



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI (C.G.)

M.Tech. in Civil Engg. with Specialization in Environmental & Water Resources Engineering

Course of Study				M. Tech. First Semester							
S. No.	Board of Study	Subject Code	Subject Name	Periods per week			Scheme of Examination			Total Marks	Credits L+T+P/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Civil Engg.	5004111(020)	Advanced Hydrology	3	1	-	100	20	20	140	4
2	Civil Engg.	5004112(020)	Advanced Hydraulics	3	1	-	100	20	20	140	4
3	Civil Engg.	5004113(020)	Water Pollution Mitigation & Management	3	1	-	100	20	20	140	4
4	Civil Engg.	5004114(020)	Remote Sensing (RS) & Geographical Information System (GIS) in Water Resources	3	1	-	100	20	20	140	4
5	<i>Refer Table-I</i>		<i>Elective-I</i>	3	1	-	100	20	20	140	4
6	Civil Engg.	5004121(020)	Water Resources Engineering Lab.	-	-	3	75	-	75	150	5
7	Civil Engg.	5004122(020)	RS & GIS Lab.	-	-	3	75	-	75	150	5
Total				15	5	6	650	100	250	1000	30

L: Lecture

T: Tutorial

P: Practical

ESE: End Semester Exam

CT: Class Test

TA: Teacher's Assessment

Table – I

List of Elective – I Subjects		
S.No.	Subject Code	Subject Name
1	5004131(020)	Hydropower Engineering
2	5004132(020)	Basics of Microbiology & Biotechnology
3	5004133(020)	Integrated Water Resources Management & Water Harvesting



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Course of Study							M. Tech. Second Semester				
S. No.	Board of Study	Subject Code	Subject Name	Periods per week			Scheme of Examination			Total Marks	Credits L+T+P/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Civil Engg.	5004211(020)	Computational & Soft Computing Techniques	3	1	-	100	20	20	140	4
2	Civil Engg.	5004212(020)	Environmental Impact Assessment	3	1	-	100	20	20	140	4
3	Civil Engg.	5004213(020)	Advanced Groundwater Hydrology	3	1	-	100	20	20	140	4
4	Civil Engg.	5004214(020)	Design of Hydraulic Structures	3	1	-	100	20	20	140	4
5	<i>Refer Table-II</i>		<i>Elective-II</i>	3	1	-	100	20	20	140	4
6	Civil Engg.	5004221(020)	Computational Lab.	-	-	3	75	-	75	150	5
7	Civil Engg.	5004222(020)	Environmental Engineering. Lab.	-	-	3	75	-	75	150	5
Total				15	5	6	650	100	250	1000	30

L: Lecture

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Table-II

List of Elective-II Subjects		
S.No.	Subject Code	Subject Name
1	5004231(020)	Reservoir Operation & System Analysis in Water Resources
2	5004232(020)	Flood & Drought Management
3	5004233(020)	Wastewater Management



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M.Tech. in Civil Engg. with Specialization in Environmental & Water Resources Engineering

Course of Study							M.Tech. Third Semester					
S. No.	Board of Study	Subject Code	Subject Name	Periods per week			Scheme of Examination			Total Marks	Credits L+T+P/2	
				L	T	P	Theory/Practical					
							ESE	CT	TA			
1	Civil Engg.	5004311(020)	Eco-Hydrology & Eco-Technology	3	1	-	100	20	20	140	4	
2	<i>Refer Table-III</i>		<i>Elective-III</i>		3	1	-	100	20	20	140	4
3	Civil Engg.	5004321(020)	Preliminary work on Dissertation	-	-	28	100	-	100	200	14	
4	Civil Engg.	5004322(020)	Seminar Based on Dissertation	-	-	3	-	-	20	200	2	
Total				6	2	31	300	40	180	600	24	

L: Lecture

T: Tutorial

P: Practical

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Table-III

List of Elective-III Subjects		
S.No.	Subject Code	Subject Name
1	5004331(020)	Solid Waste Management
2	5004332(020)	Climate Change Implication & Remedial Measures
3	5004333(020)	Irrigation Water Management



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Tech. in Civil Engg. with Specialization in Environmental & Water Resources Engineering											
Course of Study						M. Tech. Fourth Semester					
S. No.	Board of Study	Subject Code	Subject Name	Periods per week			Scheme of Examination			Total Marks	Credits L+T+P/2
							Theory/Practical				
				L	T	P	ESE	CT	TA		
1	Civil Engg.	5004421 (020)	Dissertation + Seminar	-	-	46	300	-	200	500	23
Total				-	-	46	300	-	200	500	23

L: Lecture

T: Tutorial

P: Practical

ESE: End Semester Exam

CT: Class Test

TA: Teacher's Assessment