LESSON PLAN

Academic Session :- 2021(WINTER)

	SUBJECT:-WSSE,SUB CODE:-TH4			TOTAP PERIOD-75
Teacher :- MONALI MONALISA BAL				THEORY:-5P/WEEK
				SEMESTER:-5TH 2ND SHIFT)
MONTH	DATE	DAYS/PERIOD	Syllabus to be covered	NO. OF PERIODS AVAILABLE
			CHAPTER-1 Introduction to Water Supply, Quantity and Quality of water(10)	
NOVEMBER	11/8/2021	Monday	1.1 Necessity of treated water supply 1.2 Per capita demand variation in demand and factors affecting demand	2
	11/11/2021	Thursday	1.3 Methods of forecasting population	1
	11/12/2021	Friday	Numerical problems using different methods	1
	11/13/2021	Saturday	1.4 Impurities in water – organic and inorganic	1
	11/15/2021	Monday	Harmful effects of impurities 1.5 Analysis of water –physical	2
	11/18/2021	Thursday	1.5 Analysis of water - chemical and bacteriological	1
	11/20/2021	Saturday	1.5 Analysis of water - bacteriological	1
	11/22/2021	Monday	1.6 Water quality standards for different uses	1
			CHAPTER-2(Sources and Conveyance of water)(8P)	
	11/22/2021	Monday	2.1 Surface sources – Lake, stream, river and impounded reservoir	1
	11/25/2021	Thursday	2.2 Underground sources – aquifer type & occurrence – Infiltration gallery, infiltration well, springs, well	1
	11/26/2021	Friday	2.3 Yield from well- method s of determination, Numerical problems using yield formulae (deduction excluded)	1
	11/27/2021	Saturday	2.4 Intakes – types, description of river intake, reservoir intake, canal intake	1
	11/29/2021	Monday	2.5 Pumps for conveyance & distribution – types, selection, installation.	2
	12/2/2021	Thursday	2.6 Pipe materials – necessity, suitability, merits & demerits of each type	1
	12/3/2021	Friday	2.7 Pipe joints – necessity, types of joints Pipe joints – suitability, methods of jointing Laying of pipes – method	1
			CHAPTER-3(Treatment of water)(12P)	
	12/4/2021	Saturday	3.1 Flow diagram of conventional water treatment system	1
	12/6/2021	Monday	3.2 Treatment process / units :3.2.1 Aeration ; Necessity 3.2.2 Plain Sedimentation : Necessity, working principles,	2
	12/9/2021	Thursday	Sedimentation tanks – types, essential features, operation & maintenance	1

DECEMBER	12/10/2021	Friday	3.2.3 Sedimentation with coagulation: Necessity, principles of coagulation, types of coagulants	1
	12/11/2021	Saturday	3.2.3 Flash Mixer, Flocculator, Clarifier (Definition and concept only)	1
	12/13/2021	Monday	3.2.4 Filtration : Necessity, principles, types of filters Slow Sand Filter	2
	12/16/2021	Thursday	Rapid Sand Filter and Pressure Filter – essential features	1
	12/17/2021	Friday	3.2.5 Disinfection : Necessity, methods of disinfection, Chlorination – free and combined chlorine demand, available chlorine, residual chlorine, pre-chlorination, break point chlorination, super- chlorination	1
	12/18/2021	Saturday	3.2.6 Softening of water – Necessity, Methods of softening	1
	12/20/2021	Monday	Lime soda process and Ion exchange method (Concept Only)	1
			CHAPTER-4(Distribution system and Appurtenance in distribution system)(08P)	
	12/23/2021	Thursday	4.1 General requirements, types of distribution system-gravity	1
	12/24/2021	Friday	types of distribution system-gravity, direct and combined 4.2 Methods of supply – intermittent and continuous	1
	12/27/2021	Monday	4.2 Methods of supply – intermittent and continuous	2
	12/30/2021	Thursday	4.3 Distribution system layout – types, comparison, suitability	1
	12/31/2021	Friday	4.3 Distribution system layout – types, comparison, suitability	1
JANUARY	1/1/2022	Saturday	4.4 Valves-types, features, uses, purpose-sluice valves, check valves	1
	1/3/2022	Monday	air valves, scour valves, Fire hydrants, Water meters	1
			CHAPTER-5(W/s plumbing in building)(02P)	
	1/3/2022		5.1 Method of connection water mains to building supply	1
	1/6/2022		5.2 General lay out of plumbing arrangement for water supply in single storey and multi- storey building as per	1