Course Tables

Table 1 - Compensatory courses for Biophysics in Master's Degree

	Course Title	Number of units			Tot	al Ho	urs	Prerequisite
Index		Theoretical	Practical	Total	Theoretical	Practical	Total	
1	Modern physics	4	0	4	64	0	64	
2	Cellular and molecular biology	2	0	2	32	0	32	
3	Basic Biochemistry Physics	4	0	4	64	0	64	
4	Physical chemistry	2	0	2	32	0	32	
5	General Mathematics 1	3	0	3	48	0	48	
6	General Mathematics 2	3	0	3	48	0	48	
7	General Physics 1	3	0	3	48	0	48	
8	General Physics 2	3	0	3	48	0	48	
9	General Chemistry 1	3	0	3	48	0	48	
10	General Chemistry 2	3	0	3	48	0	48	
	TOTAL	30	0	30	480	0	480	

Students may choose, if necessary (with the opinion of the manager or supervisor), a maximum of 12 units from the courses listed in the table above.

Table 2 - Compensatory courses for Biophysics in Ph.D. Degree

Course Title			Number of units			al Ho	urs	Prerequisite
Index		Theoretical	Practical	Total	Theoretical	Practical	Total	
1	Modern physics	4	0	4	64	0	64	
2	Basic Biochemistry Physics	4	0	4	64	0	64	
	TOTAL	8	0	8	128	0	128	

Students may choose, if necessary (with the opinion of the manager or supervisor), a maximum of 6 units from the courses listed in the table above.

Table 3. Specialized courses for Biophysics in Master's Degree

	Course Title	Number of units			Tot	tal Ho	urs	Prerequisite
Index		Theoretical	Practical	Total	Theoretical	Practical	Total	
1	Biophysical Chemistry	2	0	2	32	0	32	
2	Radiation Biophysics	2	0	2	32	0	32	
3	Membrane Biophysics	2	0	2	32	0	32	
4	Molecular Biophysics	2	0	2	32	0	32	
5	Methods of Biophysics	2	0	2	32	0	32	
6	Enzymes Kinetics	2	0	2	32	0	32	
7	Seminar I	1	0	1	16	0	16	
8	Seminar II	1	0	1	16	0	16	
	TOTAL	14	0	14	224	0	224	

Table 4. Specialized-Optional courses for Biophysics in Ph.D. Degree

	Course Title	Nu	Number of units		Tot	tal Ho	urs	Prerequisite
Index		Theoretical	Practical	Total	Theoretical	Practical	Total	
1	Biophysical Chemistry	2	0	2	32	0	32	
2	Radiation Biophysics	2	0	2	32	0	32	
3	Membrane Biophysics	2	0	2	32	0	32	
4	Molecular Biophysics	2	0	2	32	0	32	
5	Methods of Biophysics	2	0	2	32	0	32	
6	Enzymes Kinetics	2	0	2	32	0	32	
7	Glycolipobiology	2	0	2	32	0	32	
8	Advanced Biochemistry of	2	0	2	32	0	32	
	Proteins and Nucleic acids							
9	Mechanism of enzyme action	2	0	2	32	0	32	
10	Advanced Bioinformatics	2	1	3	32	32	64	
11	Algorithms in Bioinformatics	3	0	3	48	0	48	
12	Biological Databases	2	1	3	32	32	64	
13	Seminar I	1	0	1	16	0	16	
14	Seminar II	1	0	1	16	0	16	
TOTAL		27	2	29	432	64	496	

Table 4. Specialized-Optional courses for Biophysics in Master's & Ph.D. Degree

	Course Title	Number of units			Tota	al Hou	Prerequisite	
Index		Theoretical	Practical	Total	Theoretical	Practical	Total	
1	Cellular Biophysics	2	0	2	32	0	32	
2	Biosensors	2	0	2	32	0	32	
3	Mathematical Models in Biological Issues	2	0	2	32	0	32	
4	Methods and Research Logic	2	0	2	32	0	32	
5	Biothermodynamics	2	0	2	32	0	32	
6	Physical Chemistry of Proteins	2	0	2	32	0	32	
7	Topics in Biophysics	2	0	2	32	0	32	
8	Biospectroscopy	2	0	2	32	0	32	
9	Ligand Protein Interaction	2	0	2	32	0	32	
10	Pharmaceutical Biophysics	2	0	2	32	0	32	
11	Bio-electromagnetics	2	0	2	32	0	32	
12	Biophysics and Tissue Engineering	2	0	2	32	0	32	
13	Environmental Biophysics	2	0	2	32	0	32	
14	Topics in radiation Biology	2	0	2	32	0	32	Radiation Biophysics
15	Computational Biophysics	2	0	2	32	0	32	
16	Topics in the Philosophy of Biology	2	0	2	32	0	32	
17	X-Ray scattering from Biological Macromolecule	2	0	2	32	0	32	
18	Bioelectrochemistry of proteins and nucleic acids	2	0	2	32	0	32	
19	Biophysics of ion channels	2	0	2	32	0	32	
20	Enzymology	2	0	2	32	0	32	
21	Advanced Molecular Biology	2	0	2	32	0	32	
22	Bioinformatics	2	0	2	32	0	32	
23	Molecular Modeling	2	0	2	32	0	32	
24	Modeling of Biological Systems	2	0	2	32	0	32	
	TOTAL	48	0	48	768	0	768	

- MSc student is allowed to select 8 units from the table above.
- Ph.D. student is allowed to select 14 units as a total of courses in Tables 4 and 5, and endorsed by their supervisor.