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Mechanical Engineering Faculty in Slavonski Brod



STUDY PROGRAM

UNDERGRADUATE STUDY: MECHANICAL ENGINEERING

Slavonski Brod, 31. March 2010.

3.1. The list of compulsory and elective subjects of undergraduate study

During six semesters of the university undergraduate studies in Mechanical Engineering, general technical and engineering skills are acquired.

Semester I

Course	L	E	ECTS	S	Exam	Code number
Mathematics I	3	3	7	M	*	P 101
Materials I	2	2	5	M	*	P 103
Mechanics I	3	3	7	M	*	P 102
Technical Drawing and Computer Graphics	3	3	8	M	**	P 104
Physical and Health Education I	0	2	1	M	**	P 106
Technical Foreign Language I	1	1	2	O	**	
	12	14	30		3	

Technical Foreign Language I	L	E	ECTS	S	Code number
Technical English Language I	1	1	2	O	P 307
Technical German Language I	1	1	2	O	P 308

Preparatory courses	L	E	ECTS	Code number
Physics	2	0	P	P 111
Mathematics	1	1	P	P 109
Introduction of Mechanical Engineering	1	0	P	P 110

Interpreter abbreviation:

L – Lectures, E – Exercises, S – Status (M – Mandatory, O – Optional, P – Preparatory course)

* Oral or written exam; ** Knowledge verification (program, seminary, colloquy, test)

Semester II

Course	L	E	ECTS	S	Exam	Code number
Electrical Engineering	2	2	5	M	*	P 304
Materials Testing and Properties	2	1	3	M	*	P 608
Mathematics II	3	3	7	M	*	P 201
Mechanics II	3	3	6	M	*	P 202
Computer Aided Preparation and Production	2	3	6	M	**	P 205
Physical and Health Education II	0	2	1	M	**	P 206
Technical Foreign Language II	1	1	2	O	**	
	13	15	30		4	

Technical Foreign Language II	L	E	ECTS	S	Code number
Technical English Language II	1	1	2	O	P 408
Technical German Language II	1	1	2	O	P 409

Semester III

Course	P	V	ECTS	S	Ispit	Šifra
Strength of Materials	2	2	5	M	*	P 203
Design Elements I	3	2	5	M	*	P 302
Mathematics III	2	2	5	M	*	P 301
Materials II	2	2	5	M	*	P 204
Manufacturing Procedures I	4	2	7	M	*	P 303
Physical and Health Education III	0	2	1	M	**	P 306
Technical Foreign Language III	1	1	2	O	**	
	14	13	30		5	

Technical Foreign Language III	L	E	ECTS	S	Code number
Technical English Language III	1	1	2	O	P 506
Technical German Language III	1	1	2	O	P 507

Semester IV

Course	L	E	ECTS	S	Exam	Code number
Design Elements II	2	2	5	M	*	P 401
Maintenance	2	2	5	M	*	P 721
Manufacturing Procedures II	4	2	7	M	*	P 403
Thermodynamics	3	3	7	M	*	P 305
Physical and Health Education IV	0	2	1	M		P 407
Industrial practice ¹⁾	0	5	5	M		
	11	16	30		4	

¹⁾ Industrial practice (1 month)

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Semester V

Course	L	E	ECTS	S	Exam	Code number
Automation	2	2	5	M	*	P 404
Quantitative Methods	2	2	5	M	*	P 605
Fluid Mechanics	3	2	6	M	*	P 501
Machine Tools	2	1	4	M	*	P 504
Manufacturing Procedures III	4	2	7	M	*	P 503
Optional courses	2	1	3	O	**	
	15	10	30		5	

Optional courses	L	E	ECTS	S	Code number
Products Assemblage	2	1	3	O	D 791
Pneumatic and Hydraulic Systems	2	1	3	O	P 610
Computer Programs	2	1	3	O	D 1025
University optional course	2	1	3	O	P 505
Probability and Statistics	2	1	3	O	P 513

Semester VI

Course	L	E	ECTS	S	Exam	Code number
Tools and Devices I	2	1	3	M	*	P 602
Production and Operations Management	3	3	7	M	*	P 502
Programming of CNC Machines and Robots	2	2	5	M	*	P 603
Theory and Technique of Measurements	2	1	3	M	*	P 512
Heat Treatment	2	2	5	M	*	P 754
Final project	0	5	7	M	**	P 720
	11	14	30		5	

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