PCC-CVE304-T Sewerage & Sewage Treatment

Name of the Faculty	**:**	Ms. Manju Godara
Discipline	**:**	B.Tech in Civil Engineering
Semester	**:**	VI (3rd Year)
Subject	**:**	Sewerage & Sewage Treatment
Lesson Plan Duration	**:**	15 Weeks
Work Load (Lecture / Practical) per week (in hrs.)	**:**	Lectures – 02

Week	Theory		Date
	Lecture Day	Topic (Including assignment / Test)	
1st	1	**Collection of sewage:** Importance of sanitation, Systems of sewerage - separate, combined and partially separate.	
	2	Quantity of sanitary sewage and variations	
2nd	3	Shapes of sewer - circular and egg shaped.	
	4	Design of sewers, self- cleansing velocity and slopes	
3rd	5	Construction and testing of sewer lines	
	6	Sewer materials. joints and appurtenances	
4th	7	**Sewage Characterization:** Quality parameters	
	8	BOD, COD, Solids	
5th	9	D.O., Oil & Grease	
	10	Indian Standards for disposal of effluents into inland surface sources and on land	
6th	11	Indian Standards for disposal of effluents into inland surface sources and on land	
	12	Sewage Treatment,Objectives	
7th	**1st Minor Test**		
8th	13	Sequence and efficiencies of conventional treatment units.	
	14	Preliminary treatment, screening and grit removal units	
9th	15	Theory and design aspects of primary treatment	
	16	secondary treatment- activated sludge process & its modifications,	
10th	17	Tricking filter, sludge digestion and drying beds	
	18	Stabilization pond	
11th	19	Aerated lagoon	
	20	UASB process	
12th	21	Septic tank	
	22	Imhoff tank	
13th	23	**Disposal** of **Sewage:** Disposal of sewage by dilution	
	24	Self-purification of streams	
14th	**2nd Minor test**		
15th	25	Sewage disposal by irrigation(sewage treatment)	
	26	Sewage disposal by irrigation(sewage treatment)	