

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
I M.TECH. WATER RESOURCES & ENVIRONMENTAL ENGINEERING

SEMESTER - I

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	CE50012	System Mathematics & Mathematical Modelling	3	-	-	3	-	70	30	-	-	100
2	CE52013	Design of Diversion Structures	3	-	-	3	-	70	30	-	-	100
3	CE50009	Advanced Concrete Technology	3	-	-	3	-	70	30	-	-	100
4		Elective - I	3	-	-	3	-	70	30	-	-	100
5		Elective - II	3	-	-	3	-	70	30	-	-	100
6	CE52454	Concrete Technology Lab.	-	-	2	-	1	-	-	40	60	100
7	CE52455	Diversion Structures Lab.	-	-	2	-	1	-	-	40	60	100
8	CE52456	Computing Techniques Lab.	-	-	4	-	2	-	-	40	60	100
9	CE52499	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			15	0	8	15	4	350	150	120	180	800

SEMESTER - II

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	CE52512	Design of Storage Structures	3	-	-	3	-	70	30	-	-	100
2	CE52513	Stochastic Hydrology	3	-	-	3	-	70	30	-	-	100
3	CE52515	Water Resources Systems Engg.	3	-	-	3	-	70	30	-	-	100
4		Elective III	3	-	-	3	-	70	30	-	-	100
5		Elective IV	3	-	-	3	-	70	30	-	-	100
6	CE52882	Seminar	-	-	2	-	1	-	-	50	-	50
7	CE52883	Term Paper	-	-	2	-	1	-	-	50	-	50
8	CE52884	Minor Project	-	-	4	-	2	-	-	40	60	100
9	CE52899	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			15	0	8	15	4	350	150	140	60	700

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List of Electives

Elective I		Semester I
S.No.	Subject Code	Subject
1	CE52201	Hydrologic Analysis
2	CE52202	Advanced Fluid Mechanics
3	CE52203	Air Pollution & Control Technology
4	CE52204	Finite Element Applications in Water Resources

Elective II		Semester I
S.No.	Subject Code	Subject
1	CE52301	Ground Water Hydrology
2	CE52302	Hydraulics of Water Transmission and Distribution
3	CE52303	Design of Hydraulic & PHE Structures
4	CE52304	Advanced Construction Planning and Management

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List of Electives

Elective III		Semester II
S.No.	Subject Code	Subject
1	CE52706	Water Management
2	CE52707	Unit Operation I : Advanced Water Treatment
3	CE52708	Geospatial Technologies in Water Resources
4	CE52709	Hydropower Engineering
5	CE52710	Enviromental Impact Assessment of Water Resources Projects

Elective IV		Semester II
S.No.	Subject Code	Subject
1	CE52751	Advanced Hydrological Modeling
2	CE52752	Unit Operation II : Adadvanced Sewage Treatment
3	CE52753	Watershed Conservation and Management
4	CE52754	Climate Change and Adaptation in Water Management
5	CE52755	Regional Water Resources Planning and its Economics