

## Advisory Study Plan for the Academic Year 2014 / 2015

Faculty: Engineering

Department: Medical Engineering

First Year

1 <sup>st</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0161200	Military Sciences	3	-
0161201	National Education	3	-
0111101	Mathematics (1)	3	-
0871101	Engineering Workshop	1	-
0111202	General Physics (1)	3	-
-	Elective University Requirement	3	-
Total : 16 CH			

1 <sup>st</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0121181	English Language Communication Skills (1)	3	0171100
0911567	General Chemistry for Engineers	3	-
0811201	Computer Skills (Engineering)	3	0331200
0112102	Mathematics (2)	3	0111101
0911568	General Chemistry Lab for Engineers	1	0911567 /co
0111203	General Physics (2)	3	0111202
Total : 16 CH			

Second Year

2 <sup>nd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0111204	General Physics Lab	1	0111202/ CO
0832103	Engineering Mathematics (1)	3	0112102*
0871102	Engineering Drawing	2	-
0872301	Electric Circuits (1)	3	0111202
0921769	Biology for ME	3	-
-	Elective University Requirement	3	-
Total : 18 CH			

2 <sup>nd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0161101	Arabic Language Communication Skills (1)	3	0161100
0812101	Technical Writing	1	0121181
0832104	Engineering Mathematics (2)	3	0112102
0832107	Engineering Statistics	3	0111101
0832501	Biomechanics (1)	3	0111202
0872302	Electric Circuits (2)	3	0872301*
0872303	Electric circuits Lab	1	0872302/co
Total :17 CH			

Third Year

3 <sup>rd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0812102	Engineering Ethics	1	0121181
0833105	Numerical Analysis	3	0832104
0833502	Biomechanics (2)	3	0832501*
0812401	Digital Logic Circuits	3	-
0822205	Electronics	3	0872301
0921162	Anatomy	3	0921769
-	Elective University Requirement	3	-
Total : 19 CH			

3 <sup>rd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0833301	Medical Electronics	3	0822205
0812402	Digital Logic Circuits Lab	1	0812401 / CO
0823206	Electronics Lab	1	0822205 / Co
0823207	Digital Electronics	3	0822205
0823501	Signals and Systems	3	0832103
0922263	Physiology	3	0921162
-	Elective University Requirement	3	-
Total :17 CH			

Fourth Year

4 <sup>th</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0833302	Simulation Lab for Medical Engineering	1	0833301
0834401	Medical Instrumentation (1)	3	0833301 0922263
0823208	Digital Electronics Lab	1	0823207 / Co
0824507	Digital Signal Processing	3	0823501
0813414	Microprocessors and Embedded Systems	3	0812401
0833503	Biomaterials	2	0832501
-	Elective University Requirement	3	-
Total :16 CH			

4 <sup>th</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0834402	Medical Sensors and Biotelemetry	3	0834401
0834403	Medical Instrumentation (2)	3	0834401*
0834505	Biomechanics and Rehabilitation Lab	1	0834504/co
0834901	Field Training	3	Pass(110)Cr.H
0873305	Electrical Machines	3	0872302
0814415	Microprocessors and Embedded Systems Lab	1	0813414 / Co
Total :17 CH			

Fifth Year

5 <sup>th</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0834404	Medical Instrumentation Lab	1	0834403/co
0834405	Medical Sensors and Biotelemetry Lab	1	0834402
0835406	Design Concepts in Biomedical Engineering	2	0834403 /Co
0835407	Medical Technology Management	3	0834403
0835408	Medical Imaging Systems	3	0834403
0835902	Graduation Project (1)	1	Pass (120) Cr.H 0835406/co
0834504	Medical Rehabilitation Engineering	3	0833503 0834402/Co
-	Elective major requirement	3	-
Total :14 CH			

5 <sup>th</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0835507	Prosthetic and Artificial Organs	2	0834504 / co
0814208	Digital Image Processing	3	0823501
0874312	Control Systems	3	0823501
0835903	Graduation Project (2)	2	0835902
-	Elective major requirement	3	-
Total :13 CH			

\* The student must pass prerequisite before registering the course

