

**Department Of Civil Engineering**  
**M TECH. (HYDRAULICS, COASTAL AND HARBOUR ENGINEERING)**  
**Scheme of Instruction and Examination**  
 (with effect from 2015-16 academic year)

**I – SEMESTER**

Code No.	Course title	Scheme of Instruction			Scheme of Examination			Total	Credits
		Lec	Tut	Total	Exam (hrs)	Ext	Sess		
HCH1.1	Advanced Mathematics	4	--	4	3	70	30	100	4
HCH1.2	Advanced Fluid Mechanics	4	--	4	3	70	30	100	4
HCH1.3	Wave Hydrodynamics	4	--	4	3	70	30	100	4
HCH1.4	Hydrology & Water Resources Engineering	4	--	4	3	70	30	100	4
HCH1.5	a) Irrigation Water Systems and Management b) Watershed Management c) Environmental Hydraulics	4	--	4	3	70	30	100	4
HCH1.6	a) Remote sensing & GIS b) Structural Dynamics c) Urban Storm Water Drainage	4	--	4	3	70	30	100	4
HCH1.7	Computer Programming of Numerical Methods	--	3	3	Viva	50	50	100	2
HCH1.8	Hydraulics & Coastal Engineering Lab.		3	3	Viva	50	50	100	2
<b>Total</b>		<b>24</b>	<b>6</b>	<b>30</b>		<b>520</b>	<b>280</b>	<b>800</b>	<b>28</b>

**II – SEMESTER**

Code No.	Course title	Scheme of Instruction			Scheme of Examination			Total	Credits
		Lec	Tut	Total	Exam (hrs)	Ext	Sess		
HCH2.1	Free Surface Flow	4	--	4	3	70	30	100	4
HCH2.2	Hydraulic Structures	4	--	4	3	70	30	100	4
HCH2.3	Siting and Planning of Port & Harbour Installations	4	--	4	3	70	30	100	4
HCH2.4	Marine and Offshore Structures	4	--	4	3	70	30	100	4
HCH2.5	a) Seismic Design of Port Structures b) Water Resources systems analysis c) Finite Element Methods of Analysis	4	--	4	3	70	30	100	4
HCH2.6	a) Design of Offshore structures b) Estuarine Hydraulics c) Groundwater Hydraulics	4	--	4	3	70	30	100	4
HCH2.7	Sediment Transport & Dredging	--	3	3	Viva	50	50	100	2
HCH2.8	Seminar		3	3	Viva	50	50	100	2
<b>Total</b>		<b>24</b>	<b>6</b>	<b>30</b>		<b>520</b>	<b>280</b>	<b>800</b>	<b>28</b>

**III and IV SEMESTERS**

Code No	Course title	Scheme of Examination	Total Marks	Credits
HCH3.1	Dissertation (Preliminary)	Viva-voce	<b>100</b>	<b>10</b>
HCH4.1	Dissertation (Final)	Defence and Viva-voce	<b>100</b>	<b>14</b>