

Technical Elective Modules – Cohort 2020/2021 Onwards

1. TE modules offered by BME. Students are encouraged to take TEs from this list.

Module code and title	Modular credits
BN2001 Independent Study	4
BN2105 Medical Device Life Cycle Management	4
BN3202 Musculoskeletal Biomechanics	4
BN3402 Bio-Analytics for Engineers	4
BN3301 Introduction to Biomaterials	4
BN4102 Gerontechnology in Ageing	4
BN4103 Assistive Technology for Persons with Disability	4
BN4109 Special Topics in Bioengineering	4
BN4202 Biofluids Dynamics	4
BN4203 Robotics in Rehabilitation	4
BN4301 Principles of Tissue Engineering	4
BN4302 Organs in a Dish: Organoid Bioengineering	4
BN4303 Tissue Engineering for Designing Food	4
BN4304 Engineering Strategies for Gene and Cell Manufacturing	4
BN4402 Electrophysiology	4
BN4403 Cellular Bioengineering	4
BN4404 Bioelectromechanical Systems - Biomems	4
BN4406 Biophotonics and Bioimaging	4
BN4501 Engineering Biology	4
BN4206 Computational Methods in Biomedical Engineering	4
BN4701 Serious Games for Health	4
BN5104 Quantitative Physiology Principles in Bioengineering	4
BN5201 Advanced Biomaterials	4
BN5203 Advanced Tissue Engineering	4
BN5207 Medical Imaging Systems	4
BN5208 Biomedical Quality and Regulatory Systems	4
BN5209 Neurosensors and Signal Processing	4
BN5210 Biosensors & Biochips	4
EE4603 Biomedical Imaging Systems	4
LSM2233 Cell Biology	4
MB5105 Microfabrication for Biologists	2
ME4242 Soft Robotics	4
ME4253 Biomaterials Engineering	4
PC2267 Biophysics I	4
PC3267 Biophysics II	4
PC4267 Biophysics III	4
IE4240 Project Management	4
ME2162 Manufacturing Processes	4
MT2001 Experiencing Engineering Leadership	4
MT3001 Systems Thinking and Engineering	4
MT5001 IP Management	4
MT5003 Creativity and Innovation	4
MT5006 Strategic and New Product Development	4
MT5007 Management of Technological Innovation	4

