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## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-111		<b>Course name:</b> Artificial intelligence				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 5						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 4						
A	B	C	D	E	FX(0)	FX(1)
25.0	0.0	0.0	0.0	25.0	0.0	50.0
<b>Instructor:</b> prof. Dr. Ing. Miroslav Svítek, Dr., Mgr. Adam Dudáš, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-222		<b>Course name:</b> Cloud Computing				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Practical <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
100.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD., Mgr. Adam Dudáš, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-123		<b>Course name:</b> Compilers				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 5						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
50.0	0.0	0.0	50.0	0.0	0.0	0.0
<b>Instructor:</b> doc. Mgr. Ján Karabáš, PhD., Mgr. Adam Dudáš, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-132		<b>Course name:</b> Computability Theory				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 5						
<b>Recommended semester/trimester:</b> 3.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
50.0	0.0	0.0	0.0	50.0	0.0	0.0
<b>Instructor:</b> doc. Mgr. Ján Karabáš, PhD., Mgr. Adam Dudáš, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-212		<b>Course name:</b> Computer Graphics 2				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Practical <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b>						
The final number of assessed students: 4						
A	B	C	D	E	FX(0)	FX(1)
50.0	0.0	0.0	0.0	0.0	25.0	25.0
<b>Instructor:</b> doc. Mgr. Ján Karabáš, PhD., Mgr. Michal Vagač, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-242		<b>Course name:</b> Computer Networks 2				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 1						
A	B	C	D	E	FX(0)	FX(1)
0.0	0.0	100.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> doc. Ing. Ľudovít Trajtel', PhD., Mgr. Rudolf Kubík						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-231		<b>Course name:</b> Effective Algorithms				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 3.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
50.0	0.0	50.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD., RNDr. Miroslav Melicherčík, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						



## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-244		<b>Course name:</b> Evolutionary Algorithms				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 1						
A	B	C	D	E	FX(0)	FX(1)
0.0	0.0	0.0	0.0	0.0	0.0	100.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD., RNDr. Alžbeta Michalíková, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Code:</b> 2e-fpv-215	<b>Course name:</b> Foreign Excursion
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Practical <b>Course type:</b> C (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 1d <b>Method of study:</b> combined	
<b>Number of credits:</b> 3	
<b>Recommended semester/trimester:</b> 2., 4.	
<b>Level:</b> II.	
<b>Prerequisites:</b>	
<b>Course completion conditions:</b>	
<b>Learning objectives:</b>	
<b>Brief outline of the course:</b>	
<b>Recommended literature:</b>	
<b>Language of instruction:</b>	
<b>Notes:student time load:</b>	
<b>Course assessment</b> The final number of assessed students: 0	
abs	n
0.0	0.0
<b>Instructor:</b> PaedDr. Mgr. Vladimír Siládi, PhD.	
<b>Last changed:</b> 12.02.2024	
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.	

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-114		<b>Course name:</b> Formal Languages and Automata				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 4						
A	B	C	D	E	FX(0)	FX(1)
25.0	0.0	0.0	25.0	0.0	0.0	50.0
<b>Instructor:</b> doc. Mgr. Ján Karabáš, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-113		<b>Course name:</b> Fuzzy Sets 1				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 4						
A	B	C	D	E	FX(0)	FX(1)
25.0	0.0	25.0	25.0	0.0	0.0	25.0
<b>Instructor:</b> doc. Mgr. Ján Karabáš, PhD., RNDr. Alžbeta Michalíková, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-225		<b>Course name:</b> Fuzzy Sets 2				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b>						
The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
50.0	0.0	0.0	50.0	0.0	0.0	0.0
<b>Instructor:</b> RNDr. Alžbeta Michalíková, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-224		<b>Course name:</b> Information Systems				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b>						
The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
50.0	0.0	0.0	50.0	0.0	0.0	0.0
<b>Instructor:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-221		<b>Course name:</b> Information and Coding Theory				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 0						
A	B	C	D	E	FX(0)	FX(1)
0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> prof. Dr. Ing. Miroslav Svítek, Dr., doc. Mgr. Ján Karabáš, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-241		<b>Course name:</b> Introduction to Robotics and Computer Vision				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Practical <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 1						
A	B	C	D	E	FX(0)	FX(1)
100.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD., Ing. Jozef Suchý, CSc., Mgr. Michal Vagač, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						



## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-112		<b>Course name:</b> Linear Optimization				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 5						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b>						
The final number of assessed students: 4						
A	B	C	D	E	FX(0)	FX(1)
0.0	25.0	0.0	0.0	25.0	0.0	50.0
<b>Instructor:</b> doc. Mgr. Ján Karabáš, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-243		<b>Course name:</b> Managing Systems for HPC				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 1						
A	B	C	D	E	FX(0)	FX(1)
100.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-121		<b>Course name:</b> Modeling and Simulation				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 6						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
50.0	0.0	0.0	50.0	0.0	0.0	0.0
<b>Instructor:</b> prof. Dr. Ing. Miroslav Svítek, Dr., doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-211		<b>Course name:</b> Multidimensional Analysis of Large Data				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 4						
A	B	C	D	E	FX(0)	FX(1)
25.0	0.0	25.0	0.0	0.0	0.0	50.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD., Mgr. Adam Dudáš, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-122		<b>Course name:</b> Neural Networks				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 5						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
50.0	0.0	50.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD., prof. Ing. Martin Klimo, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Code:</b> 2e-fpv-320	<b>Course name:</b> Out-of-School Activities in Didactics of Informatics 7
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Practical <b>Course type:</b> C (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 39s <b>Method of study:</b> combined	
<b>Number of credits:</b> 4	
<b>Recommended semester/trimester:</b> 1.	
<b>Level:</b> II.	
<b>Prerequisites:</b>	
<b>Course completion conditions:</b>	
<b>Learning objectives:</b>	
<b>Brief outline of the course:</b>	
<b>Recommended literature:</b>	
<b>Language of instruction:</b>	
<b>Notes:student time load:</b>	
<b>Course assessment</b> The final number of assessed students: 2	
abs	n
0.0	100.0
<b>Instructor:</b> PaedDr. Patrik Voštinár, PhD.	
<b>Last changed:</b> 13.09.2023	
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.	

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Code:</b> 2e-fpv-321	<b>Course name:</b> Out-of-School Activities in Didactics of Informatics 8
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Practical <b>Course type:</b> C (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 39s <b>Method of study:</b> combined	
<b>Number of credits:</b> 4	
<b>Recommended semester/trimester:</b> 2.	
<b>Level:</b> II.	
<b>Prerequisites:</b>	
<b>Course completion conditions:</b>	
<b>Learning objectives:</b>	
<b>Brief outline of the course:</b>	
<b>Recommended literature:</b>	
<b>Language of instruction:</b>	
<b>Notes:student time load:</b>	
<b>Course assessment</b> The final number of assessed students: 0	
abs	n
0.0	0.0
<b>Instructor:</b> PaedDr. Patrik Voštinár, PhD.	
<b>Last changed:</b> 13.09.2023	
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.	

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-131		<b>Course name:</b> Parallel and Distributed Computing				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Practical <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 5						
<b>Recommended semester/trimester:</b> 3.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
50.0	50.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD., RNDr. Miroslav Melicherčík, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						



## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-213		<b>Course name:</b> Programming of Mobile Applications				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 39s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b>						
The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
100.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b>						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-133		<b>Course name:</b> Project for Master Thesis				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 5						
<b>Recommended semester/trimester:</b> 3.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b>						
The final number of assessed students: 2						
A	B	C	D	E	FX(0)	FX(1)
50.0	50.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b>						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-233		<b>Course name:</b> Quantum Computing				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 39s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 3.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b>						
The final number of assessed students: 0						
A	B	C	D	E	FX(0)	FX(1)
0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b>						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-149		<b>Course name:</b> Seminar for Master Thesis				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Seminar <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 3						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b>						
The final number of assessed students: 1						
A	B	C	D	E	FX(0)	FX(1)
100.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b>						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Code:</b> 2e-ain-199		<b>Course name:</b> State Exam. Diploma Thesis and its Defense, Colloquial Exam			
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> <b>Course type:</b> A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> <b>Method of study:</b> combined					
<b>Number of credits:</b> 20					
<b>Recommended semester/trimester:</b>					
<b>Level:</b> II.					
<b>Prerequisites:</b>					
<b>Course completion conditions:</b>					
<b>Learning objectives:</b>					
<b>Brief outline of the course:</b>					
<b>Recommended literature:</b>					
<b>Language of instruction:</b>					
<b>Notes:student time load:</b>					
<b>Course assessment</b>					
The final number of assessed students: 1					
A	B	C	D	E	FX(1)
100.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b>					
<b>Last changed:</b> 24.01.2023					
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.					

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-223		<b>Course name:</b> Team Leading				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Lecture / Seminar <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 13s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 1						
A	B	C	D	E	FX(0)	FX(1)
100.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> doc. Ing. Ľudovít Trajtel', PhD., PaedDr. Mgr. Vladimír Siládi, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 2e-ain-232		<b>Course name:</b> Virtual and Augmented Reality				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Practical <b>Course type:</b> B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) <b>Recommended number of periods:</b> 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 3.						
<b>Level:</b> II.						
<b>Prerequisites:</b>						
<b>Course completion conditions:</b>						
<b>Learning objectives:</b>						
<b>Brief outline of the course:</b>						
<b>Recommended literature:</b>						
<b>Language of instruction:</b>						
<b>Notes:student time load:</b>						
<b>Course assessment</b> The final number of assessed students: 1						
A	B	C	D	E	FX(0)	FX(1)
100.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> PaedDr. Patrik Voštinár, PhD.						
<b>Last changed:</b> 24.01.2023						
<b>Approved by:</b> prof. Dr. Ing. Miroslav Svítek, Dr.						