

STRUCTURE OF ACADEMIC PROGRAM
“TECHNOLOGY OF TEXTILE AND CLOTHING”
FIRST CYCLE - 240 ECTS (FOUR YEAR STUDIES)

COURSE PROGRAMS
FIRST YEAR - FIRST SEMESTER

Order no.	Subjects	ECTS	Class of classes	Total hours
1.	Mathematics 1	8	3+2+2	240
2.	General and inorganic chemistry	8	3+2+2	240
3.	Informatics	6	2+2+1	180
4.	Elective faculty subjects from the list no. 1-1	4	2+1+1	120
5.	Elective faculty subjects from the list no. 1-2	4	2+1+1	120
6.	Sport and recreation	*	0+0+2	
Total ECTS		30	12+8+9	900

List no. 1-1 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1.	Drawing techniques	4	2+1+1	120
2.	Physics	4	2+1+1	120

List no. 1-2 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1.	English language 1	4	2+1+1	120
2.	Graphic design	4	2+1+1	120

COURSE PROGRAMS, FIRST YEAR, SECOND SEMESTER

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Mathematics 2	8	3+2+2	240
2	Basics of technological engineering	6	2+2+1	180
3	Organic chemistry	6	2+2+1	180
4	Elective faculty subjects from the list no. 1-3	4	2+1+1	120
5	Elective university subjects from the list no. 5	4	2+1+1	120
6	Practical teaching *	2		60
Total ECTS		30	11+8+6	900

*** Practical teaching - compulsory realization for transfer to the next academic year, only for first (1) cycle of studies. Performed for 30 days.**

List no. 1-3 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	English language 2	4	2+1+1	120
2.	Mechanics	4	2+1+1	120

COURSE PROGRAMS, SECOND YEAR, THIRD SEMESTER

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Chemistry and physics of polymers	8	3+2+2	240
2	Textile fibers	8	3+2+2	240
3	Physical chemistry	6	2+2+1	180
4	Elective faculty subjects from the list no. 2.1	4	2+1+1	120
5	Elective faculty subjects from the list no. 2.2	4	2+1+1	120
Total ECTS		30	12+8+7	900

List no. 2.1 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Fundamentals of management	4	2+1+1	120
2	Quality systems and standards	4	2+1+1	120

List no. 2.2 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Business communications	4	2+1+1	120
2	Product development	4	2+1+1	120

COURSE PROGRAMS, SECOND YEAR, FOURTH SEMESTER

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Mechanical textile technology 1	6	2+2+1	180
2	Creating of clothes	8	3+2+2	240
3	Structure and properties of textiles	6	2+2+1	180
4	Elective faculty subjects from the list no. 2.3	4	2+1+1	120
5	Elective university subjects from the list no. 5	4	2+1+1	120
6	Practical teaching *	2		60
Total ECTS		30		900

*** Practical teaching - compulsory realization for transfer to the next academic year, only for first (1) cycle of studies. Performed for 30 days.**

List no. 2.3 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Thermodynamics	4	2+1+1	120
2	Analytical chemistry	4	2+1+1	120
3	Basics of design	4	2+1+1	120
4	History of clothing	4	2+1+1	120

COURSE PROGRAMS, THIRD YEAR, FIFTH SEMESTER

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Mechanical textile technology 2	6	2+2+1	180
2	Construction of clothing 1	8	3+2+2	240
3	Technology of making of clothing 1	8	3+2+2	240
4	Elective faculty subjects from the list no. 3.1	4	2+1+1	120
5	Elective faculty subjects from the list no. 3.2	4	2+1+1	120
Total ECTS		30	12+8+7	900

List no. 3.1 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Textile quality and standards	4	2+1+1	120
2	Application of textiles in composites	4	2+1+1	120

List no. 3.2 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Analysis of labor	4	2+1+1	120
2	Design of textile and clothing	4	2+1+1	120

COURSE PROGRAMS, THIRD YEAR, SIXTH SEMESTER

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Technology of making of clothing 2	8	3+2+2	240
2	Construction of clothing 2	6	2+2+1	180
3	Machines and devices in clothing production	6	2+2+1	180
4	Elective faculty subjects from the list no.3.3	4	2+1+1	120
5	Elective university subjects from the list no. 5	4	2+1+1	120
6	Practical teaching *	2		60
Total ECTS		30	11+8+6	900

*** Practical teaching - compulsory realization for transfer to the next academic year, only for first (1) cycle of studies. Performed for 30 days.**

List no. 3.3 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Protective materials	4	2+1+1	120
2	Management in clothing production	4	2+1+1	120

COURSE PROGRAMS, FOURTH YEAR, SEVENTH SEMESTER

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Chemical Textile Technology 1	8	3+2+2	240
2	Examination of textiles	8	3+2+2	240
3	Textile care	6	2+2+1	180
4	Elective faculty subjects from the list no. 4.1	4	2+1+1	120
5	Elective faculty subjects from the list no. 4.2	4	2+1+1	120
Total ECTS		30	12+8+7	900

List no. 4.1 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Planning experiments	4	2+1+1	120
2	Textile printing	4	2+1+1	120

List no. 4.2 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Modeling of clothes	4	2+1+1	120
2	Management of waste	4	2+1+1	120

COURSE PROGRAMS, FOURTH YEAR, EIGHTH SEMESTER

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Design of technological processes	4	2+1+1	120
2	CAD/CAM	4	2+1+1	120
	Chemical textile technology 2	4	2+1+1	120
3	Graduate thesis	6	2+2+1	180
4	Elective faculty subjects from the list no. 4.3	4	2+1+1	120
5	Elective university subjects from the list no.5	4	2+1+1	120
6	Practical teaching - interdisciplinary project *	4	0+0+4	120
Total ECTS		30	12+9+6	900

* Practical teaching - interdisciplinary project foreseen in 8 semesters, will be evaluated with 4 ECTS, and it will be provided by a mentor who is a teacher in the professional subjects of the faculty. It will be performed 2 days a week for 4 hours, or one day a week for 8 hours.

List no. 4.3 of elective faculty subjects (one elective subject)

Order no.	Subjects	ECTS	Class of classes	Total hours
1	Technical textiles	4	2+1+1	120
2	Industrial design	4	2+1+1	120

List no. 5 of electives from the free list of University courses for the first cycle of study (4 - four subjects are selected)

Code	List of University electives subjects II, IV, VI and VIII semesters			
	SUBJECTS	Credits	Hours	Total
UGD100117	Macedonian literature and culture	4	0+0+4	120
UGD100217	Macedonian language and spelling	4	0+0+4	120
UGD100317	Ethics	4	0+0+4	120
UGD100417	History of Macedonia	4	0+0+4	120
UGD100517	Authors right	4	0+0+4	120
UGD100617	Tolerance and conflict resolution	4	0+0+4	120
UGD100717	Business systems	4	0+0+4	120
UGD100817	Tourism industry	4	0+0+4	120
UGD100917	Entrepreneurship and innovation	4	0+0+4	120
UGD101017	Management of self-development and behavior	4	0+0+4	120
UGD101117	Business economics	4	0+0+4	120
UGD101217	Choral singing	4	0+0+4	120
UGD101317	Music and art	4	0+0+4	120
UGD101417	Introduction to film history	4	0+0+4	120
UGD101517	Dramaturgy	4	0+0+4	120
UGD101617	Basics of drawing	4	0+0+4	120
UGD101717	History of classical painting	4	0+0+4	120
UGD101817	Health promotion	4	0+0+4	120
UGD101917	Oral health and hygiene	4	0+0+4	120
UGD102017	Precious and semiprecious minerals	4	0+0+4	120
UGD102117	Earth science	4	0+0+4	120
UGD102217	Wildlife Science	4	0+0+4	120
UGD102317	Environmental Protection	4	0+0+4	120
UGD102417	Intelligent electronic components and devices	4	0+0+4	120
UGD102517	Experiment planning	4	0+0+4	120
UGD102617	History of clothing	4	0+0+4	120
UGD102717	Management and quality control	4	0+0+4	120
UGD102817	Informatics	4	0+0+4	120
UGD102917	Basics of programming	4	0+0+4	120