

### 3.2. List of courses

#### Joint fundamental courses for the scientific field of Electrical Engineering (enrolled in semester 1)

Code	Lecturer	Course	Workload Total	L	S, LP	ECTS
ZZT101	R. Galić	Probability and Statistics - Application	45	30	15	6
ZZT102	R. Scitovski	Mathematical Programming in Applied Research	45	30	15	6
ZZT103	H. Babić	Signal Theory	45	30	15	6
ZZT104	T. Marošević	Linear Integral and Discrete Transformations	45	30	15	6
ZZT105	Z. Lacković	Technical Systems Management	45	30	15	6
ZZT106	T. Hunjak	Decision making theory	45	30	15	6

L – lectures

S, LP- seminar paper, laboratory practice

#### Scientific field: Electrical Engineering Branch: Power Engineering

#### Branch fundamental courses (enrolled in semester 2)

Code	Lecturer	Course	Workload Total	L	S, LP	ECTS
ZETE01	L. Jozsa	Power System Optimisation	45	30	15	6
ZETE02	S. Nikolovski	Reliability and Availability of Electric Power System	45	30	15	6
ZETE03	Z. Godec	Transformers Management	45	30	15	6
ZETE04	A. Pintarić	Advanced Electrical Materials	45	30	15	6
ZETE05	M. Zeljko	Electricity Market	45	30	15	6

#### Scientific-specialisation courses (enrolled in semester 2, 3 and 4)

##### Winter Semester

Code	Lecturer	Course	Workload Total	L	S, LP	ECTS
ZEUE01	S. Štefanko	Fault detection in AC electrical machines	45	30	15	6
ZEUE02	Z. Valter	Automatic Electric Drives	45	30	15	6
ZEUE03	I. Flegar	Applications of Power Electronic Systems in Power Engineering	45	30	15	6
ZEUE04	L. Jozsa	Power System Stability	45	30	15	6
ZEUE05	Z. Baus	Development in High-Voltage SF6 Gas-Insulated Substations-GIS	45	30	15	6
ZEUK08	F. Jović	Intelligent Manufacturing Systems	45	30	15	6
ZEUK11	D. AntoniĆ, R. Cupec	Intelligent Robotic Systems	45	30	15	6

##### Summer Semester

Code	Lecturer	Course	Workload Total	L	S, LP	ECTS
ZEUE06	S. Nikolovski	Monitoring and Power Quality	45	30	15	6
ZEUE07	M. Stojkov	Transients in Power Systems	45	30	15	6
ZEUE08	D. Šljivac B. Udovičić	Distributed Generation of Electrical Energy from Renewable Sources	45	30	15	6
ZEUE09	M. Jadrić	Dynamics of Electrical Machines	45	30	15	6
ZEUE10	Z. Godec	Complete Measurement Result and Decision Making	45	30	15	6
ZEUE11	D. Šljivac	Power System Planning in Open Electricity Market Conditions	45	30	15	6
ZEUE12	Z. Valter	Process Measurement	45	30	15	6
ZEUK22	D. AntoniĆ	Production Computer Networks	45	30	15	6
ZEUK24	M. Obad	Computer Integrated Product Development	45	30	15	6

**Scientific field: Electrical Engineering**  
**Branch: Communications and Computer Engineering**

**Branch fundamental courses (enrolled in semester 2)**

Code	Lecturer	Course	Workload Total	L	S, LP	ECTS
ZETK01	T. Švedek	CMOS Application Specific Integrated Circuits-ASIC	45	30	15	6
ZETK02	S. Rimac-Drlje	Digital Communications Systems	45	30	15	6
ZETK03	D. Žagar	Analysis and Synthesis of Communication Protocols	45	30	15	6
ZETK04	F. Jović	Object-oriented Programming	45	30	15	6
ZETK05	R. Scitovski	Operational Research	45	30	15	6
ZETK06	G. Martinović	Resource and Performance Management in Computer Systems	45	30	15	6
ZETK07	Ninoslav Slavek	Algorithms and Graphs	45	30	15	6

**Scientific-specialisation courses (enrolled in semester 2, 3 and 4)**

**Winter Semester**

Code	Lecturer	Course	Workload Total	L	S, LP	ECTS
ZEUK01	D. Žagar	Internet Technology	45	30	15	6
ZEUK02	T. Švedek	Antenne Arrays Analysis	45	30	15	6
ZEUK03	B. Zovko-Cihlar	Noise in Radiocommunications	45	30	15	6
ZEUK04	V. Majstorović	Information Technology and Entrepreneurship	45	30	15	6
ZEUK05	Ž. Hocenski	Modern Computer Architecture	45	30	15	6
ZEUK06	D. Antonić	Embedded Computer Systems	45	30	15	6
ZEUK07	N. Slavek	Databases and Computer Networks	45	30	15	6
ZEUK08	F. Jović	Intelligent Manufacturing Systems	45	30	15	6
ZEUK09	G. Martinović, S. Rimac-Drlje	Multimedia Computer Systems	45	30	15	6
ZEUK10	V. Žiljak	Computer Graphics	45	30	15	6
ZEUK11	D. Antonić, R. Cupec	Intelligent Robotic Systems	45	30	15	6
ZEUK12	M. Colnarić	Real-time Computer Systems in Control	45	30	15	6

**Summer Semester**

Code	Lecturer	Course	Workload Total	L	S, LP	ECTS
ZEUK13	S. Rimac-Drlje	Digital Videocommunication	45	30	15	6
ZEUK14	T. Švedek	Modern Radio-Communication System Architectures	45	30	15	6
ZEUK15	D. Žagar	Quality of Service in the Internet	45	30	15	6
ZEUK16	B. Zovko-Cihlar	Wideband Networks for Multimedia Services	45	30	15	6
ZEUK17	V. Žiljak	XML Publishing Technologies	45	30	15	6
ZEUK18	V. Majstorović	Development and Application of ERP System	45	30	15	6
ZEUK19	Ž. Hocenski	Multiprocessor and Parallel Systems	45	30	15	6
ZEUK20	N. Slavek	Software Quality Assurance	45	30	15	6
ZEUK21	G. Martinović	Grid Computing	45	30	15	6
ZEUK22	D. Antonić	Production Computer Networks	45	30	15	6
ZEUK23	R. Scitovski	Evolutionary Algorithms and Applications	45	30	15	6
ZEUK24	M. Obad	Computer Integrated Product Development	45	30	15	6
ZEUK25	I. Crnković	Component-based Software Systems	45	30	15	6