

DEPARTMENT OF HYDROLOGY

P.G. Diploma/M.Tech. (Watershed Management)

[illegible]

Program Elective Courses (Watershed Management)

S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
1.	HYN-513	Hydrometeorology and climate change	PEC	4	3	1	2/2	3	-	20	20	20	40	-
2.	HYN-516	Channel and fluvial hydraulics	PEC	4	3	1	2/2	3	-	20	20	20	40	-
3.	HYN-522	Stochastic hydrology	PEC	4	3	1	-	3	-	25	-	25	50	-
4.	HYN-523	Surface water modeling and simulation	PCC	4	2	1	2	2	-	15	25	20	40	-
5.	HYN-526	Deterministic hydrology	PEC	4	3	1	-	3	-	25	-	25	50	-
6.	HYN-527	Groundwater hydrology	PEC	4	3	1	2/2	3	-	20	20	20	40	-
7.	HYN-528	Groundwater systems analysis	PCC	4	3	1	-	3	-	25	-	25	50	-
8.	HYN-529	Geophysical investigations	PCC	4	3	1	2/2	3	-	20	20	20	40	-
9.	HYN-530	Planning and management of watersheds	PEC	4	3	1	-	3	-	25	-	25	50	-
10.	HYN-532	Environmental planning and assessment of projects	PEC	4	3	1	-	3	-	25	-	25	50	-
11.	HYN-535	Environmental quality	PEC	4	3	1	2/2	3	-	20	20	20	40	-
12.	HYN-540	Water Resources Economics	PEC	4	3	1	-	3	-	25	-	25	50	-
13.	HYN-545	Surface Water quality modeling	PEC	4	3	1	-	3	-	25	-	25	50	-
14.	HYN-551	Physical Hydrology	PEC	4	3	1	-	3	-	25	-	25	50	-
15.	HYN-552	Numerical methods in hydrology	PEC	2	2	1/2	-	2	-	25	-	25	50	-
16.	HYN-553	Experimental hydrology	PEC	2	-	-	4	-	3	-	50	-	-	50
17.	HYN-554	Soil and Water Remediation	PEC	4	3	1	2/2	3	-	20	20	20	40	-
18.	HYN-555	Soft-computing techniques in hydrology	PEC	2	2	1/2	-	2	-	25	-	25	50	-
19.	HYN-556	Environmental Quality Lab	PEC	2	-	-	4	-	2	-	50	-	-	50
20.	HYN-560	Soil and groundwater contamination modelling	PCC	4	3	1	2/2	3	-	20	20	20	40	-
21.	HYN-563	Vadose zone hydrology	PEC	4	3	1	2/2	3	-	20	20	20	40	-
22.	HYN-576	Rural water supply and Sanitation	PEC	2	0	0	-	2	-	25	-	25	50	-
23.	HYN-577	Desalination and Cleaner Water Production with Membrane Technologies	PEC	4	3	1	0	3	0	20 - 35	-	20 - 30	40 - 50	-