

Bachelor of Medical Science and Technology (MST)

No.	Module code	Module title in English	ECTS
I	Core modules		
1.1	Core general training modules		
1	MAT1.001	Calculus 1	4
2	MST1.001	Medical Microbiology	3
3	PHY1.001	Fundamental physics 1	4
4	PHY1.002	Fundamental physics 2	4
5	CHE1.001	General chemistry 1	4
6	CHE1.002	General chemistry 2	4
7	CHE1.003	Organic chemistry	4
8	BIO1.001	Cellular biology	4
9	BIO1.002	Genetics	3
10	BIO1.003	Biochemistry	3
11	BIT2.007	Organic Chemistry 2	3
12	MST1.002	Programming language and data for biomedical sciences	4
1.2	Core specialized modules		
1	MST2.002	Advanced Cell Biology	3
2	MST2.001	Human Anatomy and Physiology	4
3	MST2.003	Histology and Cytology	3
4	MST2.004	Human Pathophysiology	3
5	MST3.032	Human Pathology	3
6	BIT2.002	Biochemistry 2	4
7	MST2.037	Hematology	3
8	BIT2.008	Principles of Immunology	4
9	BIT2.011	Introduction to Animal Cell Biotechnology	3
10	MST3.001	Biomedical materials	2
11	BIT3.005	Introduction to Stem Cell	3
12	MST3.002	Tissue Engineering	3
13	MST3.035	Ethics in biomedical research	2
14	MST2.036	Bioinformatics, Artificial Intelligence and machine learning in medicine	4

15	MST3.003	Biomedical nanotechnology	3
16	MST3.033	Pharmacology and Toxicology	3
17	MST3.022	Diagnostic imaging	3
18	MST3.004	Biosensors and applications	3
19	MST3.026	Internship	15
1.3	Core supplementary modules		
1	FR2.001	French 2.1	4
2	FR2.002	French 2.2	4
3	MS1.003	Fundamentals of the International Law and System Law of Viet Nam	2
II	Optional module group 1		
1	PHI1.001	Philosophy	3
2.1	Optional modules for Biomedical Sciences direction		
1	MST2.006	Medical Bacteriology	3
2	MST2.005	Medical Mycology and Parasitology	3
3	MST2.007	Medical Virology	3
4	BIT2.003	Bioanalytical Chemistry	3
5	BIT2.001	Molecular Biology	4
6	BIT2.004	Biostatistics	3
7	MST2.035	Clinical data analysis	3
8	MST3.009	Molecular markers for diagnosis	3
9	BIT3.006	Introduction to Medical Biotechnology	3
10	BIT3.007	Protein Engineering	3
11	MST2.021	Human Genetics and Diseases	3
12	MST3.010	Omics and Computational Biology	3
17	BIT3.013	Introduction to Neurosciences	2
14	MST3.012	Molecular medicine	3
15	MST3.008	Cancer biology and diagnostics	4
16	MST3.031	Clinical Biochemistry	3
2.2	Optional modules for Biomedical Engineering direction		
1	MST2.014	Electronics	3
2	MST2.015	Digital Electronics	3
3	MST2.011	Signals and Systems	3
4	MST2.013	Medical Physics	3

5	MST2.016	Biomedical signals and Electronic circuits	4
6	MST2.017	Physiological Signal Processing	3
7	MST2.038	Practical Biomedical Engineering	3
8	MST3.014	Medical Instrumentations	4
9	MST2.018	Introduction to Medical Images	3
10	MST2.019	Medical Image processing	3
11	MST3.039	Biological Perception and Computational vision	3
12	MST3.030	Deep Learning in Medicine	3
13	MST3.021	Biomechanics	3
14	MST3.018	Biomedical signal processing and modellings	3
15	MST3.020	Medical Robotics and Rehabilitation	3
16	MST3.040	BioMEMS	3
17	MST3.013	Microprocessor system	3
18	MST3.037	Biomedical Optics	3
III	Optional module group 2		
IV	Conditional modules (for Vietnamese students only)		
1	QP1.001	National defense and security education	0