

Master of Engineering in Water Resources and Hydraulic Engineering

FIRST SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Departmental / Specialization Basket							
Paper-I	PG / WRE / T/ 111A	Aquatic Ecology & Environment	3		100		3
Paper-II	PG / WRE / T/ 112A	Irrigation & Agronomy	3		100		3
	PG / WRE / T/ 112B	Geophysical Fluid Dynamics					
Paper-III	PG / WRE / T/ 113A	Hydraulic Structure & Hydrel Power Engineering	3		100		3
	PG / WRE / T/ 113B	Hydraulics & Sediment Transport					
<p>Note: The students have to select 3 subjects from the departmental/ specialization basket, i.e. one subject each from the list given in the baskets of Paper-I, Paper-II and Paper-III</p>							
Inter-Disciplinary Basket							
Paper-IV	PG / WRE / T/ 114A	Principle of Water Resources Engineering	3		100		3
Paper-V	PG / WRE / T/ 115A	Water Works Engineering	3		100		3
Paper-VI	PG / WRE/ T / 116A	Free Surface Flow	3		100		3
<p>Note: The students have to select 3 subjects from the inter-departmental basket, i.e. one subject each from the list given in the baskets of Paper-IV, Paper-V and Paper-VI</p>							
Sessional Courses							
Sessional 1	PG / WRE / S/ 111	Laboratory-I		4		100	3
Sessional 2	PG / WRE / S/ 112	Seminar		3		100 marks to be included in 2 nd semester	
			18	7	600	100	21

Total Periods/Week = 25

Total Marks = 700

SECOND SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Departmental / Specialization Basket							
Paper-VII	PG / WRE / T/ 127A	Advanced Hydrology	3		100		3
	PG / WRE / T/ 127B	Computational Hydro Dynamics					
Paper-VIII	PG / WRE / T/ 128A	Ground Water Dynamics	3		100		3
	PG / WRE / T/ 128B	River Hydraulics & Engineering					
Paper-IX	PG / WRE / T/ 129A	Design of Water Resources System	3		100		3

Note: The students have to select 3 subjects from the departmental/ specialization basket, i.e. one subject each from the list given in the baskets of Paper-VII, Paper-VIII and Paper-IX

Inter-Disciplinary Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	Credit Points
	Paper-X	PG / WRE/ T/ 1210A	Management of Water Resources	3		100	
	PG / WRE/ T/ 1210B	Economics & Legal Aspects of Water Resources					

Note: The students have the freedom to choose one subject from the list under Paper-X.

Sessional Courses	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	Credit Points
Sessional 1	PG / WRE/ S/ 121	Term Paper Leading to Thesis		3		100	3
Sessional 2	PG / WRE/ S/ 122	Seminar		3		100	3
	PG / WRE/ S/ 123	Laboratory-II		3		100	3
			12	6	400	300	21

Total Periods/Week = 18

Total Marks = 700

THIRD and FOURTH SEMESTER

Courses	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	Credit Points
1	PG / WRE/ TH/ 21	Thesis Work		16		300	12
2	PG / WRE/ VV/ 22	Viva-Voce on Thesis				100	
				16		400	12

Total Periods/Week = 16

Total Marks = 400