

PLAN OF STUDIES

FACULTY: Information and Communication Technology

MAIN FIELD OF STUDY: Computer Engineering

EDUCATION LEVEL: second-level studies

FORM OF STUDIES: full-time studies

PROFILE: general academic

SPECIALIZATION: Internet Engineering (INE)

LANGUAGE OF STUDY: english

In effect since 2024/2025

Plan of studies structure (optionally)

1) in ECTS point layout

(space for scheme of plan)

2) in hourly layout

(space for scheme of plan)

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⁴University-wide subject /group of classes – enter O

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1. Set of obligatory and optional subjects and groups of classes in semestral arrangement

Semester 1

Obligatory subjects / groups of classes

Number of ECTS points 29

No.	Subject / groups of classes code	Name of subject / groups of classes (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of subject / groups of classes	Way ³ of crediting	Subject / groups of classes			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN ⁵ classes	BU ¹ classes			University -wide ⁴	Concerning scientific activities ⁵	Practical ⁶	Type ⁷
1	W11ITE-SM4001	Physics	1					K2ITE_W01	15	25	1		0,68	T/Z	Z	O			PD
2	W08W04-SM4002	Social Communication					1	K2ITE_U02 K2ITE_K01	15	50	2		0,68	T/Z	Z	O		P(1)	KO
3	W04ITE-SM4010	Computer Project Management (GK)	2		1		1	K2ITE_W06 K2ITE_U03 K2ITE_K02 K2ITE_K03	60	125	5		2,88	T/Z*	E (w)			P(2,5)	K
4	W04ITE-SM4017G	Optimization Methods: Theory and Applications (GK)	2				2	K2ITE_W05 K2ITE_W07 K2ITE_U08	60	125	5	5	2,72	T/Z*	Z(w)			P(2,5)	K
5	W04ITE-SM4018G	IT Applications in Business and Commerce (GK)	2				2	K2ITE_W05 K2ITE_K03 K2ITE_U03	60	125	5	5	2,88	T/Z*	Z(w)		DN	P(2,5)	K
6	W04ITE-SM4019G	Information Systems Modeling (GK)	2		1			K2ITE_W06 K2ITE_U04	45	75	3	3	2,04	T/Z*	Z (w)		DN	P(1,5)	K
7	W04ITE-SM4013	Discrete Mathematics (GK)	2				2	K2ITE_W01 K2ITE_U04	60	125	5		3,04	T/Z*	E (w)			P(2,5)	K
8	W04ITE-SM4020G	Research Skills and Methodologies (GK)	1				2	K2ITE_W03 K2ITE_K04	45	75	3	3	2,04	T/Z	Z		DN	P(2)	K
Total			12	0	2	6	4	–	360	725	29	16	16,96	–	–	–	–	P(14,5)	–

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⁴University-wide subject / group of classes – enter O

⁵DN - number of ECTS points assigned to the classes related to the University's academic activity in the discipline/disciplines to which the main field of study is assigned

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Optional subjects (minimum 15 hours in semester, 1 ECTS points)

No.	Subject / groups of classes code	Name of subject / groups of classes (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of subject / groups of classes	Way ³ of crediting	Subject / groups of classes			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN ⁵ classes	BU ¹ classes			University-wide ⁴	Concerning scientific activities ⁵	Practical ⁶	Type ⁷
1	SJO-SM0001	Foreing Language I		1				K2ITE_U01	15	30	1		0,63	T	Z	O		P (1)	KO
Total			0	1	0	0	0	–	15	30	1	0	0,63	–	–	–	-	P (1)	–

Altogether in semester

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Total number of ECTS points for DN classes ⁵	Number of ECTS points for BU classes ¹
lec	cl	lab	pr	sem					
12	1	2	6	4	375	755	30	16	17,59

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⁴University-wide subject /group of classes – enter O

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Semester 2

Obligatory subjects / groups of classes

Number of ECTS points 3

No.	Subject / groups of classes code	Name of subject / groups of classes (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of subject / groups of classes	Way ³ of crediting	Subject / groups of classes			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN ⁵ classes	BU ¹ classes			University -wide ⁴	Concerning scientific activities ⁵	Practical ⁶	Type ⁷
1	W04ITE-SM4021G	Secure systems and networks (GK)	2		1			K2ITE_W04 K2ITE_U04	45	75	3	3	2,04	T/Z*	Z (w)		DN	P(1)	K
Total			2	0	1	0	0	–	45	75	3	3	2,04	–	–	–	-	P (1)	–

Optional subjects / groups of classes (minimum 45 hours in semester, 2 ECTS points)

No.	Subject / groups of classes code	Name of subject / groups of classes (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of subject / groups of classes	Way ³ of crediting	Subject / groups of classes			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN ⁵ classes	BU ¹ classes			University -wide ⁴	Concerning scientific activities ⁵	Practical ⁶	Type ⁷
1	SJO-SM0002	Foreign Language II		3				K2ITE_U01	45	60	2		1,63	T	Z	O		P (2)	KO
Total			0	3	0	0	0	–	45	60	2	0	1,63	–	–	–	-	P (2)	–

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⁵DN - number of ECTS points assigned to the classes related to the University's academic activity in the discipline/disciplines to which the main field of study is assigned

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Optional subjects / groups of classes - Internet Engineering (minimum 285 hours in semester, 25 ECTS points)

No.	Subject / groups of classes code	Name of subject / groups of classes (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of subject / groups of classes	Way ³ of crediting	Subject / groups of classes			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN ⁵ classes	BU ¹ classes			University-wide ⁴	Concerning scientific activities ⁵	Practical ⁶	Type ⁷
1	W04ITE-SM4116	Application Programming – Java and XML Technologies (GK)	2	1	1			K2ITE_W09 K2ITE_U10	60	125	5	5	2,72	T/Z*	Z (w)		DN	P (2,5)	S
2	W04ITE-SM4117	Information Systems Analysis (GK)	2		2			K2ITE_W07 K2ITE_U08	60	125	5	5	2,88	T/Z*	E (w)		DN	P (3)	S
3	W04ITE-SM4120 G	Advanced Databases (GK)	2		2			K2ITE_W07 K2ITE_U09	60	125	5	5	2,72	T/Z*	Z(w)		DN	P (2,5)	S
4	W04ITE-SM4119	Softcomputing (GK)	2			2		K2ITE_W08 K2ITE_U08	60	125	5	5	2,88	T/Z*	Z (w)		DN	P (2)	S
5	W04ITE-SM4115	Multimedia and Computer Visualization (GK)	1			2		K2ITE_W07 K2ITE_U08	45	125	5	5	2,36	T/Z*	E (w)		DN	P (3)	S
Total			9	1	5	4	0	–	285	625	25	25	13,56	–	–	–	-	P (13)	-

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Altogether in semester

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Total number of ECTS points for DN classes ⁵	Number of ECTS points for BU classes ¹
lec	cl	lab	pr	sem					
11	4	6	4	0	375	760	30	28	17,23

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Semester 3

Obligatory subjects / groups of classes

Number of ECTS points 3

No.	Subject / groups of classes code	Name of subject / groups of classes (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of subject / groups of classes	Way ³ of crediting	Subject / groups of classes			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN ⁵ classes	BU ¹ classes			University-wide ⁴	Concerning scientific activities ⁵	Practical ⁶	Type ⁷
1	W08W04-SM4006	Entrepreneurship (GK)	1				1	K2ITE_W02 K2ITE_K02	30	75	3		1,36	T/Z	Z (w)	O		P (1,5)	KO
Total			1	0	0	0	1	–	30	75	3	0	1,36	–	–	–	–	P (1,5)	–

Optional subjects / groups of classes - Internet Engineering (minimum 345 hours in semester, 27 ECTS points)

No.	Subject / groups of classes code	Name of subject / groups of classes (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of subject / groups of classes	Way ³ of crediting	Subject / groups of classes			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN ⁵ classes	BU ¹ classes			University-wide ⁴	Concerning scientific activities ⁵	Practical ⁶	Type ⁷
1	W04ITE-SM4114	Internet Engineering Seminar					2	K2ITE_U05 K2ITE_U06	30	75	3	3	1,36	T/Z	Z		DN	P (3)	S
2	W04ITE-SM4113	Final Project						K2ITE_U06	165	275	11	11	1,84	T	Z		DN	P (12)	S
3	W04ITE-SM4121G	Application Programming – Data Mining and Data Warehousing (GK)	2		2	1		K2ITE_W07 K2ITE_U09	75	150	6	6	3,48	T/Z*	Z (w)		DN	P (4)	S
4	W04ITE-SM4122G	Application Programming – Mobile Computing (GK)	2		2		1	K2ITE_W09 K2ITE_U10	75	175	7	7	3,4	T/Z*	Z (w)		DN	P (4)	S
Total			4	0	4	1	3	–	345	675	27	27	10,08	–	–	–	–	P (23)	–

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Altogether in semester

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Total number of ECTS points for DN classes ⁵	Number of ECTS points for BU classes ¹
lec	cl	lab	pr	sem					
5	0	4	1	4	375	750	30	27	11,44

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2. Set of examinations in semestral arrangement

Subject / groups of classes code	Names of subjects / groups of classes ending with examination	Semester
W04ITE-SM4010	Computer Project Management	1
W04ITE-SM4013	Discrete Mathematics	1
W04ITE-SM4117	Information Systems Analysis	2
W04ITE-SM4115	Multimedia and Computer Visualization	2

3. Numbers of allowable deficit of ECTS points after particular semesters

Semester	Allowable deficit of ECTS points after semester
1	8
2	8

The deficit after semester 2 applies ONLY to courses/groups of courses not passed in semester 1 (all courses/groups of courses from semester 2 must be passed).

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Opinion of student government legislative body

.....
Date Name and surname, signature of student representative

.....
Date Dean's signature

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