

M Tech Civil Engineering
(Specialization in Water Resources Engineering)
 (Regular, 2 Years, 4 Semesters, 68 Credits)

First Semester: Course Structure

Theory/ Practical	Sl no	Sub code	subject	Hours per week			Credit
				L	T	P	
Theory	1		Advanced Hydraulic Engineering	3	0	0	3
	2		Water Resources Engineering	3	0	0	3
	3		Surface Water Hydrology	3	0	0	3
Practical	4		Hydraulics and Water Resources Engineering Lab	0	0	4	2
Programme Elective-I							
Theory	5		Program Elective -1	3	0	0	3
Open Elective-I							
Theory	6		Open Elective	3	0	0	3
Mandatory Learning Course							
Theory	7		Research Methodology and IPR	2	0	0	2
Audit Course-I							
Theory	8		Audit Course-1	2	0	0	0
Total				19	0	4	19

Program Elective-1

Sl no	Code	Subject
1		Geomatics in Water Resources
2		Environmental Hydrology
3		Hydrological Measurements and Data Analysis
4		Any other subject offered from time to time with the approval

Second semester: Course Structure

Theory/ Practical	Sl no	Sub code	subject	Hours per week			Credit
				L	T	P	
Theory	1		Flood and Erosion Management	3	0	0	3
	2		Water Resources System Planning and Management	3	0	0	3
	3		River Engineering	3	0	0	3
Practical	4		Software Lab	0	0	4	2
Programme Elective-2							
Theory	5		Program Elective -2	3	0	0	3
Program Elective-3							
Theory	6		Program Elective-3	3	0	0	3
Audit Course-2							
Theory	7		Audit Course-2	2	0	0	0
Total				17	0	4	17

Program Elective-2

Sl no	Code	Subject
1		Watershed Management
2		Urban Water Management
3		Water Power Engineering
4		Any other subject offered from time to time with the approval

Program Elective-3

Sl no	Code	Subject
1		Ground Water Hydrology
2		Design of Hydraulic and Hydropower Structures
3		Environmental Management of Water Resources
4		Any other subject offered from time to time with the approval

Third Semester: Course Structure

Theory/ Practical	Sl no	Sub code	Subject	Hours per week			Credit
				L	T	P	
Practical	1		Mini Project	0	0	8	4
	2		Dissertation Phase – I	0	0	24	12
Total				0	0	32	16

Fourth Semester: Course Structure

Theory/ Practical	Sl no	Sub code	Subject	Hours per week			Credit
				L	T	P	
Practical	1		Dissertation Phase – II	0	0	32	16
Total				0	0	32	16