



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer Term 2018

Course : Environmental Engineering-I

Faculty : ipkhedikar - Ms. Isha
Puranchandrababu Khedikar

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Vision & Mission , PSOs and POs, COs Importance and necessity of water supply scheme.	02/05/2018	BCEL219	A
1	2	Water demand : Types of demand , Empirical formulae	02/05/2018	BCEL219	A
1	3	Factors affecting per Capita demand, variation in demands	07/05/2018	BCEL219	A
1	4	Design period and population forecasting methods with examples	07/05/2018	BCEL219	A
1	5	Design period and population forecasting methods with examples	08/05/2018	BCEL219	A
1	6	Sources of water : rain water, Ground water – springs, infiltration galleries, Dug wells, tube wells	08/05/2018	BCEL219	A
1	42	General idea of water borne diseases , Physical characteristics Chemical, and bacteriological characteristics of water, Standards of drinking water	09/05/2018	BCEL219	A
1	43	Graphical Methods of population forecasting, Intake structures : Location types – river , lake , canal reservoir etc.	09/05/2018	BCEL219	A
1	7	Objective of treatment : unit operations and processes , treatment Flow sheet of conventional water treatment plant treatment	14/05/2018	BCEL219	A
1	8	Water treatment flowsheet, Aeration : Purpose , types of aerators	14/05/2018	BCEL219	A
1	9	Coagulation and Flocculation : Definition , Principals , types of coagulants and reactions , coagulant doses , types of mixing and flocculation devices.	15/05/2018	BCEL219	A
3	10	Coagulation and Flocculation : Definition , Principals , types of coagulants and reactions , coagulant doses , types of mixing and flocculation devices.	15/05/2018	BCEL219	A
3	11	Sedimentation : Principles types of setting basins , inlet and outlet arrangements. Sedimentation : Principle	16/05/2018	BCEL219	A



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Unit	Topic Code	Topic Covered	Date	Course	Section
1	44	Clariflocculator : Principles and operation. Filtration : Mechanism of filtration , types of filters RSF, SSF , pressure filters	16/05/2018	BCEL219	A
3	12	Filtration : Mechanism of filtration , types of filters RSF, SSF , pressure filters	21/05/2018	BCEL219	A
3	13	Elements of filters UDS, design aspects filter sand specification – ES , UC,	21/05/2018	BCEL219	A
3	15	Distribution systems : Requirements for a good distribution system, methods of distribution systems distribution systems	22/05/2018	BCEL219	A
3	16	Layouts of DS, appurtenances in water distribution system	23/05/2018	BCEL219	A
4	18	Storage reservoirs for treated water : Types , capacity of reservoir, mass curve	23/05/2018	BCEL219	A
4	17	Minor disinfectant and forms of chlorination	28/05/2018	BCEL219	A
4	19	Minor disinfectant and form of chlorination	28/05/2018	BCEL219	A
4	20	Conveyance of water : types of pipes joints, fittings, Guest Lecture on Water Treatment	29/05/2018	BCEL219	A
4	21	Hydraulic design aspects : Losses due to Friction Darcy – Weisbach, Mannings, Hazen William formulae and problems on these, SWM	29/05/2018	BCEL219	A
4	22	Rising main and pumps : Classification working merits and demerits selection of pumps.	30/05/2018	BCEL219	A
4	23	Design numerical on D-W, Mannings, raising main	30/05/2018	BCEL219	A
5	24	Municipal solid waste management : Generation sources , composition , Quality, Solid waste Management	04/06/2018	BCEL219	A
5	25	SWM Composting, Transportation ,treatment and disposal	04/06/2018	BCEL219	A
5	26	Design period and population forecasting methods with examples	05/06/2018	BCEL219	A



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Unit	Topic Code	Topic Covered	Date	Course	Section
5	27	Design period and population forecasting methods with examples	05/06/2018	BCEL219	A
5	28	Design period and population forecasting methods with examples	06/06/2018	BCEL219	A
5	45	Design period and population forecasting methods with examples	06/06/2018	BCEL219	A