

Register

1. Algorithms and Data Structures 1.....	2
2. Algorithms and Data Structures 2.....	3
3. Bachelor Project.....	4
4. Big Data Analysis.....	5
5. Cloud and High Performance Technologies and services.....	6
6. Computer Graphics.....	7
7. Computer Networks.....	8
8. Computer Systems 1.....	9
9. Computer Systems 2.....	10
10. Database Systems 1.....	11
11. Database Systems 2.....	12
12. Game Development and User Experience.....	13
13. Graph Algorithms.....	14
14. Internet of Things.....	15
15. Introduction to Parallel Programming.....	16
16. Introduction to Theoretical Computer Science.....	17
17. Mathematics for Informatics 1.....	18
18. Mathematics for Informatics 2.....	19
19. Modelling in Matlab.....	20
20. Multimedia.....	21
21. Numerical Methods.....	22
22. Operating Systems 1.....	23
23. Operating Systems 2.....	24
24. Principles of Smart Cities.....	25
25. Professional Practice 1.....	26
26. Professional Practice 2.....	27
27. Programming 1.....	28
28. Programming 2.....	29
29. Programming 3.....	30
30. Semestral Project.....	31
31. Soft Computing.....	32
32. Software Engineering.....	33
33. State Exam.....	34
34. Technologies for Virtual and Augmented Reality.....	35
35. Web Technologies 1.....	36
36. Web Technologies 2.....	37
37. Web Technologies 3.....	38

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-111		Course name: Algorithms and Data Structures 1				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 26s						
Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 1.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: PaedDr. Mgr. Vladimír Siládi, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 15.02.2022						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-121		Course name: Algorithms and Data Structures 2				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 13s						
Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 2.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: PaedDr. Mgr. Vladimír Siládi, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-152		Course name: Bachelor Project				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 13s / 26s						
Method of study: combined						
Number of credits: 3						
Recommended semester/trimester: 5.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-257		Course name: Big Data Analysis				
Type, extent and method of instruction: Form of instruction: Lecture / Seminar Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) Recommended number of periods: 13s / 26s Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 5.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment 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
Instructor: Mgr. Adam Dudáš, PhD., doc. Ing. Ľudovít Trajtel', PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-253		Course name: Cloud and High Performance Technologies and services				
Type, extent and method of instruction:						
Form of instruction: Practical						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 39s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 5.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: Mgr. Michal Vagač, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-235		Course name: Computer Graphics				
Type, extent and method of instruction:						
Form of instruction: Lecture / Practical						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 26s						
Method of study: combined						
Number of credits: 5						
Recommended semester/trimester: 3.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: Mgr. Michal Vagač, PhD., doc. Mgr. Ján Karabáš, PhD.						
Last changed: 11.09.2023						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-114		Course name: Computer Networks				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 13s						
Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 1.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: doc. Ing. Ľudovít Trajtel', PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-112		Course name: Computer Systems 1				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 13s						
Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 1.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: doc. Ing. Ľudovít Trajtel', PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-242		Course name: Computer Systems 2				
Type, extent and method of instruction: Form of instruction: Lecture / Seminar Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) Recommended number of periods: 26s / 39s Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 4.						
Level: I, P						
Prerequisites: KIN FPV/1e-ain-112/21						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment 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
Instructor: doc. Ing. Ľudovít Trajtel', PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-133		Course name: Database Systems 1				
Type, extent and method of instruction: Form of instruction: Lecture / Practical Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) Recommended number of periods: 26s / 26s Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 3.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment 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
Instructor: Mgr. Adam Dudáš, PhD., doc. Ing. Ľudovít Trajtel', PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-244		Course name: Database Systems 2				
Type, extent and method of instruction: Form of instruction: Lecture / Practical Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) Recommended number of periods: 26s / 13s Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 4.						
Level: I, P						
Prerequisites: KIN FPV/1e-ain-133/21						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment 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
Instructor: Mgr. Adam Dudáš, PhD., doc. Ing. Ľudovít Trajtel', PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-255		Course name: Game Development and User Experience				
Type, extent and method of instruction:						
Form of instruction: Practical						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 338						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 5.						
Level: I., P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: PaedDr. Patrik Voštinár, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-124		Course name: Graph Algorithms				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 26s						
Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 2.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: PaedDr. Patrik Voštinár, PhD., doc. Mgr. Ján Karabáš, PhD.						
Last changed: 11.09.2023						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-251		Course name: Internet of Things				
Type, extent and method of instruction:						
Form of instruction: Practical						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 5.						
Level: I., P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: doc. Ing. Ľudovít Trajtel', PhD., RNDr. Miroslav Melicherčík, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-241		Course name: Introduction to Parallel Programming				
Type, extent and method of instruction:						
Form of instruction: Lecture / Practical						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 13s / 26s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 4.						
Level: I., P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: RNDr. Miroslav Melicherčík, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-132		Course name: Introduction to Theoretical Computer Science				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 13s / 26s						
Method of study: combined						
Number of credits: 5						
Recommended semester/trimester: 3.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: doc. Mgr. Ján Karabáš, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-113		Course name: Mathematics for Informatics 1				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 39s						
Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 1.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: RNDr. Alžbeta Michalíková, PhD., doc. Mgr. Ján Karabáš, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-123		Course name: Mathematics for Informatics 2				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 26s						
Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 2.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: RNDr. Alžbeta Michalíková, PhD., doc. Mgr. Ján Karabáš, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-238		Course name: Modelling in Matlab				
Type, extent and method of instruction:						
Form of instruction: Practical						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 3.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-115		Course name: Multimedia				
Type, extent and method of instruction: Form of instruction: Seminar Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) Recommended number of periods: 39s Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 1.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment 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
Instructor:						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-237		Course name: Numerical Methods				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 13s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 3.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: RNDr. Alžbeta Michalíková, PhD., doc. Mgr. Ján Karabáš, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-141		Course name: Operating Systems 1				
Type, extent and method of instruction:						
Form of instruction: Lecture / Practical						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 26s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 4.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-151		Course name: Operating Systems 2				
Type, extent and method of instruction:						
Form of instruction: Lecture / Practical						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 13s / 26s						
Method of study: combined						
Number of credits: 3						
Recommended semester/trimester: 5.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-231		Course name: Principles of Smart Cities				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 13s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 3.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: prof. Dr. Ing. Miroslav Svítek, Dr.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-153		Course name: Professional Practice 1				
Type, extent and method of instruction:						
Form of instruction: Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s						
Method of study: combined						
Number of credits: 10						
Recommended semester/trimester: 5.						
Level: I., P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor:						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-161		Course name: Professional Practice 2				
Type, extent and method of instruction:						
Form of instruction: Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 508s						
Method of study: combined						
Number of credits: 20						
Recommended semester/trimester: 6.						
Level: I., P						
Prerequisites: KIN FPV/1e-ain-153/21						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor:						
Last changed: 12.09.2023						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-122		Course name: Programming 1				
Type, extent and method of instruction:						
Form of instruction: Lecture / Practical						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 13s / 39s						
Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 2.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: RNDr. Miroslav Melicherčík, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 18.05.2022						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-131		Course name: Programming 2				
Type, extent and method of instruction:						
Form of instruction: Lecture / Practical						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 26s						
Method of study: combined						
Number of credits: 5						
Recommended semester/trimester: 3.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: Mgr. Michal Vagač, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-142		Course name: Programming 3				
Type, extent and method of instruction:						
Form of instruction: Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 39s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 4.						
Level: I., P						
Prerequisites: KIN FPV/1e-ain-131/21						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor:						
Last changed: 11.09.2023						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-143		Course name: Semestral Project				
Type, extent and method of instruction:						
Form of instruction: Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s						
Method of study: combined						
Number of credits: 3						
Recommended semester/trimester: 4.						
Level: I., P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor:						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-247		Course name: Soft Computing				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s / 26s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 4.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: RNDr. Alžbeta Michalíková, PhD., doc. Ing. Jarmila Škrinárová, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-144		Course name: Software Engineering				
Type, extent and method of instruction:						
Form of instruction: Lecture / Seminar						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 13s / 13s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 4.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: PaedDr. Mgr. Vladimír Siládi, PhD., doc. Ing. Ľudovít Trajtel', PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica					
Faculty: Faculty of Natural Sciences					
Code: 1e-ain-199		Course name: State Exam			
Type, extent and method of instruction: Form of instruction: Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses) Recommended number of periods: Method of study: combined					
Number of credits: 10					
Recommended semester/trimester:					
Level: I, P					
Prerequisites:					
Course completion conditions:					
Learning objectives:					
Brief outline of the course:					
Recommended literature:					
Language of instruction:					
Notes:student time load:					
Course assessment 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
Instructor:					
Last changed: 15.12.2021					
Approved by: doc. Ing. Jarmila Škrinárová, PhD.					

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-245		Course name: Technologies for Virtual and Augmented Reality				
Type, extent and method of instruction:						
Form of instruction: Practical						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 4.						
Level: I, P						
Prerequisites: KIN FPV/1e-ain-115/21						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: PaedDr. Patrik Voštinár, PhD.						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-125		Course name: Web Technologies 1				
Type, extent and method of instruction:						
Form of instruction: Practical						
Course type: A (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 39s						
Method of study: combined						
Number of credits: 6						
Recommended semester/trimester: 2.						
Level: I, P						
Prerequisites:						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: PaedDr. Patrik Voštinár, PhD., Mgr. Michal Vagač, PhD., Mgr. Jozef Siláči						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-233		Course name: Web Technologies 2				
Type, extent and method of instruction:						
Form of instruction: Practical						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 26s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 3.						
Level: I, P						
Prerequisites: KIN FPV/1e-ain-125/21						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: PaedDr. Patrik Voštinár, PhD., Ing. Robert Gallas, Mgr. Jozef Siláči						
Last changed: 15.12.2021						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						

Course Description

University: Matej Bel University in Banská Bystrica						
Faculty: Faculty of Natural Sciences						
Code: 1e-ain-243		Course name: Web Technologies 3				
Type, extent and method of instruction:						
Form of instruction: Lecture / Practical						
Course type: B (A - Compulsory courses, B - Compulsory elective courses, C - Elective courses)						
Recommended number of periods: 13s / 26s						
Method of study: combined						
Number of credits: 4						
Recommended semester/trimester: 4.						
Level: I., P						
Prerequisites: KIN FPV/1e-ain-233/21						
Course completion conditions:						
Learning objectives:						
Brief outline of the course:						
Recommended literature:						
Language of instruction:						
Notes:student time load:						
Course assessment						
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
Instructor: PaedDr. Patrik Voštinár, PhD., Ing. Robert Gallas						
Last changed: 11.09.2023						
Approved by: doc. Ing. Jarmila Škrinárová, PhD.						