

## [en]Odporúčaný študijný plán

FIPM\_Bc\_D - Physical Engineering of Advanced Materials

Academic year      **2016/2017**  
 Form of study        **Full time**  
 Study grade         **Bachelor**  
 Study programme    **3940799D - FIPM\_Bc\_D Physical Engineering of Advanced Materials**

	<b>C</b>	<b>OE</b>	<b>V</b>	<b>Together</b>
1st year WT	6/31/26	0/0/0	1/0/2	7/31/28
1st year ST	6/31/28	0/0/0	2/2/4	8/33/32
2nd year WT	3/18/15	3/18/15	1/0/2	7/36/32
2nd year ST	3/18/12	3/18/14	1/4/2	7/40/28
3rd year WT	3/18/18	3/18/11	0/0/0	6/36/29
3rd year ST	2/18/14	4/24/19	0/0/0	6/42/33
Courses	23	13	5	41
Credits	134	78	6	218

### 1.year of study WT

Code	Course	Type	Number of credits	Completion	Hours grant								
					P	S	CN	CL	PP	A	S	E	OP
26000420	Seminary ih Physics 1.	V	0	Klasifikovaný zápočet (KZ)	-	2	-	-	-	-	-	-	-
26000629	Fundamentals of Algorithms and Programming	C	6	Zápočet a skúška (ZS)	3	-	-	2	-	-	-	-	-
2607333	Fundamentals of Electrical Engineering	C	6	Klasifikovaný zápočet (KZ)	2	-	2	-	-	-	-	-	-

### 1.year of study WT

Code	Course	Type	Number of credits	Completion	Hours grant								
					P	S	CN	CL	PP	A	S	E	OP
26000618	Fundamentals of Materials Engineering	C	6	Zápočet a skúška (ZS)	2	1	-	1	-	-	-	-	-
2618181	Mathematics I	C	6	Zápočet a skúška (ZS)	3	2	2	-	-	-	-	-	-
29000139	Physical Education I	C	1	Zápočet (Z-U)	-	-	-	2	-	-	-	-	-
2600171	Physics I	C	6	Zápočet a skúška (ZS)	2	-	2	-	-	-	-	-	-

In period from 1st year WT to 1st year WT is necessary to sign on 6 courses.

In period from 1st year WT to 1st year WT is necessary to sign on 6 C courses, 0 OE courses, 0 V courses.

In period from 1st year WT to 1st year WT for enrollment to the next period is necessary to pass successfully courses for 18 credits.

### 1.year of study ST

Code	Course	Type	Number of credits	Completion	Hours grant								
					P	S	CN	CL	PP	A	S	E	OP
29000186	FEI – General Foreign Language Preparatory Course I	V	0	Zápočet (Z-%)	-	2	-	-	-	-	-	-	-
29000155	<i>FEI – Preparatory English Language Course I</i>		0	<i>alternative</i>									
29000159	<i>FEI – Preparatory English Language Course II</i>		0	<i>alternative</i>									
29000157	<i>FEI – Preparatory French Language Course I</i>		0	<i>alternative</i>									
29000156	<i>FEI – Preparatory German Language Course I</i>		0	<i>alternative</i>									
29000158	<i>FEI – Preparatory Russian Language Course I</i>		0	<i>alternative</i>									
26000421	Seminary in Physics 2.	V	2	Klasifikovaný zápočet (KZ)	-	2	-	-	-	-	-	-	-
2618641	Electrotechnics	C	6	Zápočet a skúška (ZS)	3	3	-	-	-	-	-	-	-
2209391	Fundamentals of Materials Chemistry	C	6	Zápočet a skúška (ZS)	3	-	1	1	-	-	-	-	-

## 1.year of study ST

Code	Course	Type	Number of credits	Completion	Hours grant								
					P	S	CN	CL	PP	A	S	E	OP
2619621	Mathematics II	C	6	Zápočet a skúška (ZS)	3	-	3	-	-	-	-	-	-
29000140	Physical Education II	C	1	Zápočet (Z-U)	-	-	-	2	-	-	-	-	-
2607481	Physics II	C	6	Zápočet a skúška (ZS)	3	-	-	2	-	-	-	-	-
2607391	Programming	C	6	Zápočet a skúška (ZS)	2	-	-	2	-	-	-	-	-

In period from 1st year ST to 1st year ST for enrollment to the next period is necessary to pass successfully courses for 18 credits.

In period from 1st year WT to 1st year ST for enrollment to the next period is necessary to pass successfully courses for 36 credits.

In period from 1st year ST to 1st year ST is necessary to sign on 6 courses.

In period from 1st year ST to 1st year ST is necessary to sign on 6 C courses, 0 OE courses, 0 V courses.

## 2.year of study WT

Code	Course	Type	Number of credits	Completion	Hours grant								
					P	S	CN	CL	PP	A	S	E	OP
29000193	FEI – Foreign Language Conversation for Advanced Learners I	V	0	Zápočet a skúška (ZS)	-	2	-	-	-	-	-	-	-
29000178	<i>FEI – English Conversation for Advanced Learners I</i>		0	<i>alternative</i>									
29000180	<i>FEI – French Conversation for Advanced Learners I</i>		0	<i>alternative</i>									
29000179	<i>FEI – German Conversation for Advanced Learners I</i>		0	<i>alternative</i>									
29000181	<i>FEI – Russian Conversation for Advanced Learners I</i>		0	<i>alternative</i>									
2617771	Computer-Aided Mathematical Simulation	OE	6	Zápočet a skúška (ZS)	2	1	2	-	-	-	-	-	-
26000442	Introduction to Quantum Mechanics	C	6	Zápočet a skúška (ZS)	2	-	3	-	-	-	-	-	-
26000726	Mathematical methods for engineers	OE	6	Zápočet a skúška (ZS)	2	-	3	-	-	-	-	-	-

## 2.year of study WT

Code	Course	Type	Number of credits	Completion	Hours grant								
					P	S	CN	CL	PP	A	S	E	OP
2619661	Numerical Mathematics, Probability Theory and Mathematical Statistics	C	6	Zápočet a skúška (ZS)	3	-	2	-	-	-	-	-	-
26000723	Physical measurement	C	6	Zápočet a skúška (ZS)	2	-	-	3	-	-	-	-	-
26000724	Selected Topics in Physics	OE	6	Zápočet a skúška (ZS)	2	-	3	-	-	-	-	-	-

In period from 2nd year WT to 2nd year WT for enrollment to the next period is necessary to pass successfully courses for 18 credits.

In period from 2nd year WT to 2nd year WT is necessary to sign on 5 courses.

In period from 2nd year WT to 2nd year WT is necessary to sign on 3 C courses, 2 OE courses, 0 V courses.

## 2.year of study ST

Code	Course	Type	Number of credits	Completion	Hours grant								
					P	S	CN	CL	PP	A	S	E	OP
29000194	FEI – Foreign Language Conversation for Advanced Learners II	V	4	Zápočet a skúška (ZS)	-	2	-	-	-	-	-	-	-
29000193	<i>FEI-konverzácia pre pokročilých I.-cudzí jazyk</i>		0	<i>prerequisite</i>									
29000182	<i>FEI – English Conversation for Advanced Learners II</i>		4	<i>alternative</i>									
29000184	<i>FEI – French Conversation for Advanced Learners II</i>		4	<i>alternative</i>									
29000183	<i>FEI – German Conversation for Advanced Learners II</i>		4	<i>alternative</i>									
29000185	<i>FEI – Russian Conversation for Advanced Learners II</i>		4	<i>alternative</i>									
26000085	Applications of Differential Equations	OE	6	Zápočet a skúška (ZS)	2	-	2	-	-	-	-	-	-
26000632	Basic of Electronics	OE	6	Zápočet a skúška (ZS)	2	-	2	1	-	-	-	-	-
29000195	FEI – English I	C	6	Zápočet a skúška (ZS)	-	2	-	-	-	-	-	-	-
26000659	Measurement in electronics and telecommunications	OE	6	Zápočet a skúška (ZS)	2	-	-	3	-	-	-	-	-

## 2.year of study ST

Code	Course	Type	Number of credits	Completion	Hours grant									
					P	S	CN	CL	PP	A	S	E	OP	
2618721	Structure and Properties of Materials	C	6	Zápočet a skúška (ZS)	3	-	2	-	-	-	-	-	-	-
26000441	Thermodynamics and Statistical Physics	C	6	Zápočet a skúška (ZS)	2	-	3	-	-	-	-	-	-	-

In period from 2nd year WT to 2nd year ST for enrollment to the next period is necessary to pass successfully courses for 36 credits.

In period from 2nd year ST to 2nd year ST for enrollment to the next period is necessary to pass successfully courses for 18 credits.

In period from 2nd year ST to 2nd year ST is necessary to sign on 5 courses.

In period from 2nd year ST to 2nd year ST is necessary to sign on 3 C courses, 2 OE courses, 0 V courses.

## 3.year of study WT

Code	Course	Type	Number of credits	Completion	Hours grant									
					P	S	CN	CL	PP	A	S	E	OP	
26000727	Bachelor Project	C	6	Klasifikovaný zápočet (KZ)	-	2	-	-	6	-	-	-	-	-
2618781	Basic Physics of Magnetic Materials	OE	6	Zápočet a skúška (ZS)	2	-	1	1	-	-	-	-	-	-
26000631	Digital Electronics	OE	6	Zápočet a skúška (ZS)	2	2	-	-	-	-	-	-	-	-
2619901	Experimental Methods for Materials Study	C	6	Zápočet a skúška (ZS)	3	-	-	3	-	-	-	-	-	-
22000328	Macromolecular Chemistry	OE	6	Zápočet a skúška (ZS)	2	1	-	-	-	-	-	-	-	-
2610441	Solid State Physics	C	6	Zápočet a skúška (ZS)	2	-	2	-	-	-	-	-	-	-

In period from 3rd year WT to 3rd year WT is necessary to sign on 5 courses.

In period from 3rd year WT to 3rd year WT is necessary to sign on 3 C courses, 2 OE courses, 0 V courses.

In period from 3rd year WT to 3rd year WT for enrollment to the next period is necessary to pass successfully courses for 18 credits.

### 3.year of study ST

Code	Course	Type	Number of credits	Completion	Hours grant									
					P	S	CN	CL	PP	A	S	E	OP	
2618821	Computer Physics	OE	6	Zápočet a skúška (ZS)	2	-	3	-	1	-	-	-	-	-
2205291	Materials Structure Characterisation	OE	6	Zápočet a skúška (ZS)	3	-	-	2	-	-	-	-	-	-
26000729	Professional experience	OE	6	Klasifikovaný zápočet (KZ)	-	-	-	-	-	-	-	-	-	6
2618831	Progressive Materials	OE	6	Skúška (Sk)	2	-	-	-	-	-	-	-	-	-
29000196	Social Sciences	C	6	Klasifikovaný zápočet (KZ)	-	2	-	-	-	-	-	-	-	-
29000203	<i>Aesthetics</i>		6	<i>alternative</i>										
29000202	<i>Ethics</i>		6	<i>alternative</i>										
29000200	<i>Philosophy</i>		6	<i>alternative</i>										
29000199	<i>Political Science</i>		6	<i>alternative</i>										
29000197	<i>Psychology</i>		6	<i>alternative</i>										
29000198	<i>Sociology</i>		6	<i>alternative</i>										

In period from 3rd year ST to 3rd year ST is necessary to sign on 4 courses.

In period from 3rd year ST to 3rd year ST is necessary to sign on 2 C courses, 2 OE courses, 0 V courses.

In period from 3rd year WT to 3rd year ST for enrollment to the next period is necessary to pass successfully courses for 36 credits.

In period from 1st year WT to 3rd year ST for study completion is necessary to pass successfully courses for 180 credits.

### State examination courses

#	Code	Course	Completion	Type	Faculty
1	26000728	Bachelor thesis	Štátna skúška - Obhajoba ZP pre 1. a 2. stupeň	C	FEI
	26000727	<i>Bachelor Project</i>	<i>prerequisite</i>		

## State examination courses

#	Code	Course	Completion	Type	Faculty
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Explanatory:

[en]Typ predmetu:

C - compulsory courses, OE - obligatory elective courses, V - voluntary courses

Hours grant

P - Prednáška, S - Seminár, CN - Cvičenie numerické, CL - Cvičenie laboratórne, PP - Projektová práca, A - Ateliér, S - Stáž, E - Exkurzia, OP - Odborná prax

Course completion

Zápočet (Z-U) - Zápočet, Zápočet a skúška (ZS) - Zápočet a skúška, Klasifikovaný zápočet (KZ) - Klasifikovaný zápočet, Klasifikovaný zápočet (ZP-KZ) - Klasifikovaný zápočet, Zápočet (Z-%) - Zápočet, Skúška (Sk) - Skúška

Alternative courses in italics are shown. passing an alternative course equals to passing an original course.

Prerequisite courses in italics are shown. before the courses with a prerequisite you must successfully complete the prescribed prerequisites.

Summary table

X/Y/Z - X(total courses)/Y(Number of credits)/Z(total hours)