

**Table-3 Academic Curriculum for Master of Technology /P.G. Diploma in DWS
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
1st YEAR														
Semester – I (Autumn)														
1.	WRN-503	Water Resources Planning and Management	PCC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
2.	WRN-507	Drinking-Water and Sanitation Sustainability	PCC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
3.	WRN-509	Water Sanitation, Hygiene and Infrastructural Management	PCC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
4.		Program Elective-I	PEC	4	-	-	-	-	-	-	-	-	-	-
5.		Program Elective-II	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-516	Rural and Urban Water Supply	PCC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
2.	WRN-700	Research Methodology and Skill Development	SEM	2	-	-	-	-	-	-	-	-	100	-
3.		Program Elective - II	PEC	4	-	-	-	-	-	-	-	-	-	-
4.		Program Elective - III	PEC	4	-	-	-	-	-	-	-	-	-	-
5.		Program Elective - IV	PEC	4	-	-	-	-	-	-	-	-	-	-
		Total		20										

2nd YEAR

Teaching Scheme					Contract 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-701A	Thesis Stage-I (to be continued next semester)	DIS	12	-	-	-	-	-	-	-	-	100	-
		Total		12										
Note: Students can take 1 or 2 audit courses as advised by the supervisor if required.														
Semester –II (Spring)														
2.	WRN-701B	Thesis Stage-II (continued from III semester)	DIS	18	-	-	-	-	-	-	-	-	100	-
		Total		18										

Summary				
Semester	1	2	3	4
Semester-wise Total Credits	20	20	12	18
Total Credits	70			

(Signature)

विभागाध्यक्ष / Head

जल संसाधन विकास एवं प्रबंधन विभाग
Water Resources Development & Management

भारतीय प्रौद्योगिकी संस्थान दिल्ली

Indian Institute of Technology,

दिल्ली / Delhi-247 667, (एचके/एनके)

PROGRAM ELECTIVE COURSES (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
1.	WRN-501	System Design Techniques	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
2.	WRN-580	Renewable Energy System Technology	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
3.	WRN-581	Water Quality Monitoring and Modeling	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
4.	WRN-586	Groundwater Development and Management	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
5.	WRN-587	Watershed Development and Management	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
6.	WRN-588	Remote Sensing and GIS Applications in Water Systems	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
7.	WRN-589	Drinking Water for Low-Income Societies	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
8.	WRN-590	Wastewater and Fecal Sludge Management	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
9.	WRN-591	Resilience, Shocks, and Emergencies	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
10.	WRN-592	Management and Operation of Water Utilities	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
11.	WRN-593	Water Works Engineering	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
12.	WRN-594	Flow Hydraulics and Urban Drainage	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
13.	WRN-595	Circular Water Economy	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
14.	WRN-596	Sustainable Water Resources	PEC	4	3	1	-	3	-	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	-

(Handwritten Signature)

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