

# Study plan

## Name of study plan: Biomedical Laboratory Methods

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Biomedical Laboratory Methods

Type of study: Follow-up master full-time

Required credits: 120

Elective courses credits: 0

Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses

Minimal number of credits of the block: 106

The role of the block: Z

Code of the group: F7PML POV 24

Name of the group: Biomedical Laboratory Methods compulsory course

Requirement credits in the group: In this group you have to gain 106 credits

Requirement courses in the group: In this group you have to complete 24 courses

Credits in the group: 106

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
F7PMLAS	<b>Applied Statistics</b>	Z,ZK	4	2P+2C	L	z
17BOZP	<b>Occupational Safety and Health, Fire Protection and First Aid</b> <i>Petr Kudrna Petr Kudrna Petr Kudrna (Gar.)</i>	Z	0	1P	Z	z
F7PMLBCH	<b>Biochemistry</b>	Z,ZK	6	2P+2L	Z	z
F7PMLBAS	<b>Biomedical Applications of Light</b>	Z,ZK	4	2P+1L	L	z
F7PMLDP1	<b>Diploma Project I</b>	Z	4	0P+3L	Z	z
F7PMLDP2	<b>Diploma Project II</b>	Z	4	0P+4L	L	z
F7PMLDP3	<b>Diploma Project III</b>	Z	4	0P+7L	Z	z
F7PMLDP4	<b>Diploma Project IV</b>	Z	10	0P+12L	L	z
F7PMLFG	<b>Forensic Genetics</b>	Z,ZK	6	2P+2L	Z	z
F7PMLFSW	<b>Fundamentals of Scientific Work</b>	Z	4	0P+1S	L	z
F7PMLILP1	<b>Individual Laboratory Practice I</b>	Z	4	80XH	L	z
F7PMLILP2	<b>Individual Laboratory Practice II</b>	Z	4	80XH	Z	z
F7PMLIMB1	<b>Instrumental Methods in Biomedicine I</b>	Z,ZK	5	2P+2L	Z	z
F7PMLIMB2	<b>Instrumental Methods in Biomedicine II</b>	ZK	5	3P+0C	L	z
F7PMLMFLP	<b>Mathematics and Physics for Laboratory Practice</b>	Z,ZK	6	2P+2C	Z	z
F7PMLMMM	<b>Molecular Medicine Methods</b>	Z,ZK	5	2P+2L	L	z
F7PMLMBG	<b>Molecular Biology and Genetics</b>	Z,ZK	5	2P+2L	Z	z
F7PMLNTB	<b>Nanotechnology in Biomedicine</b>	Z,ZK	5	2P+1L	Z	z
F7PMLPIM	<b>Practical Training in Instrumental Methods</b>	Z	2	0P+3L	L	z
F7PMLPFCE	<b>Preparation for the FCE Exam</b>	Z	2	0P+2C	L	z
F7PMLS DP	<b>Diploma Thesis Seminar</b>	Z	2	0P+1S	Z	z
F7PMLSVV	<b>Statistics and Results Evaluation</b>	Z,ZK	4	2P+2C	Z	z
F7PMLZBTI	<b>Fundamentals of Cellular and Tissue Engineering</b>	Z,ZK	5	1P+2L	Z	z
F7PMLZDP	<b>Diploma Thesis Preparation</b>	Z	6	160XH	L	z

**Characteristics of the courses of this group of Study Plan: Code=F7PML POV 24 Name=Biomedical Laboratory Methods compulsory course**

F7PMLAS	Applied Statistics	Z,ZK	4
17BOZP	Occupational Safety and Health, Fire Protection and First Aid	Z	0
F7PMLBCH	Biochemistry	Z,ZK	6
F7PMLBAS	Biomedical Applications of Light	Z,ZK	4
F7PMLDP1	Diploma Project I	Z	4
F7PMLDP2	Diploma Project II	Z	4
F7PMLDP3	Diploma Project III	Z	4
F7PMLDP4	Diploma Project IV	Z	10
F7PMLFG	Forensic Genetics	Z,ZK	6
F7PMLFSW	Fundamentals of Scientific Work	Z	4
F7PMLILP1	Individual Laboratory Practice I	Z	4
F7PMLILP2	Individual Laboratory Practice II	Z	4
F7PMLIMB1	Instrumental Methods in Biomedicine I	Z,ZK	5
F7PMLIMB2	Instrumental Methods in Biomedicine II	ZK	5
F7PMLMFLP	Mathematics and Physics for Laboratory Practice	Z,ZK	6
F7PMLMMM	Molecular Medicine Methods	Z,ZK	5
Hlavním cílem p edm tu je prohloubit znalosti student o nové technologické p ístupy ve zpracovávání a analýze nukleových kyselin. Vysv tlení poj m personalizovaná i molekulární medicína otevírá student m zcela nové obzory ve zpracování a interpretaci genetických dat v b žné biomedicínské praxi.			
F7PMLMBG	Molecular Biology and Genetics	Z,ZK	5
F7PMLNTB	Nanotechnology in Biomedicine	Z,ZK	5
F7PMLPIM	Practical Training in Instrumental Methods	Z	2
F7PMLPFCE	Preparation for the FCE Exam	Z	2
F7PMLSDP	Diploma Thesis Seminar	Z	2
F7PMLSVV	Statistics and Results Evaluation	Z,ZK	4
F7PMLZBTI	Fundamentals of Cellular and Tissue Engineering	Z,ZK	5
F7PMLZDP	Diploma Thesis Preparation	Z	6

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 14

The role of the block: S

Code of the group: F7PML PV 3S 24

Name of the group: Biomedical Laboratory Methods compulsory optional course

Requirement credits in the group: In this group you have to gain at least 4 credits (at most 8)

Requirement courses in the group: In this group you have to complete at least 1 course ( at most 2)

Credits in the group: 4

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
F7PMLGKB	Glycoconjugates in Biomedicine	ZK	4	2P+0C	Z	s
F7PMLPSMB	Advanced Spectroscopic Methods in Biomedicine	ZK	4	2P+0C	Z	s

**Characteristics of the courses of this group of Study Plan: Code=F7PML PV 3S 24 Name=Biomedical Laboratory Methods compulsory optional course**

F7PMLGKB	Glycoconjugates in Biomedicine	ZK	4
F7PMLPSMB	Advanced Spectroscopic Methods in Biomedicine	ZK	4

Code of the group: F7PML PV 4S 24

Name of the group: Biomedical Laboratory Methods compulsory optional course

Requirement credits in the group: In this group you have to gain at least 10 credits (at most 20)

Requirement courses in the group: In this group you have to complete at least 2 courses ( at most 4)

Credits in the group: 10

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
F7PMLBIOMA	Biomaterials and Biomaterial Characterization	Z,ZK	5	2P+1L	L	s
F7PMLBIOR	Biointerface	Z,ZK	5	2P+1L	L	s
F7PMLCPSP	Clean Rooms and Proper Practices for Modern Pharmaceutical Preparations <i>Martin Mayer Martin Mayer (Gar.)</i>	Z,ZK	5	2P+1L	L	s
F7PMLIMUNH	Imunohematologie	Z,ZK	5	1P+2L	L	s

Characteristics of the courses of this group of Study Plan: Code=F7PML PV 4S 24 Name=Biomedical Laboratory Methods compulsory optional course

F7PMLBIOMA	Biomaterials and Biomaterial Characterization	Z,ZK	5
F7PMLBIOR	Biointerface	Z,ZK	5
F7PMLCPSP	Clean Rooms and Proper Practices for Modern Pharmaceutical Preparations	Z,ZK	5
F7PMLIMUNH	Imunohematologie	Z,ZK	5

### List of courses of this pass:

Code	Name of the course	Completion	Credits
17BOZP	Occupational Safety and Health, Fire Protection and First Aid	Z	0
F7PMLAS	Applied Statistics	Z,ZK	4
F7PMLBAS	Biomedical Applications of Light	Z,ZK	4
F7PMLBCH	Biochemistry	Z,ZK	6
F7PMLBIOMA	Biomaterials and Biomaterial Characterization	Z,ZK	5
F7PMLBIOR	Biointerface	Z,ZK	5
F7PMLCPSP	Clean Rooms and Proper Practices for Modern Pharmaceutical Preparations	Z,ZK	5
F7PMLDP1	Diploma Project I	Z	4
F7PMLDP2	Diploma Project II	Z	4
F7PMLDP3	Diploma Project III	Z	4
F7PMLDP4	Diploma Project IV	Z	10
F7PMLFG	Forensic Genetics	Z,ZK	6
F7PMLFSW	Fundamentals of Scientific Work	Z	4
F7PMLGKB	Glycoconjugates in Biomedicine	ZK	4
F7PMLILP1	Individual Laboratory Practice I	Z	4
F7PMLILP2	Individual Laboratory Practice II	Z	4
F7PMLIMB1	Instrumental Methods in Biomedicine I	Z,ZK	5
F7PMLIMB2	Instrumental Methods in Biomedicine II	ZK	5
F7PMLIMUNH	Imunohematologie	Z,ZK	5
F7PMLMBG	Molecular Biology and Genetics	Z,ZK	5
F7PMLMFLP	Mathematics and Physics for Laboratory Practice	Z,ZK	6
F7PMLMMM	Molecular Medicine Methods	Z,ZK	5
Hlavním cílem p edm tu je prohloubit znalosti student o nové technologické p ístupy ve zpracovávání a analýze nukleových kyselin. Vysv tlení pojm personalizovaná i molekulární medicína otevírá student m zcela nové obzory ve zpracování a interpretaci genetických dat v b žné biomedicínské praxi.			
F7PMLNTB	Nanotechnology in Biomedicine	Z,ZK	5
F7PMLPFCE	Preparation for the FCE Exam	Z	2
F7PMLPIM	Practical Training in Instrumental Methods	Z	2
F7PMLPSMB	Advanced Spectroscopic Methods in Biomedicine	ZK	4
F7PMLSDP	Diploma Thesis Seminar	Z	2
F7PMLSVV	Statistics and Results Evaluation	Z,ZK	4
F7PMLZBTI	Fundamentals of Cellular and Tissue Engineering	Z,ZK	5
F7PMLZDP	Diploma Thesis Preparation	Z	6

For updated information see <http://bilakniha.cvut.cz/en/FF.html>

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