

## Advisory Study Plan for the Academic Year 2019 / 2020

Faculty: Engineering

Department: Medical Engineering

First Year

1 <sup>st</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0111101	Mathematics (1)	3	-
A0111201	General Physics (1)	3	-
A0111301	General Chemistry	3	-
A0161201	English Communication Skills	3	A0161200
A0811202	Engineering Workshop	1	-
A0831201	Engineering Drawing	2	-
Total : 15 CH			

1 <sup>st</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0111102	Mathematics (2)	3	A0111101
A0111202	General Physics (2)	3	A0111201
A0111203	General Physics Lab	1	A0111201 /Co
A0161101	Arabic Language Communication Skills	3	A0161100
A0811201	Computer Skills (Engineering)	3	A0331700
A0812201	Communication Skills and Professional Ethics	3	A0161201
Total : 16 CH			

Second Year

2 <sup>nd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A1111103	Anatomy	3	-
A0832101	Differential Equations	3	* A0111102
A0872303	Electrical Circuits	3	A0111202
A0161301	National Education	3	-
A0812401	Digital Logic Circuits	3	A0111101
A0812402	Digital Logic Circuits Lab	1	A0812401 /Co
Total :16 CH			

2 <sup>nd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0832102	Engineering Statistics	3	A0111101
A0112101	Linear Algebra	3	A0111102
A0872304	Electric circuits Lab	1	A0872303 /Co
A0832601	Biomechanics (1)	3	*A0111201
A1112204	Physiology	3	-
A0822502	Electronics	3	*A0872303
A0823502	Electronics Lab	1	A0822502 /Co
Total :17 CH			

Third Year

3 <sup>rd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0823401	Signals and Systems	3	A0872303
A0833601	Biomechanics (2)	3	*A0832601 A1111103/Co
A0833301	Medical Electronics	3	A0822502
A0873501	Machines and Electrical Power	3	A0872303
-	Elective University Requirement	3	-
Total : 15 CH			

3 <sup>rd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0833101	Numerical Analysis	3	A0112101
A0833602	Biomaterials	2	A0111301 A0833601 /Co
A0813201	Engineering Economy and Management	3	A0111101
A0823503	Digital Electronics	3	A0822502
-	Elective University Requirement	3	-
A0823402	Communication Systems	3	A0823401
Total :17 CH			

Fourth Year

4 <sup>th</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0823504	Digital Electronics Lab	1	A0823503 / Co
A0833302	Simulation Lab for Medical Engineering	1	A0833301
A0874501	Control Systems	3	A0823401
A0834302	Medical Instrumentation (1)	3	A1112204 A0833301
A0834301	Computer Applications in ME	3	A0112101 A0811201
-	Elective University Requirement	3	-
Total :14 CH			

4 <sup>th</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0834601	Medical Rehabilitation Engineering	3	A0833601 A0834303 / Co
A0834303	Medical Sensors and Biotelemetry	3	A0834302 A0823402
A0834304	Medical Instrumentation (2)	3	*A0834302
A0824403	Digital Signal Processing	3	A0823401
A0834305	Medical Instrumentation Lab	1	A0834304 /Co
A0834602	Biomechanics and Rehabilitation Lab.	1	* A0834601
-	Elective Major Requirement	3	-
Total :17 CH			

## Summer Semester

Course No.	Course Title	Credit Hours	Prerequisite
A0834701	Field Training	3	Pass(115)Cr.H

Fifth Year

5 <sup>th</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0834306	Medical Sensors and Biotelemetry Lab	1	A0834303
A0835301	Design Concepts in Biomedical Engineering	3	A0834304
A0835302	Medical Technology Management	2	A0834304
A0835402	Medical Digital Image Processing	3	*A0823401
-	Elective University Requirement	3	-
A0835701	Graduation Project (1)	1	Pass Field Training *A0834701 A0835301 / Co
-	Elective Major Requirement	3	A0834303
Total :16 CH			

5 <sup>th</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0835501	Selected Topics in Medical Engineering	3	Department Approval A0835301 /Co
A0161401	Military Sciences	3	Non Jordanian
A0835702	Graduation Project (2)	2	A0835701
A0835401	Medical Imaging Systems	3	A0834304
-	Elective Major Requirement	3	-
Total :14 CH			

\*The Student must pass prerequisite before registering the course.