

Curriculum for M. Tech in Civil Engineering Department

Course Structure and Syllabus

For

2 Year M. Tech Programme

In Water Resources Engineering

w. e. f 2018-19

Department of Civil Engineering

Aliah University

II A/27, Newtown, Kolkata 700156,

West Bengal, India

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Page **1** of **4**

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Curriculum for M. Tech in Civil Engineering Department

1st YEAR 1st SEMESTER

S. No.	Course code	Name of the course]	Credit			
			L	T	P	T	
1	CE 601	Numerical Analysis	3	1	0	4	4
2	CE 621	Advanced Hydraulic Structure	3	1	0	4	4
3	CE 623	Remote Sensing & GIS	3	1	0	4	4
4	CE 625 (El-I)	Elective I	3	1	0	4	4
5	CE 627 (EI-II)	Elective II	3	1	0	4	4 ,
	TC	TAL PERIOD PER WEE	CK				20
TOTAL CREDIT					20		

1st YEAR 2nd SEMESTER

Sl no	Paper code	Name of the paper	J	Periods	per w	eek	Credit
			L	T	P	T	
1	CE 622	Water Resources Planning and Management	3	1	0	4	4
2	CE 624	River Engineering	3	1	0	4	4
3	CE 626 (El-III)	Elective III	3	1	0	4	4
4	CE 628 (El-IV)	Elective IV	3	1	0	4	4
5	CE 671	Seminar			2	2	2
6	CE 681	Water Resources Lab			3	3	2
	TO	TAL PERIOD PER WEE	K				21
		TOTAL CREDIT					20

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Page 2 of 4

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Curriculum for M. Tech in Civil Engineering Department

2nd YEAR 3rd SEMESTER

SI no	Paper code	Name of the paper]	Credit			
			L	T	P	T	
1	CE 691	Dissertation Part-I	-	-	-	-	12
2	CE 693	Viva-voce-I	-	-	-	-	2
		TOTAL CREDIT					14

2nd YEAR 4TH SEMESTER

SI no	Paper code	Name of the paper]	Credit			
			L	T	P	T	
1	CE 692	Dissertation Part-II	-	-	-	-	12
2	CE 694	Viva-voce-II	-	-	-	-	4
		TOTAL CREDIT					16

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Page 3 of 4



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List of Electives:

Elective-I

- 1. Advanced Computing in Water Resource Engineering
- 2. Stochastic hydrology
- 3. Watershed Development and Management.
- 4. Soft-computing techniques in hydrology
- 5. Hydrological Analysis and Design

Elective-II

- 1. Hydropower System Planning
- 2. Flood forecasting
- 3. Climate Change and Water Resources

Elective-III

- 1. Application of Soft Computing in Water Resource Engineering
- 2. Irrigation and drainage engineering
- 3. Groundwater Development and Management.
- 4. Groundwater Hydrology
- 5. Water Resources System Reliability

Electives IV

- 1. Economics of Water Resource Planning
- 2. Rural Water Supply and Environmental Sanitation
- 3. Channel and fluvial hydraulics
- 4. Water and Land Laws

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Page 4 of 4

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