



Educational Plans / Study Plans



Domain: Electrical engineering

Study program: Electrical Engineering and Computers

N.O.	Discipline code	Discipline name	ECTS	Hours per week				Evaluation (E - Exam / C - Coclovium)
				Lecture	Tutorial	Lab work	Project	
1st Year / 1st Semester								
1	UPB.01.F.01.O.301	Linear algebra, analytical and differential geometry	6	3	2			E
2	UPB.01.F.01.O.302	Calculus / Mathematical analysis	6	3	2			E
3	UPB.01.F.01.O.303	Chemistry	3	2		1		E
4	UPB.01.F.01.O.304	Computer aided graphics	4	2	1	1		C
5	UPB.01.F.01.O.305	Computers programming and programming languages I	4	2		2		E
6	UPB.01.C.01.O.306	Physical education and sport I	3		2			C
7	UPB.01.C.01.O.307	Foreign language I (english)	4	2	1			C
1st Year / 2nd Semester								
1	UPB.01.F.02.O.310	Special mathematics	6	3	2			E
2	UPB.01.F.02.O.311	Physics	6	3	2	1		E
3	UPB.01.S.02.O.312	Fundamentals of electrotechnics	6	3	2	1		E
4	UPB.01.F.02.O.313	Computers programming and programming languages II	5	2		2		E
5	UPB.01.C.02.O.314	Physical education and sport II	3		2			C
6	UPB.01.C.02.O.315	Foreign language II	4	2	1			C
2nd Year / 1st Semester								
1	UPB.01.S.03.O.318	Computer architecture	4	2		1		C
2	UPB.01.D.03.O.319	Digital systems	4	2		2		C
3	UPB.01.D.03.O.320	Electrical circuit theory	6	3	1	1		E
4	UPB.01.D.03.O.321	Electronics I	4	2	1	1		E
5	UPB.01.F.03.O.322	Numerical methods	5	2		2		E
6	UPB.01.S.03.O.323	Database	4	2		2		E
2nd Year / 2nd Semester								
1	UPB.01.D.04.O.328	Systems and control theory	4	2		1		E
2	UPB.01.S.04.O.329	CAD for electrical engineering	5	2		1	1	C
3	UPB.01.S.04.O.330	Electrical circuits simulation	5	2		2		C
4	UPB.01.D.04.O.331	Electronics II	4	2	1	1		E
5	UPB.01.D.04.O.332	Electromagnetic field theory	6	3	1	1	1	E
6	UPB.01.D.04.O.333	Electrical and electronic measurements	6	3		2		E
3rd Year / 1st Semester								
1	UPB.01.D.05.O.336	Electric equipment	6	3		2	1	E
2	UPB.01.D.05.O.337	Static power converters	4	2		1		E
3	UPB.01.D.05.O.338	Electrical machines	6	3		2	1	E
4	UPB.01.S.05.O.339	Computer networks	3	1		1		C
5	UPB.01.D.05.O.340	Electrotechnical materials	6	3		2		E
6	UPB.01.S.05.O.341	Soft architectures and programming on integrated systems I	2	1		1		C



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3rd Year / 2nd Semester								
1	UPB.01.S.06.0.347	Object oriented programming	3	2		2		C
2	UPB.01.S.06.0.348	Digital signal processing	4	2		2	1	E
3	UPB.01.D.06.0.349	Electric drives	5	3		2	1	E
4	UPB.01.D.06.0.350	Programmable logic controllers	3	2		2		E
5	UPB.01.D.06.0.351	Microprocessor systems	4	2	1	1		E
6	UPB.01.S.06.0.352	Advanced production systems	3	2		1		C
4th Year / 1st Semester								
1	UPB.01.D.07.0.358	Energy sources	5	2	1	1		E
2	UPB.01.S.07.0.359	Electrical installations	4	2		2		E
3	UPB.01.S.07.0.360	Optimization techniques in electrical engineering	4	2		1	1	C
4	UPB.01.S.07.0.361	Soft architectures and programming on integrated systems II	4	2		1		C
4th Year / 2nd Semester								
1	UPB.01.D.08.0.369	Quality and reliability	4	2		2		C
2	UPB.01.D.08.0.370	Electromagnetic compatibility	4	2		2		C
3	UPB.01.S.08.0.371	Electric and electronic equipment for vehicles	4	2		1		C
4	UPB.01.D.08.0.372	Management	3	2			1	C
5	UPB.01.D.08.0.373	Production, transmission and distribution of electricity	4	2	1	1		C
6	UPB.01.S.08.0.374	Diploma project internship	2	60 hours				C
7	UPB.01.S.08.0.375	Diploma project elaboration	4				4	C