

Discipline: Semester: Name of Teaching TH-4  
 Civil Engg. 3rd Faculty: Prakash Chandra Nayak  
 Subject: No. of days/ W.S. & W. week  
 W. Engg. week

Class allotted = 04 Semester starts from 01/01/2021 to

Class allotted = 04 No. of weeks = 15

Week	Class Day	Theory / Practical (Topics)
01/10/2021 to 02/10/2021	1st class	Section A: Water Supply: Introduction to Water Supply: Necessity of treated water supply; Per capita demand, variation in demand & factors affecting demand; Methods of forecasting population; Numerical problems using different methods; Impurities in water, organic & inorganic, Harmful effects of impurities
	2nd class	
	3rd class	
	4th class	
	5th class	
	6th class	
04/10/2021 to 09/10/2021	1st class	Section B: <del>(Holiday) Gandhi Jayanti</del> Water Supply: Per capita demand, variation in demand & factors affecting demand; Methods of forecasting population; Numerical problems using different methods; Impurities in water, organic & inorganic, Harmful effects of impurities
	2nd class	
	3rd class	
	4th class	
	5th class	
	6th class	
11/10/2021 to 16/10/2021	1st class	Section C: <del>(Holiday) Dasahara Puja Holiday</del> Analysis of water: Physical, chemical
	2nd class	
	3rd class	
	4th class	
	5th class	
	6th class	
18/10/2021 to 23/10/2021	1st class	Section D: <del>(Holiday) Dasahara Puja Holiday</del> Analysis of water: Physical, chemical <del>(Holiday) (Kumbar Purnima)</del>
	2nd class	
	3rd class	

Week	Class day	Theory / Practical (Topics)	Week	Class day	Theory / Practical (Topics)
	4th class	And back zoological		1st class	Theory / Practical (Topics)
	5th class	Water Quality Standards for different uses in water supply system	15/11/21	1st class	<u>HOODING OF LAKE</u> <del>merits &amp; demerits</del>
	4th class	Source & Conveyance of water		2nd class	Explanation, backflow, chlorination
25/10/2021	1st class	Surface sources: Lake, stream, river and pond and sedimentation	20/11/21	3rd class	Explanation of Super Chlorination
	2nd class			4th class	softening of water
30/10/2021	3rd class	Underground sources:		5th class	<del>relative merits &amp; demerits</del>
	4th class	yield from well: explanation, Numerical problems.		6th class	Distribution: general requirement, types of distribution system.
	5th class				gravity, direct and indirect (combined)
	6th class	Intakes: types, description of storage intake, Reservoir intake: canal intake	28/11/21	1st class	Method of supply (Distribution)
11/11/2021	1st class	Pumps for conveyance & distribution on - types, selection, installation, pipe joints: necessity, types of joint, suitability.	to	2nd class	Method of distribution
6/11/2021	2nd class		27/11/21	3rd class	determination system layout by
	3rd class	Treatment of water: Degree of treatment units excluded: flow diagram of conventional water treatment systems flow diagram		4th class	definition comparison, suitability
6/11/2021	4th class	Treatment processes: <del>Flow diagram</del>		5th class	comparison, suitability
	5th class	<del>Flow diagram</del>	29/11/21	6th class	<u>HOLIDAY - PRACTICUM</u>
			to	1st class	valves - types, features, uses
	4th class	Treatment of water: Degree of treatment units excluded: flow diagram of conventional water treatment systems flow diagram	4/12/21	2nd class	pressure, gauge values, check valves, air valves
	5th class	<del>Flow diagram</del>		3rd class	Plumbing in building
				4th class	Plumbing in building
				5th class	Principles and objective of Sanitary Engineering (Waste Water Engg)
08/11/2021	1st class	Sedimentation with coagulation: flocculation.		6th class	Determination of terms related to sanitary Engg
to	2nd class	Disinfection: Necessity			System of collection of water
13/11/2021	3rd class	chlorination	6/12/21	1st class	quantity & quality of sewage:
	4th class	free and combining chlorine demand.	to	2nd class	quantity of sanitary sewage
	5th class	Residual Chlorine	11/12/21	3rd class	computation of size of sewer
	6th class	Available chlorine (Expenditure)			Application of Chazy's formula, limiting velocity of flow

Week Class day Theory / Practical (Topics)

3rd class 3rd class General experience of 2<sup>nd</sup>.  
4th class 4th class concept of sewage sampling tests for it.  
5th class 5th class Sewage system: Types of system

6th class 6th class Shape of sewer  
13/12/21 to 2nd class Shape of sewer  
18/12/21 to 3rd class layout of sewer.

15th class 15th class Seiver apparatus & sewer dipper  
5th class 5th class ~~to at Tuesday of 14/12/21~~  
6th class 6th class Sew and Low hole

20/12/21 to 14th class 14th class Pits, Great & old sewer: Realign  
to 2nd class location

21/12/21 to 2nd class 2nd class Function of the above.  
3rd class 3rd class Storm sewer, inverted siphon  
4th class 4th class Features location; function.  
5th class 5th class disposal by dilution: Standards  
5th class 5th class Sewage treatment: Early visit to it.  
6th class 6th class ~~Holiday (Christmas day)~~

1st class 1st class treatment: plant & field visit  
to

1/31 2nd class 2nd class Principles of treatment, Hydro diagram of  
3rd class 3rd class primary treatment: Neutral. Ph.  
4th class 4th class circular, essential features, dimensions.  
5th class 5th class Sanitary plumbing for building: required  
A Building drawings, layout of building  
6th class 6th class ~~Holiday (New Year)~~

1/31 1st class 1st class Management of single, stand  
and multiple building as per IS code  
to

Week Class day Theory / Practical

8/1/22 3rd class 3rd class Sanitary features. Features turn  
9/1/22 4th class 4th class them & maintenance fixing of fixture  
10/1/22 to 5th class 5th class Revision  
11/1/22 to 6th class 6th class Revision  
on line class on all  
chapter excluding holidays.

practice.