Department of Biomedical Engineering & Technology

<u>Curriculum of BS Biomedical Engineering Technology Program</u> <u>2K17 onwards</u>

First Semester							
Code #	Subject	Nature	Theory	Practical	Credit Hours		
BMS-110	Basic Biology (for Pre-Engineering Students)	Natural Science	2*	1*	0*		
BMS-120	Basic Mathematics (for Pre-Medical Students)	Natural Science	3*	0	0.		
BMS-133	Applied Physics	Natural Science	2	1	3		
BMS-143	Applied Chemistry	Natural Science	2	1	3		
BMT-113	Computer Applications	Computing	1	2	3		
BMT-122	Technical Drawing	Foundation	0	2	2		
BMH-152	Functional English	Humanities	2	0	2		

Second Semester						
Code #	Subject	Nature	Theory	Practical	Credit Hours	
BMS-163	Applied Mathematics – I	Natural Science	3	0	3	
BMT-123	Biochemistry	Foundation	2	1	3	
BMT-133	Physiology – I	Foundation	2	1	3	
BMT-143	Human Anatomy	ny Foundation		1	3	
BMT-154	Electrical Technology Fundamentals	Foundation	2	2	4	
BMT-164	Workshop Practice – I	Foundation	0	2	2	

Third Semester						
Code #	Subject	Nature	Theory Practical		Credit Hours	
BMS-213	Applied Mathematics-II	Natural Science	3	0	3	
BMT-213	Biophysics	Foundation	2	1	3	
BMT-223	Circuit Analysis	Foundation	2	1	3	
BMT-233	Physiology – II	ysiology – II Breadth		1	3	
BMH-223	Communication Skills & Technical Report Writing	Humanities	2	1	3	
BMH-232	Pakistan Studies	Humanities	2	0	2	

Fourth Semester						
Code #	de# Subject Nature Theory Practical					
BMT-242	Workshop Practice – II	Foundation	0	2	2	
BMT-254	Basic Electronics	Foundation	2	2	4	
BMT-264	Digital Logic Technology	Breadth	2	2	4	
BMT-274	Biomedical Instrumentation – I	Breadth	2	2	4	
BMT-283	Biomechanics	IDEE	2	1	3	

Fifth Semester						
Code #	ode# Subject N		Theory	Practical	Credit Hours	
BMT-314	Biomedical Electronics	Breadth	2	2 2		
BMT-322	Economics and Healthcare Management	Breadth	2	0	2	
BMT-334	Microprocessors & Microcontrollers	Depth	2	2	4	
BMT-344	Biomedical Instrumentation – II	Depth	2	2	4	
BMM-312 Professional Practices & Media Ethics		Management Sciences	2	0	2	
BMM-322	Entrepreneurship	Management Sciences	2	0	2	

Sixth Semester							
Code #	Subject	Nature	Theory	Practical	Credit Hours		
BMT-353	Telemedicine	Depth	2	1	3		
BMT-364	Medical Imaging	Depth	2	2	4		
BMT-374	Biomedical Control System	Depth	2	2	4		
BMT-384	Rehabilitation Techniques	Depth	2	2	4		
BMH-332	Human Psychology	Humanities	2	0	2		
BMH-342	Islamic Studies/Ethics	Humanities	2	0	2		

Seventh Semester						
Code # Duration Subject Theory Practical Credit Ho						
BMT-411	16 Weeks	Supervised Industrial Training (continued)	0	15	15	
BMT-412	16 Weeks	Technical Project (Continued)	0	3	3	
BMM-413	16 Weeks	Social Entrepreneurship	0	0	0*	

Eighth Semester						
Code #	Duration	Subject	Theory	Practical	Credit Hours	
BMT-411	16 Weeks	Supervised Industrial Training	0	15	15	
BMT-412	16 Weeks	Technical Project	0	3	3	