

Kingdom of Saudi Arabia
Ministry of Education
Prince Sattam Bin Abdulaziz University
College of Applied Medical Sciences - Alkharj



المملكة العربية السعودية
وزارة التعليم
جامعة الأمير سطام بن عبد العزيز
كلية العلوم الطبية التطبيقية بالخرج

Study Plan of Biomedical Equipment Technology Program

Year/ level	Course Code	Course Title	Required or Elective	Credit Hours	College or Department
1 st Year/ 1 st Level	ARAB 101	Language Skills	Required	2	College of Education
	ENGL 132	English: Reading	Required	2	Deanship of Preparatory Year
	ENGL 133	English: Writing	Required	2	
	BIOL 106	General Biology	Required	4	
	CT 140	IT Skills	Required	3	
	MC 1400	Communication Skills	Required	2	
1 st Year/ 2 nd Level	IC 101	Introduction to Islamic Culture	Required	2	College of Education
	STAT 106	Biostatistics	Required	2	Deanship of Preparatory Year
	CHEM 106	Organic Chemistry for Health Sciences	Required	2	
	PHYS 106	General Physics	Required	4	
	ENGL 131	English: Listening & Speaking	Required	2	
	ENGL 134	English for Health Sciences	Required	3	
2 nd year/ 3 rd Level	IC 102	Islam and the Construction of Society	Required	2	College of Education
	ARAB 103	Expository Writing	Required	2	Biomedical Equipment Technology Departement
	CAMS 231	Human Anatomy & Physiology	Required	4	
	CAMS 232	Math for Health Sciences	Required	2	
	CAMS 234	Healthcare Emergency	Required	2	
	CAMS 235	Introduction to Pathology	Required	2	
	CAMS 236	Introduction to Applied Medical Sciences	Required	2	
2 nd year/ 4 th Level	IC 103	Economic System in Islam	Required	2	College of Education
	BMTS 241	Electrical circuits	Required	4	Biomedical Equipment Technology Departement
	BMTS 242	Computer & Systems	Required	2	
	BMTS 243	Math for Biomedical System-1	Required	2	
	BMTS 244	Physics of Medical Instruments	Required	3	
	BMTS 245	Electrical Skills	Required	2	
	BMTS 246	Biomaterials	Required	2	
3 rd year/ 5 th Level	IC 104	Fundamentals of Political System in Islam	Required	2	College of Education
	BMTS 351	Biomed Analog Electronics-1	Required	4	Biomedical Equipment Technology Departement
	BMTS 352	Electrical Measurement	Required	2	
	BMTS 353	Biomedical Mechanical Instruments-1	Required	3	
	BMTS 354	Math for Biomedical system-2	Required	2	
	BMTS 355	Biomedical digital electronics-1	Required	3	
3 rd year/ 6 th Level	BMTS 361	Signal Processing-1	Required	2	Biomedical Equipment Technology Departement
	BMTS 362	Biomedical Analog Electronics-2	Required	3	
	BMTS 363	Electromechanical energy	Required	2	
	BMTS 364	Biomedical Digital Electronic-2	Required	3	
	BMTS 365	Biomedical Mechanical Instruments-2	Required	3	
	BMTS 366	Computer Programming	Required	2	
4 th year/ 7 th Level	BMTS 471	Digital Signal Processing	Required	3	Biomedical Equipment Technology Departement
	BMIS 471	Biomedical Electronic Instruments-1	Required	3	
	BMIS 472	Imaging Systems-1	Required	3	
	BMIS 473	Hospital Safety	Required	2	
	BMIS 474	Instrument Management & Maintenance	Required	2	
	BMTS 484	Computer Application for Biomedical Systems	Required	3	
4 th year/ 8 th Level	BMIS 481	Biomedical Instrument design	Required	3	Biomedical Equipment Technology Departement
	BMIS 482	Imaging system-2	Required	3	
	BMIS 483	Optical and Laboratory instruments	Required	3	
	BMIS 484	Biomedical Control System	Required	3	
	BMTS 486	Molecular Sensors & Nano Devices	Elective	3	
5 th year/ 9 th Level	BMIS 491	Biomed Electronic Instruments-2	Required	3	Biomedical Equipment Technology Departement
	BMTS 485	Reverse Engineering in Biomedical Engineering	Elective	3	
	BMTS 492	Computer Image Processing	Required	3	
	BMIF 492	Pattern Recognition	Elective	3	
	BMTS 491	Project	Required	3	