




TAGORE INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

S.NO	NAME OF THE SUBJECT	CODE	NAME OF THE STAFF & GOOGLE MEET LINK
1	ESTIMATION, COSTING AND VALUATION ENGINEERING	CE8701	Mr.R.RAJESHI https://meet.google.com/trp-xhsj-sau
2	RAILWAYS, AIRPORTS, DOCKS AND HARBOUR ENGINEERING	CE8702	Ms.M.SIVASAKTHI https://meet.google.com/tns-iggt-xtz
3	STRUCTURAL DESIGN AND DRAWING	CE8703	Ms.B.SUGANTHI https://meet.google.com/qmz-fcur-gyh
4	TRAFFIC ENGINEERING AND MANAGEMENT	CE8007	Mrs.P.SATHIYA https://meet.google.com/dvu-mpms-ehs
5	INDUSTRIAL SAFETY	OME754	Mr.P.RAJESHKUMAR https://meet.google.com/wqh-hhnc-pjq


TIMETABLE INCHARGE


HOD


PRINCIPAL



TAGORE INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

S.NO	NAME OF THE SUBJECT	CODE	NAME OF THE STAFF & GOOGLE MEET LINK
1	TRANSFORM AND PARTIAL DIFF. EQUATIONS	MA8353	Mrs.G.VANMATHI https://meet.google.com/ecz-pxfy-uyf
2	STRENGTH OF MATERIALS I	CE8301	Ms.K.PAVITHRA https://meet.google.com/bsu-ptiq-ixy
3	FLUID MECHANICS	CE8302	Ms.M.SARANYA https://meet.google.com/qmz-fcur-gyh
4	SURVEYING	CE8351	Mr.M.VENKATESH https://meet.google.com/tns-iggt-xtz
5	CONSTRUCTION MATERIALS	CE8391	Ms.A.PAVITHRA https://meet.google.com/zbr-omof-iyh
6	ENGINEERING GEOLOGY	CE8392	Mr.S.BHARATHI https://meet.google.com/btv-icfg-bvm


TIMETABLE INCHARGE



HOD


PRINCIPAL



TAGORE INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING

S.NO	NAME OF THE SUBJECT	CODE	NAME OF THE STAFF & GOOGLE MEET LINK
1	DESIGN OF REINFORCED CEMENT CONCRETE ELEMENTS	CE8501	Ms.A.PAVITHRA https://meet.google.com/ule-mnve-zfn
2	STRUCTURAL ANALYSIS I	CE8502	Mr.R.AYYANAR https://meet.google.com/tns-iggt-xtz
3	WATER SUPPLY ENGINEERING	EN8491	Mr.M.MANIKANDAN https://meet.google.com/dhw-lkym-shq
4	FOUNDATION ENGINEERING	CE8591	Mr.S.VIGNESH https://meet.google.com/ncz-htgu-ghb
5	DISASTER MANAGEMENT	GE8071	Mr.S.BHARATHI https://meet.google.com/qmz-fcur-gyh
6	RENEWABLE ENERGY SOURCES	ORO551	Mr.J.DAMODHARAN https://meet.google.com/sdk-eyk-pmc


TIMETABLE INCHARGE


HOD


PRINCIPAL

TAGORE INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEVIYAKURICHI – 636112

DEPARTMENT OF CIVIL ENGINEERING

COURSE PLAN

Subject Code / Name : **EN8491/ WATER SUPPLY ENGINEERING**
Regulation : (Regulation – 2017)
Batch : 2018-2022
Academic year : 2020-2021(ODD SEM)
Year / Semester : **III / V**
Staff Name : **Mr.M.MANIKANDAN**

TEXT BOOKS:

1. Garg, S.K., "Environmental Engineering" Vol. II, Khanna Publishers, New Delhi, 2003.
2. Punmia, B.C., Jain, A.K., and Jain. A., "Environmental Engineering", Vol.II, LakshmiPublications, News letter, 2005.

REFERENCE BOOKS:

1. "Manual on Sewerage and Sewage Treatment", CPHEEO, Ministry of Urban Development, Government of India, New Delhi, 1997.
2. Metcalf & Eddy, "Wastewater Engineering" – Treatment and Reuse, Tata McGraw HillCompany, New Delhi, 2003.
3. Karia G L & Christian R A, "Wastewater Treatment", Prentice Hall of India, New Delhi,2013.

S.No	Topic Name	Books to be referred	No of periods Required	Cumulative Periods	Mode of Teaching
UNIT – I-SOURCES OFWATER					
1	Public water supply system	T1	1	1	Google Meet
2	Planning, Objectives, Design period, Population forecasting; Water demand	T1	1	2	Google Meet
3	Sources of water and their characteristics, Surface and Groundwater	T1	1	3	Google Meet
4	PROBLEMS	T1	1	4	Google Meet
5	PROBLEMS	T1	1	5	Google Meet
6	Impounding Reservoir	T1	1	6	Google Meet
7	Development and selection of source	T1	1	7	Google Meet
8	Source Water quality	T1	1	8	Google Meet
9	Characterization – Significance.	T1	1	9	Google Meet

10	Drinking Water quality standards.	T1	1	10	Google Meet
UNIT-II-CONVEYANCE FROM THE SOURCE					
11	Water supply – intake structures	T1	1	11	Google Meet
12	Functions; Pipes and conduits for water	T1	1	12	Google Meet
13	Pipe materials	T1	1	13	Google Meet
14	Hydraulics of flow in pipes	T1	1	14	Google Meet
15	Problems	T1	1	15	Google Meet
16	Problems	T1	1	16	Google Meet
17	Transmission main design	T1	1	17	Google Meet
18	Laying, jointing and testing of pipes	T1	1	18	Google Meet
19	appurtenances	T1	1	19	Google Meet
20	Sewer appurtenances	T1	1	20	Google Meet
21	Types and capacity of pumps	T1	1	21	Google Meet
22	Selection of pumps and pipe Drainage	T1	1	22	Google Meet
23	Plumbing System for Buildings	T1	1	23	Google Meet
24	Selection of pumps and pipe materials	T1	1	24	Google Meet
UNIT-III-WATER TREATMENT					
25	Objective– Selection of treatment processes	T1	1	25	Google Meet
26	Onsite sanitation, Greywater harvesting	T1	1	26	Google Meet
27	Septic tank with dispersion	T1	1	27	Google Meet
28	Problems	T1	1	28	Google Meet
29	Primary treatment units	T1	1	29	Google Meet
30	Principles, functions design and drawing of screen, Construction, operation and Maintenance aspects.	T1	1	30	Google Meet
31	Problems	T1	1	31	Google Meet
32	Principles, functions design and drawing of grit chambers, Construction, operation and Maintenance aspects.	T1	1	32	Google Meet
33	Problems	T1	1	33	Google Meet
34	Principles, functions design and drawing of primary sedimentation tanks, Construction, operation and Maintenance aspects.	T1	1	34	Google Meet
35	Problems	T1	1	35	Google Meet
UNIT – IV-ADVANCED WATER TREATMENT					
36	Objective–Selection of Treatment Methods	T1	1	36	Google Meet
37	Principles, Functions, Design and Drawing of Units Activated Sludge Process	T1	1	37	Google Meet
38	Problems	T1	1	38	Google Meet

39	Principles,Functions,Designand DrawingofUnits Tricklingfilter	T1	1	39	Google Meet
40	Problems	T1	1	40	Google Meet
41	Principles,Functions,Designand DrawingofUnits Oxidationditches	T1	1	41	Google Meet
42	Problems	T1	1	42	Google Meet
43	Principles,Functions,Designand DrawingofUnits WasteStabilization Ponds	T1	1	43	Google Meet
44	Problems	T1	1	44	Google Meet
45	UASB	T1	1	45	Google Meet
46	Recent Advances in Sewage Treatment	T1	1	46	Google Meet
47	ReclamationandReuseofsewage-sewagerecycleinresidentialcomplex	T1	1	47	Google Meet
48	Construction of Sewage Treatment	T1	1	48	Google Meet
49	Operation of Sewage Treatment Plants.	T1	1	49	Google Meet
50	Maintenance of Sewage Treatment Plants.	T1	1	50	Google Meet
UNIT-V- WATER DISTRIBUTION AND SUPPLY					
51	StandardsforDisposal	T1	1	51	Google Meet
52	Methodsof distribution–	T1	1	52	Google Meet
53	Selfpurificationofsurfacewaterbodies–Oxygen sagcurve	T1	1	53	Google Meet
54	Problems	T1	1	54	Google Meet
55	Landdisposal– Sludgecharacterization–Thickening	T1	1	55	Google Meet
56	Sludgedigestion–Biogas recovery	T1	1	56	Google Meet
57	SludgeConditioningandDewatering	T1	1	57	Google Meet
58	Distribution to buildings	T1	1	58	Google Meet
59	AdvancesinSludgeTreatmentand disposal.	T1	1	59	Google Meet
60	TUTORIAL	T1	1	60	Google Meet

TEST PORTION:

TEST	PORTIONS TO BE COVERED
Internal Assessment Test-I	1 Unit
Internal Assessment Test-II	1 Unit
Internal Assessment Test-III	1 Unit
Model Exam	5 Units

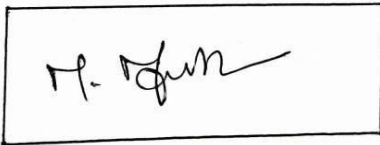
TUTORIALS : PROBLEMS IN ALL 5 UNITS

SEMINAR TOPICS :
1. Hydraulics of flow in pipes
2. Primary treatment units
3. Maintenance of Sewage Treatment Plants.

WEBSITE REFERENCES : <https://www.youtube.com/watch?v=BlbpOThIrP0>
<https://nptel.ac.in/courses/105105201>

Feed Back:

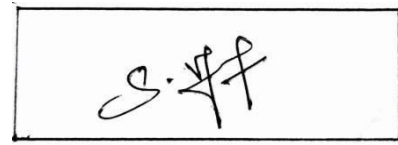
University Feed Back:



PREPARED BY

Mr.M.MANIAKNDAN

AP/CIVIL



VERIFIED

Mr.S.VIGNESH

HOD/CIVIL