

Domain: Computer Science and Information Technology**Curricula for the First Year (2012/2013)**

Type/Code	Courses	Fall Semester					Spring Semester					CP
		C	S	L	P	Ver	C	S	L	P	Ver	
F	Mathematics 1	3	2	-	-	E	-	-	-	-	-	5
F	Mathematics 2	3	2	-	-	E	-	-	-	-	-	5
F	Computer programming	2	-	2	-	E	-	-	-	-	-	5
D	Introduction to operating systems	2	-	2	-	E	-	-	-	-	-	5
D	Logical design	3	-	2	-	E	-	-	-	-	-	5
C	Foreign language 1	-	1	-	-	V	-	-	-	-	-	
F	Mathematics 3	-	-	-	-	-	3	2	-	-	E	5
F	Data structures	-	-	-	-	-	3	-	2	-	E	5
D	Basic electrical engineering	-	-	-	-	-	3	-	2	-	E	5
F	Numerical methods	-	-	-	-	-	3	-	2	-	E	5
F	Physics	-	-	-	-	-	3	-	2	-	E	5
C	Foreign language 2	-	-	-	-	-	-	2	-	-	V	2
D	Information processing											
D	Informatics tools	-	-	-	-	-	1	-	1	-	V	3
C	Communication techniques											
F	Computational physics											
F	Introduction to informatics											
F	Engineering graphics	1	-	1	-	V	-	-	-	-	-	3
F	Classical mechanics											
F	Biochemistry											
C	History of philosophy											
C	Logics											
C	Culture and civilization	1	1	-	-	V	-	-	-	-	-	2
C	Political doctrines											
C	History of religions											
	TOTAL	15	6	7	-	28	16	4	9	-	28	60
C	Physical education	-	-	1	-	V	-	-	1	-	V	2
C	Psychology of education	2	2	-	-	E						5
C	Pedagogy I						2	2	-	-	E	5

Rector,

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Tip/Cod	Courses	Fall Semester					Spring Semester					CP
		C	S	L	P	Ver	C	S	L	P	Ver	
D	Algorithms analysis	3	-	2	-	E	-	-	-	-	-	5
F	Object oriented programming	3	-	2	-	E	-	-	-	-	-	5
D	Introductory analog electronics	3	1	1	-	E	-	-	-	-	-	4
D	Introduction to computers structure and assembly languages	3	-	2	-	E	-	-	-	-	-	5
D	Systems theory	3	1	1	-	E	-	-	-	-	-	5
C	Foreign language 3	-	1	-	-	V	-	-	-	-	-	
D	Algorithm design	-	-	-	-	-	2	-	2	-	E	6
D	Programming paradigms	-	-	-	-	-	3	-	2	-	E	6
D	Communication protocols	-	-	-	-	-	3	-	2	-	E	6
D	Principles of computer systems I	-	-	-	-	-	3	-	2	-	E	6
D	Digital electronics	-	-	-	-	-	3	1	1	-	E	5
C	Foreign language 4	-	-	-	-	-	-	1	-	-	V	2
D	Data acquisition	-	-	-	-	-	2	-	1	-	V	3
D	Virtual instrumentation	-	-	-	-	-	-	-	-	-	-	
C	Cognitive philosophy	1	1	-	-	V	-	-	-	-	-	2
C	Political science											
C	Psihoinventica											
C	Technical culture philosophy											
	TOTAL	16	4	8	-	28	16	2	10	-	28	60
C	Physical education	-	1	-	-	V	-	1	-	-	V	2
F	Mathematics IV (elective)	2	1	-	-	V	-	-	-	-	-	3
C	Pedagogy II	2	2	-	-	E						5
F	Complements of Physics (elective)	2	1	-	-	V						2
C	Didactics						2	2	-	-	E	5
F	Mathematics V (elective)	-	-	-	-	-	2	1	-	-	V	3

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		C	S	L	P	Ver	C	S	L	P	Ver	
S	Parallel and distributed algorithms	3	-	2	-	E	-	-	-	-	-	5
D	Formal languages and automata	3	2	-	-	E	-	-	-	-	-	5
S	Local area networks	3	-	2	-	E	-	-	-	-	-	5
S	Principles of computer systems II	3	-	2	-	E	-	-	-	-	-	5
S	Introduction to computer graphics	3	-	2	-	E	-	-	-	-	-	5
S	Microprocessor based system design	-	-	-	-	-	3	-	2	-	E	5
S	Computer systems architecture	-	-	-	-	-	3	-	2	-	E	5
S	Operating systems	-	-	-	-	-	3	-	2	-	E	5
S	Data basis I	-	-	-	-	-	3	-	2	-	E	5
S	Software engineering	-	-	-	-	-	3	-	2	-	E	5
S	Computer systems engineering	-	-	-	-	-	3	-	2	-	E	5
C	Fundamental of economics	1	1	-	-	V	-	-	-	-	-	2
C	Business economics	-	-	-	-	-	-	-	-	-	-	-
C	Industrial marketing	-	-	-	-	-	1	1	-	-	V	2
C	Strategic marketing	-	-	-	-	-	-	-	-	-	-	-
D	Internship – 12 weeks of 30 h/week	-	-	-	-	-	-	-	-	-	A/R	6
	TOTAL	16	3	8	-	27	16	1	10	0	27	60
C	History of political thinking (elective)	-	-	-	-	-	2	1	-	-	V	3
S	Bioengineering (elective)	2	-	1	-	V	-	-	-	-	-	3
C	Computer assisted instruction	1	1	-	-	V	-	-	-	-	-	2
C	Practice of pedagogy I	-	3	-	-	V	-	-	-	-	-	3
C	Classroom management	-	-	-	-	-	1	1	-	-	E	3
C	Practice of pedagogy II	-	-	-	-	-	-	3	-	-	V	2
C	Pedagogy graduation exam – Level I	-	-	-	-	-	-	-	-	-	E	5
S	Computer assisted design of electronic modules (elective)	2	-	2	-	V	-	-	-	-	-	4
S	Computer assisted optimization of electronic modules (elective)						2	2	-	-	V	4

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		C	S	L	P	Ver	C	S	L	P	Ver	
C	Project management	1	1	-	-	V	-	-	-	-	-	3
C	Management fundamentals											
S	Diploma project preparation	-	-	-	-	-	-	-	-	12	-	12
Specialization area C1: Computer systems architecture												
S	Parallel architectures and processing	3	-	2	-	E	-	-	-	-	-	6
S	Multiprocessor systems	3	-	2	-	E	-	-	-	-	-	6
S	Design of computer networks	3	-	2	-	E	-	-	-	-	-	6
S	Optional course chosen from C2	3	-	2	-	E	-	-	-	-	-	6
S	Optional course chosen from C2,C3,C4,C5	3	-	2	-	E	-	-	-	-	-	6
S	VLSI	-	-	-	-	-	2	-	2	-	E	5
S	Design and deployment of distributed services	-	-	-	-	-	2	-	2	-	E	5
S	Optional course chosen from C2,C3,C4,C5	-	-	-	-	-	2	-	2	-	E	5
	TOTAL	16	1	10	-	27	6	-	6	12	24	60

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		C	S	L	P	Ver	C	S	L	P	Ver	
C	Project management	1	1	-	-	V	-	-	-	-	-	3
C	Management fundamentals											
S	Diploma project preparation	-	-	-	-	-	-	-	-	12	-	12
Specialization area C2: Embedded systems												
S	Microprocessors based systems	3	-	2	-	E	-	-	-	-	-	6
S	Signal processing	3	-	2	-	E	-	-	-	-	-	6
S	Embedded systems	3	-	2	-	E	-	-	-	-	-	6
S	Optional course chosen from C1	3	-	2	-	E	-	-	-	-	-	6
S	Optional course chosen from C1,C3,C4,C5	3	-	2	-	E	-	-	-	-	-	6
S	System testing	-	-	-	-	-	2	-	2	-	E	5
S	Fault-tolerant systems	-	-	-	-	-	2	-	2	-	E	5
S	Optional course chosen from C1,C3,C4,C5	-	-	-	-	-	2	-	2	-	E	5
	TOTAL	16	1	10	-	27	6	-	6	12	24	60

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		C	S	L	P	Ver	C	S	L	P	Ver	
C	Project management	1	1	-	-	V	-	-	-	-	-	3
C	Management fundamentals											
S	Diploma project preparation	-	-	-	-	-	-	-	-	12	-	12
Specialization area C3: System software development												
S	Data bases II	3	-	2	-	E	-	-	-	-	-	6
S	Compiler design	3	-	2	-	E	-	-	-	-	-	6
S	Computer networks software design	3	-	2	-	E	-	-	-	-	-	6
S	Artificial intelligence	3	-	2	-	E	-	-	-	-	-	6
S	Optional course chosen from C1,C2,C4,C5	3	-	2	-	E	-	-	-	-	-	6
S	Operating systems II	-	-	-	-	-	2	-	2	-	E	5
S	Software engineering tools	-	-	-	-	-	2	-	2	-	E	5
S	Optional course chosen from C1,C2,C4,C5	-	-	-	-	-	2	-	2	-	E	5
TOTAL		16	1	10	-	27	6	-	6	12	24	60

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		C	S	L	P	Ver	C	S	L	P	Ver	
C	Project management	1	1	-	-	V	-	-	-	-	-	3
C	Management fundamentals											
S	Diploma project preparation	-	-	-	-	-	-	-	-	12	-	12
Specialization area C4: Application software development												
S	Graphics processing systems	3	-	2	-	E	-	-	-	-	-	6
S	Artificial intelligence	3	-	2	-	E	-	-	-	-	-	6
S	Human-computer interaction	3	-	2	-	E	-	-	-	-	-	6
S	Integrated applications for enterprises	3	-	2	-	E	-	-	-	-	-	6
S	Optional course chosen from C1,C2,C3,C5	3	-	2	-	E	-	-	-	-	-	6
S	Machine learning	-	-	-	-	-	2	-	2	-	E	5
S	CAD/CASE systems	-	-	-	-	-	2	-	2	-	E	5
S	Optional course chosen from C1,C2,C3,C5	-	-	-	-	-	2	-	2	-	E	5
	TOTAL	16	1	10	-	27	6	-	6	12	24	60

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		C	S	L	P	Ver	C	S	L	P	Ver	
C	Project management	1	1	-	-	V	-	-	-	-	-	3
C	Management fundamentals											
S	Diploma project preparation	-	-	-	-	-	-	-	-	12	-	12
Specialization area C5: Information technology												
S	Database utilization	3	-	2	-	E	-	-	-	-	-	6
S	Management of software projects	3	-	2	-	E	-	-	-	-	-	6
S	Performance evaluation	3	-	2	-	E	-	-	-	-	-	6
S	Integration of informatics systems	3	-	2	-	E	-	-	-	-	-	6
S	Optional course chosen from C1,C2,C3,C4	3	-	2	-	E	-	-	-	-	-	6
S	WEB programming	-	-	-	-	-	2	-	2	-	E	5
S	E-Commerce	-	-	-	-	-	2	-	2	-	E	5
S	Optional course chosen from C1,C2,C3,C4	-	-	-	-	-	2	-	2	-	E	5
TOTAL		16	1	10	-	27	6	-	6	12	24	60

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