

**UNIVERSITY OF TRAVNIK
FACULTY OF TECHNICAL STUDIES**



**ECTS INFORMATION PACKAGE
(COURSE CATALOGUE)**

Academic Year 2014/2015

First Study Cycle – Undergraduate Studies

5. CURRICULA WITH SILLABY – 1ST CYCLE OF STUDIES - UNDERGRADUATE STUDIES**5.1. CURRICULA – 1ST CYCLE OF STUDIES - UNDERGRADUATE STUDIES****5.1.1. CURRICULUM FOR GRAPHIC ENGINEERING AND DESIGN – 1ST STUDY CYCLE - UNDERGRADUATE STUDIES****1ST SEMESTER**

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	MATHMENTICS 1	30+15+15	5	04.001-B
2.	PHYSICS 1	30+15+15	5	04.002-B
3.	CHEMISTRY	30+15+15	5	04.123-B
4.	INFORMATICS 1	30+15+15	5	04.006-B
5.	FOREIGN LANGUAGE 1	30+15+15	5	04.010-B
6.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

1st semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	ECONOMICS AND MARKETING	30+15+15	5	04.063-B
I	PHILOSOPHY	30+15+15	5	04.301-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

2ND SEMSETER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	MATHMENTICS 2	30+15+15	5	04.013-B
2.	PHYSICS 2	30+15+15	5	04.014-B
3.	GEOMETRY	30+15+15	5	04.235c-B
4.	INFORMATICS 2	30+15+15	5	04.017c-B
5.	FOREIGN LANGUAGE 2	30+15+15	5	04.021-B
6.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

2nd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	GENERAL AND MEDIA COMMUNICATION	30+15+15	5	04.100-B
I	GRAPHICS FOR ENGINEERS	30+15+15	5	04.004-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

3RD SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	VISUAL COMMUNICATION AND PRESENTATION	30+15+15	5	04.046-B
2.	ORGANIZATION AND MANAGEMENT	30+15+15	5	04.247-B
3.	NEW TECHNOLOGIES IN ENGINEERING	30+15+15	5	04.302-B
4.	QUALITY CONTROL	30+15+15	5	04.059-B
5.	ELECTIVE SUBJECT*	30+15+15	5	
6.	ELECTIVE SUBJECT*	30+15+15	5	
TOTAL:		360	30	

3rd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	INFORMATION MANAGEMENT	30+15+15	5	04.096-B
I	INTRODUCTION TO PROGRAMMING	30+15+15	5	04.196-B
I	INTRODUCTION TO GRAPHIC TECHNOLOGY	30+15+15	5	04.008c-B
I	PERSPECTIVE PROJECTION BASICS	30+15+15	5	04.236-B
I	MULTIMEDIA, DESIGN AND APPLICATION	30+15+15	5	04.085-B
I	2D AND 3D MODELLING	30+15+15	5	04.230-B
I	THEORY OF FORM AND DRAWING	30+30+15	5	04.231-B
I	MECHANICS	30+15+15	5	04.232-B
I	INTRODUCTION TO CIVIL ENGINEERING	30+15+15	5	04.303-B
I	MATERIALS AND STRENGTH OF MATERIALS	30+15+15	5	04.244-B
I	BASICS OF SAFETY AND PROTECTION AT WORK	30+15+15	5	04.245-B
I	ELECTRICAL ENGINEERING AND ELECTRONICS	30+15+15	5	04.278-B

I	THERMODYNAMICS AND THERMAL ENGINEERING	30+15+15	5	04.279-B
I	MECHANICAL ELEMENTS	30+15+15	5	04.249-B
I	HISTORY OF TEXTILE AND CLOTHING	30+15+15	5	04.274-B
I	INTRODUCTION TO ENVIRONMENTAL PROTECTION	30+15+15	5	04.276-B
I	TEXTILE AUXILIARIES	30+15+15	5	04.277-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

*Students choose electives based on their study program

4TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	PRINTING FORMS	30+15+15	5	04.040-B
2.	VISUAL ARTS	30+15+15	5	04.005c-B
3.	GRAPHIC MACHINES	30+15+15	5	04.143-B
4.	GRAPHIC MATERIALS 1	30+15+15	5	04.136-B
5.	ART PRACTICE 1	15+30+15	4	04.011b-B
6.	ELECTIVE SUBJECT	15+15+15	3	
7.	ELECTIVE SUBJECT	15+15+15	3	
TOTAL:		390	30	

4th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	ORIGINAL GRAPHICS 1	15+15+15	3	04.074-B
I	GRAPHIC TOOLS	15+15+15	3	04.238a-B
I	AUTOMATION AND MAINTENANCE OF GRAPHIC MACHINES	15+15+15	3	04.057a-B
I	POLYMER MATERIALS	15+15+15	3	04.054-B
F	PHYSICAL EDUCATION	15+15+0	0	04.311-B

5TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	WRAPPING MATERIALS 1	30+15+15	5	04.051-B
2.	OPTO SYSTEMS	30+15+15	5	04.047c-B

3.	ART AESTHETICS AND COMPOSITION	30+15+15	4	04.217b-B
4.	COMPUTER TYPOGRAPHY	15+30+15	4	04.239b-B
5.	ELECTIVE SUBJECT	15+30+15	4	
6.	ELECTIVE SUBJECT	15+30+15	4	
7.	ELECTIVE SUBJECT	15+30+15	4	
TOTAL:		420	30	

5th semester elective subjects

#	Subjects	Number of working hours (L+P+TP)	ECTS	Code
I	GRAPHIC DESIGN 1	15+30+15	4	04.078b-B
I	GRAPHIC STANDARDS	15+30+15	4	04.139b-B
I	WEB DESIGN	15+30+15	4	04.107b-B
I	COMPUTER SYSTEMS	15+30+15	4	04.145b-B
I	ART PRACTICE 2	15+30+15	4	04.024b-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

6th SEMESTER

#	Subjects	Number of working hours (L+P+TP)	ECTS	Code
1.	PRESS AND PRINTING TECHNICS	30+15+15	5	04.240c-B
2.	ENVIRONMENTAL PROTECTION	30+15+15	4	04.218-B
3.	ELECTIVE SUBJECT	15+30+15	4	
4.	ELECTIVE SUBJECT	15+15+15	3	
5.	ELECTIVE SUBJECT	15+15+15	3	
6.	INTERNSHIP	0+90+30	5	04.304-B
7.	FINAL PAPER	0+75+15K	6	04.305-B
TOTAL:		480	30	

6th semester elective subjects

#	Subjects	Number of working hours (L+P+TP)	ECTS	Code
I	BINDING	15+30+15	4	04.062b-B

I	PHOTOGRAPHY	15+30+15	4	04.103b-B
I	COLORIMETRY	15+15+15	3	04.091a-B
I	DIGITAL IMAGE PROCESSING	15+15+15	3	04.195a-B
I	PRINTING AND DESIGN	15+15+15	3	04.081a-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

5.1.2. CURRICULUM FOR ARCHITECTURE – 1ST STUDY CYCLE - UNDERGRADUATE STUDIES

1ST SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	MATHEMATICS 1	30+15+15	5	04.001-B
2.	PHYSICS 1	30+15+15	5	04.002-B
3.	CHEMISTRY	30+15+15	5	04.123-B
4.	INFORMATICS 1	30+15+15	5	04.006-B
5.	FOREIGN LANGUAGE 1	30+15+15	5	04.010-B
6.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

1st semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	ECONOMICS AND MARKETING	30+15+15	5	04.063-B
I	PHILOSOPHY	30+15+15	5	04.301-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

2ND SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	MATHEMATICS 2	30+15+15	5	04.013-B
2.	PHYSICS 2	30+15+15	5	04.014-B
3.	GEOMETRY	30+15+15	5	04.235c-B
4.	INFORMATICS 2	30+15+15	5	04.017c-B

5.	FOREIGN LANGUAGE 2	30+15+15	5	04.021-B
6.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

2nd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	GENERAL AND MEDIA COMMUNICATION	30+15+15	5	04.100-B
I	GRAPHICS FOR ENGINEERS	30+15+15	5	04.004-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

3RD SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	VISUAL COMMUNICATION AND PRESENTATION	30+15+15	5	04.046-B
2.	ORGANIZATION AND MANAGEMENT	30+15+15	5	04.247-B
3.	NEW TECHNOLOGIES IN ENGINEERING	30+15+15	5	04.302-B
4.	QUALITY CONTROL	30+15+15	5	04.059-B
5.	ELECTIVE SUBJECT*	30+15+15	5	
6.	ELECTIVE SUBJECT*	30+15+15	5	
TOTAL:		360	30	

3rd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	INFORMATION MANAGEMENT	30+15+15	5	04.096-B
I	INTRODUCTION TO PROGRAMMING	30+15+15	5	04.196-B
I	INTRODUCTION TO GRAPHIC TECHNOLOGY	30+15+15	5	04.008c-B
I	PERSPECTIVE PROJECTION BASICS	30+15+15	5	04.236-B
I	MULTIMEDIA, DESIGN AND APPLICATION	30+15+15	5	04.085-B
I	2D AND 3D MODELLING	30+15+15	5	04.230-B
I	THEORY OF FORM AND DRAWING	30+30+15	5	04.231-B
I	MECHANICS	30+15+15	5	04.232-B
I	INTRODUCTION TO CIVIL ENGINEERING	30+15+15	5	04.303-B
I	MATERIALS AND STRENGTH OF MATERIALS	30+15+15	5	04.244-B

I	BASICS OF SAFETY AND PROTECTION AT WORK	30+15+15	5	04.245-B
I	ELECTRICAL ENGINEERING AND ELECTRONICS	30+15+15	5	04.278-B
I	THERMODYNAMICS AND THERMAL ENGINEERING	30+15+15	5	04.279-B
I	MECHANICAL ELEMENTS	30+15+15	5	04.249-B
I	HISTORY OF TEXTILE AND CLOTHING	30+15+15	5	04.274-B
I	INTRODUCTION TO ENVIRONMENTAL PROTECTION	30+15+15	5	04.276-B
I	TEXTILE AUXILIARIES	30+15+15	5	04.277-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

* Students choose electives based on their study program

4th SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	ARCHITECTURAL DESIGN 1	30+15+15	6	04.148-B
2.	ARCHITECTURAL STRUCTURES 1	30+15+15	5	04.212-B
3.	DESIGN BASICS	30+15+15	4	04.146-B
4.	URBAN PLANNING 1	30+15+15	4	04.151-B
5.	HISTORY OF ESTATE ARCHITECTURE 1	30+0+15	3	04.154-B
6.	ELECTIVE SUBJECT	30+15+15	4	
7.	ELECTIVE SUBJECT	30+15+15	4	
TOTAL:		405	30	

4th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	CONCRETE STRUCTURES	30+15+15	4	04.177-B
I	ECONOMICS OF CONSTRUCTION	30+15+15	4	04.214-B
I	CONSTRUCTION STATISTICS 1	30+15+15	4	04.149-B
I	ARCHITECTURE OF PARKS	30+15+15	4	04.169b-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

5th SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
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1.	ARCHITECTURAL DESIGN 2	30+15+15	6	04.156-B
2.	ARCHITECTURAL CONSTRUCTION 2	30+15+15	5	04.215-B
3.	URBAN PLANNING 2	30+15+15	4	04.159-B
4.	HISTORY OF ESTATE ARCHITECTURE 2	30+0+15	3	04.161-B
5.	ELECTIVE SUBJECT	30+15+15	4	
6.	ELECTIVE SUBJECT	30+15+15	4	
7.	ELECTIVE SUBJECT	30+15+15	4	
TOTAL:		405	30	

5th semester elective classes

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	MASONRY STRUCTURES	30+15+15	4	04.224b-B
I	WOODEN AND METAL CONSTRUCTIONS	30+15+15	4	04.158-B
I	MATERIALS, FORMS AND ARCHITECTURE	30+0+15	4	04.162b-B
I	CONSTRUCTION STATISTICS 2	30+15+15	4	04.157-B
I	CONSTRUCTION MANAGEMENT	30+15+15	4	04.220-B
I	ARCHITECTURAL REGULATIONS	30+0+15	4	04.233b-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

6TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	CIVIL ENGINEERING HERITAGE PROTECTION BASICS	30+15+15	5	04.222c-B
2.	ART HISTORY	30+0+15	3	04.168a-B
3.	ELECTIVE SUBJECT	15+30+15	4	
4.	ELECTIVE SUBJECT	15+30+15	4	
5.	ELECTIVE SUBJECT	15+15+15	3	
6.	INTERNSHIP	0+90+30	5	04.304-B
7.	FINAL PAPER	0+75+15K	6	04.305-B
TOTAL		480	30	

6th semester elective classes

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	ARCHITECTURAL DESIGN 3	15+30+15	4	04.160b-B
I	INTERIORS AND DESIGN	15+30+15	4	04.165b-B
I	SPATIAL PLANNING AND DEVELOPMENT	15+15+15	3	04.163-B
I	INSTALLATION DESIGN	15+15+15	3	04.167-B
I	GEODESY	30+15+15	4	04.166-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

5.1.3. CURRICULUM FOR CIVIL ENGINEERING – 1ST STUDY CYCLE - UNDERGRADUATE STUDIES

1ST SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
7.	MATHEMATICS 1	30+15+15	5	04.001-B
8.	PHYSICS 1	30+15+15	5	04.002-B
9.	CHEMISTRY	30+15+15	5	04.123-B
10.	INFORMATICS 1	30+15+15	5	04.006-B
11.	FOREIGN LANGUAGE 1	30+15+15	5	04.010-B
12.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

1st semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	ECONOMICS AND MARKETING	30+15+15	5	04.063-B
I	PHILOSOPHY	30+15+15	5	04.301-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

2ND SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	MATHEMATICS 2	30+15+15	5	04.013-B
2.	PHYSICS 2	30+15+15	5	04.014-B
3.	GEOMETRY	30+15+15	5	04.235c-B
4.	INFORMATICS 2	30+15+15	5	04.017c-B
5.	FOREIGN LANGUAGE 2	30+15+15	5	04.021-B
6.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

2nd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	GENERAL AND MEDIA COMMUNICATION	30+15+15	5	04.100-B
I	GRAPHICS FOR ENGINEERS	30+15+15	5	04.004-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

3RD SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	VISUAL COMMUNICATION AND PRESENTATION	30+15+15	5	04.046-B
2.	ORGANIZATION AND MANAGEMENT	30+15+15	5	04.247-B
3.	NEW TECHNOLOGIES IN ENGINEERING	30+15+15	5	04.302-B
4.	QUALITY CONTROL	30+15+15	5	04.059-B
5.	ELECTIVE SUBJECT*	30+15+15	5	
6.	ELECTIVE SUBJECT*	30+15+15	5	
TOTAL:		360	30	

3rd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	INFORMATION MANAGEMENT	30+15+15	5	04.096-B
I	INTRODUCTION TO PROGRAMMING	30+15+15	5	04.196-B
I	INTRODUCTION TO GRAPHIC TECHNOLOGY	30+15+15	5	04.008c-B
I	PERSPECTIVE PROJECTION BASICS	30+15+15	5	04.236-B

I	MULTIMEDIA, DESIGN AND APPLICATION	30+15+15	5	04.085-B
I	2D AND 3D MODELLING	30+15+15	5	04.230-B
I	THEORY OF FORM AND DRAWING	30+30+15	5	04.231-B
I	MECHANICS	30+15+15	5	04.232-B
I	INTRODUCTION TO CIVIL ENGINEERING	30+15+15	5	04.303-B
I	MATERIALS AND STRENGTH OF MATERIALS	30+15+15	5	04.244-B
I	BASICS OF SAFETY AND PROTECTION AT WORK	30+15+15	5	04.245-B
I	ELECTRICAL ENGINEERING AND ELECTRONICS	30+15+15	5	04.278-B
I	THERMODYNAMICS AND THERMAL ENGINEERING	30+15+15	5	04.279-B
I	MECHANICAL ELEMENTS	30+15+15	5	04.249-B
I	HISTORY OF TEXTILE AND CLOTHING	30+15+15	5	04.274-B
I	INTRODUCTION TO ENVIRONMENTAL PROTECTION	30+15+15	5	04.276-B
I	TEXTILE AUXILIARIES	30+15+15	5	04.277-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

***Students choose electives based on their study program**
4TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	CONSTRUCTION MATERIALS	30+15+15	5	04.306-B
2.	SOIL AND ROCK MECHANICS 1	30+15+15	5	04.172-B
3.	BUILDING CONSTRUCTION ELEMENTS 1	30+15+15	5	04.181-B
4.	BUILDINGS DESIGN	30+15+15	4	04.173-B
5.	CONSTRUCTION STATICS 1	30+15+15	4	04.149-B
6.	ELECTIVE SUBJECT	30+15+15	4	
7.	ELECTIVE SUBJECT	15+15+15	3	
TOTAL:		405	30	

4th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	CONCRETE STRUCTURES	30+15+15	4	04.177-B
I	ECONOMICS OF CONSTRUCTION	30+15+15	4	04.214-B

I	BASIC TECHNOLOGY OF CONCRETE	15+15+15	3	04.175-B
I	BUILDING REGULATIONS	15+15+15	3	04.227-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

5th SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	BUILDING CONSTRUCTION ELEMENTS 2	30+15+15	5	04.237-B
2.	ENGINEERING HYDROLOGY	30+15+15	5	04.182-B
3.	HYDRO-MECHANICS	30+15+15	5	04.174-B
4.	CONSTRUCTION STATICS 2	30+15+15	4	04.157-B
5.	ELECTIVE SUBJECT	30+0+15	4	
6.	ELECTIVE SUBJECT	30+15+15	4	
7.	ELECTIVE SUBJECT	15+15+15	3	
TOTAL:		390	30	

5th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	MASONRY STRUCTURES	15+15+15	3	04.224a-B
I	CONSTRUCTION MANAGEMENT	30+15+15	4	04.220-B
I	WOODEN AND METAL CONSTRUCTIONS	30+15+15	4	04.158-B
I	TUNNELS	15+15+15	3	04.307-B
I	GEO-TECHNICAL ENGINEERING	30+0+15	4	04.226b-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

6th SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	WATER SUPPLY AND WATER DRAINAGE	30+15+15	4	04.187-B
2.	GEODESY	30+15+15	4	04.166-B
3.	ELECTIVE SUBJECT	30+15+15	4	
4.	ELECTIVE SUBJECT	30+15+15	4	
5.	ELECTIVE SUBJECT	15+15+15	3	

6.	INTERNSHIP	0+90+30	5	04.304-B
7.	FINAL PAPER	0+75+15K	6	04.305-B
TOTAL:		495	30	

6th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	SPATIAL PLANNING AND DEVELOPMENT	15+15+15	3	04.163-B
I	RAILWAYS	15+15+15	3	04.185-B
I	ROADS	30+15+15	4	04.225b-B
I	BRIDGES	30+15+15	4	04.308-B
I	ENGINEERING GEOLOGY	30+15+15	4	04.183b-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

5.1.4. CURRICULUM FOR IT FOR ENGINEERS – 1ST CYCLE OF STUDIES - UNDERGRADUATE STUDIES

1ST SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
13.	MATHEMATICS 1	30+15+15	5	04.001-B
14.	PHYSICS 1	30+15+15	5	04.002-B
15.	CHEMISTRY	30+15+15	5	04.123-B
16.	INFORMATICS 1	30+15+15	5	04.006-B
17.	FOREIGN LANGUAGE 1	30+15+15	5	04.010-B
18.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

1st semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	ECONOMICS AND MARKETING	30+15+15	5	04.063-B
I	PHILOSOPHY	30+15+15	5	04.301-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

2ND SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	MATHEMATICS 2	30+15+15	5	04.013-B
2.	PHYSICS 2	30+15+15	5	04.014-B
3.	GEOMETRY	30+15+15	5	04.235c-B
4.	INFORMATICS 2	30+15+15	5	04.017c-B
5.	FOREIGN LANGUAGE 2	30+15+15	5	04.021-B
6.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

2nd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	GENERAL AND MEDIA COMMUNICATION	30+15+15	5	04.100-B
I	GRAPHICS FOR ENGINEERS	30+15+15	5	04.004-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

3RD SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	VISUAL COMMUNICATION AND PRESENTATION	30+15+15	5	04.046-B
2.	ORGANIZATION AND MANAGEMENT	30+15+15	5	04.247-B
3.	NEW TECHNOLOGIES IN ENGINEERING	30+15+15	5	04.302-B
4.	QUALITY CONTROL	30+15+15	5	04.059-B
5.	ELECTIVE SUBJECT*	30+15+15	5	
6.	ELECTIVE SUBJECT*	30+15+15	5	
TOTAL:		360	30	

3rd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	INFORMATION MANAGEMENT	30+15+15	5	04.096-B
I	INTRODUCTION TO PROGRAMMING	30+15+15	5	04.196-B

I	INTRODUCTION TO GRAPHIC TECHNOLOGY	30+15+15	5	04.008c-B
I	PERSPECTIVE PROJECTION BASICS	30+15+15	5	04.236-B
I	MULTIMEDIA, DESIGN AND APPLICATION	30+15+15	5	04.085-B
I	2D AND 3D MODELLING	30+15+15	5	04.230-B
I	THEORY OF FORM AND DRAWING	30+30+15	5	04.231-B
I	MECHANICS	30+15+15	5	04.232-B
I	INTRODUCTION TO CIVIL ENGINEERING	30+15+15	5	04.303-B
I	MATERIALS AND STRENGTH OF MATERIALS	30+15+15	5	04.244-B
I	BASICS OF SAFETY AND PROTECTION AT WORK	30+15+15	5	04.245-B
I	ELECTRICAL ENGINEERING AND ELECTRONICS	30+15+15	5	04.278-B
I	THERMODYNAMICS AND THERMAL ENGINEERING	30+15+15	5	04.279-B
I	MECHANICAL ELEMENTS	30+15+15	5	04.249-B
I	HISTORY OF TEXTILE AND CLOTHING	30+15+15	5	04.274-B
I	INTRODUCTION TO ENVIRONMENTAL PROTECTION	30+15+15	5	04.276-B
I	TEXTILE AUXILIARIES	30+15+15	5	04.277-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

*Students choose electives based on their study program

4TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	ELECTRIC CIRCUITS AND DIGITAL LOGIC	30+15+15	5	04.193-B
2.	CONSTRUCTION OF ELECTRONIC DEVICES	30+15+15	5	04.192-B
3.	PROGRAMMING (C)	30+15+15	5	04.202c-B
4.	THEORY OF INFORMATION	30+15+15	4	04.191-B
5.	ALGORITHMS AND DATA STRUCTURES	30+15+15	4	04.194-B
6.	ELECTIVE SUBJECT	15+15+15	3	
7.	ELECTIVE SUBJECT	30+15+15	4	
TOTAL:		405	30	

4th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
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I	DIGITAL IMAGE PROCESSING	15+15+15	3	04.195-B
I	GRAPHIC TOOLS	15+15+15	3	04.238a-B
I	MICROPROCESSOR ARCHITECTURE	30+15+15	4	04.197-B
I	RELATIONAL DATABASES	30+15+15	4	04.207-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

5TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	SIGNALS, MEASUREMENTS AND SYSTEMS	30+15+15	5	04.198-B
2.	NEURAL NETWORKS	30+15+15	5	04.203c-B
3.	OBJECT-ORIENTED PROGRAMMING	30+15+15	5	04.208-B
4.	OPERATING SYSTEMS	30+15+15	4	04.201-B
5.	ELECTIVE SUBJECT	30+15+15	4	
6.	ELECTIVE SUBJECT	30+15+15	4	
7.	ELECTIVE SUBJECT	15+15+15	3	
TOTAL:		405	30	

5th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	WEB DESIGN	15+30+15	4	04.107-B
I	AUTOMATION	15+15+15	3	04.204a-B
I	E-LEARNING	30+15+15	4	04.234-B
I	COMPUTER SYSTEMS	15+30+15	4	04.145-B
I	ROBOTICS	15+15+15	3	04.205a-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

6TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	COMPUTER NETWORK AND NETWORK ARCHITECTURE	30+15+15	5	04.200-B
2.	INTRODUCTION TO METROLOGY	30+15+15	4	04.199-B

3.	ELECTIVE SUBJECT	30+15+15	4	
4.	ELECTIVE SUBJECT	15+15+15	3	
5.	ELECTIVE SUBJECT	15+15+15	3	
6.	INTERNSHIP	0+90+30	5	04.304-B
7.	FINAL PAPER	0+75+15K	6	04.305-B
TOTAL:		480	30	

6th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	MATHEMATICS PACKAGE	30+15+15	4	04.210-B
I	CAD/CAM SYSTEMS	15+15+15	3	04.209-B
I	MAT-LAB	15+15+15	3	04.211-B
I	TCP/IP PROTOCOL	15+15+15	3	04.206-B
I	APPLICATIONS DESIGN	30+15+15	4	04.219-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

1.1.5. CURRICULUM FOR SAFETY AND PROTECTION AT WORK– 1ST CYCLE OF STUDIES - UNDERGRADUATE STUDIES

1ST SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
19.	MATHEMATICS 1	30+15+15	5	04.001-B
20.	PHYSICS 1	30+15+15	5	04.002-B
21.	CHEMISTRY	30+15+15	5	04.123-B
22.	INFORMATICS 1	30+15+15	5	04.006-B
23.	FOREIGN LANGUAGE 1	30+15+15	5	04.010-B
24.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

1st semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	ECONOMICS AND MARKETING	30+15+15	5	04.063-B

I	PHILOSOPHY	30+15+15	5	04.301-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

2ND SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	MATHEMATICS 2	30+15+15	5	04.013-B
2.	PHYSICS 2	30+15+15	5	04.014-B
3.	GEOMETRY	30+15+15	5	04.235c-B
4.	INFORMATICS 2	30+15+15	5	04.017c-B
5.	FOREIGN LANGUAGE 2	30+15+15	5	04.021-B
6.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

2nd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	GENERAL AND MEDIA COMMUNICATION	30+15+15	5	04.100-B
I	GRAPHICS FOR ENGINEERS	30+15+15	5	04.004-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

3RD SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	VISUAL COMMUNICATION AND PRESENTATION	30+15+15	5	04.046-B
2.	ORGANIZATION AND MANAGEMENT	30+15+15	5	04.247-B
3.	NEW TECHNOLOGIES IN ENGINEERING	30+15+15	5	04.302-B
4.	QUALITY CONTROL	30+15+15	5	04.059-B
5.	ELECTIVE SUBJECT*	30+15+15	5	
6.	ELECTIVE SUBJECT*	30+15+15	5	
TOTAL:		360	30	

3rd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	INFORMATION MANAGEMENT	30+15+15	5	04.096-B

I	INTRODUCTION TO PROGRAMMING	30+15+15	5	04.196-B
I	INTRODUCTION TO GRAPHIC TECHNOLOGY	30+15+15	5	04.008c-B
I	PERSPECTIVE PROJECTION BASICS	30+15+15	5	04.236-B
I	MULTIMEDIA, DESIGN AND APPLICATION	30+15+15	5	04.085-B
I	2D AND 3D MODELLING	30+15+15	5	04.230-B
I	THEORY OF FORM AND DRAWING	30+30+15	5	04.231-B
I	MECHANICS	30+15+15	5	04.232-B
I	INTRODUCTION TO CIVIL ENGINEERING	30+15+15	5	04.303-B
I	MATERIALS AND STRENGTH OF MATERIALS	30+15+15	5	04.244-B
I	BASICS OF SAFETY AND PROTECTION AT WORK	30+15+15	5	04.245-B
I	ELECTRICAL ENGINEERING AND ELECTRONICS	30+15+15	5	04.278-B
I	THERMODYNAMICS AND THERMAL ENGINEERING	30+15+15	5	04.279-B
I	MECHANICAL ELEMENTS	30+15+15	5	04.249-B
I	HISTORY OF TEXTILE AND CLOTHING	30+15+15	5	04.274-B
I	INTRODUCTION TO ENVIRONMENTAL PROTECTION	30+15+15	5	04.276-B
I	TEXTILE AUXILIARIES	30+15+15	5	04.277-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

* Students choose electives based on their study program

4TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	ECONOMICS OF SAFETY AT WORK	30+15+15	5	04.251-B
2.	INDUSTRIAL MANAGEMENT	30+0+15	5	04.252-B
3.	HUMAN FACTORS IN SAFETY	30+15+15	4	04.253-B
4.	LEGAL BASIS OF SECURITY AND SAFETY AT WORK	30+0+15	4	04.254-B
5.	PRODUCTION TECHNOLOGIES AND PROCESSES	30+15+15	4	04.246-B
6.	ELECTIVE SUBJECT	30+15+15	4	
7.	ELECTIVE SUBJECT	30+15+15	4	
TOTAL:		390	30	

4th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	FLUID MECHANICS	30+15+15	4	04.255-B
I	THERMAL POWER PROCESSES	30+15+15	4	04.256-B
I	PHYSICAL AND CHEMICAL PARAMETERS WORK PLACE AND ENVIRONMENT (MICRO- CLIMATE AND WORKING ENVIRONMENT)	30+15+15	4	04.257-B
I	REGULATION TECHNIQUE	30+15+15	4	04.258-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

5TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	PROTECTION AGAINST HAZARDOUS EFFECTS OF ELECTRICITY	30+15+15	5	04.259-B
2.	SYSTEMS AND DEVICES FOR SAFETY AND PROTECTION	30+15+15	5	04.260-B
3.	PROTECTION FROM FIRE AND EXPLOSIONS	30+15+15	4	04.261-B
4	DESIGN OF SYSTEMS AND DEVICES FOR SAFETY AND PROTECTION	30+15+15	4	04.264-B
5.	ELECTIVE SUBJECT	30+15+15	4	
6.	ELECTIVE SUBJECT	30+15+15	4	
7.	ELECTIVE SUBJECT	30+15+15	4	
TOTAL:		420	30	

5th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	INDUSTRIAL BUILDINGS AND URBANIZATION	30+15+15	4	04.262-B
I	DATA PROCESSING AND ANALYSIS	30+15+15	4	04.263-B
I	SPATIAL PLANNING, SAFETY AND PROTECTION	30+15+15	4	04.265-B
I	SAFETY MEASURES TECHNOLOGY	30+15+15	4	04.266-B
I	WASTE MANAGEMENT	30+15+15	4	04.267-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

6TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
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1.	NOISE AND VIBRATION	30+15+15	5	04.268-B
2.	ENVIRONMENTAL PROTECTION	30+15+15	4	04.218-B
3.	ELECTIVE SUBJECT	30+15+15	4	
4.	ELECTIVE SUBJECT	15+15+15	3	
5.	ELECTIVE SUBJECT	15+15+15	3	
6.	INTERNSHIP	0+90+30	5	04.304-B
7.	FINAL PAPER	0+75+15K	6	04.305-B
TOTAL:		480	30	

6th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	ASSESSMENT OF RISKS AND SIMULATION	15+15+15	3	04.270-B
I	ENERGY PROCESSES AND THE ENVIRONMENT	15+15+15	3	04.271-B
I	ERGONOMICS	30+15+15	4	04.272-B
I	OCCUPATIONAL MEDICINE	15+15+15	3	04.269-B
I	MEANS OF FIRE EXTINCTION AND ALARM SYSTEMS	30+15+15	4	04.309-B
F	PHYSICAL EDUCATION	15+15+0	0	04.311-B

1.1.5. CURRICULUM FOR TEXTILE ENGINEERING AND DESIGN – 1ST STUDY CYCLE - UNDERGRADUATE STUDIES**1ST SEMESTER**

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	MATHEMATICS 1	30+15+15	5	04.001-B
2.	PHYSICS 1	30+15+15	5	04.002-B
3.	CHEMISTRY	30+15+15	5	04.123-B
4.	INFORMATICS 1	30+15+15	5	04.006-B
5.	FOREIGN LANGUAGE 1	30+15+15	5	04.010-B
6.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

1st semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	ECONOMICS AND MARKETING	30+15+15	5	04.063-B
I	PHILOSOPHY	30+15+15	5	04.301-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

2ND SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	MATHEMATICS 2	30+15+15	5	04.013-B
2.	PHYSICS 2	30+15+15	5	04.014-B
3.	GEOMETRY	30+15+15	5	04.235c-B
4.	INFORMATICS 2	30+15+15	5	04.017c-B
5.	FOREIGN LANGUAGE 2	30+15+15	5	04.021-B
6.	ELECTIVE SUBJECT	30+15+15	5	
TOTAL:		360	30	

2nd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	GENERAL AND MEDIA COMMUNICATION	30+15+15	5	04.100-B
I	GRAPHICS FOR ENGINEERS	30+15+15	5	04.004-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

3RD SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	VISUAL COMMUNICATION AND PRESENTATION	30+15+15	5	04.046-B
2.	ORGANIZATION AND MANAGEMENT	30+15+15	5	04.247-B
3.	NEW TECHNOLOGIES IN ENGINEERING	30+15+15	5	04.302-B
4.	QUALITY CONTROL	30+15+15	5	04.059-B
5.	ELECTIVE SUBJECT*	30+15+15	5	
6.	ELECTIVE SUBJECT*	30+15+15	5	
TOTAL:		360	30	

3rd semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	INFORMATION MANAGEMENT	30+15+15	5	04.096-B
I	INTRODUCTION TO PROGRAMMING	30+15+15	5	04.196-B
I	INTRODUCTION TO GRAPHIC TECHNOLOGY	30+15+15	5	04.008c-B
I	PERSPECTIVE PROJECTION BASICS	30+15+15	5	04.236-B
I	MULTIMEDIA, DESIGN AND APPLICATION	30+15+15	5	04.085-B
I	2D AND 3D MODELING	30+15+15	5	04.230-B
I	THEORY OF FORM AND DRAWING	30+30+15	5	04.231-B
I	MECHANICS	30+15+15	5	04.232-B
I	INTRODUCTION TO CIVIL ENGINEERING	30+15+15	5	04.303-B
I	MATERIALS AND STRENGTH OF MATERIALS	30+15+15	5	04.244-B
I	BASICS OF SAFETY AND PROTECTION AT WORK	30+15+15	5	04.245-B
I	ELECTRICAL ENGINEERING AND ELECTRONICS	30+15+15	5	04.278-B
I	THERMODYNAMICS AND THERMAL ENGINEERING	30+15+15	5	04.279-B
I	MECHANICAL ELEMENTS	30+15+15	5	04.249-B
I	HISTORY OF TEXTILE AND CLOTHING	30+15+15	5	04.274-B
I	INTRODUCTION TO ENVIRONMENTAL PROTECTION	30+15+15	5	04.276-B
I	TEXTILE AUXILIARIES	30+15+15	5	04.277-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

* Students choose electives based on their study program

4TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	TEXTILE MATERIALS	30+15+15	5	04.273-B
2.	THEORY OF DESIGN AND FORMS	30+15+15	5	04.281-B
3.	DRAWING AND PAINTING	30+15+15	4	04.282-B
4.	THE GARMENT MANUFACTURING PROCESSES	30+15+15	4	04.283-B
5	TEXTILE FIBERS	30+15+15	4	04.280-B
6.	ELECTIVE SUBJECT	30+0+15	4	
7.	ELECTIVE SUBJECT	30+0+15	4	

TOTAL:	390	30
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4th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	INDUSTRIAL MANAGEMENT	30+0+15	4	04.252b-B
I	ECONOMICS AND ENTERPRISE	30+15+15	4	04.284-B
I	APPLICATION OF CAD / CAM SYSTEMS	30+15+15	4	04.285-B
I	ART HISTORY	30+0+15	4	04.168b-B
I	IMPROVEMENT OF TECHNICAL TEXTILES	30+0+15	4	04.286-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

5th SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	CLOTHING CONSTRUCTION	30+15+15	5	04.287-B
2.	STRUCTURE AND DESIGN OF FABRIC	30+15+15	5	04.288-B
3.	DYEING OF TEXTILE MATERIALS	30+15+15	4	04.289-B
4	MODELING OF CLOTHES	30+15+15	4	04.293-B
5.	ELECTIVE SUBJECT	30+15+15	4	
6.	ELECTIVE SUBJECT	30+15+15	4	
7.	ELECTIVE SUBJECT	30+15+15	4	
TOTAL:		420	30	

5th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	KNITTING AND DESIGN	30+15+15	4	04.290-B
I	SPINNING	30+15+15	4	04.291-B
I	MANAGEMENT OF QUALITY SYSTEM	30+15+15	4	04.292-B
I	AUTOMATION IN TEXTILE INDUSTRY	30+15+15	5	04.294-B
I	PROCESSING AND DATA ANALYSIS	30+15+15	4	04.263-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

6TH SEMESTER

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
1.	TEXTILE MATERIALS PROCESSING	30+15+15	5	04.295-B
2.	NONWOVENS	30+15+15	4	04.296-B
3.	ELECTIVE SUBJECT	30+15+15	4	
4.	ELECTIVE SUBJECT	15+15+15	3	
5.	ELECTIVE SUBJECT	15+15+15	3	
6.	INTERNSHIP	0+90+30	5	04.304-B
7.	FINAL PAPER	0+75+15K	6	04.305-B
TOTAL:		480	30	

6th semester elective subjects

#	Subject	Number of working hours (L+P+TP)	ECTS	Code
I	PHILOSOPHY OF DRESSING	15+15+15	3	04.298-B
I	PRINTING OF TEXTILE MATERIALS	15+15+15	3	04.299-B
I	TEXTILE TESTING	30+15+15	4	04.300-B
I	CLOTHING DESIGN	30+15+15	4	04.297-B
I	FASHION DESIGN	15+15+15	3	04.310-B
F	PHYSICAL EDUCATION	15+15+0	-	04.311-B

*Legend:**L- Lectures**PV- Practical Classes**TP – Term Paper**E - Electives**F – Optional Classes**K – Consultations*