Register

1. Algorithms and Data Structures 1	2
2. Algorithms and Data Structures 2	3
3. Bachelor Project	
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. Mathematics for Informatics 1	. 18
18. Mathematics for Informatics 2	. 19
19. Modelling in Matlab	
20. Multimedia	. 21
21. Numerical Methods	
22. Operating Systems 1	
23. Operating Systems 2	
24. Principles of Smart Cities	
25. Professional Practice 1	. 26
26. Professional Practice 2	
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. Technologies for Virtual and Augmented Reality	
35. Web Technologies 1	
36. Web Technologies 2	
37. Web Technologies 3	38

University: N	latej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-111 Cour	se name: Algo	orithms and Da	ata Structures	1	
Form of ins Course type Recommend	· •	ure / Seminar ory courses, B - Co f periods: 26s		courses, C - Electiv	ve courses)	
Number of c	redits: 6					
Recommend	ed semester/tr	imester: 1.				
Level: I., P						
Prerequisites	•					
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course:					
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final num	sment nber of assesse	ed students: 25				
А	В	С	D	Е	FX(0)	FX(1)
8.0	12.0	8.0	4.0	8.0	4.0	56.0
Instructor: P	aedDr. Mgr. V	ladimír Siládi,	PhD., doc. In	g. Jarmila Škr	inárová, PhD.	
Last changed	l: 15.02.2022					
Approved by	: doc. Ing. Jar	nila Škrinárov	á, PhD.			

University: M	atej Bel Univ	ersity in Bansk	tá Bystrica					
Faculty: Facult	lty of Natural	Sciences						
Code: 1e-ain-121 Course name: Algorithms and Data Structures 2								
• 1	ruction: Lect A (A - Compuls ed number o	ure / Seminar ory courses, B - Co f periods: 26s		courses, C - Electiv	e courses)			
Number of cr	edits: 6							
Recommende	d semester/tr	imester: 2.						
Level: I., P								
Prerequisites:								
Course compl	etion conditi	ons:						
Learning obje	ectives:							
Brief outline of	of the course:							
Recommende	d literature:							
Language of i	nstruction:							
Notes:student	time load:							
Course assess The final num		ed students: 6						
A	В	С	D	Е	FX(0)	FX(1)		
16.67	0.0	0.0	0.0	33.33	16.67	33.33		
Instructor: Pa	edDr. Mgr. V	ladimír Siládi,	PhD., doc. In	g. Jarmila Škri	nárová, PhD.			
Last changed	: 15.12.2021							
Approved by:	doc. Ing. Jar	nila Škrinárov	á, PhD.					

University: N	Aatej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-152 Cour	se name: Bach	elor Project			
Form of ins Course type Recommend	truction: Lect e: A (A - Compute	ory courses, B - Con f periods: 13s		courses, C - Electi	ve courses)	
Number of c	redits: 3					
Recommend	ed semester/t	rimester: 5.				
Level: I., P						
Prerequisites	5					
Course comp	oletion condit	ions:				
Learning obj	jectives:					
Brief outline	of the course	:				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assess	ed students: 2				
А	В	C	D	Е	FX(0)	FX(1)
0.0	0.0	50.0	0.0	0.0	0.0	50.0
Instructor: d	oc. Ing. Jarmi	la Škrinárová, I	PhD.		1	
Last changed	1: 15.12.2021					
Approved by	v: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: N	Iatej Bel Univ	ersity in Bansk	tá Bystrica						
Faculty: Facu	ulty of Natural	Sciences							
Code: 1e-ain-257 Course name: Big Data Analysis									
Form of ins Course type Recommend	· •	ure / Seminar ory courses, B - Cor f periods: 13s		courses, C - Electiv	ve courses)				
Number of c	redits: 4								
Recommende	ed semester/ti	imester: 5.							
Level: I., P									
Prerequisites	:								
Course comp	letion conditi	ons:							
Learning obj	ectives:								
Brief outline	of the course	:							
Recommende	ed literature:								
Language of	instruction:								
Notes:studen	t time load:								
Course assess The final num	sment nber of assesse	ed students: 1							
А	В	С	D	Е	FX(0)	FX(1)			
0.0	0.0	100.0	0.0	0.0	0.0	0.0			
Instructor: M	Igr. Adam Du	dáš, PhD., doc.	Ing. Ľudovíť	Trajteľ, PhD.	•				
Last changed	I: 15.12.2021								
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.						

University: N	Aatej Bel Univ	ersity in Bansl	ká Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-253 Cour	se name: Clou	id and High Po	erformance Te	chnologies and	l services
Form of ins Course type Recommend	and method o truction: Prac B (A - Compuls ded number o tudy: combine	tical ory courses, B - Co f periods: 39s		courses, C - Electi	ve courses)	
Number of c	redits: 4					
Recommend	ed semester/ti	imester: 5.				
Level: I., P						
Prerequisites	5:					
Course comp	oletion conditi	ons:				
Learning obj	jectives:					
Brief outline	of the course	:				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assesse	ed students: 2				
А	В	С	D	E	FX(0)	FX(1)
50.0	0.0	0.0	50.0	0.0	0.0	0.0
Instructor: N	/Igr. Michal Va	gač, PhD.		!	<u> </u>	
Last changed	1: 15.12.2021					
Approved by	v: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: M	latej Bel Univ	ersity in Bansk	tá Bystrica						
Faculty: Facu	lty of Natural	Sciences							
Code: 1e-ain-235 Course name: Computer Graphics									
Form of inst Course type Recommend	truction: Lect : B (A - Compuls	ory courses, B - Co f periods: 26s		courses, C - Electiv	re courses)				
Number of ci	redits: 5								
Recommende	ed semester/ti	imester: 3.							
Level: I., P									
Prerequisites	•								
Course comp	letion conditi	ons:							
Learning obj	ectives:								
Brief outline	of the course	;							
Recommende	ed literature:								
Language of	instruction:								
Notes:studen	t time load:								
Course assess The final nun	sment ber of assesse	ed students: 4							
А	В	С	D	Е	FX(0)	FX(1)			
0.0	0.0	0.0	25.0	75.0	0.0	0.0			
Instructor: N	Igr. Michal Va	gač, PhD., doc	. Mgr. Ján Ka	rabáš, PhD.					
Last changed	: 11.09.2023								
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.						

University: N	Aatej Bel Univ	versity in Bansk	tá Bystrica							
Faculty: Facu	ulty of Natural	Sciences								
Code: 1e-ain-114Course name: Computer Networks										
Form of ins Course type Recommend	truction: Lect e: A (A - Compute	sory courses, B - Co f periods: 26s		courses, C - Electi	ve courses)					
Number of c	redits: 6									
Recommend	ed semester/t	rimester: 1.								
Level: I., P										
Prerequisites	5:									
Course comp	oletion condit	ions:								
Learning obj	ectives:									
Brief outline	of the course	•								
Recommend	ed literature:									
Language of	instruction:									
Notes:studen	t time load:									
Course asses The final nur		ed students: 25								
А	В	C	D	Е	FX(0)	FX(1)				
12.0	24.0	8.0	4.0	8.0	4.0	40.0				
Instructor: d	oc. Ing. Ľudov	vít Trajteľ, PhD).		•					
Last changed	1: 15.12.2021									
Approved by	doc. Ing. Jar	mila Škrinárov	á, PhD.							

University: N	latej Bel Univ	ersity in Bansk	tá Bystrica						
Faculty: Facu	lty of Natural	Sciences							
Code: 1e-ain-112Course name: Computer Systems 1									
Form of ins Course type Recommend	truction: Lect	ory courses, B - Co f periods: 26s	· ·	courses, C - Electi	ve courses)				
Number of c	redits: 6								
Recommende	ed semester/ti	rimester: 1.							
Level: I., P									
Prerequisites	•								
Course comp	letion conditi	ons:							
Learning obj	ectives:								
Brief outline	of the course	:							
Recommende	ed literature:								
Language of	instruction:								
Notes:studen	t time load:								
Course assess The final num		ed students: 25							
А	В	С	D	Е	FX(0)	FX(1)			
12.0	8.0	16.0	16.0	4.0	0.0	44.0			
Instructor: d	oc. Ing. Ľudov	vít Trajteľ, PhD).	•	<u>.</u>	-			
Last changed	I: 15.12.2021								
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.						

University: N	latej Bel Univ	ersity in Bansk	tá Bystrica						
Faculty: Facu	ulty of Natural	Sciences							
Code: 1e-ain-242Course name: Computer Systems 2									
Form of ins Course type Recommend	truction: Lect	ory courses, B - Cor f periods: 26s	· ·	courses, C - Electiv	ve courses)				
Number of c	redits: 4								
Recommende	ed semester/ti	rimester: 4.							
Level: I., P									
Prerequisites	: KIN FPV/1e	-ain-112/21							
Course comp	letion conditi	ons:							
Learning obj	ectives:								
Brief outline	of the course	:							
Recommend	ed literature:								
Language of	instruction:								
Notes:studen	t time load:								
Course asses The final num	sment nber of assesse	ed students: 1							
А	В	С	D	Е	FX(0)	FX(1)			
0.0	0.0	100.0	0.0	0.0	0.0	0.0			
Instructor: d	oc. Ing. Ľudov	vít Trajteľ, PhD).		•				
Last changed	I: 15.12.2021								
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.						

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	K(1)							
25.0 25.0 25.0 0.0 25.0 0.0 0).0							
Instructor: Mgr. Adam Dudáš, PhD., doc. Ing. Ľudovít Trajteľ, PhD.								
Last changed: 15.12.2021								
Approved by: doc. Ing. Jarmila Škrinárová, PhD.								

University: N	latej Bel Univ	ersity in Bansk	tá Bystrica						
Faculty: Facu	ulty of Natural	Sciences							
Code: 1e-ain-244Course name: Database Systems 2									
Form of ins Course type Recommend	· •	ure / Practical ory courses, B - Co f periods: 26s		courses, C - Electiv	ve courses)				
Number of c	redits: 4								
Recommend	ed semester/tr	rimester: 4.							
Level: I., P									
Prerequisites	: KIN FPV/1e	-ain-133/21							
Course comp	letion conditi	ons:							
Learning obj	ectives:	_							
Brief outline	of the course	:							
Recommend	ed literature:								
Language of	instruction:								
Notes:studen	t time load:								
Course asses The final nur	sment nber of assesse	ed students: 4							
А	В	С	D	Е	FX(0)	FX(1)			
0.0	0.0	25.0	0.0	0.0	25.0	50.0			
Instructor: N	Igr. Adam Due	dáš, PhD., doc.	Ing. Ľudovít	Trajteľ, PhD.					
Last changed	I: 15.12.2021								
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.						

University: N	latej Bel Univ	ersity in Bansk	á Bystrica			
Faculty: Facu	ılty of Natural	Sciences				
Code: 1e-ain-	255 Cour	se name: Gam	e Developmer	nt and User Ex	perience	
Form of ins Course type Recommend		tical ory courses, B - Cor f periods: 338	npulsory elective	courses, C - Electiv	e courses)	
Number of c	redits: 4					
Recommende	ed semester/tr	imester: 5.				
Level: I., P						
Prerequisites	•					
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course:					
Recommende	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course assess The final num	sment nber of assesse	ed students: 2				
А	В	С	D	Е	FX(0)	FX(1)
50.0	0.0	0.0	0.0	50.0	0.0	0.0
Instructor: P	aedDr. Patrik	Voštinár, PhD.			·	5
Last changed	: 15.12.2021					
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: M	latej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	lty of Natural	Sciences				
Code: 1e-ain-	124 Cour	se name: Grap	h Algorithms			
Course type: Recommend	ruction: Lect	ure / Seminar ory courses, B - Co f periods: 26s		courses, C - Electiv	ve courses)	
Number of cr	edits: 6					
Recommende	d semester/tr	imester: 2.				
Level: I., P						
Prerequisites:						
Course comp	letion conditi	ons:				
Learning obje	ectives:					
Brief outline of	of the course:					
Recommende	d literature:					
Language of i	nstruction:					
Notes:student	time load:					
Course assess The final num		ed students: 5				
A	В	С	D	Е	FX(0)	FX(1)
20.0	40.0	20.0	0.0	0.0	20.0	0.0
Instructor: Pa	edDr. Patrik	Voštinár, PhD.,	, doc. Mgr. Ján	Karabáš, PhI).	7
Last changed	: 11.09.2023					
Approved by:	doc. Ing. Jari	nila Škrinárov	á, PhD.			

University: N	latej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	lty of Natural	Sciences				
Code: 1e-ain-	251 Cour	se name: Inter	net of Things			
Course type Recommend	truction: Prac : B (A - Compuls	tical ory courses, B - Co f periods: 26s	mpulsory elective o	courses, C - Electiv	ve courses)	
Number of cr	redits: 4					
Recommende	ed semester/tr	rimester: 5.				
Level: I., P						
Prerequisites	:					
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course:					
Recommende	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course assess The final nun	sment ber of assesse	ed students: 1				
A	В	С	D	Е	FX(0)	FX(1)
100.0	0.0	0.0	0.0	0.0	0.0	0.0
Instructor: de	oc. Ing. Ľudov	ít Trajteľ, PhD	., RNDr. Mirc	slav Melicher	rčík, PhD.	
Last changed	: 15.12.2021					
Approved by	: doc. Ing. Jar	nila Škrinárov	á, PhD.			

University: N	/latej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-241 Cour	se name: Intro	duction to Par	allel Program	ming	
Form of ins Course type Recommend	truction: Lect	ory courses, B - Cor f periods: 13s		courses, C - Electiv	ve courses)	
Number of c	redits: 4					
Recommend	ed semester/ti	rimester: 4.				
Level: I., P						
Prerequisites						
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course	:				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assesse	ed students: 1				
А	В	С	D	Е	FX(0)	FX(1)
0.0	0.0	100.0	0.0	0.0	0.0	0.0
Instructor: R	NDr. Miroslav	v Melicherčík,	PhD., doc. Ing	g. Jarmila Škri	nárová, PhD.	
Last changed	I: 15.12.2021					
Approved by	doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: N	Matej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Fac	ulty of Natural	Sciences				
Code: 1e-ain	-132 Cour	se name: Intro	duction to Th	eoretical Com	puter Science	
Form of ins Course type Recommen		cure / Seminar cory courses, B - Co f periods: 13s	· ·	courses, C - Electi	ve courses)	
Number of c	redits: 5					
Recommend	ed semester/ti	rimester: 3.				
Level: I., P						
Prerequisite	s:					
Course com	pletion conditi	ons:				
Learning ob	jectives:					
Brief outline	of the course	•				
Recommend	ed literature:					
Language of	instruction:					
Notes:studer	nt time load:					
Course asses The final nu	sment mber of assesse	ed students: 4				
А	В	С	D	Е	FX(0)	FX(1)
0.0	25.0	0.0	25.0	0.0	50.0	0.0
Instructor: d	loc. Mgr. Ján K	Karabáš, PhD.			1	
Last change	d: 15.12.2021					
Approved by	y: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: N	Matej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Fac	ulty of Natural	Sciences				
Code: 1e-ain	-113 Cour	se name: Math	nematics for Ir	nformatics 1		
Form of ins Course type Recommen		ure / Seminar ory courses, B - Co f periods: 26s		courses, C - Electiv	ve courses)	
Number of c	redits: 6					
Recommend	ed semester/ti	rimester: 1.				
Level: I., P						
Prerequisites	s:					
Course com	pletion conditi	ons:				
Learning ob	jectives:					
Brief outline	of the course	:				
Recommend	ed literature:					
Language of	instruction:					
Notes:studer	nt time load:					
Course asses	sment mber of assesse	ed students: 25				
А	В	С	D	Е	FX(0)	FX(1)
16.0	16.0	16.0	4.0	16.0	8.0	24.0
Instructor: F	RNDr. Alžbeta	Michalíková, I	PhD., doc. Mg	r. Ján Karabáš	, PhD.	
Last change	d: 15.12.2021					
Approved by	v: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: N	latej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	lty of Natural	Sciences				
Code: 1e-ain-	123 Cour	se name: Math	nematics for Ir	nformatics 2		
Form of inst Course type Recommend	truction: Lect : A (A - Compuls	ory courses, B - Co f periods: 26s		courses, C - Electiv	ve courses)	
Number of ci	redits: 6					
Recommende	ed semester/tr	imester: 2.				
Level: I., P						
Prerequisites	:					
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course:	;				
Recommende	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course assess The final nun	sment ber of assesse	ed students: 6				
А	В	С	D	E	FX(0)	FX(1)
16.67	0.0	0.0	16.67	16.67	16.67	33.33
Instructor: R	NDr. Alžbeta	Michalíková, I	PhD., doc. Mg	r. Ján Karabáš	, PhD.	
Last changed	: 15.12.2021					
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: N	Aatej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain	-238 Cour	se name: Mod	elling in Matl	ab		
Form of ins Course type Recommend	truction: Prace: B (A - Compuls	ory courses, B - Con f periods: 26s	mpulsory elective	courses, C - Electiv	ve courses)	
Number of c	redits: 4					
Recommend	ed semester/ti	rimester: 3.				
Level: I., P						
Prerequisites	3:					
Course comp	oletion conditi	ions:				
Learning obj	jectives:					
Brief outline	of the course	:				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assess	ed students: 0				
А	В	C	D	Е	FX(0)	FX(1)
0.0	0.0	0.0	0.0	0.0	0.0	0.0
Instructor: d	oc. Ing. Jarmi	la Škrinárová, I	PhD.		•	
Last changed	I: 15.12.2021					
Approved by	v: doc. Ing. Jar	mila Škrinárov	á, PhD.			

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:
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.

University: N	Aatej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Fac	ulty of Natural	Sciences				
Code: 1e-ain	-237 Cour	se name: Num	erical Method	ls		
Form of ins Course type Recomment	truction: Lect e: B (A - Compuls	ory courses, B - Con f periods: 26s		courses, C - Electi	ve courses)	
Number of c	redits: 4					
Recommend	ed semester/t	rimester: 3.				
Level: I., P						
Prerequisites	5					
Course comp	oletion condit	ons:				
Learning ob	jectives:					
Brief outline	of the course	•				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assess	ed students: 0				
А	В	C	D	Е	FX(0)	FX(1)
0.0	0.0	0.0	0.0	0.0	0.0	0.0
Instructor: F	NDr. Alžbeta	Michalíková, H	PhD., doc. Mg	r. Ján Karabáš	ś, PhD.	
Last changed	1: 15.12.2021					
Approved by	doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: N	Aatej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain	-141 Cour	se name: Oper	rating Systems	s 1		
Form of ins Course type Recommend	truction: Lect e: A (A - Compuls	of instruction: cure / Practical sory courses, B - Co f periods: 26s ed		courses, C - Electiv	ve courses)	
Number of c	redits: 4					
Recommend	ed semester/ti	rimester: 4.				
Level: I., P						
Prerequisites	5:					
Course comp	oletion conditi	ions:				
Learning obj	jectives:					
Brief outline	of the course	•				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assess	ed students: 4				
А	В	C	D	Е	FX(0)	FX(1)
0.0	0.0	50.0	0.0	0.0	0.0	50.0
Instructor: d	oc. Ing. Jarmi	la Škrinárová, I	PhD.		•	
Last changed	1: 15.12.2021					
Approved by	v: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: N	Iatej Bel Univ	versity in Bansk	xá Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-151 Cour	rse name: Oper	rating Systems	s 2		
Form of ins Course type Recommend	truction: Lect	of instruction: ture / Practical sory courses, B - Co of periods: 13s ed		courses, C - Electiv	ve courses)	
Number of c	redits: 3					
Recommend	ed semester/ti	rimester: 5.				
Level: I., P						
Prerequisites						
Course comp	letion conditi	ions:				
Learning obj	ectives:					
Brief outline	of the course	•				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assess	ed students: 2				
А	В	C	D	Е	FX(0)	FX(1)
0.0	0.0	50.0	0.0	50.0	0.0	0.0
Instructor: d	oc. Ing. Jarmi	la Škrinárová, l	PhD.			5
Last changed	I: 15.12.2021					
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: M	latej Bel Univ	ersity in Bansk	tá Bystrica				
Faculty: Facu	lty of Natural	Sciences					
Code: 1e-ain-231Course name: Principles of Smart Cities							
Course type Recommend	ruction: Lect	ure / Seminar ory courses, B - Cor f periods: 26s		courses, C - Electiv	ve courses)		
Number of cr	edits: 4						
Recommende	d semester/tı	·imester: 3.					
Level: I., P							
Prerequisites							
Course comp	letion conditi	ons:					
Learning obj	ectives:						
Brief outline	of the course	:					
Recommende	d literature:						
Language of i	instruction:						
Notes:student	t time load:						
Course assess The final num		ed students: 3					
А	В	С	D	Е	FX(0)	FX(1)	
100.0	0.0	0.0	0.0	0.0	0.0	0.0	
Instructor: pr	of. Dr. Ing. M	liroslav Svítek,	Dr.			5	
Last changed	: 15.12.2021						
Approved by:	doc. Ing. Jar	mila Škrinárov	á, PhD.				

University: N	/latej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-153 Cour	se name: Profe	essional Pract	ice 1		
Form of ins Course type Recommend	and method o truction: Sem A (A - Compuls ded number o tudy: combine	inar ory courses, B - Co f periods: 26s	mpulsory elective	courses, C - Electi	ve courses)	
Number of c	redits: 10					
Recommend	ed semester/tr	imester: 5.				
Level: I., P						
Prerequisites						
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course					
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assesse	ed students: 2				
А	В	С	D	Е	FX(0)	FX(1)
0.0	0.0	50.0	50.0	0.0	0.0	0.0
Instructor:		I			·	
Last changed	I: 15.12.2021					
Approved by	doc. Ing. Jar	nila Škrinárov	á, PhD.			

University: N	/atej Bel Univ	ersity in Bansl	ká Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-161 Cour	se name: Prof	essional Pract	ice 2		
Form of ins Course type Recommend	truction: Sem	ory courses, B - Co f periods: 508		courses, C - Electi	ve courses)	
Number of c	redits: 20					
Recommend	ed semester/ti	imester: 6.				
Level: I., P						
Prerequisites	: KIN FPV/1e	-ain-153/21				
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course	:				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assesse	ed students: 1				
А	В	С	D	E	FX(0)	FX(1)
0.0	0.0	0.0	0.0	0.0	0.0	100.0
Instructor:			L		<u> </u>	
Last changed	1: 12.09.2023					
Approved by	: doc. Ing. Jar	mila Škrinárov	rá, PhD.			

University: N	latej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	lty of Natural	Sciences				
Code: 1e-ain-	122 Cour	se name: Prog	ramming 1			
Course type Recommend	Truction: Lect: A (A - Compuls	ure / Practical ory courses, B - Co f periods: 13s		courses, C - Electiv	ve courses)	
Number of cr	edits: 6					
Recommende	ed semester/ti	·imester: 2.				
Level: I., P						
Prerequisites	•					
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course	:				
Recommende	d literature:					
Language of i	instruction:					
Notes:studen	t time load:					
Course assess The final num	sment ber of assesse	ed students: 5				
A	В	С	D	Е	FX(0)	FX(1)
0.0	0.0	20.0	40.0	20.0	20.0	0.0
Instructor: R	NDr. Miroslav	v Melicherčík,	PhD., doc. Ing	g. Jarmila Škrij	nárová, PhD.	
Last changed	: 18.05.2022					
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: Mate	j Bel Univ	ersity in Bansk	tá Bystrica				
Faculty: Faculty	of Natural	Sciences					
Code: 1e-ain-131 Course name: Programming 2							
Type, extent and Form of instruc Course type: A Recommended Method of study	ction: Lecto (A - Compulso number of	ure / Practical ory courses, B - Co f periods: 26s		courses, C - Electiv	ve courses)		
Number of credi	ts: 5						
Recommended s	emester/tr	imester: 3.					
Level: I., P							
Prerequisites:							
Course completi	on conditi	ons:					
Learning objecti	ves:						
Brief outline of t	he course:	,					
Recommended li	iterature:						
Language of inst	ruction:						
Notes:student tir	ne load:						
Course assessme The final number	-	d students: 4					
A	В	С	D	Е	FX(0)	FX(1)	
0.0	25.0	25.0	25.0	25.0	0.0	0.0	
Instructor: Mgr.	Michal Va	gač, PhD., doc	. Ing. Jarmila	Škrinárová, Pł	nD.		
Last changed: 15	5.12.2021						
Approved by: do	oc. Ing. Jarr	nila Škrinárov	á, PhD.				

University: N	Aatej Bel Univ	ersity in Bansk	á Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-142 Cour	se name: Prog	ramming 3			
Form of ins Course type Recommend	and method o truction: Sem e: A (A - Compuls ded number o study: combine	inar ory courses, B - Cor f periods: 39s	mpulsory elective	courses, C - Electiv	ve courses)	
Number of c	redits: 4					
Recommend	ed semester/ti	rimester: 4.				
Level: I., P						
Prerequisites	s: KIN FPV/1e	-ain-131/21				
Course comp	oletion conditi	ons:				
Learning obj	jectives:					
Brief outline	of the course	:				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assesse	ed students: 1				
А	В	С	D	E	FX(0)	FX(1)
0.0	0.0	0.0	0.0	100.0	0.0	0.0
Instructor:	·	<u> </u>			· · · · · ·	
Last changed	1: 11.09.2023					
Approved by	v: doc. Ing. Jar	mila Škrinárova	á, PhD.			

University: N	Matej Bel Univ	ersity in Bansk	tá Bystrica				
Faculty: Fac	ulty of Natural	Sciences					
Code: 1e-ain-143Course name: Semestral Project							
Form of ins Course type Recomment	· •	inar ory courses, B - Cor f periods: 26s	mpulsory elective	courses, C - Electi	ve courses)		
Number of c	redits: 3						
Recommend	ed semester/t	rimester: 4.					
Level: I., P							
Prerequisites	s:						
Course com	pletion conditi	ons:					
Learning ob	jectives:						
Brief outline	of the course	•					
Recommend	ed literature:						
Language of	instruction:						
Notes:studer	nt time load:						
Course asses	sment mber of assess	ed students: 4					
А	В	С	D	Е	FX(0)	FX(1)	
0.0	25.0	25.0	25.0	0.0	25.0	0.0	
Instructor:		<u> </u>			·		
Last change	d: 15.12.2021						
Approved by	v: doc. Ing. Jar	mila Škrinárov	á, PhD.				

University: M	atej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facul	lty of Natural	Sciences				
Code: 1e-ain-2	247 Cour	se name: Soft	Computing			
• 1	ruction: Lect B (A - Compulse ed number o	ure / Seminar ory courses, B - Cor f periods: 26s		courses, C - Electiv	ve courses)	
Number of cr	edits: 4					
Recommende	d semester/tr	imester: 4.				
Level: I., P						
Prerequisites:						
Course compl	etion conditi	ons:				
Learning obje	ectives:					
Brief outline o	of the course:					
Recommende	d literature:					
Language of i	nstruction:					
Notes:student	time load:					
Course assess The final num		ed students: 0				
A	В	С	D	Е	FX(0)	FX(1)
0.0	0.0	0.0	0.0	0.0	0.0	0.0
Instructor: R	NDr. Alžbeta	Michalíková, I	PhD., doc. Ing	. Jarmila Škrir	hárová, PhD.	
Last changed:	: 15.12.2021					
Approved by:	doc. Ing. Jar	nila Škrinárov	á, PhD.			

University: N	/latej Bel Univ	ersity in Bansk	tá Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-144 Cour	se name: Soft	ware Engineer	ring		
Form of ins Course type Recommend	· •	ure / Seminar ory courses, B - Co f periods: 13s		courses, C - Electi	ve courses)	
Number of c	redits: 4					
Recommend	ed semester/tr	imester: 4.				
Level: I., P						
Prerequisites	:					
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course:	:				
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final num	sment nber of assesse	ed students: 4				
А	В	С	D	Е	FX(0)	FX(1)
0.0	25.0	50.0	25.0	0.0	0.0	0.0
Instructor: P	aedDr. Mgr. V	ladimír Siládi,	PhD., doc. In	g. Ľudovít Tra	ajteľ, PhD.	
Last changed	I: 15.12.2021					
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: Matej	Bel University	in Banská Bystr	rica		
Faculty: Faculty o	f Natural Scier	ices			
Code: 1e-ain-199	Course na	me: State Exam			
Type, extent and r Form of instruct Course type: A (A Recommended n Method of study:	ion: A - Compulsory cou umber of peri	rses, B - Compulsory	elective courses, C -	Elective courses)	
Number of credits	s: 10				
Recommended ser	mester/trimes	ter:			
Level: I., P					
Prerequisites:					
Course completion	n conditions:				
Learning objectiv	es:				
Brief outline of th	e course:				
Recommended lite	erature:				
Language of instr	uction:				
Notes:student tim	e load:				
Course assessmen The final number of	-	dents: 0			
A	В	С	D	E	FX(1)
0.0	0.0	0.0	0.0	0.0	0.0
Instructor:		I			1
Last changed: 15.	12.2021				
Approved by: doc	. Ing. Jarmila Š	Skrinárová, PhD.			

University: N	Aatej Bel Univ	ersity in Bansk	á Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain	-245 Cour	se name: Tech	nologies for V	/irtual and Au	gmented Realit	ty
Form of ins Course type Recommend	and method o truction: Prac e: B (A - Compuls ded number o study: combine	tical ory courses, B - Cor f periods: 26s	npulsory elective	courses, C - Electi	ve courses)	
Number of c	redits: 4					
Recommend	ed semester/tr	rimester: 4.				
Level: I., P						
Prerequisites	s: KIN FPV/1e	-ain-115/21				
Course comp	oletion conditi	ons:				
Learning obj	jectives:					
Brief outline	of the course					
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final nur	sment nber of assesse	ed students: 4				
А	В	С	D	Е	FX(0)	FX(1)
0.0	0.0	0.0	25.0	0.0	75.0	0.0
Instructor: P	aedDr. Patrik	Voštinár, PhD.			1	
Last changed	1: 15.12.2021					
Approved by	v: doc. Ing. Jar	mila Škrinárova	á, PhD.			

University: N	latej Bel Univ	ersity in Bansl	xá Bystrica			
Faculty: Facu	ulty of Natural	Sciences				
Code: 1e-ain-	-125 Cour	se name: Web	Technologies	1		
Form of ins Course type Recommend	· .	tical ory courses, B - Co f periods: 39s	mpulsory elective	courses, C - Electiv	ve courses)	
Number of c	redits: 6					
Recommende	ed semester/ti	rimester: 2.				
Level: I., P						
Prerequisites	•					
Course comp	letion conditi	ons:				
Learning obj	ectives:					
Brief outline	of the course					
Recommend	ed literature:					
Language of	instruction:					
Notes:studen	t time load:					
Course asses The final num	sment nber of assesse	ed students: 4				
А	В	С	D	Е	FX(0)	FX(1)
75.0	25.0	0.0	0.0	0.0	0.0	0.0
Instructor: P	aedDr. Patrik	Voštinár, PhD.,	, Mgr. Michal	Vagač, PhD.,	Mgr. Jozef Silá	iči
Last changed	I: 15.12.2021					
Approved by	: doc. Ing. Jar	mila Škrinárov	á, PhD.			

University: M	latej Bel Univ	ersity in Bansk	tá Bystrica							
Faculty: Facu	lty of Natural	Sciences								
Code: 1e-ain-2	233 Cour	Course name: Web Technologies 2								
Course type: Recommend	ruction: Prac B (A - Compulse	tical ory courses, B - Cor f periods: 26s	mpulsory elective o	courses, C - Electiv	ve courses)					
Number of cr	edits: 4									
Recommende	d semester/tr	imester: 3.								
Level: I., P										
Prerequisites	: KIN FPV/1e	-ain-125/21								
Course comp	letion conditi	ons:								
Learning obj	ectives:									
Brief outline	of the course:									
Recommende	d literature:									
Language of i	instruction:									
Notes:student	t time load:									
Course assess The final num		ed students: 4								
A	В	С	D	Е	FX(0)	FX(1)				
25.0	0.0	75.0	0.0	0.0	0.0	0.0				
Instructor: Pa	aedDr. Patrik	Voštinár, PhD.,	Ing. Robert C	Gallas, Mgr. Jo	zef Siláči					
Last changed	: 15.12.2021									
Approved by:	doc. Ing. Jari	nila Škrinárov	á, PhD.							

University: N	Aatej Bel Univ	ersity in Bansk	xá Bystrica							
Faculty: Facu	ulty of Natural	Sciences								
Code: 1e-ain-	-243 Cour	Course name: Web Technologies 3								
Form of ins Course type Recommend	· •	ure / Practical ory courses, B - Cor f periods: 13s		courses, C - Electiv	ve courses)					
Number of c	redits: 4									
Recommend	ed semester/tr	imester: 4.								
Level: I., P										
Prerequisites	: KIN FPV/1e	-ain-233/21								
Course comp	oletion conditi	ons:								
Learning obj	jectives:									
Brief outline	of the course	:								
Recommend	ed literature:									
Language of	instruction:									
Notes:studen	t time load:									
Course asses The final nur	sment nber of assesse	ed students: 0								
А	В	С	D	Е	FX(0)	FX(1)				
0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Instructor: P	aedDr. Patrik	Voštinár, PhD.,	Ing. Robert C	allas						
Last changed	1: 11.09.2023									
Approved by	v: doc. Ing. Jar	mila Škrinárov	á, PhD.							