VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI



Scheme of Teaching and Examinations (2026)

M.Tech., in Civil Engineering (Specialisation in Water Resource Management)

Choice-Based Credit System (CBCS) and Outcome-Based Education (OBE)

Specialization in – Water Resource Management													
II SEMESTER													
Sl. No	**Course**	**Course Code**	**Course Title**	**Teaching & Learning Scheme**					**Examination**				**Credits**
				CI		**LI**	TW & SL	Total Hours/Sem	**Duration in hours**	**CIE Marks**	**SEE Marks**	**Total Marks**	
				L	**T**	**P**							
1	PCC/ IPCC	1MCWR201	Integrated Watershed Hydrological modelling	42	0	28	50	120	03	50	50	100	4
2	PCC	1MCWR202	Hydrologic Systems Analysis & Simulation	42	0	0	48	90	03	50	50	100	3
3	PCC	1MCWR203	Groundwater Flow & Aquifer Management	42	0	0	48	90	03	50	50	100	3
4	PCC	1MCWR204	Irrigation Systems Design & Micro-Irrigation Technologies	42	0	0	48	90	03	50	50	100	3
5	PEC	1MCWR205X	Specialization Elective – III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MCWR206X	Specialization Elective – IV	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MCWRL207	Hydrology & Hydraulic Modelling Lab (AEC Lab)	0	0	28	02	30	03	50	50	100	1
8	PCC	1MCWRS208	Minor Project / Skill Development Project	0	0	0	60	60	03	50	50	100	2
									Total	**400**	**400**	**800**	**22**

Professional Elective Courses (PECs)				
PEC-III			**PEC-IV**	
Code	**Title of the Course**		**Code**	**Title of the Course**
1MCWR205A	Water Policy, Governance & SDG-6		1MCWR206A	Urban Water Systems & Smart Water Grids
1MCWR205B	Watershed Modelling using SWAT/HEC-HMS		1MCWR206B	Sediment Transport & River Morphology
1MCWR205C	Flood Hydrology and Risk Management		1MCWR206C	Water Resources Optimization & Decision Support Systems
1MCWR205D	Hydropower & Dam Engineering		1MCWR206D	Hydro Informatics & AI for Water Management
1MCWR205E	River Hydraulics and Water Supply Engineering		1MCWR205E	Water Distribution Network Modelling with EPANET