

**3.2.6 Textile Sciences****FIRST YEAR**

Fall Semester			Spring Semester		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
		Th Pr Total			Th Pr Total
TE-111	Textile Chemistry	3 1 4	TE-211	Textile Yarn Manufacturing Processes	3 1 4
ME-110	Basic Mechanical Engineering	2 0 2	MT-114	Calculus	3 0 3
EA-114	Functional English	2 0 2	ES-105/	Pakistan Studies OR	2 0 2
TS-119	Introduction to Textiles	2 0 2	ES-127	Pakistan Studies (for foreigners)	
TE-234	Polymer & Fiber Science	2 1 3	PH-122	Applied Physics	3 1 4
ES-205/	Islamic Studies OR	2 0 2	EA-115	Academic Reading and Writing	3 0 3
ES-209	Ethical Behaviour (for non muslims)				
MT-100	Introduction to Mathematics	- - NC			

**SECOND YEAR**

Fall Semester			Spring Semester		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
		Th Pr Total			Th Pr Total
IM-207	Computer Programming & Drafting	2 1 3	MF-303	Applied Economics for Engineers	3 0 3
TS-209	Colour Science	2 1 3	TS-364	Knitting Technology	3 1 4
TS-341	Advanced Yarn Production Processes	3 1 4	TS-480	Technical Textiles	3 0 3
TE-322	Textile Fabric Manufacturing Processes	3 1 4	TS-245	Pre-treatment in Textiles	3 1 4
MT-225	Linear Algebra & Ordinary Differential Equations	3 0 3	TS-243	Textile Testing-I	2 1 3
			EA-200	Community Service	- - NC

**THIRD YEAR**

Fall Semester			Spring Semester		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
		Th Pr Total			Th Pr Total
TS-465	Advanced Fabric Manufacturing Techniques	3 0 3	TE-318	Textile & Environment	2 0 2
TE-307	Utilities for Textile Industry	3 1 4	TE-453	Garment Manufacturing	3 0 3
TS-356	Textile Dyeing	3 1 4	TS-358	Textile Printing	3 1 4
TS-357	CAD/CAM in Apparel Industry	3 1 4	TS-371	Textile Testing-II	2 1 3
EA-304	Business Communication & Ethics	3 0 3	TS-359	Denim Manufacturing Process	3 0 3
			##-###	Foreign Language-I	- - NC

**FINAL YEAR**

Fall Semester			Spring Semester		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
		Th Pr Total			Th Pr Total
T#-###	Elective-1	3 1 4	T#-###	Elective-2	3 1 4
TE-452	Textile Finishing	3 1 4	MG-481	Entrepreneurship	3 0 3
TE-305	Quality Control in Textiles	2 0 2	TE-454	Textile Merchandizing	3 0 3
TS-458	Project*	0 3 3	TE-406	Textile Production Management	3 0 3
MG-482	Organizational Behaviour	3 0 3	TS-458	Project	0 3 3
##-###	Foreign Language-II	- - NC			

**Elective – I**

TE-455	Advanced Garment Manufacturing Process
TS-460	Smart Textiles
TS-462	Textile Composites

**Elective – II**

TS-456	Industrial Engineering in Apparel
TS-459	Protective Textiles
TS-457	Geo Textiles
TS-461	Fashion Designing

\* Duration one academic year: Requires literature survey and preliminary work during this Semester

