

B.Eng. (Bioengineering)
Suggested Study Plan for AY13-14 intake
with Industrial Attachment

Year 1 Semester 1

Course	AU
BG1101 Introduction to Biomedical Engineering	2
MH1810 Math 1	3
PH1011 Physics	3
or	
PH1012 *Physics A (For students without A-Level Physics)	4*
BG1103 Chemistry for Engineers	3
BG1131 Molecular Cell Biology for Biomedical Engineers	4
BG1801 Bioengineering Lab 1A	1
HW0110 Effective Communication	2
GER elective 1	3
21/22*	

Year 1 Semester 2

Course	AU
BG1105 Materials Science	3
BG1117 Engineering Mathematics	4
BG1109 Anatomy and Physiology	3
BG1802 Bioengineering Lab 1B	1
GER elective 2	3
Free elective 1	3
17	

Year 2 Semester 1

Course	AU
BG2112 Cardiovascular Engineering	4
BG2131 Biomaterials	3
BG2141 Mechanics of Materials	3
BG2104 Electronics for Biomedical Eng	3
BG2801 Lab 2A	1
HW0210 Technical Communication	2
GER elective 3	3
19	

Year 2 Semester 2

Course	AU
BG2109 Biomechanics	3
BG2111 Computational Methods	4
BG2142 Biological Thermodynamics	3
BG2110 Bioelectricity	3
BG2802 Bioengineering Lab 2B	1
Free elective 2	3
GER elective 4	3
20	

Year 3 Semester 1

Course	AU
BG3102 Control in Biosystems	3
BG3103 Signal Processing in Biosystems	3
BG3104 Biomedical Imaging	3
BG3105 Biomedical Instrumentation	3
BG3801 Bioengineering Lab 3	1
GER elective 5	3
Free elective 3	3
19	

Year 3 Semester 2

Course	AU
BG3720 Industrial Attachment	8
8	

Year 4 Semester 1

Course	AU
BG4101 Biomedical Project Design & Management	4
BG4801 Final Year Project	4
BG4903 Environmental Sustainability	3
HW0310 Professional Communication	2
BIE PE 1	3
Free Elective 4	2
18	

Year 4 Semester 2

Course	AU
BG4801 Final Year Project	4
BG4102 Medical Device Design	3
BG4911 Engineers & Society	3
BIE PE 2	3
BIE PE 3	3
16	

**Total (AU) 138/
139***