Study plan

Name of study plan: U itelství matematiky pro st ední školy

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Master Continuation Programme in Mathematics Education

Type of study: Follow-up master combined

Required credits: 0

Elective courses credits: 120 Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 0

The role of the block: PP

Code of the group: NMSPUCIMA1

Name of the group: NMS P_UCIMA 1. ro ník

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15AMV	Activating Teaching Methods	KZ	4	12B		PP
01AVM	Applications of Higher Mathematics in High School Education	KZ	3	8B		PP
02UINT	Didactics of Integrated Science Education	KZ	6	18B	Z	PP
01DIDM1	Didactics of Mathematics I	Z	6	16B		PP
01DIDM2	Didactics of Mathematics II	Z,ZK	6	16B		PP
32MC-K-ODID-01	General Didactics	Z,ZK	5	16B		PP
32MC-K-PEDO-01	General Pedagogy	Z,ZK	5	16B		PP
01PTZ	Support for Talented Pupils	KZ	4	12B		PP
32ME-K-PRSK-01	Presentation and Communication Skills	ZK	4	16B		PP
01PPP	Propaedeutics of Teaching Practice	Z	6	16B		PP
32MC-K-PSEP-01	Psychology in Educational Process	Z,ZK	5	16B		PP
01VPTC	Selected Topics in Number Theory	ZK	3	8B		PP
01VPTG	Selected Topics in Graph Theory	ZK	3	8B		PP

Characteristics of the courses of this group of Study Plan: Code=NMSPUCIMA1 Name=NMS P_UCIMA 1. ro ník 15AMV Activating Teaching Methods

ISAIVIV	Activating reaching wethous	r\Z	4		
The student will becom	e familiarboth theoretically and especially practicallywith activation methods used in science education, their significance, and	d their effective im	plementation in		
the teaching and learning	ng process. Based on the instructional objective, the student selects an appropriate activation method and designs a segment	of a lesson, inclu	ding its reflection		
and evaluation.					
01AVM	Applications of Higher Mathematics in High School Education	KZ	3		
The course is intended	for students of mathematics teaching. After reviewing selected parts of university mathematics, the student will propose dida	ctic transformation	ns of various		
advanced topics for use	in high school in specific applications, e.g. in the field of financial mathematics, geometry, combinatorial problems, etc. The o	emphasis is also į	olaced on		
interdisciplinary connections. The student will gain an overview useful, among other things, for motivating highschool students, teaching mathematical topics and developing fundaments					
competencies. The cou	rse will also include seminars with experts.				
02UINT	Didactics of Integrated Science Education	KZ	6		
This course explores cross-cutting topics from the perspective of natural sciences. While mathematics, physics, and chemistry are traditionally taught as separate subjects in schools					
their content frequently overlaps and intersects. In such cases, collaboration among teachers across disciplines is beneficial. The course will present several topics suitable for building					
interdisciplinary relationships and fostering cooperation among teachers within a school. Students will be introduced to tandem teaching and project-based learning methods.					
01DIDM1	Didactics of Mathematics I	Z	6		
01DIDM2	Didactics of Mathematics II	Z,ZK	6		

32MC-K-ODID-01	General Didactics	Z,ZK	5
32MC-K-PEDO-01	General Pedagogy	Z,ZK	5
01PTZ	Support for Talented Pupils	KZ	4
32ME-K-PRSK-01	Presentation and Communication Skills	ZK	4
01PPP	Propaedeutics of Teaching Practice	Z	6
32MC-K-PSEP-01	Psychology in Educational Process	Z,ZK	5
01VPTC	Selected Topics in Number Theory	ZK	3
01VPTG	Selected Topics in Graph Theory	ZK	3

Code of the group: NMSPUCIMA2

Name of the group: NMS P_UCIMA 2. ro ník

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
01PDPUM	Didactic and Pedagogic Project of the Diploma Thesis	Z	2	4B		PP
01DPUM	Diploma Thesis	Z	12	2B		PP
02UICT	ICT in Natural Science Education	KZ	3	8B	Z	PP
32MC-K-OSPN-01	Personality: Pathology and Normality	KZ	3	8B		PP
32MC-K-SVZP-02	Education of Pupils with Special Educational Needs in Science Subjects	ZK	4	12B		PP
01PPS	Teaching Practice	Z	15	450XH		PP
01RPP	Reflection of Teaching Practice	Z	3	6B		PP
32MC-K-PEDS-01	Social Pedagogy	ZK	3	8B		PP
02USTA	Current Trends in the Development and Application of Natural Sciences	Z	6	16B	L	PP
32MC-K-SKMN-01	School Management	ZK	3	8B		PP

O1PDPUM Didactic and Pedagogic Project of the Diploma Thesis The student will become familiar with the principles of writing a diploma thesis, conduct a literature search and other sources, propose a structure time, he/she will present the theoretical didactic and pedagogical part of the work. He will then present these outputs to his classmates and defer O1DPUM Diploma Thesis Under supervision, the student prepares the practical part of the diploma thesis. At the end of the semester, he presents these outputs to his class O2UICT ICT in Natural Science Education This course is designed for students in teacher education and introduces methods of working with ICT and their application in teaching mathema sciences in general, taking into account the students specialization. In addition to familiarizing students with current ICT options, the course strength		2 x. At the same
time, he/she will present the theoretical didactic and pedagogical part of the work. He will then present these outputs to his classmates and defer 01DPUM Diploma Thesis Under supervision, the student prepares the practical part of the diploma thesis. At the end of the semester, he presents these outputs to his class 02UICT ICT in Natural Science Education This course is designed for students in teacher education and introduces methods of working with ICT and their application in teaching mathema sciences in general, taking into account the students specialization. In addition to familiarizing students with current ICT options, the course strength		a. At the same
Under supervision, the student prepares the practical part of the diploma thesis. At the end of the semester, he presents these outputs to his class 02UICT ICT in Natural Science Education This course is designed for students in teacher education and introduces methods of working with ICT and their application in teaching mathema sciences in general, taking into account the students specialization. In addition to familiarizing students with current ICT options, the course strength	7	
02UICT ICT in Natural Science Education This course is designed for students in teacher education and introduces methods of working with ICT and their application in teaching mathema sciences in general, taking into account the students specialization. In addition to familiarizing students with current ICT options, the course strength		12
This course is designed for students in teacher education and introduces methods of working with ICT and their application in teaching mathema sciences in general, taking into account the students specialization. In addition to familiarizing students with current ICT options, the course strength	ssmates and defends	his concept.
sciences in general, taking into account the students specialization. In addition to familiarizing students with current ICT options, the course strength	KZ	3
technologies and communication.		•
32MC-K-OSPN-01 Personality: Pathology and Normality	KZ	3
32MC-K-SVZP-02 Education of Pupils with Special Educational Needs in Science Subjects	ZK	4
01PPS Teaching Practice	Z	15
01RPP Reflection of Teaching Practice	Z	3
32MC-K-PEDS-01 Social Pedagogy	ZK	3
02USTA Current Trends in the Development and Application of Natural Sciences	Z	6
This course is designed for teacher education students. It introduces students to the latest research directions in the natural sciences. Emphasis qualifications and interdisciplinary connections. The course is delivered through specialized seminars, which also include guest lectures from extention as specialized research facility.		0.
32MC-K-SKMN-01 School Management	ZK	3

Name of the block: Elective courses Minimal number of credits of the block: 0

The role of the block: V

Code of the group: NMSPUCIMAV

Name of the group: NMS P_UCIMA volitelné p edm ty

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
32MC-K-PSHY-01	Psycho-hygiene Aspects of Teaching Profession	Z,ZK	3	8B		V
32MC-K-SPKO-01	Social and Pedagogical Communication	KZ	3	8B		V
32MC-K-TECR-01	Impacts of Information Technology on Society	Z,ZK	3	8B		V
32MC-K-RIZZ-01	Risk Behavior of Pupils	KZ	3	8B		V

Characteristics of the courses of this group of Study Plan: Code=NMSPUCIMAV Name=NMS P_UCIMA volitelné p edm ty

32MC-K-PSHY-01 Psycho-hygiene Aspects of Teaching Profession	Z,ZK	3
32MC-K-SPKO-01 Social and Pedagogical Communication	KZ	3
32MC-K-TECR-01 Impacts of Information Technology on Society	Z,ZK	3
32MC-K-RIZZ-01 Risk Behavior of Pupils	KZ	3

List of courses of this pass:

Code	Name of the course	Completion	Credits
01AVM	Applications of Higher Mathematics in High School Education	KZ	3
The course is intend	ded for students of mathematics teaching. After reviewing selected parts of university mathematics, the student will propose didacti	c transformations	of various
•	or use in high school in specific applications, e.g. in the field of financial mathematics, geometry, combinatorial problems, etc. The e		
interdisciplinary conne	ections. The student will gain an overview useful, among other things, for motivating highschool students, teaching mathematical topic	s and developing f	undamental
	competencies. The course will also include seminars with experts.		
01DIDM1	Didactics of Mathematics I	Z	6
01DIDM2	Didactics of Mathematics II	Z,ZK	6
01DPUM	Diploma Thesis	Z	12
	he student prepares the practical part of the diploma thesis. At the end of the semester, he presents these outputs to his classmat		
01PDPUM	Didactic and Pedagogic Project of the Diploma Thesis	Z	2
	ome familiar with the principles of writing a diploma thesis, conduct a literature search and other sources, propose a structure and		
	ne will present the theoretical didactic and pedagogical part of the work. He will then present these outputs to his classmates and d		
01PPP	Propaedeutics of Teaching Practice	Z	6
01PPS	Teaching Practice	Z	15
01PTZ	Support for Talented Pupils	KZ	4
01RPP	Reflection of Teaching Practice	Z	3
01VPTC	Selected Topics in Number Theory	ZK	3
01VPTG	Selected Topics in Graph Theory	ZK	3
		1.77	3
02UICT	ICT in Natural Science Education	KZ	3
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This course is designed	IC I IN Natural Science Education ed for students in teacher education and introduces methods of working with ICT and their application in teaching mathematics, pl aking into account the students specialization. In addition to familiarizing students with current ICT options, the course strengthens	nysics, chemistry,	and natural
This course is designed	ed for students in teacher education and introduces methods of working with ICT and their application in teaching mathematics, ph	nysics, chemistry,	and natural
This course is designed	ed for students in teacher education and introduces methods of working with ICT and their application in teaching mathematics, place aking into account the students specialization. In addition to familiarizing students with current ICT options, the course strengthens	nysics, chemistry,	and natural
This course is designated sciences in general, to the sciences of the science of the scienc	ed for students in teacher education and introduces methods of working with ICT and their application in teaching mathematics, plaking into account the students specialization. In addition to familiarizing students with current ICT options, the course strengthens technologies and communication.	nysics, chemistry, as their competencion	and natural es in digital
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This course is designs sciences in general, to O2UINT This course explores of their content frequently interdisciplinary re O2USTA This course is designed qualifications and interdisciplinations.	ed for students in teacher education and introduces methods of working with ICT and their application in teaching mathematics, plaking into account the students specialization. In addition to familiarizing students with current ICT options, the course strengthens technologies and communication. Didactics of Integrated Science Education cross-cutting topics from the perspective of natural sciences. While mathematics, physics, and chemistry are traditionally taught as y overlaps and intersects. In such cases, collaboration among teachers across disciplines is beneficial. The course will present several place and fostering cooperation among teachers within a school. Students will be introduced to tandem teaching and project Current Trends in the Development and Application of Natural Sciences and for teacher education students. It introduces students to the latest research directions in the natural sciences. Emphasis is placed redisciplinary connections. The course is delivered through specialized seminars, which also include guest lectures from external extends to a specialized research facility.	nysics, chemistry, as their competencion KZ separate subjects eral topics suitable based learning mage and on developing properts, and feature	6 in schools, for building ethods. 6 orofessional s a field trip
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32MC-K-SVZP-02	Education of Pupils with Special Educational Needs in Science Subjects	ZK	4
32MC-K-TECR-01	Impacts of Information Technology on Society	Z,ZK	3
32ME-K-PRSK-01	Presentation and Communication Skills	ZK	4

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