

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2018-2019
M.Tech. - Water Resource Management

Semester I

Sl.No.	course	Subject code	Course Name	No.of hours /Week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
				Lecture	Practical/ Field Work/ Assignment		Internal Assessment	Exam		
1	PCC	18WRM11	Optimization Techniques in Water Resources Engineering	4	--	3	40	60	100	4
2	PCC	18WRM12	Engineering Hydrology	4	--	3	40	60	100	4
3	PCC	18WRM13	Water Resources System Analysis	4	--	3	40	60	100	4
4	PCC	18WRM14	Remote sensing and geographic information system	4	--	3	40	60	100	4
5	PCC	18WRM15	Advanced Fluid Mechanics	4	--	3	40	60	100	4
6	PCC	18WRM16	Advanced Water Resources Engg.-Laboratory-I	--	4	3	40	60	100	2
7	PCC	18RMI17	Research Methodology & IPR	2		3	40	60	100	2
TOTAL				22	4	21	280	420	700	24

Note: PCC: Professional core, PEC: Professional Elective.

Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination will be conducted during III semester and prescribed credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up /complete the internship shall be declared as failed and have to complete during subsequent University examination after satisfy the internship requirements.

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II-Semester

Sl.No	Course	Subject code	Course Name	No. of hours /Weak		Duration of Exam in Hours	Marks for		Total Marks	CREDIT S
				Lecture	Practical/ Field Work/ Assignment		Internal Assessment	Exam		
1	PCC	18WRM21	Project Planning Evaluation & Resource Management	4	2	3	40	60	100	4
2	PCC	18WRM22	Ground water development & management	4	2	3	40	60	100	4
3	PCC	18WRM23	Applied Irrigation management	4	2	3	40	60	100	4
4	PEC	18WRM24X	Professional Elective-1	4	2	3	40	60	100	4
5	PEC	18WRM25X	Professional Elective-2	4	2	3	40	100	100	4
6	PCC	18WRM26	Advanced Water Resources Engineering-Laboratory II	-	4	3	40	60	100	2
7	PCC	18WRM-27	Technical Seminar – I	-	2	2	100	-	100	2
Total				20	6	18	340	360	700	24

List of Professional Electives-I

II-Semester Elective	
18WRM-241	Hydraulic Structures
18WRM-242	Flow measurements
18WRM-243	River Hydraulics and Sediment Transport

List of Professional Electives-II

II-Semester Elective	
18WRM-251	Coastal Engineering
18WRM-252	Urban Water Resources Management
18WRM-253	Environmental Impact Assessment And Disaster Management

Note:

1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a senior faculty of the department. Participation in seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory.

The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill, Question and Answer session in the ratio 50:25:25.

2. Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination will be conducted during III semester and prescribed credit shall be counted in the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during subsequent University examination after satisfy the internship requirements.

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III-Semester

Sl.No.	Course	Subject code	Course Name	No. of hours /Weak		Duration of Exam in Hours	Marks for		Total Marks	credits
				Lecture	Practical/ Field Work/ Assignment		I.A	Exam		
1	PCC	18WRM31	Integrated Watershed Management	4	--	03	40	60	100	4
2	PEC	18WRM32X	Professional elective- 3	4	--	03	40	60	100	4
3	PEC	18WRM33X	Professional elective - 4	4	--	03	40	60	100	4
4	Project	18WRM34	Evaluation of Project Phase - 1		2		100		100	2
5	Internship	18WRM35	Internship			03	40	60	100	6
Total				12	2	12	260	240	500	20

Note: PCC: Professional core, PEC: Professional Elective

Professional elective 3

III-Semester Elective	
18WRM-321	Project management
18WRM322	Environmental Hydraulics

Professional elective 4

III-Semester Elective	
18WRM-331	River mechanics
18WRM332	Hydraulic modelling

Note:

1. Project Phase-1: Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar.

CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide and a senior faculty of the department. The CIE marks

awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer

session in the ratio 50:25:25.

SEE (University examination) shall be as per the University norms.

2. Internship: Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent University examinations after satisfy the internship requirements.

Internship SEE (University examination) shall be as per the University norms.

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IV-Semester

Sl.No.	Subject code	Course Name	No. of hours /Weak		Duration of Exam in Hours	Marks for		Total Marks	Credits
			Lecture	Practical/ Field Work/ Assignment		I.A	Exam		
1	18WRM41	Project Phase-II	--	4	3	40	60	100	20
Total			--	4	3	40	60	100	20
Grand Total (I to IV Sem.): 2000 Marks: 88 Credits									

Note:

1. Project Phase-2:

CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism

check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.