



# Civil Engineering

**Vision: “To impart quality technical education beneficial to industry and the society in the field of Civil Engineering.”**

- **Mission:** • To arrange academic and technical expertise.
  - To improve the practical knowledge of the student as per current scenario of industry.
  - To make the students socially and ethically responsible.

**Assignment No :- 01**

**Topic Name :- Fundamentals of solid waste management**

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1. State the various factors affecting solid waste generation.
2. State two physical and two chemical characteristics of solid waste.
3. Explain the impact of solid waste on environment.
4. Explain four R's in waste hierarchy.
5. Define recycling. What are the purposes of recycling?
6. Differentiate between hazardous and non-hazardous solid waste.

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**Date of Submission :- Within the one week after completion of the chapter.**

**Assign By :- Mrs. Pranjali Chafale**



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**Assignment No :- 02**

**Topic Name :- Storage, collection and transportation of municipal solid waste.**

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1. Enlist any four transport vehicles with their capacities for transporting municipal waste.
2. State various methods of storage of municipal solid waste.
3. Define transfer station. State about its necessity and criteria location of transfer station.
4. Draw organization pattern of solid waste management?
5. State the measures to be taken to improve services of municipal waste.
6. State how enforcement can help in stopping littering in the street.

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**Assignment No :- 03**

**Topic Name :- Disposal of municipal solid waste.**

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- Describe Indore and Bangalore method of composting..
- How is the leachate management done?
- Describe the process of incineration.
- Explain Vermicomposting.
- Enlist the method of land filling of solid waste. Explain any one.
- Explain about various methods of collection of recyclable materials.

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**Assignment No :- 04**

**Topic Name :- Biomedical waste management and health aspect.**

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- State biomedical waste management technologies and explain any one.
- State the importance of public involvement and participation in SWM.
- Explain in detail about biomedical waste management and handling as per rule 1998.
- State do's and Dont's to avoid health problem during solid waste management.
- State the health problems that may be faced during segregation, reuse, and recovery and recycling of solid waste.

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**Assignment No :- 05**

**Topic Name :- Industrial waste management and E-waste management.**

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- State the varieties of E waste and why it is dangerous?
  - Explain the recycling of industrial waste.
  - State the benefits of recycling of E waste.
  - Explain the various control measures of industrial waste.
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**Assignment No :- 06**

**Topic Name :- Legal aspect of solid waste management.**

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- State the silent features of solid waste management rules, 2016.
- State the silent features of plastic waste management rules, 2016.
- State the role of CPCB and MPCB in management of solid waste from various sources.
- Describe the present scenario with regard to SWM in India.

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