

Medical Biotechnology MSc 2012

Moduls/course (min.-max. credits)	Hrs/wk L/S/P	L	S-P	Semesters and credits				Examination	Co-ordinators
	Total credits	Credit	Credit	I	II	III	IV		
A. CORE MATERIAL									
<b>A.1. Foundation modul (25-40)</b>									
<b>Basic science courses (20-30)</b>									
Biochemistry	4	2	2	4				Examination + progress grade	Balázs Sümegi
Introduction to molecular and cell biology	4	1	3	4				Examination + progress grade	József Szeberényi
Human Physiology	4	2	2	4				Examination + progress grade	László Lénárd
Genetics	4	2	2	4				Examination + progress grade	Béla Meleg
Biophysics	4	2	2	4				Examination + progress grade	Miklós Nyitrai
Informatics	4	1	3	4				Examination + progress grade	Gábor Pauler
<b>Basic economics and ethics courses (5-15)</b>									
Introduction to Economics	2	1	1	2				Examination	Attila Varga
Management	2	1	1	2				Examination	Ákos Jarjabka
Business law	1	1		1				Examination	Tibor Nochta
Ethics in Biotechnology	1	1		1				Examination	János Kállai
<b>Foundation modul</b>	<b>30</b>	<b>14</b>	<b>16</b>						





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<b>Elective courses</b>									
Biotechnological methods in forensic medicine	3	1	2			3		Examination + progress grade	Katalin Sipos
Application of biomarkers in public health	3	1	2			3		Examination + progress grade	Zoltán Gyöngyi
Application of high throughput screening methods and biorobotics in biotechnology	3	1	2			3		Examination + progress grade	Péter Németh
Antibody and vaccine production in plants	4	2	2			2	2	Examination +progress grade	Gábor Jakab
Neurobiology	4	2	2			2	2	Examination + progress grade	Róbert Gábrriel
Enzyme biotechnology	2	2				2		Examination	Tímea Berki
Laboratory diagnostics	2	2					2	Examination	Attila Miseta
Introduction to Gerontology	2	2				2		Examination	Miklós Székely
Molecular gerontology	2	1	1			2		Examination	Judit Pongrácz
Protein expression systems in laboratory and industry	3	1	2			1	2	Examination + progress grade	Péter Németh
Basics and application of fluorescence microscopy	2	1	1			2		Examination + progress grade	Gábor Hild
Modern biophysical research methods	2	1	1			2		Examination + progress grade	Gábor Hild
Nanobiotechnology	3	1	2			1	2	Examination +progress grade	László Grama
The cytoskeletal system	1	1				1		Examination	Miklós Nyitrai
Applied virology	2	1	1			1	1	Examination +progress grade	Ferenc Jakab
Immunopathology 1	2	2				2		Examination	Péter Németh
Immunopathology 2	2	2					2	Examination	Júlia Szekeres-Barthó
Basic principles of electron microscopy in clinical practice and biological research	2	1	1					Examination +progress grade	László Seress
Capillary electrophoresis	2	1	1			1	1	Examination + progress grade	Ferenc Kilár
Statistical analysis	3	1	2			1	2	Examination + progress grade	László Pótó

