


Annexure - V

Academic Curriculum for P.G. Diploma in Drinking Water and Sanitation (DWS)

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Semester – I (Autumn)														
1.	WRN-503	Water Resources Planning and Management	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
2.	WRN-507	Drinking-Water and Sanitation Sustainability	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
3.	WRN-509	Water Sanitation, Hygiene and Infrastructural Management	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4.	WRN-516	Rural and Urban Water Supply	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.		Program Elective-I	PEC	4	-	-	-	-	-	-	-	-	-	-
		Total		20										
Semester – II (Spring)														
1.	WRN-506	Mini Project on Drinking Water and Sanitation	PCC	2	-	-	4	-	3	-	50	-	-	50
2.	WRN-700	Seminar	SEM	2	-	-	-	-	-	-	-	-	100	-
3.		Program Elective - II	PEC	4	-	-	-	-	-	-	-	-	-	-
4.		Program Elective - III	PEC	4	-	-	-	-	-	-	-	-	-	-
5.		Program Elective - IV	PEC	4	-	-	-	-	-	-	-	-	-	-
6.		Program Elective - V	PEC	4	-	-	-	-	-	-	-	-	-	-
		Total		20										

Summary		
Semester	1	2
Semester-wise Total Credits	20	20
Total Credits	40	


 27/3/23
 विभागाध्यक्ष / Head
 डब्लू.आर.डी.ए.एम. / WRD&M
 भा.प्रौ.सं. रुड़की / IIT Roorkee

Program Elective Courses for P.G. Diploma (Drinking Water and Sanitation)

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	WRN-501	System Design Techniques	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
2.	WRN-580	Renewable Energy System Technology	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
3.	WRN-581	Water Quality Monitoring and Modeling	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4.	WRN-586	Groundwater Development and Management	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.	WRN-587	Watershed Development and	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
6.	WRN-588	Remote Sensing and GIS Applications in Water Systems	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
7.	WRN-589	Drinking Water for Low-	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
8.	WRN-590	Wastewater and Fecal Sludge	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
9.	WRN-591	Resilience, Shocks, and	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
10.	WRN-592	Management and Operation of Water Utilities	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
11.	WRN-593	Water Works Engineering	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
12.	WRN-594	Flow Hydraulics and Urban Drainage	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
13.	WRN-595	Circular Water Economy	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
14.	WRN-596	Sustainable Water Resources	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
15.	WRN-597	Machine Learning Models in Water Resources Development and Management	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
16.	WRN-598	Smart Irrigation Systems	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-



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