

Engineers - IF, 4 years x 2 sem./year x 14 weeks./sem. x 28 hours/week., 4 weeks. main exam's sessions/sem.

STUDY PLAN
 valid beginning with academic year 2011 - 2012

No.	FIRST YEAR		Courses code	Semester 1				Semester 2				Prepare hours	Credit points		Ex., C., V.		No. of hours			
	Courses			C	S	L	P	C	S	L	P		Sem. 1	Sem. 2	Sem. 1	Sem. 2	Class	Apl.	Total	
1.	Chemistry		2BB1OF01	2	-	2	-	-	-	-	-	2	4	-	E ₁	-	28	28	56	
2.	Materials science and engineering		2BB1OD02	3	-	2	-	-	-	-	-	2.5	5	-	E ₁	-	42	28	70	
3.	Mathematical analysis		2BB1OF03	2	2	-	-	-	-	-	-	2	5	-	E ₁	-	28	28	56	
4.	Descriptive geometry		2BB1OF04	2	-	2	-	-	-	-	-	1.5	4	-	C ₁	-	28	28	56	
5.	General economy		2BB1OX05	2	1	-	-	-	-	-	-	1	3	-	C ₁	-	28	14	42	
6/7.	Computer progr. and use I,II		2BB1/2OF06/07	1	-	2	-	1	-	2	-	1	3	4	C ₁	E ₂	28	56	84	
8/9.	Mechanics I,II		2BB1/2OD08/09	2	-	1	-	2	1	1	-	1	4	4	E ₁	E ₂	56	42	98	
10/11.	Optional course OP11 I,II		2BB1/2AX10/11	-	2	-	-	-	2	-	-	1	1	2	C ₁	C ₂	-	56	56	
12.	Materials technology		2BB2OD12	-	-	-	-	3	-	2	-	2.5	-	5	-	E ₂	42	28	70	
13.	Algebra, analytical and differential geom.		2BB2OF13	-	-	-	-	2	2	-	-	2	-	5	-	E ₂	28	28	56	
14.	Physics		2BB2OF14	-	-	-	-	2	-	2	-	2	-	4	-	E ₂	28	28	56	
15.	Technical Drawing		2BB2OF15	-	-	-	-	1	-	2	-	1.5	-	4	-	C ₂	14	28	42	
16.	Optional course OP 12		2BB2AX16	-	-	-	-	2	1	-	-	1	-	2	-	C ₂	28	14	42	
TOTAL hours C, S, L,P/week.				14	5	9	-	13	6	9	-	12	12	30	30	4E+4C	5E+3C	378	406	784
17/18.	Sport I,II		2BB1/2OX17/18	-	2	-	-	-	2	-	-	-	-	-	-	A/R	-	56	56	

No.	SECOND YEAR		Courses code	Semester 3				Semester 4				Prepare hours	Credit points		Ex., C., V.		No. of hours			
	Courses			C	S	L	P	C	S	L	P		Sem. 1	Sem. 2	Sem. 1	Sem. 2	Class	Apl.	Total	
19.	Optional subject OP 21		2BB3AX19	2	-	1	-	-	-	-	-	1	3	-	C ₃	-	28	14	42	
20.	Advanced mathematics		2BB3OF20	2	2	-	-	-	-	-	-	2	4	-	E ₃	-	28	28	56	
21.	Numerical methods		2BB3OF21	2	2	-	-	-	-	-	-	2	4	-	E ₃	-	28	28	56	
22.	Mechanisms		2BB3OD22	3	-	2	1	-	-	-	-	2.5	7	-	E ₃	-	42	42	84	
23/24.	Infographics (CAD) I, II		2BB3/4OF23/24	1	-	2	-	1	-	2	-	1	3	3	C ₃	C ₄	28	56	84	
25/26.	Materials strength and elasticity theory elements I,II		2BB3/4OD25/26	3	1	2	-	2	1	1	-	2,5	2	6	5	E ₃	E ₄	70	70	140
27/28.	Optional course OP11 III,IV		2BB3/4AX27/28	-	2	-	-	-	2	-	-	1	1	2	2	C ₃	C ₄	-	56	56
29.	Vibrations		2BB4OD29	-	-	-	-	2	-	2	-	2	-	4	-	E ₄	28	28	56	
30.	Tolerance and dimension control		2BB4OD30	-	-	-	-	2	-	2	-	2	-	4	-	E ₄	28	28	56	
31.	Basics of surface generation on machine tools		2BB4OD31	-	-	-	-	3	-	2	-	2.5	-	5	-	E ₄	42	28	70	
32.	Machine parts I		2BB4OD32	-	-	-	-	2	-	1	-	1.5	-	3	-	C ₄	28	14	42	
33.	Optional course OP 22		2BB4AS33	-	-	-	-	2	1	-	-	1	-	3	-	C ₄	28	14	42	
34.	Practical training II, 3x40 hours/week		2BB4OD34	-	-	-	-	-	-	-	-	-	-	2	-	C ₄	-	120	120	
TOTAL hours C, S, L,P/week.				13	7	7	1	14	4	10	-	12	12	29	31	4E+3C	4E+5C	378	526	904

No.	THIRD YEAR		Courses code	Semester 5				Semester 6				Prepare hours	Credit points		Ex., C., V.		No. of hours			
	Courses			C	S	L	P	C	S	L	P		Sem. 1	Sem. 2	Sem. 1	Sem. 2	Class	Apl.	Total	
35.	Fluid mechanics and hydraulic machines		2BB5OD35	3	1	1	-	-	-	-	2	5	-	E ₅	-	42	28	70		
36.	Thermal engineering and machines		2BB5OD36	3	-	2	-	-	-	-	2	5	-	E ₅	-	42	28	70		
37.	Electrical engineering and machines		2BB5OD37	3	-	2	-	-	-	-	2	5	-	E ₅	-	42	28	70		
38.	Finite elements analysis		2BB5OS38	2	-	2	-	-	-	-	2	4	-	C ₅	-	28	28	56		
39.	Optional course OP 31		2BB5AS39	2	-	1	-	-	-	-	1	3	-	C ₅	-	28	14	42		
40.	Machine parts II		2BB5OD40	2	-	2	2	-	-	-	3	7	-	E ₅	-	28	56	84		
41.	Industrial electronics		2BB6OD41	-	-	-	-	2	-	2	-	1	-	4	-	C ₆	28	28	56	
42.	Tribology		2BB6OD42	-	-	-	-	2	1	-	-	1.5	-	3	-	E ₆	28	14	42	
43.	Hydraulic and pneumatic drives		2BB6OS43	-	-	-	-	2	-	2	-	2	-	4	-	E ₆	28	28	56	
44.	Technology of cold pressing		2BB6OS44	-	-	-	-	3	-	2	2	3.5	-	8	-	E ₆	42	56	98	
45.	Thermal treatments		2BB6OD45	-	-	-	-	2	1	-	-	1	-	3	-	C ₆	28	14	42	
46.	Cutter Tools Design		2BB6OD46	-	-	-	-	3	-	2	2	3	-	7	-	E ₆	42	56	98	
47.	Practical training III,3x40 hours/week		2BB6OS47	-	-	-	-	-	-	-	-	-	-	2	-	C ₆	-	120	120	
TOTAL hours C, S, L,P/week.				15	1	10	2	15	3	8	2	12	12	29	31	4E+2C	4E+4C	406	498	904

No.	FORTH YEAR		Courses code	Semester 7				Semester 8				Prepare hours	Credit points		Ex., C., V.		No. of hours			
	Courses			C	S	L	P	C	S	L	P		Sem. 1	Sem. 2	Sem. 1	Sem. 2	Class	Apl.	Total	
48.	Technological Devices		2BB7OD48	3	-	1	1	-	-	-	-	3	6	-	E ₇	-	42	28	70	
49.	Systems theory and automation		2BB7OS49	2	-	2	-	-	-	-	-	1.5	4	-	E ₇	-	28	28	56	
50.	Design of Machine - Tools		2BB7OD50	3	-	2	2	-	-	-	-	3	7	-	E ₇	-	42	56	98	
51.	Unconventional Technologies		2BB7OS51	2	-	1	-	-	-	-	-	1	3	-	C ₇	-	28	14	42	
52.	Optional course OP41		2BB7AS52	2	-	2	-	-	-	-	-	1.5	4	-	C ₇	-	28	28	56	
53/54.	Machine Building Technology I,II		2BB7/8OS53/54	3	-	2	-	2	-	1	2	3,5	6	5	E ₇	E ₈	70	70	140	
55.	Basics of Computer Assisted Tech. Design		2BB8OD55	-	-	-	-	1	-	-	2	1.5	-	3	-	E ₈	14	28	42	
56.	Industrial Manipulators and Robots		2BB8OS56	-	-	-	-	2	-	1	-	1.5	-	3	-	E ₈	28	14	42	
57.	Optional course OP 42		2BB8AD57	-	-	-	-	2	1	-	-	2	-	3	-	C ₆	28	14	42	
58.	Optional course OP43		2BB8AS58	-	-	-	-	2	1	1	-	2.5	-	4	-	E ₈	28	28	56	
59.	Plastics and Composite Materials Technology		2BB8OS59	-	-	-	-	1	-	-	1	1	-	2	-	C ₈	14	14	28	
60.	Elaboration of graduation paper		2BB8OS61	-	-	-	-	-	-	-	8	-	-	10	-	C ₈	-	112	112	
TOTAL hours C, S, L,P/week.				15	-	10	3	10	2	3	13	12	12	30	30	4E+2C	4E+2C	350	434	784

Annex 1 OPTIONAL COURSES						
An	Cod	Courses				
1.2	OP11	English	French	German	Russian	Spanish
1	OP12	History of Culture and Civilization			Logics	
2	OP21	Labor Law and Economic Legislation			Economic Management Systems	
3	OP22	Basics of Experimental Research			Technologies and Equipment Control	
3	OP31	Industrial Management			Economic Analysis of Production Systems	
4	OP41	Industrial Transport Equipment			Flexible Production Systems	
4	OP42	Quality Control and Insurance			Ecology and the Environment	
4	OP43	Products Reliability and Maintenance			Operational Availability of Technological Systems	

ANNEX 2 Courses facultative		Tip disc	Sem.	C	S	L	Prepare hours	Credit points		Ex., Cv.		No. of hours		
												Class	Apl.	Total
61.	Educational Psychology	X	2	2	-	2	2	-	5	-	C ₂	28	28	56
62.	Introduction to Pedagogy + Curriculum Theory and Method	X	3	2	-	1	1.5	4	-	C ₃	-	28	14	42
63.	Theory and Method of Training+Evaluation Theory and Method	X	4	2	-	1	1.5	-	4	-	C ₄	28	14	42
64.	Didactics of specialty	X	5	2	-	1	1.5	4	-	C ₅	-	28	14	42
65/66.	Pedagogical Practice I,II	X	6	7	-	4/4	2/2	8	-	C ₇	-	-	112	112
67.	Technical Statistics	S	2	2	1	-	1.5	3	-	-	C ₂	28	14	42
68/69	Sport III,IV	X	3	4	-	2/2	-	-	-	A/R	A/R	-	56	56
70...73	Foreign Languages V,...,VIII	X	5...8	-	-	2	1.....1	2	2	C ₆	C ₈	-	112	112
74.	Creativity and Inventions	S	6	2	-	1	1.5	-	3	-	C ₆	28	14	42
75.	Ergonomics	S	7	2	-	1	1.5	3	-	C ₇	-	28	14	42

Legend: C – class; S – seminar; L – laboratory; P – project; Ex. (E1...8) – exam in semester 1...8; Cv. (C1...8) – colloquy in semester 1...8

RECTOR,
Prof.univ.dr.ing.mat. POP EMIL

DEAN,
Prof.univ.dr.ing. POANTA ARON