CETM-2025

ASSIGNMENT BOOKLET

CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)

Last date for submission:

15th May, 2025 30th September, 2025



School of Engineering and Technology Indira Gandhi National Open University Maidan Garhi, New Delhi-110 068 Dear Student,

We advise you to go through your programme guide carefully and read the section pertaining to assignments. A weightage of 30 percent, as you are aware, has been earmarked for continuous evaluation which would consist of **one tutor-marked assignment** for each of OEY 001, OEY 002 and OEY 003 of this course. You have to score a minimum of 40 marks out of 100 marks in each of the assignments. **Submit your assignment response at your Study Centre.**

Instructions for Formatting Your Assignments

Before attempting the assignment please read the following instructions carefully.

1)	On top of the first format:	st page of your TMA answer sho	eet, please write the details exactly in the following
		ENROLME	ENT NO:
			NAME:
		AD	DDRESS:
CC	OURSE CODE:		
CC	OURSE TITLE:		
AS	SIGNMENT NO	:	
ST	TUDY CENTRE:		DATE:
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PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

- 2) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) While solving problems, clearly indicate the question number along with the part being solved. Be precise. Recheck your work before submitting it.
- 6) The assignment should be in your own handwriting. Typed assignments will not be accepted.

Answer sheets received after the due date shall not be accepted.

We strongly feel that you should retain a copy of your assignment response to avoid any unforeseen situation and append, if possible, a photocopy of this booklet with your response.

We wish you good luck.

Assignment-2

(To be done **after** studying the course material)

Course Code: OEY 002

Assignment Code: OEY-002/TMA/2025

Maximum Marks:100

Note:

- 1. In any question, whenever we ask you to suggest an activity we expect you to give one other than those covered in the units.
- 2. For any question worth 5 marks the word limit is 200 words, for a 10 mark question it is 350 words, and for a 15 mark question it is 500 words.
- 3. All questions are compulsory. The marks of each question are indicated against it.

Q 1.	What is the Kirchoff's Law of radiation and what are the main features of Solar radiation?		
Q.2	(a) Explain working of Solar Lantern with proper sketch.	10	
	(b) Draw and explain current -voltage characteristics of a solar cell. What is packing factor?	10	
Q.3	(a) Explain schematic flow sheet for high rate farm scale digester.	10	
	(b) Explain floating drum biogas digester with neat diagram. Also write its advantages and disadvantage	10	
Q.4.	(a) Explain the Trombe wall in detail. Also explain effect of window orientation.	10	
	(b) Draw the block diagram of solar drying system and explain its different component.	10	
Q.5	(a) Explain Solar water heater with neat schematic diagram. Also compare it with electric heater it terms of advantages and disadvantages.		
	b) Write short notes on following: (i). Standalone PV System (ii). Solar air heater	05 05	