

Curriculum of Biomedical Equipment Technology Program (Bachelor Degree)

OLD Curriculum

Level 2					Level 1				
Prerequisite	Credits		Course name	Course Code	Prerequisite	Credits		Course name	Course Code
	Lab	Theo				Lab	Theo		
---	0	2	General Chemistry for Health Sciences	CHEM 105	---	0	2	Islamic Culture	IC 101
---	1	3	General Biology	BIO 106	---	0	2	Language Skills	ARAB 101
---	1	3	General Physics for Health Sciences	PHYS 106	---	0	2	Biostatistics	STAT 106
---	0	2	Organic Chemistry for Health Sciences	CHEM 106	---	1	1	English Listening & Speaking	ENGL 131
---	1	2	English for Health Medical Purposes	ENGL 134	---	1	1	English Reading	ENGL 132
					---	1	1	English Writing	ENGL 133
					---	3	0	Computer Skills	CT 140
	3	12	Total			6	9	Total	
	15					15			

Level 4				
Prerequisite	Credits		Course name	Course Code
	Lab	Theo		
---	0	2	Economic System in Islam	IC 103
---	1	3	Electrical Circuits	BMTS 241
---	1	1	Computer & Systems	BMTS 242
CAMS 232	1	1	Applied Mathematics 1	BMTS 243
CAMS 231	1	2	Physics of Medical Equipment	BMTS 244
	1	1	Electrical Skills	BMTS 245
	0	2	Biomaterials	BMTS 246
	5	12	Total	
	17			

Level 3				
Prerequisite	Credits		Course name	Course Code
	Lab	Theo		
---	0	2	Islam and Society Structure	IC 102
---	0	2	Arabic Editing	ARAB 103
BIO 106	1	3	Human Anatomy & Physiology	CAMS 231
---	0	2	Mathematics for Health Sciences	CAMS 232
---	0	2	Medical Terminology	CAMS 233
---	1	1	Emergency Healthcare	CAMS 234
---	0	2	Introduction to Pathology	CAMS 235
	2	14	Total	
	16			

Level 6				
Prerequisite	Credits		Course name	Course Code
	Lab	Theo		
BMTS 354	0	2	Biomedical Analog Signal Processing	BMTS 361
BMTS 351	1	2	Biomedical Analog Electronics 2	BMTS 362
BMTS 241	1	1	Electromechanical Energy	BMTS 363
BMTS 355	1	2	Biomedical Digital Electronics 2	BMTS 364
BMTS 353	1	2	Biomedical Mechanical Equipment 2	BMTS 365
---	1	1	Computer Programming	BMTS 366
	5	10	Total	
	15			

Level 5				
Prerequisite	Credits		Course name	Course Code
	Lab	Theo		
---	0	2	Political System in Islam	IC 104
BMTS 241	1	3	Biomedical Analog Electronics 1	BMTS 351
BMTS 241	1	1	Electrical Measurement	BMTS 352
BMTS 244	1	2	Biomedical Mechanical Equipment 1	BMTS 353
BMTS 243	0	2	Applied Mathematics 2	BMTS 354
---	1	2	Biomedical Digital Electronics 1	BMTS 355
	4	12	Total	
	16			

Level 8				
Prerequisite	Credits		Course name	Course Code
	Lab	Theo		
BMTS 366	1	2	Computer Applications for Medical Systems	BMTS 481
BMTS 472	1	2	Medical Imaging Systems 2	BMTS 482
---	1	2	Optical & Laboratory Medical equipment	BMTS 483
BMTS 471	1	2	Biomedical Electronic Equipment 2	BMTS 484
---	1	2	Elective Course	BMTS 48*
	5	10	Total	
	15			

Level 7				
Prerequisite	Credits		Course name	Course Code
	Lab	Theo		
BMTS 362 BMTS 364	1	2	Biomedical Electronic Equipment 1	BMTS 471
---	1	2	Medical Imaging Systems 1	BMTS 472
---	0	2	Hospital Safety	BMTS 473
BMTS 365	1	1	Medical Equipment Management & Maintenance	BMTS 474
BMTS 362 BMTS 364	1	2	Biomedical Equipment Design	BMTS 475
BMTS 361	1	2	Biomedical Digital Signal Processing	BMTS 476
	5	11	Total	
	16			

Level 9				
Prerequisite	Credits		Course name	Course Code
	Lab	Theo		
BMTS 476	1	2	Biomedical Systems Control	BMTS 491
BMTS 476	1	2	Digital Image Processing	BMTS 492
BMTS 475 BMTS 481 BMTS 482 BMTS 483 BMTS 484	3	0	Graduation Project	BMTS 499
---	1	2	Elective Course 1	BMTS 59*
---	1	2	Elective Course 2	BMTS 59*
	7	8	Total	
	15			

Elective Courses

Elective Courses For Level 9			
Credits		Course name	Course Code
Theo	Theo		
1	2	Digital Equipment design	BMTS 592
1	2	Artificial Intelligence	BMTS 593
1	2	Pattern Recognition	BMTS 594
1	2	Introduction to Telemedicine	BMTS 595
4	8	Total	
12			

Elective Courses For Level 8			
Credits		Course name	Course Code
Lab	Theo		
1	2	Reverse Engineering for Medical Equipment	BMTS 485
1	2	Molecular Sensors & Nano-devices	BMTS 486
2	4	Total	
6			

Then one compulsory calendar year of internship training at affiliated hospitals before the student earns his Bachelor Degree of Applied Medical Sciences in Biomedical Equipment Technology.