

UNIVERSITY OF ZENICA

**Project:
INTRODUCTION OF THE ECTS AT THE B&H UNIVERSITIES
(Tempus Joint European Project)**

COURSE STRUCTURE AT THE THREE FACULTIES:

**FACULTY OF MECHANICAL ENGINEERING
FACULTY FOR METALLURGY AND MATERIALS SCIENCE
PEDAGOGICAL FACULTY**

Zenica, January, 2005.

COURSE STRUCTURE

**IN AGREEMENT WITH
ECTS (EUROPEAN CREDIT TRANSFER SYSTEM)**

Mechanical Engineering – a short name for a course which must pass on a very broad field of technical knowledge. The range of technology leads to perceptions of study and profession which vary greatly and are often inaccurate. The objective of the study is to acquire knowledge and abilities to work on mechanical engineering tasks in research, development, manufacturing, environmental protection or organisation. The study is oriented towards the demands of engineering practice, under conditions resulting from technical, economic and social developments. Characteristic for these developments are new fields of mechanical engineering activity and increasing demands on engineering expertise.

To gain the amount of knowledge which will secure a competitive position in the profession during the given period of study, it is necessary to concentrate on certain scientific subjects. Therefore the study is divided into preliminary studies, which provide fundamental scientific knowledge and a major studies in a field of study or a specialisation in the field of study.

Zenica, February, 2004.

BASIC INFORMATION ABOUT STUDIES

1. The study of mechanical engineering is divided into two blocks : The Preliminary Studies Examination (Blok A and Blok B) and the Major Studies Examination. They are collections of the required examinations, projects and practical work.
2. The required coursework for the Preliminary Studies Examination consist of 60 semester week hours: fifty percent of lectures and fifty percent of exercises.
3. The required coursework for the Major studies consist of 60 semester week hours: fifty percent of lectures and fifty percent of exercises and for the students are obtain different number of elected classes. Finally diploma thesis requires three to six months of work.
4. The official duration of studies including the Major Studies Examination is eight semestres (this plan & in previous solutions 9 semester). This does not include time spent in practical training and Diploma thesis work.
5. Studies begin in the winter semester. Winter semester lectures run from October until February. They are followed by an examination period which ends at the end of February. Summer semester lectures begin in March and the summer examination period stretches from July until the end of September/October.
6. The courses of Mechanical Engineering consist of lectures, exercises and laboratories. The types of courses can be characterized as follows:
 - a. *Lectures (L)*: During the lectures the material is presented orally using stencils, diagrams and didactic material. The lectures give an outline of the material together with general knowledge and they show essential connestions. A lecture normally lasts less than one and a half hours.
 - b. *Exercises (E)*: The eercises complete, deepen and reinforce the material from the lectures by applying it to problems related to the lecture.
 - c. *Laboratories (l)*: The laboratories provide the opportunity to learn and practice research processes and experimental methods and skills and to evaluate results. The individual experiments are performed at several institutes with both simple and complex divices.
 - d. *Seminars (S)* : The exercises follow projects, programs, studies (ideas, fizibility etc.) which students works autonomus or with help of assistants.
 - e. *Excursions(e)-Industrial practice*: During excursions of one or more days, information and descriptions of recent developments in technology are presented, using examples outside of the University. The requirement of participation on at least one excursion before beginning the diploma thesis is not applicable, if the Department of Mechanical Enginnering does not have enough funds to finance this.
 - f. *Consultations (C)*: During the semester students are obliged for permanent work through consultations with professors and assistants.
 - g. *Working hours for writing exams (WE)*: The hours recognised for students autonomous work for writing exams preparation.
 - h. *Working hours for oral exams (OE)*: The hours recognised for students autonomous work for oral exams preparation.
7. A lecture or an exercise hour is forty-five minutes long.

The PRELIMINARY STUDIES – FOR ALL STUDENTS (BLOK A + BLOK B)

BLOK A (consists of 16 examinations)

First academic year (The semester working hours)

No	Course title	I and II SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
1	Mathematics I	45	45		45	45	
2	Statics	30	30				
3	Material Sciencies	30	30		30	30	
4	Mechanical Drawing				45	60	
5	Kinematics				30	30	
6	Informatics	15	30		30	30	
7	Physics	30	30				
8	Chemistry	30	30				
Total:		375			375		

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Mathematics I	3	3	-	0,5	1	2	9,5
2	Statics	1	1	1	0,5	1	2	6,5
3	Material Sciencies	2	2	1	0,5	1	2	8,5
4	Mechanical Drawing	1,5	2	1	0,5	1	2	8,0
5	Kinematics	1	1	1	0,5	1	2	6,5
6	Informatics	1,5	2	1	0,5	1	2	8,0
7	Physics	1	1	1	0,5	1	2	6,5
8	Chemistry	1	1	1	0,5	1	2	6,5
Total:								60,0

L-Lectures, E/I–Exercises/laboratories, S/e-Seminars/industrial pratice (projects, studies, programm etc.), C- consultations, WE- preparation hours for writing exams, OE- preparation hours for oral exams, Σ-total ECTS credits

The PRELIMINARY STUDIES – FOR ALL STUDENTS

Second academic year (The semester working hours)

No	Courses title	III and IV SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
9	Mathematics II	45	30		45	30	
10	Machine Elements	30	30		45	45	
11	Streinght of Materials	45	30				
12	Dznamics and Oscilations	30	30		30	30	
13	Electrical Engineering	45	30				
14	Statistics	30	15				
15	Fluid Mechanics				45	30	
16	Thermodynamics				45	30	
Total:		390			375		

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
9	Mathematics II	3	2	-	0,5	1	2	8,5
10	Machine Elements	2,5	2,5	2	0,5	1	2	10,5
11	Streinght of Materials	1,5	2	1	0,5	1	2	8,0
12	Dznamics and Oscilations	2	2	1	0,5	1	2	8,5
13	Electrical Engineering	1,5	1	-	0,5	1	2	6,0
14	Statistics	1	0,5	-	0,5	1	2	5,0
15	Fluid Mechanics	1,5	1	1	0,5	1	2	7,0
16	Thermodynamics	1,5	1	1	0,5	1	2	7,0
Total:								60,5

L-Lectures, E/I–Exercises/laboratories, S/e-Seminars/industrial prattice (projects, studies, programm etc.), C- consultations, WE- praparation hours for writing exams, OE- praparation hours for oral exams, Σ-Total ECTS credits

BLOK B (consists of 3 obligatory examinations)**I and II academic years (number of working hours)**

No	Course title	I and II YEAR					
		I year			II year		
		L	E/I	S/e	L	E/L	S/E
17	Sociology	60	-		30	30	
18	Foreign languages	60	30		60	30	
19	Sports culture	-	60		-	60	
Total:		210			210		

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
17	Sociology	2	-	-	0,5	-	2	4,5
18	Foreign languages	4	2	-	0,5	1	2	9,5
19	Sports culture	-	4	-	0,5	-	2	6,5
Total:								20,5

L-Lectures, **E/I**-Exercises/laboratories, **S/e**-Seminars/industrial practice (projects, studies, programmes etc.), **C**- consultations, **WE**- preparation hours for writing exams, **OE**- preparation hours for oral exams, **Σ**-Total ECTS credits

**MAJOR STUDIES
(STUDENTS DIVIDED IN THE FIELD OF STUDY)**

1. Field of study: ENGINEERING DESING

Third academic year (The semestar working hours)

No	Course title	V and VI SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
1	Heat Transfer	30	30				
2	Numerical Methods	30	30				
3	Transport Systems	30	30				
4	Hydraulics and Pneumatics	30	30				
5	Tribology	45	15				
6	Introduction in the Engineering Design	45	30				
7	Non-metal materials				30	30	
8	Manufacturing Technolgies				45	30	
9	CAD I				45	45	
10	Methodology of Engineering Design				45	30	
11	Product Control				45	30	
Total:		375			375		

Foreign languages: Winter + Summer Semester = 30+0

Sports culture: Winter + Summer Semester = 0+30

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Heat Transfer	1	1		0,5	1	2	5,5
2	Numerical Methods	1	1		0,5	1	2	5,5
3	Transport Systems	1	1	0,5	0,5	1	2	6,0
4	Hydraulics and Pneumatics	1	1	0,5	0,5	1	2	6,0
5	Tribology	1,5	0,5	0,5	0,5	1	2	6,0
6	Introduction in the Engineering Design	1,5	1	1	0,5	1	2	7,0
7	Non-metal materials	1	1	1	0,5	1	2	6,5
8	Manufacturing Technolgies	1,5	1	0,5	0,5	1	2	6,5
9	CAD I	1,5	1,5	1	0,5	1	2	7,5
10	Methodology of Engineering Design	1,5	1	0,5	0,5	1	2	6,5
11	Product Control	1,5	1	0,5	0,5	1	2	6,5
Total:								69,5

L-Lectures, **E/I**-Exercises/laboratories, **S/e**-Seminars/industrial pratice (projects, studies, programms etc.), **C**- consultations, **WE**- praparation hours for writing exams, **OE**- praparation hours for oral exams, **Σ**-Total ECTS credits

Fourth academic year (The semestar working hours)

No	Course title	VII and VIII SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
1	Metrology	45	45				
2	Automation	45	30				
3	Streinght of Materials II	30	30				
4	New Production Technologies	30	30				
5	CAD II – Modeling and Simulation	45	45				
6	Management				30	15	
7	Quality Management				45	30	
8	Finite Element Methods				45	45	
9	Complex Engineering Design				45	45	
10	Elective course				45	45	
Total:		375			390		

Foreign languages: Winter + Summer Semester = 30+0

Sports culture: Winter + Summer Semester = 0+30

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Metrology	1,5	1,5	1	0,5	1	2	7,5
2	Automation	1,5	1	0,5	0,5	1	2	6,5
3	Streinght of Materials II	1	1	0,5	0,5	1	2	6,0
4	New Production Technologies	1	1	0,5	0,5	1	2	6,0
5	CAD II – Modeling and Simulation	1,5	1,5	0,5	0,5	1	2	7,0
6	Management	1	0,5		0,5	1	2	5,0
7	Quality Management	1,5	1	0,5	0,5	1	2	6,5
8	Finite Element Methods	1,5	1,5	0,5	0,5	1	2	7,0
9	Complex Engineering Design	1,5	1,5	0,5	0,5	1	2	7,0
10	Elective course	1,5	1,5	1	0,5	1	2	7,5
Total:								66

L-Lectures, **E/I**–Exercises/laboratories, **S/e**-Seminars/industrial pratice (projects, studies, programms etc.), **C**- consultations, **WE**- preparation hours for writing exams, **OE**- preparation hours for oral exams, **Σ**-Total ECTS credits

Elective courses:

No	Course title	VII and VIII SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/I	S/e
1	Industrial Ergonomy				45	45	
2	Industrial Design				45	45	
3	Marketing				45	45	
4	Project Management				45	45	

2. Field of study: PRODUCTION TECHNOLOGIES MANAGEMENT

Third academic year (The semestar working hours)

No	Course title	V and VI SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
1	Heat Transfer	30	30				
2	Numerical Methods	30	30				
3	Transport Systems	30	30				
4	Hydraulics and Pneumatics	30	30				
5	Tribology	45	15				
6	Machining Removal Process	45	30				
7	Plastic Deformations				45	30	
8	Heat Treatment				45	30	
9	Welding Technologies				45	30	
10	Machine Tools				45	30	
11	Production Systems				45	30	
Total:		375			375		

Foreign languages: Winter + Summer Semester = 30+0

Sports culture: Winter + Summer Semester = 0+30

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Heat Transfer	1	1		0,5	1	2	5,5
2	Numerical Methods	1	1		0,5	1	2	5,5
3	Transport Systems	1	1	0,5	0,5	1	2	6,0
4	Hydraulics and Pneumatics	1	1	0,5	0,5	1	2	6,0
5	Tribology	1,5	0,5	0,5	0,5	1	2	6,0
6	Machining removal Process	1,5	1	1	0,5	1	2	7,0
7	Plastic Deformations	1,5	1	0,5	0,5	1	2	6,5
8	Heat Treatment	1,5	1	0,5	0,5	1	2	6,5
9	Welding technologies	1,5	1	0,5	0,5	1	2	6,5
10	Machine Tools	1,5	1	1	0,5	1	2	7,0
11	Production Systems	1,5	1	1	0,5	1	2	7,0
TOTAL:								69,5

L-Lectures, E/I-Exercises/laboratories, S/e-Seminars/industrial practice (projects, studies, programmes etc.), C- consultations, WE- preparation hours for writing exams, OE- preparation hours for oral exams, Σ-Total ECTS credits

Fourth academic year (The semestrar working hours)

No	Course title	VII and VIII SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
1	Metrology	60	60				
2	Machine for Plastics Deformation	45	30				
3	Automation	45	30				
4	Mechanical Conveying	45	30				
5	Organisation and Economics of Production	45	30				
6	Management				30	15	
7	Quality Management				45	30	
8	Design of Production Systems				45	45	
9	Elective course 1				45	45	
10	Elective course 2				45	45	
TOTAL:		420			390		

Foreign languages: Winter + Summer Semester = 30+0

Sports culture: Winter + Summer Semester = 0+30

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Metrology	2	2	1	0,5	1	2	8,5
2	Machine for Plastics Deformation	1,5	1	0,5	0,5	1	2	6,5
3	Automation	1,5	1	0,5	0,5	1	2	6,5
4	Mechanical Conveying	1,5	1	1	0,5	1	2	7,0
5	Organisation and Economics of Production	1,5	1	0,5	0,5	1	2	6,5
6	Management	1	0,5		0,5	1	2	5,0
7	Quality Management	1,5	1	0,5	0,5	1	2	6,5,0
8	Design of Production Systems	1,5	1,5	1	0,5	1	2	7,5
9	Elective course 1	1,5	1,5	1	0,5	1	2	7,5
10	Elective course 2	1,5	1,5	1	0,5	1	2	7,5
Total:								69

L-Lectures, E/I-Exercises/laboratories, S/e-Seminars/industrial practice (projects, studies, programmes etc.), C- consultations, WE- preparation hours for writing exams, OE- preparation hours for oral exams, Σ-Total ECTS credits

Elective courses:

No	Course title	VII and VIII SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/I	S/e
1	Computer Integrated Manufacturing				45	45	
2	Devices and Tools				45	45	
3	Nonconventional Technologies				45	45	
4	Design of manufacturing Technologies				45	45	
5	Industrial Manipulations and Robots				45	45	
6	Assembly and Disassembly				45	45	
7	New Production Technologies				45	45	
8	Non-materials Production Technologies				45	45	

3. Field of study: ENVIRONMENTAL ENGINEERING

Third academic year (The semester working hours)

No	Course title	V and VI SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
1	Heat Transfer	30	30				
2	Numerical Methods	30	30				
3	Transport Systems	30	30				
4	Hydraulics and Pneumatics	30	30				
5	Tribology	45	15				
6	Introduction to Ecology	30	15		30	15	
7	Waste Management	30	15				
8	Environmental Chemistry				30	30	
9	Process Engineering				45	30	
10	Production Technologies				45	30	
11	Protection Air Engineering				30	30	
12	Waste Storage				30	30	
TOTAL:		390			375		

Foreign languages: Winter + Summer Semester = 30+0

Sports culture: Winter + Summer Semester = 0+30

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Heat Transfer	1	1		0,5	1	2	5,5
2	Numerical Methods	1	1		0,5	1	2	5,5
3	Transport Systems	1	1	0,5	0,5	1	2	6,0
4	Hydraulics and Pneumatics	1	1	0,5	0,5	1	2	6,0
5	Tribology	1,5	0,5	0,5	0,5	1	2	6,0
6	Introduction to Ecology	2	1		0,5	1	2	6,5
7	Waste Management	1	0,5		0,5	1	2	5,0
8	Environmental Chemistry	1	1		0,5	1	2	5,5
9	Process Engineering	1,5	1	0,5	0,5	1	2	6,5
10	Production Technologies	1,5	1	0,5	0,5	1	2	6,5
11	Protection Air Engineering	1	1		0,5	1	2	5,5
12	Waste Storage	1	1		0,5	1	2	5,5
TOTAL:		70						

L-Lectures, **E/I**-Exercises/laboratories, **S/e**-Seminars/industrial practice (projects, studies, programs etc.), **C**- consultations, **WE**- preparation hours for writing exams, **OE**- preparation hours for oral exams, **Σ**-Total ECTS credits

Fourth academic year (The semestar working hours)

No	Course title	VII and VIII SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
1	Metrology	45	45				
2	Automation	45	30				
3	Protection Water Engineering	45	30				
4	Industry Environmental Protection	45	45				
5	Waste Recaclying	30	15		30	45	
6	Menagement				30	15	
7	Quality Management				45	30	
8	Elecective curse 1				45	45	
9	Elective course 2				45	45	
TOTAL:		375			375		

Foreign languages: Winter + Summer Semester = 30+0

Sports culture: Winter + Summer Semester = 0+30

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Metrology	1,5	1,5	1	0,5	1	2	7,5
2	Automation	1,5	1	0,5	0,5	1	2	6,5
3	Protection Water Engineering	1,5	1	1	0,5	1	2	7,0
4	Industry Environmental Protection	1,5	1,5	1	0,5	1	2	7,5
5	Waste Recaclying	2	2	1	0,5	1	2	8,0
6	Menagement	1	0,5		0,5	1	2	5,0
7	Quality Management	1,5	1	0,5	0,5	1	2	6,5
8	Elecective curse 1	1,5	1,5	1	0,5	1	2	7,5
9	Elective course 2	1,5	1,5	1	0,5	1	2	7,5
Total:								63

L-Lectures, **E/I**-Exercises/laboratories, **S/e**-Seminars/industrial pratice (projects, studies, programmms etc.), **C**- consultations, **WE**- preparation hours for writing exams, **OE**- preparation hours for oral exams, **Σ**-Total ECTS credits

Elective courses:

No	Course Title	VII and VIII SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/I	S/e
1	Waste Water Treatment				45	30	15
2	Industrial Microbiology				45	45	
3	Environment Management				45	30	15
4	Ecological Sustainable Development				45	15	30
5	Ecology Systems Modeling				45	30	15

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Waste Water Treatment	1,5	1	1	0,5	1	2	7,0
2	Industrial Microbiology	1,5	1,5		0,5	1	2	6,5
3	Environment Management	1,5	1	1	0,5	1	2	7,0
4	Ecological Sustainable Development	1,5	0,5	1	0,5	1	2	6,5
5	Ecology Systems Modeling	1,5	1	1	0,5	1	2	7,0

L-Lectures, **E/I**-Exercises/laboratories, **S/e**-Seminars/industrial practice (projects, studies, programmes etc.), **C**- consultations, **WE**- preparation hours for writing exams, **OE**- preparation hours for oral exams, **Σ**-Total ECTS credits

4. Field of study: MAINTENANCE

Third academic year (The semestar working hours)

No	Course title	V and VI SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
1	Heat Transfer	30	30				
2	Numerical Methods	30	30				
3	Transport Systems	30	30				
4	Hydraulics and Pneumatics	30	30				
5	Tribology	45	15				
6	Heat Treatment				45	30	
7	Welding Technologies				45	30	
8	Production Technolgies	45	30		45	30	
9	Technical Systems Maintenance				45	45	
10	Technical Diagnostic				45	30	
TOTAL:		375			390		

Foreign languages: Winter + Summer Semester = 30+0

Sports culture: Winter + Summer Semester = 0+30

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Heat Transfer	1	1		0,5	1	2	5,5
2	Numerical Methods	1	1		0,5	1	2	5,5
3	Transport Systems	1	1	0,5	0,5	1	2	6,0
4	Hydraulics and Pneumatics	1	1	0,5	0,5	1	2	6,0
5	Tribology	1,5	0,5	0,5	0,5	1	2	6,0
6	Heat Treatment	1,5	1	0,5	0,5	1	2	6,5
7	Welding Technologies	1,5	1	0,5	0,5	1	2	6,5
8	Production Technolgies	3	2	0,5	0,5	1	2	9,0
9	Technical Systems Maintenance	1,5	1,5	0,5	0,5	1	2	6,5
10	Technical Diagnostic	1,5	1	0,5	0,5	1	2	6,0
TOTAL:								63,5

L-Lectures, **E/I**-Exercises/laboratories, **S/e**-Seminars/industrial pratice (projects, studies, programms etc.), **C**- consultations, **WE**- preparation hours for writing exams, **OE**- preparation hours for oral exams, **Σ**-Total ECTS credits

Fourth academic year (The semestrar working hours)

No	Course title	VII and VIII SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/L	S/E
1	Metrology	45	45				
2	Work Organisation and Economics	45	30				
3	Automation	45	30				
4	Menagement	30	15				
5	Assenbly and Disassemby Technologies	45	45				
6	Quality Management				45	30	
7	Project Management				45	30	
8	Elective course 1				45	30	
9	Elective course 2				45	30	
10	Elective course 3				45	30	
TOTAL:		375			375		

Foreign languages: Winter + Summer Semester = 30+0

Sports culture: Winter + Summer Semester = 0+30

ECTS (European Credit Transfer System)

No	Course title	ECTS						
		Points						
		L	E/I	S/e	C	WE	OE	Σ
1	Metrology	1,5	1,5	0,5	0,5	1	2	7
2	Work Organisation and Economics	1,5	1	0,5	0,5	1	2	6,5
3	Automation	1,5	1	0,5	0,5	1	2	6,5
4	Menagement	1	0,5	-	0,5	1	2	5
5	Assenbly and Disassemby Technologies	1,5	1,5	0,5	0,5	1	2	7
6*	Quality Management	1,5	1	0,5	0,5	1	2	6,5
7	Project Management	1,5	1	0,5	0,5	1	2	6,5
8	Elective course 1	1,5	1	0,5	0,5	1	2	6,5
9	Elective course 2	1,5	1	0,5	0,5	1	2	6,5
10	Elective course 3	1,5	1	0,5	0,5	1	2	6,5
Total:		70						

L-Lectures, **E/I**-Exercises/laboratories, **S/e**-Seminars/industrial pratice (projects, studies, programms etc.), **C**- consultations, **WE**- preparation hours for writing exams, **OE**- preparation hours for oral exams, **Σ**-Total ECTS credits

Elective courses:

No	Course title	VII and VIII SEMESTER					
		Winter			Summer		
		L	E/I	S/e	L	E/I	S/e
Sub-specialisation: Maintenance in maining:					45	45	
8	Maining Technologies				45	45	
9	Maining Machines 1				45	45	
10	Maining machines 2				45	45	
Sub-specialisation: Maintenance in metalurgy:							
8	Assemby and Disassembly				45	45	
9	New Production Technologies				45	45	
10	Non-materials Production Technologies				45	45	
Sub-specialisation: Maintenance in energetics:							
8	Energetics Machines and Equipment 1				45	45	
9	Energetics Machines and Equipment 2				45	45	
10	Process Technologies and Machines				45	45	
Sub-specialisation: Maintenance of Motor-vehicles and Civil-engineering machines:					45	45	
8	Motor vehicles				45	45	
9	Civil-engineering Machines				45	45	
10	Transport Systems				45	45	

SUMMARY

The PRELIMINARY STUDIES – FOR ALL STUDENTS (BLOK A + BLOK B)

BLOK A (consists of 16 examinations) + BLOK B (consists of 3 obligatory examinations)

The PRELIMINARY STUDIES – FOR ALL STUDENTS (BLOK A + BLOK B)

BLOK A (consists of 16 examinations)

First academic year (The semestar working hours)

Number of working hours	I and II SEMESTER	
Total:	375	375

ECTS (European Credit Transfer System)

	ECTS	
	Points	
Total:		60,0

Second academic year (The semestar working hours)

Number of working hours	III and IV SEMESTER	
Total:	390	375

ECTS (European Credit Transfer System)

	ECTS	
	Points	
Total:		60,5

BLOK B (consists of 3 obligatory examinations)

I and II academic years (number of working hours)

	Number of working hours	I and II YEAR	
	Total:	210	210

ECTS (European Credit Transfer System)

No		ECTS	
	Total:		20,5

**MAJOR STUDIES
(STUDENTS DIVIDED IN THE FIELD OF STUDY)**

1. Field of study: ENGINEERING DESING

Third academic year (The semestar working hours)

No	Number of working hours	V and VI SEMESTER	
Total:		375	375

ECTS (European Credit Transfer System)

No		ECTS	
Total:			69,5

Fourth academic year (The semestar working hours)

	Number of working hours	VII and VIII SEMESTER	
Total:		375	390

ECTS (European Credit Transfer System)

		ECTS	
Total:			66

Summary:

Total ECTS =
=Blok A (60 + 60,5 ECTS) +
+Blok B (20,5 ECTS) +
+Major Studies (69,5 + 66 ECTS) = 276, 5 ECTS

2. Field of study: PRODUCTION TECHNOLOGIES MANAGEMENT

Third academic year (The semester working hours)

Number of working hours		V and VI SEMESTER	
Total:		375	375

ECTS (European Credit Transfer System)

		ECTS	
TOTAL:			69,5

Fourth academic year (The semester working hours)

Number of working hours		VII and VIII SEMESTER	
TOTAL:		420	390

ECTS (European Credit Transfer System)

No			ECTS	
Total:				69

Summary:

Total ECTS =

=Blok A (60 + 60,5 ECTS) +

+Blok B (20,5 ECTS) +

+Major Studies (69,5 + 69 ECTS) = 279, 5 ECTS

3. Field of study: ENVIRONMENTAL ENGINEERING

Third academic year (The semester working hours)

		V and VI SEMESTER	
TOTAL:		390	375

ECTS (European Credit Transfer System)

		ECTS	
TOTAL:			70

Fourth academic year (The semester working hours)

		VII and VIII SEMESTER	
TOTAL:		375	375

ECTS (European Credit Transfer System)

		ECTS	
Total:			63

Summary:

Total ECTS =
=Blok A (60 + 60,5 ECTS) +
+Blok B (20,5 ECTS) +
+Major Studies (70 + 63 ECTS) = 274 ECTS

4. Field of study: MAINTENANCE

Third academic year (The semester working hours)

		V and VI SEMESTER	
TOTAL:		375	390

ECTS (European Credit Transfer System)

		ECTS	
TOTAL:			63,5

Fourth academic year (The semester working hours)

		VII and VIII SEMESTER	
TOTAL:		375	375

ECTS (European Credit Transfer System)

		ECTS	
Total:			70

Summary:

Total ECTS =

=Blok A (60 + 60,5 ECTS) +

+Blok B (20,5 ECTS) +

+Major Studies (63,5 + 70 ECTS) = 273,5 ECTS

***FACULTY FOR METALLURGY AND
MATERIALS SCIENCE***

FACULTY FOR METALLURGY AND MATERIALS SCIENCE

Analyse of lecture numbers (through years and departments) and suggestions for ECTS system

FIRST YEAR: All Departments

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		L	PW	S	L	PW	S
1	Mathematics I	60	60				
2	Mathematics II	-	-		60	60	
3	Physics I	45	45				
4	Physics II	-	-		60	60	
5	Inorganic Chemistry I	60	30		-	-	
6	Inorganic Chemistry II	-	-		60	30	
7	Technical Mechanics I	30	30		-	-	
8	Technical Mechanics II	-	-		30	30	
9	Fundamentals of Metallurgy	30			-	-	
TOTAL		390			390		

ECTS (European Credit Transfer System)

No.	SUBJECT	ECTS						
		Number of Credits						
		L	PW	S	C	WE	OE	Σ
1	Mathematics I	2	2	-	-	2	2	8
2	Mathematics II	2	2	-	-	2	2	8
3	Physics I	1,5	1,5	1	1	1,5	1,5	8
4	Physics II	2	2	1	1	2	2	10
5	Inorganic Chemistry I	2	1	-	-	1	2	6
6	Inorganic Chemistry II	2	1	-	-	1	2	6
7	Technical Mechanics I	1	1	0,5	0,5	1	1	5
8	Technical Mechanics II	1	1	-	-	1	1	4
9	Fundamentals of Metallurgy	1	-	-	-	-	1	2
TOTAL								57

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

SECOND YEAR: All Departments

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		L	PW	S	L	PW	S
1	Heat Transfer I	30	30		30	30	
2	Analitical Chemistry	-	-		15	45	
3	Physical Chemistry	30	30		30	30	
4	Fundamentals of Mechanical Engineering I with Technical Drawing	45	60		-	-	
5	Fundamentals of Mechanical Engineering II with Technical Drawing	-	-		30	30	
6	Fundamentals of Electrical Engineering and Electronics	-	-		45	30	
7	Computer Science	30	45		-	-	
8	Applied Mathematics I	30	45		-	-	
9	Applied Mathematics II	-	-		30	30	
10	Sociology	30	15		30	15	
11	Physical training	15	15		-	30	
TOTAL		450			450		

ECTS (European Credit Transfer System)

No	SUBJECT	ECTS						
		Number of Credits						
		L	PW	S	C	WE	OE	Σ
1	Heat Transfer I	2	2	1	1	2	2	10
2	Analitical Chemistry	0,5	1,5	1,5	1,5	-	0,5	5,5
3	Physical Chemistry	2	2	-	-	2	2	8
4	Fundamentals of Mechanical Engineering I with Technical Drawing	1,5	2	1	1	2	1,5	9
5	Fundamentals of Mechanical Engineering II with Technical Drawing	1	1	0,5	0,5	-	1	4
6	Fundamentals of Electrical Engineering and Electronics	1,5	1	1	1	1,5	1	7
7	Computer Science	1	1,5	0,5	0,5	1,5	1	6
8	Applied Mathematics I	1	1,5	-	-	1,5	1	5
9	Applied Mathematics II	1	1	0,5	0,5	1	1	5
10	Sociology	2	1	0,5	0,5	-	2	6
11	Physical training (Sport Activities)	0,5	1,5	0,5	-	-	-	2,5
UKUPNO		68						

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

THIRD YEAR: *Department: Metallurgy (Section: Ferrous Metallurgy, Non-Ferrous Metallurgy and Foundry)*

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		L	PW	S	L	PW	S
1	Industrial Furnaces	45	30		45	30	
2	Physical Chemistry of Metallurgical Processes	30	30		30	30	
3	Physical Metallurgy	45	30		45	30	
4	Refractory Materials	-	-		30	30	
5	Theory of Plastic Deformation	30	30		30	15	
6	Fundamentals of Metallurgical Process Automation	-	-		45	30	
7	Metals Testing	30	30		30	30	
8	Mechanicqal Engineering in Metallurgy	30	15		-	-	
9	Ecology	45	30		-	-	
10	Foreign Languge (English)	15	15		15	15	
TOTAL		480			480		

(European Credit Transfer System)

No.	SUBJECT	ECTS						
		Number of Credits						
		L	PW	S	C	WE	OE	Σ
1	Industrial Furnaces	3	2	1	1	2	3	12
2	Physical Chemistry of Metallurgical Processes	2	2	0,5	0,5	2	2	9
3	Physical Metallurgy	3	2	1,5	1,5	-	3	11
4	Refractory Materials	1	1	0,5	0,5	-	1	4
5	Theory of Plastic Deformation	2	1,5	1	1	-	2	7,5
6	Fundamentals of Metallurgical Process Automation	1,5	1	1	1	-	1,5	6
7	Metals Testing	2	2	1	1	2	2	10
8	Mechanicqal Engineering in Metallurgy	1	0,5	0,5	0,5	-	1	3,5
9	Ecology	1,5	1	0,5	0,5	-	1,5	5
10	Foreign Languge (English)	1	1	-	-	1	1	4
TOTAL								72

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

THIRD YEAR: *Department:* Metallic Materials

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		L	PW	S	L	PW	S
1	Industrial Furnaces	45	30		45	30	
2	Physical Chemistry of Metallurgical Processes	30	30		30	30	
3	Physical Metallurgy	45	30		45	30	
4	Casting	-	-		30	30	
5	Theory of Plastic Deformation	30	30		30	15	
6	Metal Powders Metallurgy	30	15		45	30	
7	Metals Testing	30	30		30	30	
9	Ecology	45	15		-	-	
10	Foreign Language (English)	15	15		15	15	
TOTAL		510			480		

ECTS (European Credit Transfer System)

No.	SUBJECT	ECTS						
		Number of Credits						
		L	PW	S	C	WE	OE	Σ
1	Industrial Furnaces	3	2	1	1	2	3	12
2	Physical Chemistry of Metallurgical Processes	2	2	0,5	0,5	2	2	9
3	Physical Metallurgy	3	2	1,5	1,5	-	3	11
4	Casting	1	1	0,5	0,5	-	1	4
5	Theory of Plastic Deformation	2	1,5	1	1	-	2	7,5
6	Metal Powders Metallurgy	2,5	1,5	1	1	-	2,5	8,5
7	Metals Testing	2	2	1	1	2	2	10
8	Ecology	1,5	0,5	0,5	0,5	-	1,5	4,5
9	Foreign Language (English)	1	1	-	-	1	1	4
TOTAL								70,5

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

THIRD YEAR: *Department:* Nonmetallic Materials

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		L	PW	S	L	PW	S
1	Crystallography and Minarology	30	30		30	30	
2	Fundamentals of Physical and Chemical Ceramics	45	30		45	30	
3	Nonmetallic Materials Testing	30	30		30	30	
4	Mineral Raw Material Preparation	45	15		45	15	
5	Industrial Furnaces	45	30		45	30	
6	Mechanical Engineering	30	15		-	-	
7	Fundamentals of Process Automation	-	-		45	30	
8	Ecology	45	30		-	-	
9	Foreign Languge (English)	15	15		15	15	
TOTAL		480			435		

ECTS (European Credit Transfer System)

No.	SUBJECT	ECTS						
		Number of Credits						
		P	V	S	K	PI	UI	Σ
1	Crystallography and Minarology	2	2	2	2	-	2	10
2	Fundamentals of Physical and Chemical Ceramics	3	2	1,5	1,5	2	3	13
3	Nonmetallic Materials Testing	2	2	1,5	1,5	-	2	9
4	Mineral Raw Material Preparation	3	1	1	1	-	3	9
5	Industrial Furnaces	3	2	1	1	2	3	12
6	Mechanical Engineering	1	0,5	0,5	0,5	-	1	3,5
7	Fundamentals of Process Automation	1,5	1	1	1	-	1,5	6
8	Ecology	1,5	1	0,5	0,5	-	1,5	5
9	Foreign Languge (English)	1	1	-	-	1	1	4
TOTAL								71,5

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

FOURTH YEAR :*Department: Metallurgy; Section: Non-Ferrous Metallurgy*

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		L	PW	S	L	PW	S
1	Metallurgy of Heavy Non-Ferrous Metals	45	30		-	-	
2	Metallurgy of Light Non-Ferrous Metals	-	-		45	30	
3	Welding Metallurgy	45	30		-	-	
4	Metals Plastic Working	45	30		45	30	
5	Applied Physical Metallurgy	30	30		30	-	
6	Heat Treatment	45	30		45	30	
7	Casting of Non-Ferrous Metals and Alloys	45	30				
8	Management	-	-		30	30	
9	Modelling of Metallurgical Processes	-	-		30	45	
10	Foreign Language (English)	15	15		15	15	
TOTAL		465			420		

ECTS (European Credit Transfer System)

No.	SUBJECT	ECTS						
		Number of Credits						
		L	PW	S	C	WE	OE	Σ
1	Metallurgy of Heavy Non-Ferrous Metals	1,5	1	0,5	0,5	-	1,5	5
2	Metallurgy of Light Non-Ferrous Metals	1,5	1	1	1	-	1,5	6
3	Welding Metallurgy	1,5	1	0,5	0,5	-	1,5	5
4	Metals Plastic Working	3	2	1	1	-	3	10
5	Applied Physical Metallurgy	2	1	1,5	1,5	-	2	8
6	Heat Treatment	3	2	1	1	-	3	10
7	Casting of Non-Ferrous Metals and Alloys	1,5	1	0,5	0,5	-	1,5	5
8	Management	1	1	0,5	0,5	-	1	4
9	Modelling of Metallurgical Processes	1	1,5	1	1	-	1	5,5
10	Foreign Language (English)	1	1	0,5	0,5	1	1	5
TOTAL								63,5

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMER		
		L	PW	S	L	PW	S
1	Pig Iron Metallurgy	60	45		-	-	
2	Steel Metallurgy	-	-		60	30	
3	Welding Metallurgy	45	30		-	-	
4	Casting of Gray Iron and Steel	45	30		-	-	
5	Applied Physical Metallurgy	30	30		30	-	
6	Heat Treatment	45	30		45	30	
7	Casting Processes	30	30		30	15	
8	Casting of Non-Ferrous Metals and Alloys	-	-		45	30	
9	Modelling of Metallurgical Processes	-	-		30	45	
10	Management	-	-		30	30	
11	Foreign Languge (English)	15	15		15	15	
TOTAL		480			480		

ECTS (European Credit Transfer System)

No.	SUBJECT	ECTS						
		Number of Credits						
		L	PW	S	C	WE	OE	Σ
1	Pig Iron Metallurgy	2	1,5	1	1	-	2	7,5
2	Steel Metallurgy	2	1	0,5	0,5	-	2	6
3	Welding Metallurgy	1,5	1	0,5	0,5	-	1,5	5
4	Casting of Gray Iron and Steel	1,5	1	0,5	0,5	-	1,5	5
5	Applied Physical Metallurgy	2	1	1,5	1,5	-	2	8
6	Heat Treatment	3	2	1	1	-	3	10
7	Casting Processes	2	1,5	1	1	-	2	7,5
8	Casting of Non-Ferrous Metals and Alloys	1,5	1	0,5	0,5	-	1,5	5
9	Modelling of Metallurgical Processes	1	1,5	1	1	-	1	5,5
10	Management	1	1	0,5	0,5	-	1	4
11	Foreign Languge (English)	1	1	0,5	0,5	1	1	5
TOTAL								68,5

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		L	PW	S	L	PW	S
1	Pig Iron Metallurgy	60	45		-	-	
2	Steel Metallurgy	-	-		60	30	
3	Welding Metallurgy	45	30		-	-	
4	Metals Plastic Working	45	30		45	30	
5	Applied Physical Metallurgy	30	30		30	-	
6	Heat Treatment	45	30		45	30	
7	Casting	-	-		30	15	
8	Special Steels	-	-		45	15	
9	Modelling of Metallurgical Processes	-	-		30	45	
10	Management	-	-		30	30	
11	Foreign Language (English)	15	15		15	15	
TOTAL		420			540		

ECTS (European Credit Transfer System)

No.	SUBJECT	ECTS						
		Number of Credits						
		L	PW	S	C	WE	OE	Σ
1	Pig Iron Metallurgy	2	1,5	1	1	-	2	7,5
2	Steel Metallurgy	2	1	0,5	0,5	-	2	6
3	Welding Metallurgy	1,5	1	0,5	0,5	-	1,5	5
4	Metals Plastic Working	3	2	1	1	-	3	10
5	Applied Physical Metallurgy	2	1	1,5	1,5	-	2	8
6	Heat Treatment	3	2	1	1	-	3	10
7	Casting	1	0,5	0,5	0,5	-	1	3,5
8	Special Steels	1,5	0,5	1	1	-	1,5	5,5
9	Modelling of Metallurgical Processes	1	1,5	1	1	-	1	5,5
10	Management	1	1	0,5	0,5	-	1	4
11	Foreign Language (English)	1	1	0,5	0,5	1	1	5
TOTAL								70

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMER		
		L	PW	S	L	PW	S
1	Metallurgy of Metallic Materials	30	-		30	-	
2	Applied Physical Metallurgy	30	30		30	-	
3	Metals Plastic Working	45	30		45	30	
4	Heat Treatment	45	30		45	30	
5	Welding Metallurgy	45	30		15	15	
6	Special Steels	-	-		45	15	
7	Composite and Amorphous Metallic Materials	-	-		45	30	
8	Fundamentals of Metallic Materials Choice and Designing	30	15		30	15	
9	Metals Corosion and Protection	45	30		-	-	
10	Strani jezik (Engleski)	15	15		15	15	
TOTAL		465			450		

ECTS (European Credit Transfer System)

No.	SUBJECT	ECTS						
		Number of Credits						
		L	PW	S	C	WE	OE	Σ
1	Metallurgy of metallic materials	2	-	-	-	-	2	4
2	Applied Physical Metallurgy	2	1	1,5	1,5	-	2	8
3	Metals Plastic Working	3	2	1	1	-	3	10
4	Heat Treatment	3	2	1	1	-	3	10
5	Welding Metallurgy	2	1,5	0,5	0,5	-	2	6,5
6	Special Steels	1,5	0,5	1	1	-	1,5	5,5
7	Composite and Amorphous Metallic Materials	1,5	1	0,5	0,5	-	1,5	5
8	Fundamentals of Metallic Materials Choice and Designing	2	1	0,5	0,5	-	2	6
9	Metals Corosion and Protection	1,5	1	1	1	-	1,5	6
10	Strani jezik (Engleski)	1	1	0,5	0,5	1	1	5
TOTAL								66

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

Number of lectures and practical work classes by semester

No.	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		L	PW	S	L	PW	S
1	X-ray Machine Structure Analysis	30	30		-	-	
2	Ceramics	45	30		45	30	
3	Glass	-	-		45	30	
4	Technology of Nonmetallic Material	45	15		45	15	
5	Cement-Lime-Gypsum	45	30		45	15	
6	Technology of Refractory Materials	45	30		30	30	
7	Concrete	30	-		-	-	
8	Application of Nonmetallic Materials	-	-		30	15	
9	Modelling of Processes	-	-		30	45	
10	Management	30	30		-	-	
11	Foreign Language (English)	15	15		15	15	
TOTAL		465			480		

ECTS (European Credit Transfer System)

No.	SUBJECT	ECTS						
		Number of Credits						
		L	PW	S	C	WE	OE	Σ
1	X-ray Machine Structure Analysis	1	1	1	1	-	1	5
2	Ceramics	3	2	0,5	0,5	-	3	9
3	Glass	1,5	1	1	1	-	1,5	6
4	Technology of Nonmetallic Material	3	1	0,5	0,5	-	3	8
5	Cement-Lime-Gypsum	3	1,5	0,5	0,5	-	3	8,5
6	Technology of Refractory Materials	2,5	2	0,5	0,5	-	2,5	8
7	Concrete	1	-	-	-	-	1	2
8	Application of Nonmetallic Materials	1	0,5	0,5	0,5	-	1	3,5
9	Modelling of Processes	1	1,5	1	1	-	1	5,5
10	Management	1	1	0,5	0,5	-	1	4
11	Foreign Language (English)	1	1	0,5	0,5	1	1	5
TOTAL								64,5

L- lectures, PW-practical work, S-seminar work, C-Colloquium, WE-written exam, OE-oral exam

Summary of ECTS for all years

DEPARTMENT: METALLIC MATERIALS

STUDY YEAR	ECTS	Note
FIRST	57	
SECOND	68	
THIRD	70,5	
Industrial practise	4	Three weeks of industrial practise
FOURTH	66	
Diplona Work	10	3-6 months for completing Diploma Work
Σ	275,5	

DEPARTMENT: METALLURGY (*Section: Casting*)

STUDY YEAR	ECTS	Note
FIRST	57	
SECOND	68	
THIRD	72	
Industrial practise	4	Three weeks of industrial practise
FOURTH	68,5	
Diplona Work	10	3-6 months for completing Diploma Work
Σ	279,5	

DEPARTMENT: METALLURGY (*Section: Non-Ferrous Metallurgy*)

STUDY YEAR	ECTS	Note
FIRST	57	
SECOND	68	
THIRD	72	
Industrial practise	4	Three weeks of industrial practise
FOURTH	63,5	
Diplona Work	10	3-6 months for completing Diploma Work
Σ	274,5	

DEPARTMENT: METALLURGY (*Sectionr: Ferrous Metallurgy*)

STUDY YEAR	ECTS	Note
FIRST	57	
SECOND	68	
THIRD	72	
Industrial practise	4	Three weeks of industrial practise
FOURTH	70	
Diplona Work	10	3-6 months for completing Diploma Work
Σ	281	

DEPARTMENT: NONMETALLIC MATERIALS

STUDY YEAR	ECTS	Note
FIRST	57	

SECOND	68	
THIRD	71,5	
Industrial practise	4	Three weeks of industrial practise
FOURTH	64,5	
Diplona Work	10	3-6 months for completing Diploma Work
Σ	275	

FACULTY OF PEDAGOGY

The first study year

number	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		P	V	S	P	V	S
1	Phylosophy	30			30		
2	Englesh/German language	15	15		15	15	
3	BHS language	30	15		30	15	
4	Speech culture	30	15		15	30	
5	Literature	30	15		30	15	
6	Mathematics	30	30		15	15	
7	General Pedagogy	30	15		30	15	
8	General Psychology	30	15		30	15	
9	Informatics	15	30		15	30	
10	Sociology with Educ.and Upbringing	30	15		30	15	
TOTAL:		435			405		

ECTS (European Credit Transfer System)

number	SUBJECT	ECTS						
		CREDITS						
		P	V	S	K	Pr	PUI	Sum
1	Phylosophy	2	0	0	0,5	0	2	4,5
2	Englesh/German language	1	1	0	0,5	0	2	4,5
3	BHS language	2	1	0	1	0	3	7
4	Speech culture	1,5	1,5	0	1	0	2,5	6,5
5	Literature	2	1	0	1	0	2,5	6,5
6	Mathematics	1,5	1,5	0	1	0	3	7
7	General Pedagogy	2	1	0	1	1	2	7
8	General Psychology	2	1	0	1	0	2	6
9	Informatics	1	2	0	1	0	2	6
10	Sociology with Educ.and Upbringing	2	1	0	1	0	2	6
TOTAL (total credits per student) :		17	11	0	9	1	23	61

P – lecture, V –exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams , Sum – total of ECTS

UNIVERSITY OF ZENICA
Faculty of Pedagogy
Primary School Teaching Department
The second study year

number	SUBJECT	SEMESTAR					
		WINTER			SUMMER		
		P	V	S	P	V	S
1	Didactics	30	15		30	15	
2	Englesh/German Language	15	15		15	15	
3	BHS language	15	15		15	15	
4	Development Psychology With Personality Psychology	30	15		30	15	
5	Literature for Children	30	15		30	15	
6	Matemathics	15	15		15	15	
7	Psychology of Upbringind and Education	30	15		30	15	
8	Science and Society Knowledge	30	15		30	15	
9	Ethics	30	15		30		
10	Music Culture with Methodics	15	15		15	15	
11	Art Culture with Methodics	15	15		15	15	
12	Physical Culture with Methodics	15	15		15	15	
13	Instrumental course					20	
14	Unformal drama					20	
TOTAL:		450			450		

ECTS (European Credit Transfer System)

number	SUBJECT	ECTS						
		CREDITS						
		P	V	S	K	Pr	PUI	Sum
1	Didactics	2	1	1	0,5	0,5	2	7
2	Englesh/German Language	1	1	1	0,5	0	2	5,5
3	BHS language	1	1	1	0,5	0	2	5,5
4	Development Psychology With Personality Psychology	2	1	1	0,5	0	2,5	7
5	Literature for Children	2	1	1	0,5	0	2,5	7
6	Matemathics	1	1	1	0,5	0	3	6,5
7	Psychology of Upbringind and Education	2	1	1	0,5	0	2	6,5
8	Science and Society Knowledge	2	1	1	0,5	0	2	6,5
9	Ethics	2	0,5	1	0,5	0	2	6
10	Music Culture with Methodics	1	1	1	0,5	0	2	5,5
11	Art Culture with Methodics	1	1	1	0,5	0	0	3,5
12	Physical Culture with Methodics	1	1	1	0,5	0	0	3,5
13.	Instrumental course	0	0,5	0	1	0	0	1,5
14.	Unformal drama	0	0,5	0	1	0	0	1,5
TOTAL								73
TOTAL (total credits per student) :		18	12,5	1	8	0,5	22	62

P – lecture, V – exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams , Sum – total of ECTS

The third study year

number	SUBJECT	SEMESTAR					
		WINTER			SUMMER		
		P	V	S	P	V	S
1	Englesh/German Language	15	15		15	15	
2	Democracy and Human Rights	30			30		
3	School Pedagogy	30	15		30	15	
4	Methodology in Upbringing and Education	30	15		30	15	
5	BHS Language Teaching Methodology and Literature	30	30		30	15	
6	Mathematics Teaching Methodology	30	30		30	15	
7	Science and Society Knowledge Teaching Methodology	30	30		30	15	
8	Music Culture with Methodics	15	15		15	15	
9	Art Culture with Methodics	15	15		15	15	
10	Physical Culture with Methodics	15	15		15	15	
11	Basic Educational Techniques and Technology	15	15		15	15	
TOTAL:		450			405		

ECTS (European Credit Transfer System)

number	SUBJECT	ECTS						
		CREDITS						
		P	V	S	K	Pr	PUI	Sum
1	Englesh/German Language	1	1	0	0,5	0	2	4,5
2	Democracy and Human Rights	2		0	0,5	0	2	2,5
3	School Pedagogy	2	1	0	0,5	1	2	6,5
4	Methodology in Upbringing and Education	2	1	0	0,5	0	2	5,5
5	BHS Language Teaching Methodology and Literature	2	1,5	1	1	0,5	2	8
6	Mathematics Teaching Methodology	2	1,5	1	1	0,5	2	8
7	Science and Society Knowledge Teaching Methodology	2	1,5	1	1	0,5	2	8
8	Music Culture with Methodics	1	1	1	1	0,5	2	6,5
9	Art Culture with Methodics	1	1	1	1	0,5	2	6,5
10	Physical Culture with Methodics	1	1	1	1	0,5	2	6,5
11	Basic Educational Techniques and Technology	1	1	0	0	0	1,5	3,5
TOTAL								66
TOTAL (total credits per student) :		17	10,5	1	8	4	21,5	62

P – lecture, V – exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams, Sum – total of ECTS

The fourth study year

number	SUBJECT	SEMESTAR						
		WINTER			SUMMER			
		P	V	S	P	V	S	
1	English/German Language	15	15		15	15		
2	School Hygiene	15	15		15	15		
3	Media Culture	30	15		15	30		
4	BHS Language Teaching Methodology and Literature	15	15		15	15		
5	Mathematics Teaching Methodology	15	15		15	15		
6	Science and Society Knowledge Teaching Methodology	15	15		15	15		
7	Music Culture with Methodics	15	15		15	15		
8	Art Culture with Methodics	15	15		15	15		
9	Physical Culture with Methodics	15	15		15	15		
10	Free Activities Methodology	15	15		15	15		
11	Special Pedagogy	30	15		30	15		
12	Integral praxis					40		
TOTAL:					360		360	

ECTS (European Credit Transfer System)

number	SUBJECT	ECTS						
		CREDITS						
		P	V	S	K	Pr	PUI	Sum
1	English/German Language	1	1	0	0,5	0	2	4,5
2	School Hygiene	1	1	0	0,5	0	2	4,5
3	Media Culture	1,5	1,5	0	0,5	0	2	5,5
4	BHS Language Teaching Methodology and Literature	1	1	0	1	2	2	8
5	Mathematics Teaching Methodology	1	1	0	1	2	2	8
6	Science and Society Knowledge Teaching Methodology	1	1	0	1	2	2	8
7	Music Culture with Methodics	1	1	0	1	1	2	7
8	Art Culture with Methodics	1	1	0	1	1	2	7
9	Physical Culture with Methodics	1	1	0	1	1	2	7
10	Free Activities Methodology	1	1	0	1	0,5	2	6,5
11	Special Pedagogy	2	1	0	0,5	0	2	5,5
12	Integral praxis	0	2	0	2	0	0	4
TOTAL:								75,5
TOTAL (total credits per student) :		12,5	13,5	1	11	11	22	71

P – lecture, V – exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams, Sum – total of ECTS

UNIVERSITY OF ZENICA
 Faculty of Pedagogy
Department: German Language

The first study year
Classes per semester

Number	SUBJECT	SEMESTER						
		WINTER			SUMMER			
		P	V	S	P	V	S	
1	Philosophy	30	0	0	30	0	0	
2	BHS Language	15	15	0	15	15	0	
3	Psychology	0	0	0	60	60	0	
4	German Language I (morphology)	60	90	90	0	60	90	90
5	Introduction into German Literature	15	15	0	0	0	0	
6	Overview of German Literature until 18th century	0	0	0	30	30	0	
7	Phonetics and Phonology	15	30	0	0	0	0	
8	Computer Science	15	15	0	0	30	0	
9	Physical Training	30	0	0	30	0	0	
TOTAL:								

ECTS (European Credit Transfer System)

Number	SUBJECT	ECTS						
		CREDITS						
		P	V	S	K	PI	UI	ECTS
1	Philosophy	2	0	0	1	0	1	4
2	BHS Language	1	1	0	1	1	1	5
3	Psychology	2	2	0	1	1	1	5
4	German Language I (morphology)	4	6	6	0	2	2	22
5	Introduction into German Literature	0,5	0,5	0	1	1	1	4
6	Overview of German Literature until 18th century	1	1	0	1	2	2	7
7	Phonetics and Phonology	0,5	1	0	2	2	2	7,5
8	Computer Science	0,5	1,5	0	1	1	1	5
9	Physical Training	2	0	0	0	0	0	2
TOTAL (total credits per student) :		13,5	19	0	10	10	11	63,5
TOTAL:								61,5

P – lecture, V –exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams , Sum – total of ECTS

UNIVERSITY OF ZENICA
 Faculty of Pedagogy
Department: German Language

The first study year
Classes per semester

Number	SUBJECT	SEMESTER					
		WINTER			SUMMER		
		P	V	S	P	V	S
1	Pedagogy	45	45	0	0	0	0
2	Didactic	0	0	0	30	30	0
3	German Language II (Syntax)	60	90 90	0	60	90 90	0
4	German Literature (Goethe's Period)	30	15	0	30	15	0
5	Basis of German Civilization	15	15	0	15	15	0
6	Elective I	15	15	0	15	15	0
7	Elective II	0	30	0	0	30	0
TOTAL:							

ECTS (European Credit Transfer System)

Number	SUBJECT	ECTS						
		CREDITS						
		P	V	S	K	PI	US	ECTS
1	Pedagogy	1,5	1,5	0	1	1	1	6
2	Didactic	1	1	0	1	1	1	5
3	German Language II (Syntax)	4	6 6	0	2	2	2	22
4	German Literature (Goethe's Period)	2	1	0	1	2	2	8
5	Basis of German Civilization	1	1	0	2	2	2	8
6	Elective I	1	1	0	2	1	1	6
7	Elective II	0	2	0	1	1	1	5
TOTAL (total credits per student) :		10,5	19,5	0	10	10	10	60
TOTAL:								60

P – lecture, V – exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams, Sum – total of ECTS

UNIVERSITY OF ZENICA
 Faculty of Pedagogy
Department: German Language

The first study year
Classes per semester

Number	SUBJECT	SEMESTER							
		WINTER			SUMMER				
		P	V		S	P	V		S
1	German Language III (Lexicology)	60	90	90	0	60	90	90	0
2	German Literature of 19th century	30	15		15	30	15		15
3	German Language Methodology I	30	30		0	0	120		0
4	Introduction into Linguistics	15	15		0	15	15		0
5	Elective I	15	15		0	15	15		0
6	Elective II	15	15		0	15	15		0
TOTAL:									

ECTS (European Credit Transfer System)

Number	SUBJECT	ECTS							
		CREDITS							
		P	V		S	K	PI	UI	ECTS
1	German Language III (Lexicology)	4	6	6	0	2	2	2	22
2	German Literature of 19th century	2	1		2	2	2	2	11
3	German Language Methodology I	1	5		0	2	2	2	12
4	Introduction into Linguistics	1	1		0	2	2	2	8
5	Elective I	1	1		0	1	1	1	5
6	Elective II	1	1		0	1	1	1	5
TOTAL (total credits per student) :		10	21		2	10	10	10	63
TOTAL:									62

P – lecture, V –exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams , Sum – total of ECTS

UNIVERSITY OF ZENICA
 Faculty of Pedagogy
Department: German Language

The first study year
Classes per semester

Number	SUBJECT	SEMESTER							
		WINTER			SUMMER				
		P	V		S	P	V		S
1	German Language IV (Theory of Interpreting)	30	120	120	30	30	120	120	15
2	German Literature of 20th century	30	30		0	30	30		0
3	Semantics	30	15		0	30	15		0
4	German Language Methodology II	30	30		0	30	30		0
5	German Language History	30	30		0	30	30		0
6	Elective	0	30		0	0	30		0
TOTAL:									

ECTS (European Credit Transfer System)

Number	SUBJECT	ECTS							
		CREDITS							ECTS
		P	V		S	K	PI	UI	
1	German Language IV (Theory of Interpreting)	2	8	8	2	2	2	2	26
2	German Literature of 20th century	2	2			1	1	1	7
3	Semantics	2	1			1	1	1	6
4	German Language Methodology II	2	2			1	2	2	9
5	German Language History	2	2			1	2	2	9
6	Elective	0	2			1	1	1	5
TOTAL (total credits per student) :		10	25	2	7	9	9	9	62
TOTAL:									60

P – lecture, V –exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams , Sum – total of ECTS

The first study year
Classes per semester

Number	SUBJECT	SEMESTER							
		WINTER			SUMMER				
		P	V		S	P	V		S
1	Philosophy	30	0		0	30	0		0
2	BHS Language	15	15		0	15	15		0
3	Psychology	0	0		0	60	60		0
4	English Language I (Morphology)	30	Gr.ex. 135	Lan.ex. 135	0	30	Gr.ex. 135	Lan.ex. 135	0
5	Cultural and Social History of Great Britain	30	30		0	30	30		0
6	English Literature I Introduction	30	30		0	30	30		0
7	Phonetics	30	0		15	30	0		15
8	Computer Science	15	15		0	0	30		0
9	Physical Training	30	0		0	30	0		0
TOTAL:									

ECTS (European Credit Transfer System)

Number	SUBJECT	ECTS							
		CREDITS							
		P	V		S	K	PI	UI	ECTS
1	Philosophy	2	0		0	0,5	0	1	3,5
2	BHS Language	1	1		0	0,5	1	1	4,5
3	Psychology	2	2		1	0,5	1	1	7,5
4	English Language I (morphology)	2	9	9	0	1	2	2	25
5	Cultural and Social History of Great Britain	2	2		0	0,5	1	0	5,5
6	English Literature I Introduction	2	2		0	0,5	1	0	5,5
7	Phonetics	2	0		1	0,5	1	1	5,5
8	Computer Science	0,5	1,5		0	0,5	1	0	3,5
9	Physical Training	2	0		0	0,5	0	0	2,5
TOTAL (total credits per student)		15,5	24,5		2	5	8	6	63
TOTAL:									63

P – lecture, V – exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams, Sum – total of ECTS

The second study year

Classes per semester

Number	SUBJECT	SEMESTER						
		WINTER			SUMMER			
		P	V	S	P	V	S	
1	Pedagogy	45	45	0	0	0	0	
2	Didactic	0	0	0	30	30	0	
3	English Language II Morpho-Syntax	30	Gr.ex. 75	Lan.ex. 75	0	30	Gr.ex. 75	Lan.ex. 75
4	Cultural and Social History of the USA	30	30	0	30	30	0	
5	English Literature II (Poetry of British Romanticism)	30	30	0	30	30	0	
6	18th and 19th century English Novel (English Literature II)	30	30	0	30	30	0	
TOTAL:								

ECTS (European Credit Transfer System)

Number	SUBJECT	ECTS						
		CREDITS						
		P	V	S	K	PI	US	ECTS
1	Pedagogy	1,5	1,5	0	1	1	2	7
2	Didactic	1	1	0	1	1	2	6
3	English Language II Morpho-Syntax	2	5	5	1	1	2	18
4	Cultural and Social History of the USA	2	2	2	1	0	2	9
5	English Literature II (Poetry of British Romanticism)	2	2	2	1	1	2	10
6	18th and 19th Century English Novel (English Literature II)	2	2	2	1	1	2	10
TOTAL (total credits per student)		15,5	24,5	2	5	8	6	63
TOTAL:								60

P – lecture, V –exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams , Sum – total of ECTS

The third study year
Classes per semester

Number	SUBJECT	SEMESTER							
		WINTER				SUMMER			
		P	V		S	P	V		S
1	English Language III Syntax	30	Gr.ex. 60	L.ex. 60	30	30	Gr.ex. 60	Lan.ex. 60	30
2	English Language Methodology	30	30		0	30	30		0
3	English Language History	15	0		15	15	0		15
4	American Literature	30	0		60	30	0		60
5	Anglo-American Drama Development (Shakespeare)	15	0		30	15	0		30
6	Elective	30	0		0	30	0		0
TOTAL:									

ECTS (European Credit Transfer System)

Number	SUBJECT	ECTS							
		CREDITS							
		P	V		S	K	PI	UI	ECTS
1	English Language III Syntax	2	4	4	2	2	1	2	17
2	English Language Methodology	2	2		1	2	1	2	10
3	English Language History	1	0		1	2	1	1	6
4	American Literature	2	0		4	2	1	2	11
5	Anglo-American Drama Development (Shakespeare)	1	0		2	2	1	2	8
6	Elective	2	0		1	2	1	2	8
TOTAL (total credits per student)		10	10	11	12	6	11	11	60
TOTAL:		60							

P – lecture, V – exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams, Sum – total of ECTS

The fourth study year

Classes per semester

Number	SUBJECT	SEMESTER							
		WINTER				SUMMER			
		P	V		S	P	V		S
1	English Language IV	30	Gr.v. 30	Jez.v. 45	60	30	Gr.v. 30	Jez.v. 45	60
2	English Language Methodology II	30	30		30	30	30		30
3	20th century British Literature (English Literature IV)	30	0		60	30	0		60
4	Anglo-American Drama Development II	15	0		30	15	0		30
5	Linguistics	30	0		30	30	0		30
TOTAL:									

ECTS (European Credit Transfer System)

Number	SUBJECT	ECTS							
		CREDITS							
		P	V		S	K	PI	UI	ECTS
1	English Language IV	2	2	3	4	2	2	2	17
2	English Language Methodology II	2	2		2	2	2	2	12
3	20th century British Literature (English Literature IV)	2	0		4	2	2	2	12
4	Anglo-American Drama Development II	1	0		2	2	2	2	9
5	Linguistics	2	0		2	2	2	2	10
TOTAL (total credits per student)		9	7	14	10	10	10	10	60
TOTAL:									60

P – lecture, V –exercise, S – seminar, K – consultation, Pr – practice, PUI – writing and oral exams , Sum – total of ECTS

SEMESTERS CURRICULUM STRUCTURE IN ISLAMIC TEACHER TRAINING COLLEGE IN ZENICA

SEMESTER I Course title	Working hours	Total		Credits
		L	E	
1. Kiraet I	3	45	-	6
2. Tefsir I	3	45	-	6
3. Akaid I	3	45	-	6
4. Hadis I	3	45	-	6
5. Introduction to islamic culture and civilization	3	45	-	6
6. Bosnian language I	2+1	30	15	6
7. General Pedagogy	2+1	30	15	6
Total	21	285	30	42

315

ECTS (European Credit Transfer System)

SEMESTER I	ECTS						
	L	E	S	C	Preparing hours		Credits
					W/E	O/E	
1. Kiraet I	2,5	-	0,5	0,5	1	1,5	6
2. Tefsir I	2,5	-	0,5	0,5	1	1,5	6
3. Akaid I	2,5	-	0,5	0,5	1	1,5	6
4. Hadis I	2,5	-	0,5	0,5	1	1,5	6
5. Introduction to islamic culture and civilization	2,5	-	0,5	0,5	1	1,5	6
6. Bosnian language I	1,5	1	0,5	0,5	1	1,5	6
7. General Pedagogy	1,5	1	0,5	0,5	1	1,5	6
Total							42

L - lectures; E - exercises; S - seminars (studies, projects, etc); C - consultations; Preparing exams: W/E - writing exams, O/E - oral exams.

SEMESTER II Cours title	Working hours	Total		Credits
		L	E	
1. Fikh I	3	45	-	6
2. Da'wa I	2	30	-	4
3. Sira	2+1	30	15	4
4. School pedagogy	2+1	30	15	6
5. Arabic language I	2+1	30	15	6

6. General psychology	2+1	30	15	6
Total	18	195	60	32
255				

ECTS (European Credit Transfer System)

SEMESTER II	ECTS						Credits
	L	W	S	C	Praparing hours		
					W/E	O/E	
1. Fikh I	2,5	-	0,5	0,5	1	1,5	6
2. Da'wa I	1,5	-	0,5	0,5	0,5	1	4
3. Sira	1	0,5	0,5	0,5	0,5	1	4
4. School pedagogy	1,5	1	0,5	0,5	1	1,5	6
5. Arabic language I	1,5	1	0,5	0,5	1	1,5	6
6. General psychology	1,5	1	0,5	0,5	1	1,5	6
Total							32

L - lectures; E - exercises; S - seminars (studies, projects, etc); C - consultations; Preparing exams: W/E - writing exams, O/E - oral exams.

SEMESTER III	Working hours	Total		Credits
		L	E	
1. Fikh II	3	45	-	6
2. Hadis II	3	45	-	6
3. Arabic language II	2+1	30	15	6
4. Bases of islamic art and aesthetics	3	45	-	4
5. Developing psychology	2+1	30	15	6
6. Elective course	2	30	-	4
Total	16	225	30	32

255

ELECTIVE COURSES	Working hours	Total	Credits
1. Hifz – memorizing Kur'an	2	30	4
2. Teaching methods of Bosnian literature for children	2	30	4
3. Informatics	2	30	4
		90	

ECTS (European Credit Transfer System)

SEMESTER III	ECTS						
	L	E	S	C	Praparing hours		Credits
					W/E	O/E	
1. Fikh II	2,5	-	0,5	0,5	1	1,5	6
2. Hadis II	2,5	-	0,5	0,5	1	1,5	6
3. Arabic language II	1,5	1	0,5	0,5	1	1,5	6
4. Bases of islamic art and aesthetics	1,5	-	0,5	0,5	0,5	1	4
5. Developing psychology	1,5	1	0,5	0,5	1	1,5	6
6. Elective course	1,5	-	0,5	0,5	0,5	1	4
Total							32

L - lectures; E - exercises; S - seminars (studies, projects, etc); C - consultations; Preparing exams: W/E - writing exams, O/E - oral exams.

SEMESTER IV	Working hours	Total		Credits
		L	E	
1. Kiraet II	3	45	-	6
2. Tefsir II	2+1	30	15	6
3. Akaid II	3	45	-	6
4. Bosnian language II	2+1	30	15	6
5. English language I	2+1	30	15	4
6. Teaching theory	2+1	30	15	6
7. Elective course	2	30	-	4
Total	20	240	60	38

300

ELECTIVE COURSES	Working hours	Total	Credits
1. Tefsir 30. part	2	30	4
2. Judaism and Christianity learning	2	30	4
3. Hadis readings	2	30	4
		90	

ECTS (European Credit Transfer System)

SEMESTAR IV	ECTS						
	L	E	S	C	Praparing hours		Credits
					W/E	O/E	
1. Kiraet II	2,5	-	0,5	0,5	1	1,5	6
2. Tefsir II	2,5	-	0,5	0,5	1	1,5	6
3. Akaid II	2,5	-	0,5	0,5	1	1,5	6

4. Bosnian language II	2,5	-	0,5	0,5	1	1,5	6
5. English language I	1	0,5	0,5	0,5	0,5	1	4
6. Teaching theory	1,5	1	0,5	0,5	1	1,5	6
7. Elective course	1,5	-	0,5	0,5	0,5	1	4
Total							38

L - lectures; E - exercises; S - seminars (studies,projects,etc); C - consultations; Preparing exams: W/E - writing exams, O/E - oral exams.

SEMESTER V	Working hour	Total		Credits
		L	E	
1. Introduction to islamic philosophy	3	45	-	6
2. English language II	2+1	30	15	4
3. Theachig methods of islamic religious	2+1	30	15	6
4. Elective cours	3	45	-	6
Total	12	150	30	22
		180		

ELECTIVE COURSES	Working hours	Total	Credits
1. Contemporary issues in islamic law	3	45	6
2. Integrative pedagogy	3	45	6
3. Teaching communication	3	45	6

SEMESTER V	ECTS						
	L	E	S	C	Praparing hours		Total
					W/E	O/E	
1. Introduction to islamic philosophy	2,5	-	0,5	0,5	1	1,5	6
2. English language II	1	0,5	0,5	0,5	0,5	1	4
3. Theachig methods of islamic religious I	1,5	1	0,5	0,5	1	1,5	6
4. Elective cours	2,5	-	0,5	0,5	1	1,5	6
Total							22

L - lectures; E - exercises; S - seminars (studies,projects,etc); C consultations;; Preparing exams: W/E - writing exams, O/E - oral exams.

SEMESTER VI	Working hour	Total		Credits
		L	E	
1. Da'wa II	3	45	-	4
2. Religious pedagogy	2+1	30	15	6
3. Teaching methods of Islamic religion II	2+1	30	15	6
4. Educational psychology	2+1	30	15	6
5. Elective course	2	30	-	4
Total	15	180	45	26

225

ELECTIVE COURSES	Working hour	Total	Credits
1. Education in Islamic philosophy	2	30	4
2. Arabic language in practice	2	30	4
		60	

ECTS (European Credit Transfer System)

SEMESTER VI	ECTS						Credits
	L	E	S	C	Preparing hours		
					W/E	O/E	
1. Da'wa II	1,5	-	0,5	0,5	0,5	1	4
2. Religious pedagogy	1,5	1	0,5	0,5	1	1,5	6
3. Theachig methods of islamic religious II	1,5	1	0,5	0,5	1	1,5	6
4. Educational psychology	1,5	1	0,5	0,5	1	1,5	6
5. Elactive course	1,5	-	0,5	0,5	0,5	1	4
Total							26

L - lectures; E - exercises; S - seminars (studies,projects,etc); C - consultations; Preparing exams: W/E - writing exams, O/E - oral exams.