

**DELHI TECHNOLOGICAL UNIVERSITY
SCHEME OF TEACHING AND EVALUATION**

MASTER OF TECHNOLOGY IN HYDRAULICS & WATER RESOURCES ENGINEERING (HWE)

The following alphanumeric coding scheme has been adopted

Core Courses XXXYMN

Elective Courses XXXYCMN

XXX abbreviates a particular M. Tech. program, Y – (5 for M. Tech. 1 st year, 6 for M. Tech. 2 nd year),

C – credit of the course (4/3/2),

MN – Subject code (Odd number for odd semester and even number for even semester courses)

Semester-I														
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group A	1	HWE501	Computational Hydraulics	Core	4	3	0	2	15	25	20	40	-	17
	2	HWE503	Advanced fluid Mechanics	Core	4	3	0	2	15	25	20	40	-	
Group B	3	HWE5401/5403/..	Elective 1	Elective	4	3	0	2	15	25	20	40	-	
	4	HWE5301/5303/..	Elective 2	Elective	3	3	0	0	20	-	30	50	-	
	5	HWE5201/5203/./. UEC5201/5203/.	Elective 3/University Elective I	Elective	2	2	0	0	20	-	30	50	-	
Semester-II														
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group C	1	HWE502	Water Resources Systems Planning and management	Core	4	3	0	2	15	25	20	40	-	17
	2	HWE504	Advanced open channel Hydraulics	Core	4	3	0	2	15	25	20	40	-	
Group D	3	HWE5402/5404/..	Elective 4	Elective	4	3	0	2	15	25	20	40	-	
	4	HWE5302/5304/..	Elective 5	Elective	3	3	0	0	20	-	30	50	-	
	5	HWE5202/5204/./. UEC5202/5204/.	Elective 6/University Elective II	Elective	2	2	0	0	20	-	30	50	-	
Semester-III														
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Track 1														
Group E	1	HWE651	Research Project	Core	12	0	0	12	0	-	0	100	0	12
	Track 2													
	1	HWE601	Major Project I	Core	3	0	0	6	0	-	0	100	0	

	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 4	1	HWE5402	Design of Flood Control and River Training Works	Elective	4	3	0	2	15	25	20	40	-
	2	HWE5404	Irrigation and Drainage Engineering		4	3	0	2	15	25	20	40	-
	3	HWE5406	Hydrometeorology		4	3	0	2	15	25	20	40	-
	4	HWE5408	Hydro-informatics and Simulations		4	3	0	2	15	25	20	40	-
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 5	1	HWE5302	MINOR PROJECT	Elective	3	0	0	-	-	40	-	-	60
	2	HWE5304	Applications of GIS and Remote Sensing in Water Resources Engineering		3	3	0	0	20	-	30	50	-
	3	HWE5306	Soil Structure Interaction		3	3	0	0	20	-	30	50	-
	4	HWE5308	Disaster Mitigation and Management		3	3	0	0	20	-	30	50	-
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 6	1	HWE5202	Ground Water Hydrology	Elective	2	2	0	0	20	0	30	50	-
	2	HWE5204	Transients in Pipes		2	2	0	0	20	0	30	50	-
	3	HWE5206	Offshore Geotechnical Engineering		2	2	0	0	20	0	30	50	-
	4	HWE5208	Waste to Energy		2	2	0	0	20	0	30	50	-
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 7	1	HWE6401	Design of Hydraulic Structures	Elective	4	3	0	2	15	25	20	40	-
	2	HWE6403	Environmental Impact Assessment		4	3	0	2	15	25	20	40	-
	3	HWE6405	Water pollution control and stream Sanitation		4	3	0	2	15	25	20	40	-
	4	HWE6407	Stability Analysis of Slopes		4	3	0	2	15	25	20	40	-
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 8	1	HWE6301	Water Resources Economics	Elective	3	3	0	0	20	-	30	50	-
	2	HWE6303	An Introduction to Sustainable development		3	3	0	0	20	-	30	50	-
	3	HWE6305	Ground Improvement Techniques		3	3	0	0	20	-	30	50	-
	4	HWE6307	Probability and Statistical Methods in Engineering		3	2	0	2	15	25	20	40	-
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE

