CSWATT/Jan/2026

ASSIGNMENTBOOKLET

CERTIFICATE IN SOLID WASTES TREATMENT TECHNIQUES (CSWATT)

Lastdateforsubmission

31th March

SchoolofEngineeringandTechnology
IndiraGandhiNationalOpenUniversity
MaidanGarhi,NewDelhi-110068

DearLearners,

As you areaware, a weightage of 30%hasbeenearmarkedforcontinuous evaluationwhichwouldconsistof**Tutor MarkedAssignment**foreach course,BWA-001,BWA-002,BWA-003 andBWA-004 ofthisprogram.Learners are required to scoreminimum40marksoutof100marksin assignment of each course.Submitassignment response to**Programme Coordinator (CSWATT), BlockC, SchoolofEngineering&Technology,IndiraGandhiNationalOpenUniversity,MaidanGarhi,New Delhi-110068**

Afeedbackformisenclosedwiththisassignment.Pleasecompleteitaftersolvingthisassignmenta nd senditttotheCourseCoordinator(CSWATT)ontheaddressspecifiedonthefeedbackform.

INSTRUCTIONSFORSUBMITTINGASSIGNMENTS

Beforeattemptingtheassignment,pleasereadthefollowinginstructionscarefully:

1)OntopofthefirstpageofTMAanswersheet,pleasewritethedetailsexactlyinthefollowing format:

Enrolmentno:
Name:
Address:

Coursecode:
Coursetitle:
Assignment code: **Assignmentno.:**
Study Centre: **Date:**

Pleasefollowtheaboveformattofacilitateevaluationand toavoiddelay.

2)Usefullsizepaperforwritingyouranswers.

3)Leave4cmmarginontheleft,topandbottomofyouranswersheet.

4)Answersshouldbeprecise.

5) Whilesolvingproblems,clearlyindicatethequestionnumberalongwiththepartbeingsolved, if any.Recheckyourworkbeforesubmittingit.

Answersheetsreceivedaftertheduedateshallnotbeaccepted.Westronglyfeelthatlearners houldretainacopyofassignmentresponsetoavoidanyunforeseen situationandappend,ifpossible.

WEWISHGOODLUCK!

Course Code: BWA-004
Title of the Course: Disposal of Wastes
Assignment Code:BWA-004/TMA/**Jan/2026**
Maximum Marks:100

Note: Allquestionsarecompulsory.Allquestionscarryequalmarks.

1. Explain the classification of sanitary landfilling based on sources of Solid waste.
2. Write a note on microbial degradation of refuse in landfills.
3. Discuss the landfill liners and its classification.
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. Explain the mechanism of leachate generation with reference to water balance method?
9. What are the various contaminants present in leachate?
10. Explain briefly different treatment methods to treat leachate?