professor
Mechanical Engineering Department
IIST Indore


HOD (ME)
Principal

Opposite Indian Institute of Management, Rau - Pithampur Rd, Rau, Indore, M.P. 453331
Toll Free: 1800 103 3069



ACTIVITY REPORT

Academic Year -2022-2023

Session: Jul - Dec 2022

Name of Event: Expert Session on Basics of Heat Transfer Processes

Date of Event: 13 Dec 2022.

Topic: Heat Transfer Processes

Organizing Dept.: ME

Event Coordinator: Mr. Umesh Badode

Name of Partner / co-organizer (If Industry is involved): Manish Shah & Associates

Address: E-2403, Section E, Sindwana Nagar, Indore, Madhya Pradesh 452009

Contact No.: 97522 84244

Email ID: manishshahs@gmail.com

Details of Participants

No. of Institutions Participated	No. of Students Participated	Department	No. of Industry Representative	Remark if any
		CSE IT EC ME CMTS H		
01	52	ME	01	


 HOD
 (ME)


 Principal

Opposite Indian Institute of Management, Rau - Pathampur Rd, Rau, Indore, M.P. 453331

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Date: 12/12/2022

NOTICE

This is to inform all the 2nd & 3rd Year Mechanical Engineering students that an expert session is being organized on 13th Dec. 2022 on Heat transfer Processes. It is mandatory for all students to attend the same.



Faculty coordinator
Mr. Umesh Badode



HOD
ME



CONTENTS

S.No.	TOPIC
1	Heat, Heat Flux, Heat Transfer
2	Modes of Heat Transfer
3	Laws
4	Governing Equations
5	Heat Transfer Phenomenon
6	Heat Transfer Processes in Industries
7	Query Solving



OBJECTIVES & OUTCOMES

OBJECTIVES

1. To learn about Basic Terminology of Heat Transfer
2. To learn about Modes of Heat Transfer
3. To learn about Laws of Heat Transfer
4. To know Governing Equations of Heat Transfer
5. To learn Heat Transfer Phenomenon
6. To know about various Heat Transfer Processes in Industry

OUTCOMES

- 1.1. Define the Heat transfer.
- 1.2. Represents the difference between the thermodynamic with heat transfer.
- 1.3. Explain the importance of heat transfer.
- 2.1. Sort the types of heat transfer.
- 2.2. Defines the concept of boiling and condensation.
- 2.3. Define the concept of the heat exchanger.
- 3.1 Explain heat transfer by conduction.
- 3.2. Explain the Fourier heat conduction law.
- 3.3. Define the Thermal conductivity coefficient and diffusion coefficient.
- 3.4. Explain heat transfer with convection.
- 3.5. explain Newton's law.
- 3.6. explain Heat Transfer by Radiation
- 3.7. Explain the Stefan- Boltzmann radiation law.
- 4.1 Governing Equations
- 5.1. Explain the Heat Transfer Phenomenon.
- 6.1. Heat Transfer Processes in Industrial Applications



INDUSTRY PROFILE

Manish Shah and Associates in Sudama Nagar, Indore is known to satisfactorily cater to the demands of its customer base. It stands located at E 2403, Sudama Nagar, Indore 452009. Sudama Nagar is a prominent landmark in the area and this establishment is in close proximity to the same. It has earned stamps like Jd Verified, Jd Pay substantiating the credentials of the business. The business strives to make for a positive experience through its offerings.

Customer centricity is at the core of Manish Shah And Associates in Sudama Nagar, Indore and it is this belief that has led the business to build long-term relationships. Ensuring a positive customer experience, making available goods and/or services that are of top-notch quality is given prime importance.

India's leading B2B market place, Jd Mart ensures engaging in business activities is a seamless process for small and medium enterprises as well as large businesses. In a wake to enable these businesses to reach their audience, this portal lets them showcase their offerings in terms of the products and/or services through a digital catalogue. This business has a wide range of product offerings and the product/catalogue list includes Switch Board, Lt Switch Board, Electrical Panel, Flow Meter, Electrical Switchgear etc.



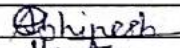
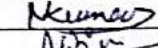

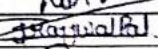
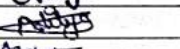
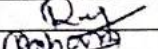
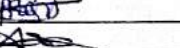

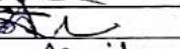
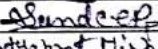
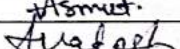
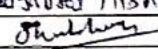
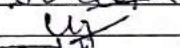

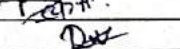

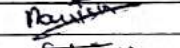
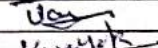
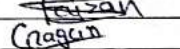
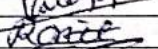
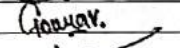
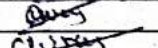
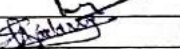
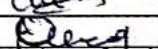
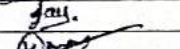
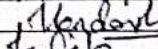
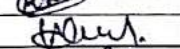

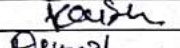
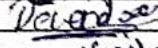
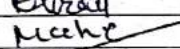
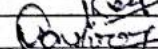

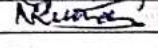
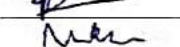

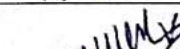

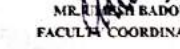












Department of Mechanical Engineering
LIST OF PARTICIPANTS

1	ABHINESH ANURAGI	0818ME211001	28	NITEESH KUMAR SAKET	0818ME211030
2	ABHISHEK PURI	0818ME211002	29	NITIN KUSHWAH	0818ME211031
3	ADITYA DUKARJYA	0818ME211004	30	PRAJWAL PAL	0818ME211032
4	ADITYA YADAV	0818ME211005	31	RAJ AMOLE	0818ME211033
5	AKASH PANDAGRE	0818ME211006	32	ROHAN KUMAR	0818ME211034
6	ARSHAD SHAIKH	0818ME211008	33	ROHIT PANDORIA	0818ME211035
7	ARYAN NARVARJYA	0818ME211009	34	SANDEEP BALODIYA	0818ME211037
8	ASMIT VERMA	0818ME211010	35	SATYABRAT MISHRA	0818ME211038
9	AVADHESH PRATAP SINGH HADA	0818ME211011	36	SHUBHAM KOTHARE	0818ME211039
10	CHIRAG SARSONIYA	0818ME211012	37	SUNIL DHOTE	0818ME211040
11	DEEPTI VERMA	0818ME211013	38	TANISH SHARMA	0818ME211041
12	DEV PANWAR	0818ME211014	39	UJJWAL PATIDAR	0818ME211042
13	DHANESH BAWANYA	0818ME211015	40	VASU NAGAR	0818ME211043
14	FAIZAN MANSURI	0818ME211016	41	VINAYAK RAUTHEAR	0818ME211044
15	GAGAN PATIDAR	0818ME211017	42	YASHW ARJUN CHOURHARY	0818ME211045
16	GOURAV MISHRA	0818ME211018	43	YUVANSH SHAJI	0818ME211046
17	HARSHIT JAGTAP	0818ME211019	44	CHIRAG SHINDHE	0818ME221004
18	HARSHIT KADAM	0818ME211020	45	ABHJEET CHANGAL	0818ME221001
19	JAY BARANIYA	0818ME211021	46	VITHANSHI PATIDAR	0818ME221011
20	KAMAL PARIHAR	0818ME211022	47	KARTIK PATIDAR	0818ME221008
21	KEVANSINGH KAMLIYA	0818ME211023	48	ALOK CHOURHAN	0818ME221002
22	KRISH SHIRWAS	0818ME211024	49	DEVENDRA PARWAR	0818ME221005
23	KUNAL JOSHI	0818ME211025	50	KARAN SOLANKI	0818ME221007
24	MAHESH JADHAV	0818ME211026	51	VANSHIRAJ CHOURHAN	0818ME221D01
25	MOHIT NAGVANSHI	0818ME211027	52	HARSH MISHRA	0818ME221D02
26	NAMAN TAMRAKAR	0818ME211028			
27	NIKHIL BEDI	0818ME211029			

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INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE							
DEPARTMENT OF MECHANICAL ENGINEERING							
EXPERT SESSION ON BASICS OF HEAT TRANSFER PROCESSES 13/12/2022							
ATTENDANCE							
S.no.	Name of the student	Enrollment Number	Signature	S.no.	Name of the student	Enrollment Number	Signature
1	ASHNESH ANURAGE	0818ME211001		28	NITEESH KUMAR SAKET	0818ME211030	
2	ABHISHEK PURI	0818ME211002		29	NITIN KUSHWAH	0818ME211031	
3	ADITYA DUKARIYA	0818ME211004		30	PRAJWAL PAL	0818ME211032	
4	ADITYA YADAV	0818ME211005		31	RAJ AMOLE	0818ME211033	
5	AKASH PANDAGRE	0818ME211006		32	ROHAN KUMAR	0818ME211034	
6	AKSHAD SHAIKH	0818ME211008		33	ROHIT PANDORIA	0818ME211035	
7	ARYAN NARVARIYA	0818ME211009		34	SANDEEP BALODIYA	0818ME211037	
8	ASMIT VERMA	0818ME211010		35	SATYABRAT MISHRA	0818ME211038	
9	AVADHESH PRATAP SINGH RADA	0818ME211011		36	SHUBHAM KOTHARE	0818ME211039	
10	CHIRAG SARSONIYA	0818ME211012		37	SUNIL DHOTE	0818ME211040	
11	DEEPTI VERMA	0818ME211013		38	TANISH SHARMA	0818ME211041	
12	DEV PANWAR	0818ME211014		39	LIJAWAL PATIDAR	0818ME211042	
13	DHANESH BAWANYA	0818ME211015		40	VASU NAGAR	0818ME211043	
14	FAIZAN MANSURI	0818ME211016		41	VINAYAK RAJBHAR	0818ME211044	
15	GAGAN PATIDAR	0818ME211017		42	YASHWARDHAN CHOUDHARY	0818ME211045	
16	GOURAV MISHRA	0818ME211018		43	YUVANSH SHAH	0818ME211046	
17	HARSHIT JAGTAP	0818ME211019		44	CHIRAG SHINDHYE	0818ME221004	
18	HARSHIT KADAM	0818ME211020		45	ABHJEET CHANGAL	0818ME221001	
19	JAY BARANIYA	0818ME211021		46	VEDANSH PATIDAR	0818ME221011	
20	KAMAL PARTHAR	0818ME211022		47	KARTIK PATIDAR	0818ME221008	
21	KEVANSINGH KAMLIYA	0818ME211023		48	ALOK CHOCHAN	0818ME221002	
22	KRISH SHETWAS	0818ME211024		49	DEVENDRA PARWAR	0818ME221005	
23	KUNAL JOSHI	0818ME211025		50	KARAN SOLANKI	0818ME221007	
24	MAHESH LADHAV	0818ME211026		51	VANSHIRAJ CHOCHAN	0818ME221D01	
25	MOHIT NAGVANSHI	0818ME211027		52	HARSH MISHRA	0818ME221D02	
26	NAMAN TAMRAKAR	0818ME211028					
27	NIKHIL BEDI	0818ME211029					

MR. R. J. BADODE
FACULTY COORDINATOR



PHOTO



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EVENT FEEDBACK FORM

S.No.	
1.	The trainer was having complete knowledge of the subject <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know
2.	The trainer was well-prepared for the sessions <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know
3.	The content of the training was useful. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know
4.	The content of the training was well-planned. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know
5.	The Content delivery by the trainer was excellent. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know
6.	The knowledge and skills gained from the training helped me in improve my skills. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know
7.	The technical aspects covered were of advanced level <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know
8.	The training has met the stated objectives fully. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know
9.	I would be interested in attending more training programmes like this <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know
10.	Are you satisfied with this event <input type="radio"/> Strongly Satisfied <input type="radio"/> Satisfied <input type="radio"/> Partially Satisfied <input type="radio"/> Unsatisfied <input type="radio"/> Don't know



QUESTION WISE FEEDBACK REPORT

S.No.	Strongly Agree	Agree	Neutral	Partially Agree	Disagree	Count	Total
	5	4	3	2	1		
Q.1	40	11	1	0	0	52	247
Q.2	35	14	3	0	0	52	240
Q.3	36	15	1	0	0	52	243
Q.4	45	5	2	0	0	52	251
Q.5	42	7	3	0	0	52	247
Q.6	38	8	6	0	0	52	240
Q.7	39	9	4	0	0	52	243
Q.8	40	10	2	0	0	52	246
Q.9	42	9	1	0	0	52	249
Q.10	37	8	7	0	0	52	238

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EVENT SUMMARY

An expert lecture on Basics of Heat Transfer Phenomenon was organized by Department of Mechanical Engineering on 13/12/2023 11 am onwards at Audi 1. The topic for the expert Session was Heat transfer phenomenon. The expert for the session was Mr. Namit J., Mechanical Engineer, Manish Shah & Associates Indore.

The session started with the floral welcome of the guest by HOD Mechanical Engineering Dr. D.V.Singh. Dr. Keshav Patidar, Principal, IIST brief the students on the applications of heat transfer phenomenon in various sectors of Engineering. After this Mr. namit started the session by introduction to heat, heat transfer, heat flux and heat transfer modes.

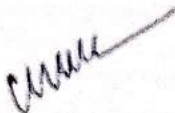
He thoroughly explained the Basics of heat transfer processes in various applications of Engineering. The mathematical aspects of heat transfer and governing equations like Fourier's law, Stephen boltzman law and Newton's law. Each and every law was discussed and all the expressions were also derived.

After this he went on to cover the engineering processes in which the heat transfer phenomenon occurs.

The students got benefited in the form of gaining the knowledge on Heat transfer.

At the end of the session Mr. Namit answered all the queries asked by the students. The Vote of thanks was given by Faculty Coordinator Mr. Umesh Badode.

Faculty Coordinator



Mr. Umesh Badode,

Assistant Professor,

ME Dept., IIST



PO/PSO/PEO MAPPING

S.No.	Name of Activity	Type	PO/PSO/PEO Mapping
1.	Expert Session on Basics of Heat Transfer Phenomenon	Expert Session	PO3,PO5,PSO1,PEO2

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