

Short Term Course (Online Mode) on FUNDAMENTALS OF THERMODYNAMICS

17th - 24th May 2024

About the Institute: Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kurnool is an Institute of National Importance under the Ministry of Education, Government of India. It is established in the year 2015 and aimed to become a Centre of Excellence for pursuing Design and Manufacturing Oriented Engineering Education and Research domains. Currently, the Institute is offering 4 B.Tech programmes in Computer Science and Engineering (CSE), Artificial Intelligence and Data Science (AI&DS), Electronics and Communication Engineering (ECE), and Mechanical Engineering (ME), 3 B.Tech Dual Degree programmes in CSE, ECE & ME, and 6 M.Tech programmes. Ph.D. programmes in Science and Engineering Departments are being offered in frontier research areas under the guidance of experienced faculty.

CHIEF PATRON

Prof. DVLN Somayajulu Director **IIITDM Kurnool**

PATRON

COURSE COORDINATOR Dr. Muvvala Pullarao

Assistant Professor & HoD Department of Mechanical Engineering IIITDM Kurnool

About the Department: The Department of Mechanical Engineering came into existence in the year 2016. The Department has 10 qualified and dedicated regular faculty members with specializations in various areas of Mechanical Engineering. At present, the Department is offering 1 UG, two PG programmes, and Ph.D. programme in cutting-edge research areas.

Objective of the Short-term Course: Thermodynamics is the very fundamental subject that will be taught in several B.Sc. and B.Tech courses. This subject deals with the conversion of energy from heat to work and vice versa. The concepts of thermodynamics are the building blocks in several energy related equipment. This short-term course (Online Mode) primarily targets teachers and aspiring teachers from Degree and Engineering colleges and universities. So, we welcome the applications from interested student participants (UG/PG/PhD) as well. The primary focus is on a leisurely exploration of fundamental concepts in Thermodynamics and Applications through interactive lectures, with a strong emphasis on solving the questions in competitive exams (GATE, and IES). The short-term program lectures specifically address topics directly relevant to the teachers' classroom teachings.

Registration details and Eligibility:

- * This short-term course is open to all the Faculty (Degree and Engineering colleges), Ph.D. scholars, P.G, U.G students, and Practicing Engineers.
- ❖ The Registration Fee (Non-refundable) for attending this program is as follows:

Participant Type	Fee (Rs)
U.G., P.G., Ph.D. students	1,000/-
Faculty (SC/ST/Female)	1,000/-
Faculty (Others)	2,000/-

- ❖ Online payment must be transferred to "IIIT DM Kurnool", payable at ICICI Bank Ltd, C Camp branch, Kurnool (IFSC code: ICICI0007567 and Account No. 756701001024).
- ❖ The participants should fill their details in the google form: https://docs.google.com/forms/d/1E- 81Zr1rvXoKKUEUgOHlyPMy02dFF1m5MdytByj0T7g/edit. The Registration form along with the proof of Fee payment transaction must be uploaded in this google form.

Important Dates:

- ➤ Registration starts: 24-April-2024.
- Last date of the application: 14-May-2024
- ➤ Display of the shortlisted applicants: 15-May-2024

Contact Details:

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Mr. Rambabu Dara, PhD. Scholar, Mobile No: 9492422415.

Self-financed

Short Term Course (Online Mode) on FUNDAMENTALS OF THERMODYNAMICS

(17th - 24th May 2024)

Organized by: Department of Mechanical Engineering, Indian Institute of information Technology Designand Manufacturing Kurnool, Kurnool-518008, Andhra Pradesh,India

COURSE REGISTRATION FORM
Name of the Participant:
Gender:
Pursuing Degree (For students): (Ph.D. / PG / UG)
Degree (For Faculty/Professionals):
Category: (SC/ST/OBC/Gen)
Department:
Organization Name and Address:
Mobile Number:
Email:
Payment Transaction Number and Date:
Fee Paid: (Rs)
I agree to abide by the rules and regulations governing the course.
Signature of the Participant
Place:
Date:

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Tentative Schedule

Date	10:00 to 11:30 AM	11:30	11:40 AM to 01:10 PM	01:10	02:00 to 03.30 PM	03.30	03:40 to 05:10 PM
		to		to		to	
		11:40 AM		02:00 PM		03.40 PM	
	Inaugural Function &	Break	Session 2	Break	Session 3	Break	Session 4
17-05-	Session 1	Dicak	Basics of	Dicak	Basics of Thermodynamics	Dicak	Temperature, Zeroth
2024	Scope of Thermodynamics		Thermodynamics		continued		Law
202 T	(Dr. MPR)		(Dr. MPR)		(Dr. MPR)		(Dr. MPR)
18-05-	Session 5		Session 6	-	Session 7		Session 8
2024					First Law of		First Law of
2024	Heat, Work, Energy		Heat, Work, Energy continued				
	(Dr. MPR)				Thermodynamics for cycles		Thermodynamics for
			(Dr. MPR)		(Dr. MPR)		closed systems
20.05	0		0	_	0		(Dr. MPR)
20-05-	Session 9		Session 10		Session 11		Session 12
2024	First Law of		First Law of		First Law of		Second Law of
	Thermodynamics for		Thermodynamics for		Thermodynamics for Open		Thermodynamics
	closed systems		Open systems		systems continued		(Dr. AK)
	continued		(Dr. AK)		(Dr. AK)		
01.05	(Dr. MPR)			4			0 1 16
21-05-	Session 13		Session 14		Session 15		Session 16
2024	Second Law of		Second Law of		Entropy		Entropy continued
	Thermodynamics		Thermodynamics		(Dr. AK)		(Dr. AK)
	continued		continued				
	(Dr. AK)		(Dr. AK)				
22-05-	Session 17		Session 18		Session 19		Session 20
2024	Ideal and Real Gases		Thermodynamic		Combustion basics and		Properties of pure
	(Dr. MPR)		Relations		Gas Mixtures		substances
			(Dr. MPR)		(Dr. MPR)		(Dr. MPR)

23-05-	Session 21	Session 22	Session 23	Session 24
2024	Properties of pure	Properties of pure	Air-standard cycles	Air-standard cycles
	substances continued	substances continued	(Dr. NY)	continued
	(Dr. MPR)	(Dr. MPR)		(Dr. NY)
24-05-	Session 25	Session 26	Session 27	-
2024	Vapour cycles	Refrigeration	Refrigeration continued	
	(Dr. NY)	(Dr. NY)	(Dr. NY)	
			& Valedictory	

Dr. MPR: Dr. Muvvala Pullarao, Assistant Professor, IIITDM Kurnool

Dr. AK: Dr. Anuj Kumar, Assistant Professor, IIITDM Kurnool Dr. NY: Dr. Naresh Yarramsetty, Assistant Professor, NIT Surat