SUBJECT NAME-WATER SUPPLY AND WASTE WATER ENGINEERING (TH-02)

TOTAL NO. OF WEEK-16

SEMESTER-5RD TOTAL PERIODS-75

CLASSES ALLOTED PER WEEK-5

NAME OF TEACHING FACULTY -ASHA MISHRA

SESSION-(2020-2021) WINTER

We	eek & Date	No of Peri ods Avai labl e	Topics to be covered	Topics actually covered	If any Short fall	Reason of short fall	How to make up	Remarks /Signatur e with date
	07/09/202 0		1.1 Necessity of treated water supply	All covered				
1 ST	08/09/202 0	03	1.2 Per capita demand, variation in demand and factors affecting demand	All covered				
	10/09/202		1.3 Methods of forecasting population, Numerical problems using different methods	All covered				
2 ND	11/09/202 0	04	1.4 Impurities in water – organic and inorganic, Harmful effects of impurities	All covered				
	14/09/202 0		1.5 Analysis of water –physical, chemical and bacteriological	All covered				
	15/09/202 0		1.6 Water quality standards for different uses	All covered				

			3.1 Flow diagram of conventional			
			water treatment system			
	16/00/202			All covered		
	16/09/202			All covered		
	0		3.2 Treatment process / units:			
			3.2.1 Aeration; Necessity 3.2.2			
			1			
			Plain Sedimentation : Necessity,			
			working principles, Sedimentation			
			tanks – types, essential features,			
			operation & maintenance			
DD						
3 RD	18/09/202	03	3.2.3 Sedimentation with	All covered		
	0		coagulation: Necessity,			
			principles of coagulation,			
			types of coagulants, Flash			
			Mixer, Flocculator, Clarifier			
	21/09/202	_	3.2.4 Filtration : Necessity,	All covered		
				All Covered		
	0		principles, types of filters Slow			
			Sand Filter, Rapid Sand Filter and			
			Pressure Filter – essential			
			features			
	0.4.400.4000					
	24/09/202		3.2.5 Disinfection : Necessity,	All covered		
	0		methods of disinfection			
			Chlorination – free and			
			combined chlorine demand,			
4 TH	25/09/202	04	·	All covered		
	0		chlorine, pre-chlorination,			
			break point chlorination,			
			superchlorination			
	20/00/202		•	All possessed		
	28/09/202		3.2.6 Softening of water –	All covered		
	0		Necessity, Methods of			
			softening – Lime soda			

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			process and Ion exchange method			
	29/09/202 0		Exam of 2 nd chapter	All covered		
5 TH	30/09/202 0	03	Problems solving on chapter 2	All covered		
	01/10/202		2.1 Surface sources – Lake, stream, river and impounded reservoir	All covered		
	05/10/202		2.2 Underground sources – aquifer type & occurrence – Infiltration gallery, infiltration well, springs, well	All covered		
6 TH	06/10/202 0	04	2.3 Yield from well- method s of determination,	All covered		
	07/10/202 0		2.3.Numerical problems using yield formulae	All covered		
	08/10/202 0		2.4 Intakes – types, description of river intake, reservoir intake, canal intake	All covered		
7 TH	12/10/202 0	04	2.5 Pumps for conveyance & distribution – types, selection, installation.			
	14/10/202 0		2.6 Pipe materials – necessity, suitability, merits & demerits of each type			

	15/10/202		2.7 Pipe joints – necessity, types of joints, suitability, methods of jointing Laying of pipes – method	EEGGHT EAN		
	17/10/202 0					
8 TH	19/10/202 0	03				
	20/10/202 0					
	22/10/202 0					
9 TH	27/10/202 0	02				
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