

FACULTY OF ENGINEERING

Field: **ENGINEERING SCIENCES**Domain of license: **COMPUTERS AND INFORMATION TECHNOLOGY**Specialization: **COMPUTERS**Length: **4 Years (8 Semesters)**, Mode of study: **Full-Time**Diploma: **BSc ENGINEER**, Level of qualification: **Bachelor of Science**

Nr. crt.	Course name	1st YEAR										Verification E,C,P		
		Semester 1 (14 weeks)					Semester 2 (14 weeks)							
		C	S	L	P	CR	C	S	L	P	CR			
I.	FUNDAMENTAL COURSES													
1	Mathematical Analysis (1)	2	2			4								E1
2	Algebra, Analytical and Differential Geometry	2	2			4								E1
3	Physics (1)	2		1		4								E1
4	Computer Programming (1)	2	1	2		6								E1
5	Chemistry	2		1		3								E1
6	Technical Graphics	1		1		3								C1
7	Mathematical Analysis (2)						2	1				4		E2
8	Physics (2)						2		1			3		E2
9	Computer Programming (2)						2	2	2			7		E2
10	Computer Assisted Graphics						1		2			3		C2
II.	DOMAIN SPECIFIC COURSES													
11	Basics of Computers	2		2		4								C1
12	Electrotechnics (1)						2	2				4		E2
13	Basics of Mechanical Engineering and Robotics						2		1			4		E2
III.	COMPLEMENTARY COURSES													
14	English (1)		2			2								C1
15	English (2)							2				2		C2
17	Sports (1)		1			0		1				0		A/R 2
18	European Culture and Civilization						2	1				3		C2
IV.	OPTIONAL COURSES													
19	Communication Skills	1	1			2								C1
	TOTAL for C,S,L,P,CR	13	8	7	0	30	13	9	6	0	30			
	TOTAL hours / week		28					28						
	TOTAL Exams (E)		5					5						
	TOTAL Other Forms of Verification (C, P, A/R)		3					3						
	TOTAL ECTS Credits / year							60						

FACULTY OF ENGINEERING

Field: **ENGINEERING SCIENCES**

Domain of license: **COMPUTERS AND INFORMATION TECHNOLOGY**

Specialization: **COMPUTERS**

Length: **4 Years (8 Semesters)**, Mode of study: **Full-Time**

Diploma: **BSc ENGINEER**, Level of qualification: **Bachelor of Science**

Nr. crt.	Course name	2nd YEAR										Verification E,C,P
		Semester 3 (14 weeks)					Semester 4 (14 weeks)					
		C	S	L	P	CR	C	S	L	P	CR	
I.	FUNDAMENTAL COURSES											
1	Special Mathematics	2	2			4						E3
2	Engineering Calculation Systems						2		2		4	C4
II.	DOMAIN SPECIFIC COURSES											
3	Electrotechnics (2)	2		2		4						E3
4	Object Oriented Programming (1)	2		2		5						E3
5	Algorithms Programming	2		2		5						E3
7	Digital Integrated Circuits	2		2		5						E3
6	Electronic Devices (1)	2		2		5						C3
8	Object Oriented Programming (2)						2		2		4	E4
9	Databases						2		2		4	E4
10	Operating Systems (1)						2		2		4	E4
11	Electronic Devices (2)						2		1		3	E4
12	Digital Electronics						2		1		3	E4
13	Basics of Graphics Programming						2		2		3	C4
14	Practical Training (3 weeks x 28 hours/week)										3	C4
III.	COMPLEMENTARY COURSES											
15	English (3)		2			2						C3
16	English (4)							2			2	C4
17	Sports (2)		1			0		1			0	A/R 4
IV.	OPTIONAL COURSES											
18	Managerial Culture						1		1			C4
19	Modeling using SPICE						2		2			C4
TOTAL for C,S,L,P,CR		12	5	10	0	30	14	3	12	0	30	
TOTAL hours / week		27					29					
TOTAL Exams (E)		5					5					
TOTAL Other Forms of Verification (C, P, A/R)		2					4					
TOTAL ECTS Credits / year		60										

FACULTY OF ENGINEERING

Field: **ENGINEERING SCIENCES**Domain of license: **COMPUTERS AND INFORMATION TECHNOLOGY**Specialization: **COMPUTERS**Length: **4 Years (8 Semesters)**, Mode of study: **Full-Time**Diploma: **BSc ENGINEER**, Level of qualification: **Bachelor of Science**

Nr. crt.	Course name	3rd YEAR										Verification E,C,P	
		Semester 5 (14 weeks)					Semester 6 (14 weeks)						
		C	S	L	P	CR	C	S	L	P	CR		
I. DOMAIN SPECIFIC COURSES													
1	Communication Protocols	2		1		4							E5
2	Microcontrollers	2		1		4							E5
3	Operating Systems (2)	2		2		4							E5
4	Artificial Inteligence	2		2		4							E5
5	Measuring Techniques	2		1		3							C5
6	Local Area Networks						2		2		4		E6
7	Computing Systems Architecture						2		1		3		E6
8	Systems Theory						2		2		4		E6
9	Data Acquistion and Processing						2		1	1	4		C6
II. SPECIALITY COURSES													
10	Database Management Systems	2		2		4							E5
11	Database Management Systems - Project				1	1							P5
12	Data Acquisition Systems	2		1		3							C5
13	Internet Technologies						2		2		3		E6
14	Input-Output Systems						2		1		3		E6
15	Programmable Logical Devices (1)						2		1		3		C6
16	Administration of Database Management Systems						2		1		3		C6
17	Practical Training (3 weeks x 28 hours/week)										3		C6
III. COMPLEMENTARY COURSES													
18	Management and marketing	2	1			3							C5
IV. OPTIONAL COURSES													
19	CAD Technics of Electronic Modules	2		2	1	3							C5
20	Leadership and Organisational Culture						2	1			3		C6
TOTAL for C,S,L,P,CR		16	1	10	1	30	16	0	11	1	30		
TOTAL hours / week		28					28						
TOTAL Exams (E)		5					5						
TOTAL Other Forms of Verification (C, P, A/R)		4					4						
TOTAL ECTS Credits / year		60											

FACULTY OF ENGINEERING

Field: **ENGINEERING SCIENCES**

Domain of license: **COMPUTERS AND INFORMATION TECHNOLOGY**

Specialization: **COMPUTERS**

Length: **4 Years (8 Semesters)**, Mode of study: **Full-Time**

Diploma: **BSc ENGINEER**, Level of qualification: **Bachelor of Science**

Nr. crt.	Course name	4th YEAR										Verification E,C,P	
		Semester 7 (14 weeks)					Semester 8 (14 weeks)						
		C	S	L	P	CR	C	S	L	P	CR		
I. DOMAIN SPECIFIC COURSES													
1	Software Engineering	2		1		4							E7
II. SPECIALITY COURSES													
2	Object Oriented Programming Systems (1)	2		2	1	5							E7
3	Web Applications Programming	2		2	1	5							E7
4	Programmable Logical Devices (2)	2		2		4							E7
5	Management of Software Projects / Image Compression Technics	2		1		4							E7
6	Web Design and Graphics / CAD Systems	2		2		4							C7
7	Distributed Applications / Parallel Architectures	2		2		4							C7
8	Object Oriented Programming Systems (2)						2		2			4	E8
9	Computer Systems Security / Concurrent Programming						2		2			4	E8
10	Integrated Information Systems / Design with Microprocessors						2		2			4	E8
11	Linux Systems / Computer Assisted Process Management						2		2			4	E8
12	Embedded Systems / Intelligent Sensors and Networks						2		2			4	E8
13	Practice for Completing the License Project (14 weeks x 8 hours/week)										8	10	C8
III. OPTIONAL COURSES													
14	Digital Signals Processing	2		2		4							C7
15	European Integration Policies						2	1				3	C8
TOTAL for C,S,L,P,CR		14	0	12	2	30	10	0	10	8		30	
TOTAL hours / week		28					28						
TOTAL Exams (E)		5					5						
TOTAL Other Forms of Verification (C, P, A/R)		2					1						
TOTAL ECTS Credits / year		60											

Legend:

Activities: C - Course, S - Seminar, L - Laboratory, P - Project

ECTS Credits: CR - No. of ECTS credits

Verifications: E - Exam, C - Colloquium, P - Project, A/R - Admitted/Rejected (only for Sports)

Example of verification: E2 means "Exam in the 2nd Semester"