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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> 1e-ain-111		<b>Course name:</b> Algorithms and Data Structures 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 / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 6						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> I., P						
<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: 25						
A	B	C	D	E	FX(0)	FX(1)
8.0	12.0	8.0	4.0	8.0	4.0	56.0
<b>Instructor:</b> PaedDr. Mgr. Vladimír Siládi, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 15.02.2022						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-121		<b>Course name:</b> Algorithms and Data Structures 2				
<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> I., P						
<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: 6						
A	B	C	D	E	FX(0)	FX(1)
16.67	0.0	0.0	0.0	33.33	16.67	33.33
<b>Instructor:</b> PaedDr. Mgr. Vladimír Siládi, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-152		<b>Course name:</b> Bachelor Project				
<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> 3						
<b>Recommended semester/trimester:</b> 5.						
<b>Level:</b> I., P						
<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)
0.0	0.0	50.0	0.0	0.0	0.0	50.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-257		<b>Course name:</b> Big Data Analysis				
<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> 5.						
<b>Level:</b> I., P						
<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> Mgr. Adam Dudáš, PhD., doc. Ing. Ľudovít Trajtel', PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-253		<b>Course name:</b> Cloud and High Performance Technologies and services				
<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> 39s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 5.						
<b>Level:</b> I., P						
<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> Mgr. Michal Vagač, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-235		<b>Course name:</b> Computer Graphics				
<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 / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 5						
<b>Recommended semester/trimester:</b> 3.						
<b>Level:</b> I., P						
<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	0.0	0.0	25.0	75.0	0.0	0.0
<b>Instructor:</b> Mgr. Michal Vagač, PhD., doc. Mgr. Ján Karabáš, PhD.						
<b>Last changed:</b> 11.09.2023						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-114		<b>Course name:</b> Computer 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 / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 6						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> I., P						
<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: 25						
A	B	C	D	E	FX(0)	FX(1)
12.0	24.0	8.0	4.0	8.0	4.0	40.0
<b>Instructor:</b> doc. Ing. Ľudovít Trajtel', PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						



## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-112		<b>Course name:</b> Computer Systems 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> 6						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> I., P						
<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: 25						
A	B	C	D	E	FX(0)	FX(1)
12.0	8.0	16.0	16.0	4.0	0.0	44.0
<b>Instructor:</b> doc. Ing. Ľudovít Trajtel', PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-242		<b>Course name:</b> Computer Systems 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 / 39s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> I., P						
<b>Prerequisites:</b> KIN FPV/1e-ain-112/21						
<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.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-133		<b>Course name:</b> Database Systems 1				
<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> 26s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 3.						
<b>Level:</b> I., P						
<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	25.0	25.0	0.0	25.0	0.0	0.0
<b>Instructor:</b> Mgr. Adam Dudáš, PhD., doc. Ing. Ľudovít Trajtel', PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-244		<b>Course name:</b> Database Systems 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> 26s / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> I., P						
<b>Prerequisites:</b> KIN FPV/1e-ain-133/21						
<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	0.0	25.0	0.0	0.0	25.0	50.0
<b>Instructor:</b> Mgr. Adam Dudáš, PhD., doc. Ing. Ľudovít Trajtel', PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-255		<b>Course name:</b> Game Development and User Experience				
<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> 338 <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 5.						
<b>Level:</b> I., P						
<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> PaedDr. Patrik Voštinár, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-124		<b>Course name:</b> Graph Algorithms				
<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> 6						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> I., P						
<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: 5						
A	B	C	D	E	FX(0)	FX(1)
20.0	40.0	20.0	0.0	0.0	20.0	0.0
<b>Instructor:</b> PaedDr. Patrik Voštinár, PhD., doc. Mgr. Ján Karabáš, PhD.						
<b>Last changed:</b> 11.09.2023						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-251		<b>Course name:</b> Internet of Things				
<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> 5.						
<b>Level:</b> I., P						
<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., RNDr. Miroslav Melicherčík, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-241		<b>Course name:</b> Introduction to Parallel Programming				
<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> 4.						
<b>Level:</b> I., P						
<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> RNDr. Miroslav Melicherčík, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						



## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-132		<b>Course name:</b> Introduction to Theoretical Computer Science				
<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> I., P						
<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	25.0	0.0	50.0	0.0
<b>Instructor:</b> doc. Mgr. Ján Karabáš, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-113		<b>Course name:</b> Mathematics for Informatics 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 / 39s <b>Method of study:</b> combined						
<b>Number of credits:</b> 6						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> I., P						
<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: 25						
A	B	C	D	E	FX(0)	FX(1)
16.0	16.0	16.0	4.0	16.0	8.0	24.0
<b>Instructor:</b> RNDr. Alžbeta Michalíková, PhD., doc. Mgr. Ján Karabáš, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-123		<b>Course name:</b> Mathematics for Informatics 2				
<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> 6						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> I., P						
<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: 6						
A	B	C	D	E	FX(0)	FX(1)
16.67	0.0	0.0	16.67	16.67	16.67	33.33
<b>Instructor:</b> RNDr. Alžbeta Michalíková, PhD., doc. Mgr. Ján Karabáš, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-238		<b>Course name:</b> Modelling in Matlab				
<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> I., P						
<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> doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-115		<b>Course name:</b> Multimedia				
<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> 39s <b>Method of study:</b> combined						
<b>Number of credits:</b> 6						
<b>Recommended semester/trimester:</b> 1.						
<b>Level:</b> I., P						
<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: 25						
A	B	C	D	E	FX(0)	FX(1)
24.0	16.0	24.0	4.0	0.0	8.0	24.0
<b>Instructor:</b>						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-237		<b>Course name:</b> Numerical Methods				
<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> 3.						
<b>Level:</b> I., P						
<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> RNDr. Alžbeta Michalíková, PhD., doc. Mgr. Ján Karabáš, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-141		<b>Course name:</b> Operating Systems 1				
<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> 26s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> I., P						
<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	0.0	50.0	0.0	0.0	0.0	50.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-151		<b>Course name:</b> Operating Systems 2				
<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> 3						
<b>Recommended semester/trimester:</b> 5.						
<b>Level:</b> I., P						
<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)
0.0	0.0	50.0	0.0	50.0	0.0	0.0
<b>Instructor:</b> doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						



## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-231		<b>Course name:</b> Principles of Smart Cities				
<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> 3.						
<b>Level:</b> I., P						
<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: 3						
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> prof. Dr. Ing. Miroslav Svítek, Dr.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-153		<b>Course name:</b> Professional Practice 1				
<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> 10						
<b>Recommended semester/trimester:</b> 5.						
<b>Level:</b> I., P						
<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)
0.0	0.0	50.0	50.0	0.0	0.0	0.0
<b>Instructor:</b>						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-161		<b>Course name:</b> Professional Practice 2				
<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> 508s <b>Method of study:</b> combined						
<b>Number of credits:</b> 20						
<b>Recommended semester/trimester:</b> 6.						
<b>Level:</b> I., P						
<b>Prerequisites:</b> KIN FPV/1e-ain-153/21						
<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>						
<b>Last changed:</b> 12.09.2023						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-122		<b>Course name:</b> Programming 1				
<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 / 39s <b>Method of study:</b> combined						
<b>Number of credits:</b> 6						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> I., P						
<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: 5						
A	B	C	D	E	FX(0)	FX(1)
0.0	0.0	20.0	40.0	20.0	20.0	0.0
<b>Instructor:</b> RNDr. Miroslav Melicherčík, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 18.05.2022						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-131		<b>Course name:</b> Programming 2				
<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> 26s / 26s <b>Method of study:</b> combined						
<b>Number of credits:</b> 5						
<b>Recommended semester/trimester:</b> 3.						
<b>Level:</b> I., P						
<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	25.0	25.0	25.0	0.0	0.0
<b>Instructor:</b> Mgr. Michal Vagač, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-142		<b>Course name:</b> Programming 3				
<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> 39s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> I., P						
<b>Prerequisites:</b> KIN FPV/1e-ain-131/21						
<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	100.0	0.0	0.0
<b>Instructor:</b>						
<b>Last changed:</b> 11.09.2023						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-143		<b>Course name:</b> Semestral Project				
<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> I., P						
<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	25.0	25.0	0.0	25.0	0.0
<b>Instructor:</b>						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-247		<b>Course name:</b> Soft Computing				
<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> I., P						
<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> RNDr. Alžbeta Michalíková, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						



## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-144		<b>Course name:</b> Software Engineering				
<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 / 13s <b>Method of study:</b> combined						
<b>Number of credits:</b> 4						
<b>Recommended semester/trimester:</b> 4.						
<b>Level:</b> I., P						
<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	50.0	25.0	0.0	0.0	0.0
<b>Instructor:</b> PaedDr. Mgr. Vladimír Siládi, PhD., doc. Ing. Ľudovít Trajtel', PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Code:</b> 1e-ain-199		<b>Course name:</b> State 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> 10					
<b>Recommended semester/trimester:</b>					
<b>Level:</b> I., P					
<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(1)
0.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b>					
<b>Last changed:</b> 15.12.2021					
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.					

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-245		<b>Course name:</b> Technologies for 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> 4.						
<b>Level:</b> I., P						
<b>Prerequisites:</b> KIN FPV/1e-ain-115/21						
<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	0.0	0.0	25.0	0.0	75.0	0.0
<b>Instructor:</b> PaedDr. Patrik Voštinár, PhD.						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-125		<b>Course name:</b> Web Technologies 1				
<b>Type, extent and method of instruction:</b> <b>Form of instruction:</b> Practical <b>Course type:</b> A (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> 6						
<b>Recommended semester/trimester:</b> 2.						
<b>Level:</b> I., P						
<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)
75.0	25.0	0.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> PaedDr. Patrik Voštinár, PhD., Mgr. Michal Vagač, PhD., Mgr. Jozef Siláči						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-233		<b>Course name:</b> Web Technologies 2				
<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> I., P						
<b>Prerequisites:</b> KIN FPV/1e-ain-125/21						
<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	75.0	0.0	0.0	0.0	0.0
<b>Instructor:</b> PaedDr. Patrik Voštinár, PhD., Ing. Robert Gallas, Mgr. Jozef Siláči						
<b>Last changed:</b> 15.12.2021						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						

## Course Description

<b>University:</b> Matej Bel University in Banská Bystrica						
<b>Faculty:</b> Faculty of Natural Sciences						
<b>Code:</b> 1e-ain-243		<b>Course name:</b> Web Technologies 3				
<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> 4.						
<b>Level:</b> I., P						
<b>Prerequisites:</b> KIN FPV/1e-ain-233/21						
<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> PaedDr. Patrik Voštinár, PhD., Ing. Robert Gallas						
<b>Last changed:</b> 11.09.2023						
<b>Approved by:</b> doc. Ing. Jarmila Škrinárová, PhD.						