List of Courses for the Program

(Semester wise)

Semester 1

S.	Course	Course Title	Cate-	Contact	L	Т	P	С		
No	Code		gory	Hours						
THE	ORY				•	•	•			
1	1 UBLEC01 Technical English-I HS 2 2 0 0 2									
2	UBMTC01	Engineering Mathematics-I	BS	4	3	1	0	4		
3	UCPHC01	Engineering Physics-I	BS	3	3	0	0	3		
4	UBCHC01	Engineering Chemistry	BS	3	3	0	0	3		
5	UCITC01	Introduction to Programming	ES	3	3	0	0	3		
3	OCITCOI	in C and C++		3	3	U	U	3		
PR	ACTICALS									
1.	UBMCCPA	Engineering Graphics	ES	4	0	2	2	3		
2.	UCPHCPA	Engineering Physics	BS	2	0	0	2	1		
	OCTICIA	Laboratory			U	U	2	1		
3.	UBCHCPA	Engineering Chemistry	BS	2	0	0	2	1		
	UBCITCEA	Laboratory		2	U	U	2	1		
4.	UBITCPA	Programing in C and C++	ES	2	0	0	2	1		
	UDITORA	Laboratory			U	U		1		
5.	UCLECPB	Spoken English-I	EEC	3	0	0	3	2		
		TOTAL		28	14	3	11	23		

L-Lecture

T-Tutorial

P – Practical / Laboratory

C - Credit

HS – Humanities Science

BS – Basic Science

ES – Engineering Science

PC – Professional Core

PE – Professional Elective

EEC – Employment Enhancement Course

Semester: II

S.	Course	Course Title	Cate-	Contact	L	T	P	С
No	Code		gory	Hours				
THE	ORY						•	•
1.	UBLEC02	Technical English-II	HS	2	2	0	0	2
2.	UBMTC02	Engineering Mathematics-II	BS	4	3	1	0	4
3.	UCPHC02	Engineering Physics-II	BS	3	3	0	0	3
4.	UBEEC01	Basics of Electrical & Electronic Engineering	ES	3	3	0	0	3
5.	UBBTC01	Environment Science	HS	2	2	0	0	2
6.	UBMCC03	Engineering Mechanics	ES	4	3	1	0	4
7.	UBMCC11	Thermodynamics	ES	3	3	0	0	3
PRA	CTICALS							
8.	UBEECPA	Basics of Electrical & Electronics Practical	ES	2	0	0	2	1
9.	UBWSCPA	Engineering Practices Laboratory	BS	4	0	0	4	2
10.	UCLECPC	Spoken English - II	EEC	3	0	0	3	2
		TOTAL		30	19	2	9	26

Semester: III

S.	Course	Course Title	Cate-	Contact	L	T	P	С
No	Code		gory	Hours				
THE	ORY							
1.	UBMTC03	Engineering Mathematics III	BS	4	3	1	0	4
2.	UBHE301	Materials for Marine Environment	PC	3	3	0	0	3
3.	UBHE302	Mechanics of Fluid	ES	3	3	0	0	3
4.	UBHE303	Introduction to Coastal & Offshore Technology	PC	3	3	0	0	3
5.	UBHE304	Wave Hydrodynamics	PC	4	4	0	0	4
6.	UBHE305	Mechanics of Solids	PC	4	4	0	0	4
PRA	CTICALS							
7.	UBHE3PA	Mechanics of Fluids Laboratory	PC	2	0	0	2	1
8.	UBHE3PB	Mechanics of Solid Laboratory	PC	2	0	0	2	1
9.	UCLECPD	Spoken English -III	EEC	3	0	0	3	2
		TOTAL		28	20	1	7	25

Semester: IV

S.	Course	Course Title	Cate-	Contact	L	T	P	С	
No	Code		gory	Hours					
THE	ORY					•			
1.	1. UBHE401 Ocean Data Analysis BS 4 4 0 0 4								
2.	UBHE402	Oceanography	PC	4	4	0	0	4	
3.	UBHE403	Basics of Dredging Technology	PC	3	3	0	0	3	
4.	UBHE404	Theory of Coastal Surveying – I	PC	4	4	0	0	4	
5.	UBHE405	Applied Coastal Hydraulics & Hydraulic Machinery	PC	4	4	0	0	4	
PRA	CTICALS								
6.	UBHE4PA	Coastal Survey Laboratory – I	PC	2	0	0	2	1	
7.	UBHE4PB	Coastal Modeling Laboratory - I	PC	2	0	0	2	1	
8.	UBHE4PC	Harbour – Computer Aided Design	PC	2	0	0	2	1	
9.	UCLECPE	Spoken English -IV	EEC	3	0	0	3	2	
		TOTAL		28	19	0	9	24	

Semester: V

S.	Course	Course Title	Cate-	Contact	L	T	P	С
No	Code		gory	Hours				
THE	ORY					I	I	ı
1.	UBHE501	Design of Coastal Structures	PC	4	4	0	0	4
2.	UBHE502	Marine Geotechnical	PC	4	4	0	0	4
	OBITE 302	Engineering		4	4	U	U	4
3.	UBHE503	Theory of Structures	PC	4	4	0	0	4
4.	UBHE504	Design of RC Structures	PC	4	4	0	0	4
5.		Core Elective Course – I	PE	3	3	0	0	3
6.		Open Elective Course – I	OE	2	2	0	0	2
PRA	CTICALS							
7.	UBHE5PA	Marine Hydrodynamics	PC	4	0	0	4	2
	OBILITA	Laboratory		7	U	U	7	2
8.	UBHE5PB	Concrete Technology	PC	3	0	0	3	2
	OBITE 31 B	Laboratory		3	U	U	3	2
9.	UBLECPF	Personality Development	EEC	2	0	0	2	1
	OBLECT	Programme - I		2	U	U	2	1
10.	UBSTCPA	STCW *	EEC	0	0	0	0	1
		TOTAL		30	21	0	9	27
OPE	EN ELECTIVE							
12	UBHE509	Coastal Hazards And	OE	2	0	0	2	2
12	CBHE307	Management	OL	2	U	U		
13	UBHE510	Computational Fluid	OE	2	0	0	2	2
		Dynamics	OL	2		U		
DEP	PARTMENT EI							
15	UBHE507	Ocean Pollution and	PE	3	0	0	3	3
13	OBITE 307	Environmental Engineering	112	3	0	Ü	3	3
16	UBHE508	Construction Management	PE	3	0	0	3	3

Semester: VI

S.	Course	Course Title	Cate-	Contact	L	T	P	С
No	Code		gory	Hours				
THE	ORY							
1.	UBHE601	Foundation Engineering	PC	3	3	0	0	3
2.	UBHE602	Theory of Coastal Surveying - II	PC	3	3	0	0	3
3.	UBHE603	Design of Steel Structures	PC	3	3	0	0	3
4.	UBHE604	Quantity Surveying	PC	3	3	0	0	3
5.	UBHE605	Port Planning - I	PC	3	3	0	0	3
6.		Core Elective Course - II	PE	3	3	0	0	3
7.		Open Elective Course - II	OE	2	2	0	0	2
PRA	CTICALS							•
8.	UBHE6PA	Coastal Survey Laboratory II	PC	4	0	0	4	2
9.	UBHE6PB	Marine Geotechnical Engineering Laboratory	PC	4	0	0	4	2
10.	UBLECPG	Personality Development Programme - II	EEC	2	0	0	2	1
11.	UBIVCPZ	Industrial Training	EEC	0	0	0	0	1
		TOTAL		30	20	0	10	26
OPE	N ELECTIVES	S						
12	UBHE609	Marine instrumentations	OE	2	2	0	0	2
13	UBHE610	Physical and numerical modeling	OE	2	2	0	0	2
PRO	FESSIONAL I	ELECTIVE						
15	UBHE607	Sediment Transport	PE	3	3	0	0	3
16	UBHE608	Space Geodesy	PE	3	3	0	0	3

Semester: VII

S.	Course	Course Title	Cate-	Contact	L	T	P	С
No	Code		gory	Hours				
THE	ORY							
1.	UBHE701	Port Planning - II	PC	3	3	0	0	3
2.	UBHE702	Offshore Structural Analysis	PC	3	3	0	0	3
3.	UBHE703	Advanced Design of Coastal Structures	PC	4	4	0	0	4
4.	UBHE704	Prestressed Concrete Structures	PC	4	4	0	0	4
5.		Core Elective Course - III	PE	3	3	0	0	3
PRA	CTICALS							
6.	UBISCPX	Internship	EEC	0	0	0	0	2
7.	UBHE7PA	Coastal Modeling Laboratory II	PC	4	0	0	4	2
8.	UBHE7PB	Major Design Project Phase - I	EEC	4	0	0	4	2
		TOTAL		25	17	0	8	23
DEP	ARTMENT E	LECTIVES						
9		Geotechnical behavior of	PE					
	UBHE705	Expansible & Collapsible		3	3	0	0	3
		Soils						
10	UBHE706	Integrated Coastal Zone Management	PE	3	3	0	0	3

Semester: VIII

S.	Course	Course Title	Cate-	Contact	L	T	P	С	
No	Code		gory	Hours					
THE	THEORY								
1.	UBHE801	Advanced Dredging	PC	3	3	0	0	3	
	UDHEOUI	Technology		3	3	U	U	3	
2.		Advanced Geotechnical	PC						
	UBHE802	Behavior of Dredged		3	3	0	0	3	
		Materials							
3.	UBHE803	Engineering Economics and	PC	3	3	0	0	3	
	OBIIE803	cost analysis		3	3	U	U	3	
4.	UBHE804	Design of Offshore Pipelines	PC	3	3	0	0	3	
PRA	CTICALS								
5.	UBMC8PA	Major Design Project Phase -	EEC	12	0	0	12	6	
	UDIVICOPA	II		12	U	U	12	U	
		TOTAL		24	12	0	12	18	

List of Courses for the Program

(Category Wise)

Humanities Courses

S. No	Course Code	Course Title	Cate- gory	Contact Hours	L	Т	P	С
1.	UBLEC01	Technical English-I	HS	2	2	0	0	2
2.	UBLEC02	Technical English-II	HS	2	2	0	0	2
3.	UBBTC01	Environment Science	HS	2	2	0	0	2

Basic Sciences

S. No	Course Code	Course Title	Cate- gory	Contact Hours	L	Т	P	С
	UBMTC01	Engineering Mathematics-I	BS	4	3	1	0	4
	UBPHC01	Engineering Physics-I	BS	3	3	0	0	3
	UBCHC01	Engineering Chemistry	BS	3	3	0	0	3
	UBPHCPA	Engineering Physics Laboratory	BS	2	0	0	2	1
	UBCHCPA	Engineering Chemistry Laboratory	BS	2	0	0	2	1
	UBMTC02	Engineering Mathematics-II	BS	4	3	1	0	4
	UBPHC02	Engineering Physics-II	BS	3	3	0	0	3
	UBWSCPA	Engineering Practices Laboratory	BS	4	0	0	4	2
	UBMTC03	Engineering Mathematics III	BS	4	3	1	0	4
	UBHE401	Ocean Data Analysis	BS	4	4	0	0	4

Engineering Science

S. No	Course Code	Course Title	Cate- gory	Contact Hours	L	Т	P	С
	UCITC01	Introduction to Programming in C and C++	ES	3	3	0	0	3
	UBMCCPA	Engineering Graphics	ES	4	0	2	2	3
	UBITCPA	Progrmming in C and C++ Laboratory	ES	2	0	0	2	1
	UBEEC01	Basics of Electrical & Electronic Engineering	ES	3	3	0	0	3
	UBMCC03	Engineering Mechanics	ES	4	3	1	0	4
	UBMCC11	Thermodynamics	ES	3	3	0	0	3
	UBEECPA	Basics of Electrical & Electronics Practical	ES	2	0	0	2	1
	UBHE302	Mechanics of Fluids	ES	3	3	0	0	3

Professional Core

S. No	Course	Course Tide	Cate-	Contact	L	Т	Р	С
S. NO	Code	Course Title	gory	Hours	L	1	P	
	UBHE301	Materials for Marine	PC	3	3	0	0	3
	CBILLSOI	Environment	10	3	7	O	U	3
	UBHE303	Introduction to Coastal &	PC	3	3	0	0	3
	CBHL303	Offshore Technology	10	3	7	O	U	3
	UBHE304	Wave Hydrodynamics	PC	4	4	0	0	4
	UBHE305	Mechanics of Solids	PC	4	4	0	0	4
	UBHE3PA	Mechanics of Fluids	PC	2	0	0	2	1
	UBHESPA	Laboratory	PC	2	U	U	2	1
	UBHE3PB	Mechanics of Solids	PC	2	0	0	2	1
	OBILSEB	Laboratory	rc	2	U	U	2	1
	UBHE402	Oceanography	PC	4	4	0	0	4
	UBHE403	Basics of Dredging	PC	3	3	0	0	3
	OBIL-403	Technology	10	3	3	U	U	3
	UBHE404	Theory of Coastal Surveying	PC	4	4	0	0	4
	OBIIL404	_ I	10	4	4	U	U	4
	UBHE405	Applied Coastal Hydraulics	PC	4	4	0	0	4
	ODIIL-403	& Hydraulic Machinery	10	4	- +			4
	UBHE4PA	Coastal Survey Laboratory –	PC	2	0	0	2	1
	ODIIL4rA	I	10	2	U		<i></i>	1
	UBHE4PB	Coastal Modeling	PC	2	0	0	2	1

	Laboratory - I						
UBHE4PC	Harbour – Computer Aided Design	PC	2	0	0	2	1
UBHE501	Design of Coastal Structures	PC	4	4	0	0	4
UBHE502	Marine Geotechnical Engineering	PC	4	4	0	0	4
UBHE503	Theory of Structures	PC	4	4	0	0	4
UBHE504	Design of RC Structures	PC	4	4	0	0	4
UBHE5PA	Marine Hydrodynamics Laboratory	PC	4	0	0	4	2
UBHE5PB	Concrete Technology Laboratory	PC	3	0	0	3	2
UBHE601	Foundation Engineering	PC	3	3	0	0	3
UBHE602	Theory of Coastal Surveying - II	PC	3	3	0	0	3
UBHE603	Design of Steel Structures	PC	3	3	0	0	3
UBHE604	Quantity Surveying	PC	3	3	0	0	3
UBHE605	Port Planning - I	PC	3	3	0	0	3
UBHE6PA	Coastal Survey Laboratory II	PC	4	0	0	4	2
UBHE6PB	Marine Geotechnical Engineering Laboratory	PC	4	0	0	4	2
UBHE701	Port Planning - II	PC	3	3	0	0	3
UBHE702	Offshore Structural Analysis	PC	3	3	0	0	3
UBHE703	Advanced Design of Coastal Structures	PC	4	4	0	0	4
UBHE704	Prestressed Concrete Structures	PC	4	4	0	0	4
UBHE7PA	Coastal Modeling Laboratory - II	PC	4	0	0	4	2
UBHE801	Advanced Dredging Technology	PC	3	3	0	0	3
UBHE802	Advanced Geotechnical Behavior of Dredged Materials	PC	3	3	0	0	3
UBHE803	Engineering Economics and cost analysis	PC	3	3	0	0	3
UBHE804	Design of Offshore Pipelines	PC	3	3	0	0	3

Professional Elective

S. No	Course Code	Course Title	Cate- gory	Contact Hours	L	T	P	С
	UBHE507	Ocean Pollution and Environmental Engineering	PE	3	0	0	3	3
	UBHE508	Construction Management	PE	3	0	0	3	3
	UBHE607	Sediment Transport	PE	3	3	0	0	3
	UBHE608	Space Geodesy	PE	3	3	0	0	3
	UBHE705	Geotechnical behavior of Expansible & Collapsible Soils	PE	3	3	0	0	3
	UBHE706	Integrated Coastal Zone Management	PE	3	3	0	0	3

Open Elective

S. No	Course Code	Course Title	Cate- gory	Contact Hours	L	Т	P	С
	UBHE509	Coastal Hazards And Management	OE	2	0	0	2	2
	UBHE510	Computational Fluid Dynamics	OE	2	0	0	2	2
	UBHE609	Marine instrumentations	OE	2	2	0	0	2
	UBHE610	Physical and numerical modeling	OE	2	2	0	0	2

Employment Enhancement Course

S. No	Course Code	Course Title	Cate- gory	Contact Hours	L	Т	P	С
	UCLECPB	Spoken Skills - I	EEC	3	0	0	3	2
	UCLECPC	Spoken Skills - II	EEC	3	0	0	3	2
	UCLECPD	Spoken Skills - III	EEC	3	0	0	3	2
	UCLECPE	Spoken Skills - IV	EEC	3	0	0	3	2
	UBLECPF	Personality Development Programme - I	EEC	2	0	0	2	1
	UBSTCPA	STCW *	EEC	0	0	0	0	1
	UBLECPG	Personality Development Programme - II	EEC	2	0	0	2	1
	UBIVCPZ	Industrial Training	EEC	0	0	0	0	1
	UBISCPX	Internship	EEC	0	0	0	0	2
	UBHE7PB	Major Design Project Phase - I	EEC	4	0	0	4	2
	UBMC8PA	Major Design Project Phase - II	EEC	12	0	0	12	6