

Courses (B.Sc. in Biomedical Engineering) 2022-2023

First Year					
1 st Semester UoD/ (1 st Semester THM)		ECTS	2 nd Semester UoD/ (2 nd Semester THM)		ECTS
EB1101	Mathematics I	6	EB1207	Mathematics II	6
EB1102	English Language I	5	EB1208	English Language II	5
EB1103	Engineering Drawing (AutoCAD)	5	EB1209	Computer Programming	5
EB1104	Academic Debate	4	EB1210	Introduction to Biomedical Engineering	6
EB1105	Electrical Circuits 1	6	EB1211	General Chemistry	6
EB1106	Computer Skill	4	EB1212	Kurdology	4

Second Year					
1 st Semester UoD/ (3 rd Semester THM)		ECTS	2 nd Semester UoD/ (4 th Semester THM)		ECTS
EB2101	Mathematics III	5	EB2207	Biology	6
EB2102	Physics I	5	EB2208	Physics II	5
EB2103	Statistical Analysis	4	EB2209	Materials Science and Strength Theory	4
EB2104	Medical Basics	6	EB2210	Digital Systems	5
EB2105	Electronic Circuits	5	EB2211	Electrical Circuits II	5
EB2106	Signals and Systems in Biomedical Engineering **	5	EB2212	Applied Electronics	5

Third Year					
1 st Semester UoD/ (5 th Semester THM)		ECTS	2 nd Semester UoD/ (6 th Semester THM)		ECTS
EB3101	Biomechanics	6	EB3206	Microbiology and Hygiene	6
EB3102	Microprocessor and Microcontroller	6	EB3207	Image Processing	6
EB3103	Digital Signal Processing**	6	EB3208	Medical Equipments	6
EB3104	Mini Project	6	EB3209	Biomechanical Multibody Systems	6
EB3105	Electromagnetism and Electrical Machines	6	EB3210	Control System	6
	Internship-Seminar	-		Internship-Seminar	-

Fourth Year					
1 st Semester UoD/ (7 th Semester THM)		ECTS	2 nd Semester UoD/ (8 th Semester THM)		ECTS
EB4101	Rapid Prototyping	6	EB4205	Practical Study Term Seminar (BPP)	15
EB4102	Radiology Equipments	6	EB4205	Bachelor Thesis	12
EB4103	Biomedical Measurement Techniques	6	EB4207	Colloquium on the Bachelor Thesis	3
EB4104	*Elective	6			

*Elective courses for 4th Year, 1st Semester

- Biomaterials: 6 ECTS
- Applied Medical Physics: 6 ECTS