

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.	504111 (20)	Advanced Hydrology	3	1	-	100	20	20	140	4	
2	Civil Engg.	504112 (20)	Advanced Hydraulics	3	1	-	100	20	20	140	4	
3	Civil Engg.	504113 (20)	Water Pollution Mitigation & Management	3	1	-	100	20	20	140	4	
4	Civil Engg.	504114 (20)	Computational & Soft Computing Techniques	3	1	-	100	20	20	140	4	
5	Refer Table-I		Elective-I		3	1	-	100	20	20	140	4
6	Civil Engg.	504121 (20)	Water Resources Engg. Lab.	-	-	3	75	-	75	150	5	
7	Civil Engg.	504122 (20)	Environmental Engg. 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	504131 (20)	Hydropower Engineering
2	504132 (20)	Basics of Microbiology & Biotechnology
3	504133 (20)	Integrated Water Resources Management & Water Harvesting

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

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.	504211 (20)	Remote Sensing (RS) & Geographical Information System (GIS) in Water Resources	3	1	-	100	20	20	140	4
2	Civil Engg.	504212 (20)	Environmental Impact Assessment	3	1	-	100	20	20	140	4
3	Civil Engg.	504213 (20)	Advanced Groundwater Hydrology	3	1	-	100	20	20	140	4
4	Civil Engg.	504214 (20)	Design of Hydraulic Structures	3	1	-	100	20	20	140	4
5	Refer Table-II		Elective-II	3	1	-	100	20	20	140	4
6	Civil Engg.	504221 (20)	RS & GIS Lab.	-	-	3	75	-	75	150	5
7	Civil Engg.	504222 (20)	Computational 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	504231 (20)	Reservoir Operation & System Analysis in Water Resources
2	504232 (20)	Flood & Drought Management
3	504233 (20)	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.	504311 (20)	Eco-Hydrology & Eco-Technology	3	1	-	100	20	20	140	4
2	Refer Table-III		Elective-III	3	1	-	100	20	20	140	4
3	Civil Engg.	504321 (20)	Preliminary work on Dissertation	-	-	28	100	-	100	200	14
4	Civil Engg.	504322 (20)	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	504331 (20)	Solid Waste Management
2	504332 (20)	Climate Change Implication & Remedial Measures
3	504333 (20)	Irrigation Water Management

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI (C.G.)**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.	504421 (20)	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