



B. Sc. Marine Physics Programme Programme Structure and Organization



Year One

Semester 1					
Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Mandatory	Student must do the following courses				
MATH 110	Mathematics	3	-	3	-
MP 101	Essentials of Marine Physics	2	3	3	-
ELIG 101	Intensive English (1)	15	-	3	-
ARAB 101	Arabic Language	3	-	3	-
MG 101	Essentials of Marine Geology	2	3	3	-
Total				15	

Semester 2					
Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Mandatory	Student must do the following courses				
MS 101	Academic Skills in Marine Sciences	3	-	3	-
MC 101	Essentials of Marine Chemistry	2	3	3	-
MB 101	Essentials of Marine Biology	2	3	3	-
ELIG 102	Intensive English (2)	15	-	3	ELIG 101
ARAB 201	Arabic Language	3	-	3	ARAB 101
Total				15	

Year Two

Semester 3					
Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Mandatory	Student must do the following courses				
ISLS 101	Islamic Culture (1)	2	-	2	-
MSC 201	An Introduction to Marine Pollution	2	-	2	-
MSC 202	Dynamics of Marine Ecosystems	2	-	2	-
MS 202	Marine Ecology	3	-	3	MB 101 + MG 101 + MP 101 + MC 101
CPIT110	Problem solving and programing	3	-	3	-
PHYS 110	General Physics	3	-	3	-
	Free Course	-	-	2	-
Total				17	

Semester 4					
Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Mandatory	Student must do the following courses				
ISLS 201	Islamic Culture (2)	2	-	2	ISLS 101
MSC 203	Statistical techniques for Oceanographers	2	3	3	MATH 110
MSC 204	Oceanographic Data Processing	2	3	3	-
MSC 205	An Introduction to Remote Sensing in Marine Environment	2	-	2	-
MSC 206	An Introduction to Integrated Coastal Zone Management	2	-	2	-
MSC 207	Marine Resources	2	3	3	-
	Free Course	-	-	2	-
Total				17	

Year Three

Semester 5					
Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Mandatory	Student must do the following courses				
ISLS 301	Islamic Culture (3)	2	-	2	ISLS 201
MSC 307	Environmental impact assessment	2	3	3	MSC 206
MP 360	Marine Meteorology	2	3	3	MP 101
MP 361	Hydrography and water masses	2	3	3	MP 101
MATH 202	Calculus (II)	3	-	3	MATH 110
Elective	Student may select from the following courses	-	-	4	-
Total				18	

Semester 6					
Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Mandatory	Student must do the following courses				
ISLS 401	Islamic Culture (4)	2	-	2	ISLS 301
MSC 308	Cooperative and Field Training	1	3	2	MSC 207 + MSC 307
PHYS 203	General Physics (3)	4	-	4	MATH 110+ PHYS 110
MATH 203	Calculus (III)	3	-	3	MATH 110
MP 362	Air-Sea Interaction	2	3	3	MATH 202 + MP 360
MP 363	Dynamical Oceanography (I)	2	3	3	MATH 202+ MP 360
	Free Course	-	-	1	-
Total				18	

Year Four

Semester 7					
Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Mandatory	Student must do the following courses				
MP 460	Ocean Circulation	2	3	3	MATH 202 + MP 361
MP 461	Waves and Tide	2	3	3	MATH 203 + PHYS 203
MP 462	Physical Oceanography of Adjacent Seas	2	-	2	MP 363
MP 463	Mean Sea Level : Measurements and Predication	2	-	2	-
MP 464	Modeling of Marine Dynamics	2	3	3	MATH 203 + MP 363
Elective	Students may select from the elective courses	-	-	5	-
Total				18	

Semester 8					
Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Mandatory	Student must do the following courses				
MP 465	Near-Shore Physical Processes	2	-	2	-
MP 466	Dynamical Oceanography (II)	2	3	3	MP 363
MP 499	Research Project	4	-	4	-
Elective	Students may select from the elective courses	-	-	5	-
Total				14	



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Elective Courses

Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Elective	Student may select 14 credits from 42 credits				
MS 201	Oceanography	3	-	3	-
MP 467	Remote Sensing in Physical Oceanography	2	3	3	PHYS 203 + MP 460
MP 468	Special Topics in Physical Oceanography 2	2	-	2	-
MB 313	Principles of Swimming and Diving	1	3	2	-
MB 312	Principles of Aquaculture	2	-	2	MB 101
MC 446	Water quality	1	3	2	MSC 201
MP 469	Marine Acoustics	2	3	3	PHYS 203 + MP361
MP 364	Special Topics in Physical Oceanography 1	2	-	2	-
MP 365	Integrated Coastal Zone Management	2	-	2	-
MG 326	Coastal Zone Geology	2	3	3	-
MSS 220	Fundamental of Surveying	2	3	3	MATH 202
PHYS 252	Classical Mechanics	3	-	3	PHYS 110 + MATH 202
MATH 204	Differential Equations (1)	3	-	3	MATH202
MATH 241	Linear Algebra	3	-	3	MATH110
MATH 305	Differential Equations (2)	3	-	3	MATH 204 + MATH 205 + MATH 241
MATH 205	Series and Vector Analysis	3	-	3	MATH 202+ MATH 203
Total				42	