

Department Of Civil Engineering
M TECH. (WATER RESOURCES ENGINEERING)
Scheme of Instruction and Examination
 (with effect from 2015-16 academic year)

I – SEMESTER

Code No.	Course title	Scheme of Instruction			Scheme of Examination			Total	Credits
		Lec	Tut	Total	Exam (hrs)	Ext	Sess		
WRE1.1	Computational Hydraulics	4	--	4	3	70	30	100	4
WRE1.2	Channel and Fluvial Hydraulics	4	--	4	3	70	30	100	4
WRE1.3	Applied Hydrology	4	--	4	3	70	30	100	4
WRE1.4	RS and GIS applications	4	--	4	3	70	30	100	4
WRE1.5	a) Climate change and Water Resources b)Irrigation water systems and management c) Environmental Hydraulics	4	--	4	3	70	30	100	4
WRE1.6	a) Water Power Engineering b) Statistical Methods for Engineers c) Water quality	4	--	4	3	70	30	100	4
WRE1.7	Computational fluid mechanics laboratory	--	3	3	Viva	50	50	100	2
WRE1.8	GIS laboratory		3	3	Viva	50	50	100	2
Total		24	6	30		520	280	800	28

II – SEMESTER

Code No.	Course title	Scheme of Instruction			Scheme of Examination			Total	Credits
		Lec	Tut	Total	Exam (hrs)	Ext	Sess		
WRE2.1	Watershed Management	4	--	4	3	70	30	100	4
WRE2.2	Hydraulic Structures	4	--	4	3	70	30	100	4
WRE2.3	Urban storm water Drainage	4	--	4	3	70	30	100	4
WRE2.4	Environmental impact assessment	4	--	4	3	70	30	100	4
WRE2.5	a) Water resources project management b)Finite Element Methods of Analysis c) Water Resources systems analysis	4	--	4	3	70	30	100	4
WRE2.6	a) Estuarine Hydraulics b)Sub-structure design c) Flood Modeling and Drought Assessment	4	--	4	3	70	30	100	4
WRE2.7	Hydraulics lab	--	3	3	Viva	50	50	100	2
WRE2.8	Seminar		3	3	Viva	50	50	100	2
Total		24	6	30		520	280	800	28

III and IV SEMESTERS

Code No	Course title	Scheme of Examination	Total Marks	Credits
WRE3.1	Dissertation (Preliminary)	Viva-voce	100	10
WRE4.1	Dissertation (Final)	Defence and Viva-voce	100	14