

PANIPAT INSTITUTE OF TECHNOLOGY, SAMALKHA, PANTPAT
Department of Civil Engineering
Lecture Delivery Schedule

Semester: 8th Sem.

Faculty Name: Mr. Balraj Singh

Course Title: Industrial Waste Water Treatment

Course No . CE-406N

Unit	Topics to be covered	Schedule date	Covered On	Reference Used (Book/Web/NPTEL etc.)
1	Introduction about waste water and classification	1/03/21		TextBook-2 /Ref.Book-1
	Effects of industrial wastes on streams	2/03/21		TextBook-2 /Ref.Book-1
	Effects of industrial wastes on sewerage systems	3/03/21		TextBook-2 /Ref.Book-1
	Effects of industrial wastes on wastewater treatment plants	5/03/21		TextBook-2 /Ref.Book-1
2	Minimizing the effects of industrial effluents on waste water treatment plants	8/03/21		TextBook-2 /Ref.Book-1
	Minimizing the effects of industrial effluents on receiving streams- conservation of water,	9/03/21		TextBook-2 /Ref.Book-1
	Minimizing the effects of industrial effluents on process change	12/03/21		TextBook-2 /Ref.Book-1
	reuse of waste water	15/03/21		TextBook-2 /Ref.Book-1
	Conservation of waste water	16/03/21		TextBook-2 /Ref.Book-1
	strength reduction	19/03/21		TextBook-2 /Ref.Book-1
	neutralization,	22/03/21		TextBook-2 /Ref.Book-1
	equalization	23/03/21		TextBook-2 /Ref.Book-1
	proportioning	25/03/21		TextBook-2 /Ref.Book-1
3	Population equivalent	29/03/21		TextBook-3 /Ref.Book-1

	Numericals on Population equivalent	1/014/21		TextBook-3 /Ref.Book-1
	Industrial effluent standards for disposal into inland	5/04/21		TextBook-3 /Ref.Book-1
	Industrial effluent standards for disposal into inland surface water sources	7/04/21		TextBook-3 /Ref.Book-1
	Industrial effluent standards for disposal into on land	10/04/21		TextBook-3 /Ref.Book-1
	Industrial effluent standards for disposal into public sewers	15/04/21		TextBook-3 /Ref.Book-1
4	Study of the following Industries from waste water quality	16/04/21		TextBook-1 /Ref.Book-1
	Study of the following Industries from waste water treatment including brief overview of manufacturing process of Textile industry	19/04/21		TextBook-1 /Ref.Book-1
	Study of the following Industries from waste generation from Tannery	22/04/21		TextBook-1 /Ref.Book-1
	Study of the following Industries from waste generation from Sugar Mill	23/04/21,		TextBook-1 /Ref.Book-1
	Study of the following Industries from waste generation from Distillery	24/04/21		TextBook-1 /Ref.Book-1
	Study of the following Industries from waste generation from dairy and pulp & paper	26/04/21		TextBook-1 /Ref.Book-1
	Study of the following Industries from waste generation from metal plating	27/04/21		TextBook-1 /Ref.Book-1
	Study of the following Industries from waste generation from oil refinery	28/04/21,		TextBook-1 /Ref.Book-1
	Study of the following Industries from waste generation from thermal power plant	29/04/21		TextBook-1 /Ref.Book-1
	Study of the following Industries from waste water treatment including brief overview of manufacturing process of thermal power plant	30/04/21		TextBook-1 /Ref.Book-1

Text Book Referred by University:

- Industrial and Hazardous Waste Treatment by N.L.Nemerow & A.Dasgupta.

- Industrial Effluents by N.Manivasakam.
- Waste Water Treatment by M.N.Rao & A.K.Dutta.

Text Book Referred by Faculty:

- Industrial and Hazardous Waste Treatment by N.L.Nemerow & A.Dasgupta.