

CSWATT/July/2025

ASSIGNMENT BOOKLET

**CERTIFICATE IN SOLID WASTE TREATMENT TECHNIQUES
(CSWATT)**

Last date for submission

31st October



**School of Engineering and Technology
Indira Gandhi National Open University
Maidan Garhi, New Delhi - 110068**

Dear Learners,

As you are aware, a weight-age of 30% has been earmarked for continuous evaluation which would consist of **Tutor Marked Assignment** for each course, BWA001, BWA002, BWA003 and BWA004 of this program. Learners are required to score minimum 40 marks out of 100 marks in assignment of each course. Submit assignment response to **Programme Coordinator (CSWATT), Block C, School of Engineering & Technology, Indira Gandhi National Open University, Maidan Garhi, New Delhi - 110068**

INSTRUCTIONS FOR SUBMITTING ASSIGNMENTS

Before attempting the assignment, please read the following instructions carefully:

- 1) On top of the first page of TMA answer sheet, please write the details exactly in the following format:

	Enrolment no:
	Name:
	Address:
Course code:	
Course title:	
Assignment code:	
Study centre:	Date:

Please follow the above format to facilitate evaluation and to avoid delay.

- 2) Use full size paper for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Answers should be precise.
- 5) While solving problems, clearly indicate the question number along with the part being solved, if any. Recheck your work before submitting it.

Assignments received after the due date shall not be accepted. We strongly feel that learner should retain a copy of assignment response to avoid any unforeseen situation and append, if possible.

Course Code: BWA004

Title of the Course: Disposal of Wastes

Assignment Code: BWA004/TMA/ July/2025

Maximum Marks: 100

Note: All questions are compulsory. All questions carry equal marks.

1. Explain the classification of sanitary land filling based on sources of Solid waste.
2. Write a note on microbial degradation of refuse in landfills.
3. Discuss the landfill liners & Covers.
4. Write the design consideration for Landfills.
5. What are the gases components that emerge from a typical landfill and the factors that affect its production?
6. Discuss the several hazards and health issues created by landfill gases.
7. Explain the various methods for the treatment of landfill gases.
8. What is water balance method? Explain the mechanism of leachate generation with reference to water balance method.
9. Discuss the various contaminants present in leachate?
10. Explain in brief different treatment methods for leachate?