

Introduction of Choice Based Credit System in Harbour & Ocean Engineering Curriculum

Course Name: HARBOUR & OCEAN ENGINEERING

(With Effect from the Academic year 2015 - 2016)

SEMESTER: I (10.0 Units)

S.No	SUB CODE	CATEGORY	SUBJECT TITLE	C	L	T	P	M
1	HE 101	G1	Soft Skill	4	4	0	0	100
2	HE 102	G2	Physical Education	1	0	0	2	100
3	HE103	F1	English for Engineers - I	3	2	0	0	100
4	PHE 101	F2	Engineering Physics - I	3	3	0	0	100
5	HE104	F3	Engineering Chemistry	3	3	0	0	100
6	MH101	F4	Engineering Mathematics-I	4	4	0	0	100
7	GE1001	F5	Engineering Mechanics	3	3	0	0	100
8	IT1503	F6	Computer Basics & Utilities	3	3	0	0	100
9	HE105	F7	Workshop Practices	2	0	0	4	100
10	GE1501	F8	Engineering Mechanics Lab	1	0	0	2	100
				27				
				TOTAL: <u>30 Periods</u>				

Note: C – Credit L – Lecture T – Tutorial P – Practical M – Marks

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Course Name:..... HARBOUR & OCEAN ENGINEERING

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SEMESTER: II (12.0 Units)

S.No	SUB CODE	CATEGORY	SUBJECT TITLE	C	L	T	P	M
1	HE 201	G1	English for Engineers - II	2	2	0	0	100
2	HE 202	G2	Environmental Science	2	2	0	0	100
3	HE 203	G3	Soft skill	1	1	0	0	100
4	GE1502	F1	Engineering Graphics	2	0	0	4	100
5	HE 204	F2	MATLAB using 'C' Programming	2	2	0	0	100
6	PHE 201	F3	Engineering Mathematics - II	4	4	0	0	100
7	HE 205	F4	Engineering Physics - II	4	3	0	0	100
8	PPHE 201	F5	Applied Chemistry	3	0	0	3	100
9	HE 206	C1	Materials for Marine Environment	3	3	0	0	100
10	HE 207	F6	Physics Lab	1	0	0	2	100
11	HE208	F7	MATLAB using 'C' Programming Lab	1	0	0	2	100
12	HE209	F8	Chemistry Lab	1	0	0	2	100
				26				
TOTAL: <u>30 Periods</u>								

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Course Name:..... HARBOUR & OCEAN ENGINEERING

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SEMESTER: III (10.0 Units)

S.No	SUB CODE	CATEGORY	SUBJECT TITLE	C	L	T	P	M
1	HE 301	G1	Harbour CADD - I	1	0	0	4	100
2	HE 302	G2	Soft Skill	2	2	0	0	100
3	EM 301	F1	Engineering Mathematics - III	3	3	0	0	100
4	HE 303	C1	Engineering Geology	3	3	0	0	100
5	HE 304	C2	Fluid Mechanics	3	3	0	0	100
6	HE 305	C3	Introduction to Coastal & Offshore Technology	3	3	0	0	100
7	HE 306	C4	Wave Hydrodynamics	4	4	0	0	100
8	HE 307	C5	Strength of Materials	4	4	0	0	100
9	HE 308	C6	Fluid Mechanics Lab	1	0	0	2	100
10	HE 309	C7	Strength of Materials Lab	1	0	0	2	100
				25				
TOTAL: 30 Periods								

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Course Name: HARBOUR & OCEAN ENGINEERING

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SEMESTER: IV (10.0 Units)

S.No	SUB CODE	CATEGORY	SUBJECT TITLE	C	L	T	P	M
1	HE 401	G1	HARBOUR CADD-II	1	0	0	2	100
2	HE 402	G2	Soft Skill	2	2	0	0	100
3	HE 403	F1	Basics of Dredging Technology	3	3	0	0	100
4	HE 404	C1	Oceanography	3	3	0	0	100
5	HE 405	C2	Theory of Coastal Surveying - I	3	3	0	0	100
6	HE 406	C3	Ocean Data Analysis	3	3	0	0	100
7	HE 407	C4	Applied Coastal Hydraulics & Hydraulic Machinery	3	3	0	0	100
8	HE 408	E-D	Elective Department	3	3	0	0	100
9	HE 409	C5	Coastal Survey Lab – I	2	0	0	4	100
10	HE 410	C6	Coastal Modeling Lab - I	2	0	0	4	100
			Elective Department					
			Quantity Surveying					
			Marine Geo Physical Methods					
				25				
TOTAL: <u>30 Periods</u>								

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Course Name: HARBOUR & OCEAN ENGINEERING

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SEMESTER: V (9.0 Units)

S.No	Sub Code	CATEGORY	SUBJECT TITLE	C	L	T	P	M
1	HE 501	G1	STCW	2	0	0	0	100
2	HE 502	C1	Design of Coastal Structures	3	4	0	0	100
3	HE 503	C2	Marine Geotechnical Engineering-I	3	4	0	0	100
4	HE 504	C3	Port Planning - I	3	4	0	0	100
5	HE 505	C4	Design of RC Structures	4	4	0	0	100
6	HE 506	E1-O	Elective Open	3	3	0	0	100
7	HE 507	E2-D	Elective Department	3	3	0	0	100
8	HE 508	C5	Marine Hydrodynamics Lab	2	0	0	4	100
9	HE 509	C6	Concrete Technology Lab	2	0	0	4	100
				25				
			Elective Open					
			Geology of Ocean Bottom					
			Remote Sensing Techniques - I					
			Elective Department					
			Ocean Pollution and Environmental Engineering					
			Engineering Geology					
TOTAL: 30 Periods								

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SEMESTER: VI (9.0 Units)

S.No	SUB CODE	CATEGORY	SUBJECT TITLE	C	L	T	P	M
1	HE 601	G1	Industrial Training	2	0	0	0	100
2	HE 602	C1	Marine Geotechnical Engineering-II	3	4	0	0	100
3	HE 603	C2	Theory of Coastal Surveying - II	3	4	0	0	100
4	HE 604	C3	Design of Steel Structures	4	4	0	0	100
5	HE 605	C4	Sediment Transport	3	4	0	0	100
6	HE 606	E1-D	Elective Department	3	0	0	3	100
7	HE 607	E2-O	Elective Open	3	0	0	3	100
8	HE 608	C5	Coastal Survey Lab II	2	0	0	4	100
9	HE 609	C6	Marine Geotechnical Engineering Lab	2	0	0	4	100
				25				
			Elective Department					
			Port Planning -II					
			Port Construction Management					
			Elective Open					
			Marine Geo Physical Methods - II					
			Remote Sensing Techniques - II					
				TOTAL: 30 Periods				

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SEMESTER: VII (7.0 Units)

S.No	SUB CODE	CATEGORY	SUBJECT TITLE	C	L	T	P	M
1	HE 701	G1	Seminar preparation	2	0	2	0	100
2	HE 702	C1	Offshore Structural Analysis	4	4	0	0	100
3	HE 703	C2	Advanced Design of Coastal Structures	4	4	0	0	100
4	HE 704	C3	Marine foundation Engineering	4	4	0	0	100
5	HE 705	E-D	Elective Department	3	4	0	0	100
6	HE 706	C4	Major Design Project Phase - I	6	8	0	0	100
7	HE 707	C6	Coastal Modeling Lab II	2	0	0	4	100
				25				
			Elective Department					
			Geotechnical behavior of Dredged Materials					
			Geotechnical behavior of Expansible & Collapsible Soils					
				TOTAL: <u>30 Periods</u>				

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SEMESTER: VIII (4.0 Units)

S.No	SUB CODE	CATEGORY	SUBJECT TITLE	C	L	T	P	M
1	HE 801	C1	Advanced Dredging Technology	4	4	0	0	100
2	HE 802	C2	Engineering Economics & Cost Analysis	4	4	0	0	100
3	HE 803	C3	Design of Offshore Pipelines	4	4	0	0	100
4	HE 804	C4	Major Design Project Phase – II	6	18	0	0	100
				18				
				TOTAL: <u>30 Periods</u>				

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