



B. Sc. Marine Geology Programme

Programme Structure and Organization



Year One

Semester 1					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
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
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
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
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
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
CPIT 110	Problem solving and programing	3	-	3	-
MG 220	Marine Sedimentology	2	3	3	MG 101 + MP 101
	Free Course	-	-	2	-
Total				17	

Semester 4					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
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
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
ISLS 301	Islamic Culture (3)	2	-	2	ISLS 201
MSC 307	Environmental impact assessment	2	3	3	MSC 206
EMR 111	Mineralogy	2	3	3	-
MG 320	Marine Carbonate Sediments	2	3	3	MG 220
MG 321	Marine Macrofossils	1	3	2	MS 202
MB 313	Principle of Diving and Swimming	2	-	2	-
Total				15	

Semester 6					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
ISLS 401	Islamic Culture (4)	2	-	2	ISLS 301
MSC 308	Cooperative and Field Training	1	3	2	MSC 207 + MSC 307
MG 322	Mineralogy of Marine Sediments	2	3	3	MG 320 + EMR 111
MG 323	Marine Microfossils	1	3	2	MG 321 + MS 202
MG 324	Introduction to Marine Geophysics	2	3	3	MG 101 + MP 101 + MSC 204
MG 325	Geology of Red Sea & Arabian Gulf	2	-	2	-
MG 326	Coastal Zone Geology	2	3	3	-
	Free course			1	-
Total				18	

Year Four

Semester 7					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
MG 420	Quaternary Geology	3	-	3	MG 220 + MG 321 + MG 323
MG 421	Marine Sequence Stratigraphy	1	3	2	MG 220
MG 422	Remote Sensing & GIS in Marine Geology	2	3	3	MSC 205
MG 423	Geochemistry of marine sediments	2	3	3	MG 220 + MG 322
EPS 202	Introduction to Petroleum Geology	2	-	2	EMR 111
Elective	Student may select from the elective courses	-	-	4	-
Total				17	

Semester 8					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
MG 424	Marine Mineral Resources	2	-	2	MG 322
MG 425	Paleoceanography	2	3	3	MG 322 + MG 423
MG 426	Applied Marine Geophysics	2	3	3	MG 324
MG 427	Geology of Deep-Sea	2	-	2	-
MG 499	Research Project	4	-	4	-
Elective	Student may select from the elective courses	-	-	4	-
Total				18	



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Elective Courses

Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Elective	Student may select 8 credits from 28 credits				
MS 201	Oceanography	3	-	3	-
MG 428	Special topics 1	2	-	2	-
MG 429	Special topics 2	2	-	2	-
MG 430	Marine Geology Seminar	1	-	1	-
MG 431	Specialized training	1	3	2	-
MG 432	Marine Geohazard	2	-	2	-
EPS 312	Drilling	1	3	2	EPS 202
EPS 340	Well logging	1	3	2	EPS 202
EPS 344	Subsurface Geology	1	3	2	EPS 202
EEG201	Introduction to Engineering and Environmental Geology	2	-	2	EMR 111
MC 446	Water quality	1	3	2	MSC 201
MP 365	Integrated Coastal Zone Management	2	-	2	-
MB 312	Principles of Aquaculture	2	-	2	MB 101
MP 465	Near-Shore Physical Processes	2	-	2	-
Total				28	