



University of Chittagong
Faculty of Engineering

Department of Textile Engineering

Syllabus for Bachelor of Science in Engineering in Textile Engineering

Session: 2020-2021 and 2021-2022

First Semester

Course Code	Course Title	Credits		Hours/Week	
		Theory	Laboratory	Theory	Laboratory
TE 111	Introduction to Textile Engineering	3	-	3	-
TE 113	Textile Raw Materials I	3	-	3	-
TE 114	Engineering Drawing Lab	-	2	-	4
MAT 131	Mathematics I	3	-	3	-
PHY 141	Physics I	3	-	3	-
PHY 142	Physics I Lab	-	1	-	2
CHE 161	Chemistry I	3	-	3	-
CHE 162	Chemistry I Lab	-	1	-	2
	Total for Semester	15	4	15	8
Total for Semester (Theory + Laboratory)		19		23	
Cumulative Total		15	4	15	8

Second Semester

Course Code	Course Title	Credits		Hours/Week	
		Theory	Laboratory	Theory	Laboratory
TE 211	Polymer Science	3	-	3	-
TE 213	Engineering Materials & Practices	3	-	3	-
TE 214	Engineering Materials & Practices Lab	-	1	-	2
MAT 231	Mathematics II	3	-	3	-
PHY 241	Physics II	3	-	3	-
PHY 242	Physics II Lab	-	1	-	2
CHE 261	Chemistry II	3	-	3	-
CHE 262	Chemistry II Lab	-	1	-	2
HUM 271	Technical and Communicative English	3	-	3	-
	Total for Semester	18	3	18	6
Total for Semester (Theory + Laboratory)		21		24	
Cumulative Total		33	7	33	14

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Third Semester

Course Code	Course Title	Credits		Hours/Week	
		Theory	Laboratory	Theory	Laboratory
TE 311	Textile Physics I	3	-	3	-
TE 313	Yarn Manufacturing I	3	-	3	-
TE 314	Yarn Manufacturing I Lab	-	1	-	2
TE 315	Fabric Manufacturing I	3	-	3	-
TE 316	Fabric Manufacturing I Lab	-	1	-	2
TE 317	Fabric Structure & Design	3	-	3	-
TE 318	Fabric Structure & Design Lab	-	1	-	2
CSE 381	Computer Programming	3	-	3	-
CSE 382	Computer Programming Lab	-	1	-	2
Total for Semester		15	4	15	8
Total for Semester (Theory + Laboratory)		19		23	
Cumulative Total		48	11	48	22

Fourth Semester

Course Code	Course Title	Credits		Hours/Week	
		Theory	Laboratory	Theory	Laboratory
TE 411	Wet Processing I	3	-	3	-
TE 412	Wet Processing I Lab	-	1	-	2
TE 413	Garments Manufacturing I	3	-	3	-
TE 414	Garments Manufacturing I Lab	-	1	-	2
TE 415	Textile Testing & Quality Control I	3	-	3	-
TE 416	Textile Testing & Quality Control I Lab	-	1	-	2
TE 417	Textile Raw Materials II	3	-	3	-
STA 451	Statistics	3	-	3	-
HUM 473	Bangladesh Studies	2	-	2	-
Total for Semester		17	3	17	6
Total for Semester (Theory + Laboratory)		20		23	
Cumulative Total		65	14	65	28

Fifth Semester

Course Code	Course Title	Credits		Hours/Week	
		Theory	Laboratory	Theory	Laboratory
TE 511	Yarn Manufacturing II	3	-	3	-
TE 512	Yarn Manufacturing II Lab	-	1	-	2
TE 513	Fabric Manufacturing II	3	-	3	-
TE 514	Fabric Manufacturing II Lab	-	1	-	2
TE 515	Textile Testing & Quality Control II	3	-	3	-
TE 516	Textile Testing & Quality Control II Lab	-	1	-	2
EEE 521	Fundamentals of Electrical & Electronics Engineering	3	-	3	-
EEE 522	Fundamentals of Electrical & Electronics Engineering Lab	-	1	-	2
HUM 571	Accounting	2	-	2	-
HUM 573	Marketing	2	-	2	-
HUM 576	Technical Writing and Presentation	-	1	-	2
Total for Semester		16	5	16	10
Total for Semester (Theory + Laboratory)		21		26	
Cumulative Total		81	19	81	38

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Sixth Semester

Course Code	Course Title	Credits		Hours/Week	
		Theory	Laboratory	Theory	Laboratory
TE 611	Wet Processing II	3	-	3	-
TE 612	Wet Processing II Lab	-	1	-	2
TE 613	Garments Manufacturing II	3	-	3	-
TE 614	Garments Manufacturing II Lab	-	1	-	2
TE 615	Textile Physics II	3	-	3	-
TE 617	Industrial Management	3	-	3	-
ME 691	Fundamentals of Mechanical Engineering	3	-	3	-
ME 692	Fundamentals of Mechanical Engineering Lab	-	1	-	2
HUM 671	Economics	2	-	2	-
	Total for Semester	17	3	17	6
Total for Semester (Theory + Laboratory)		20		23	
Cumulative Total		98	22	98	44

Seventh Semester

Course Code	Course Title	Credits		Hours/Week	
		Theory	Laboratory	Theory	Laboratory
TE 700	Project / Thesis	-	2	-	4
TE 711	Textile Testing & Quality Control III	3	-	3	-
TE 712	Textile Testing & Quality Control III Lab	-	1	-	2
TE 713	Production Planning & Control	3	-	3	-
TE 715	Application of Computer in Textile	3	-	3	-
TE 716	Application of Computer in Textile Lab	-	1	-	2
TE 717	Option - I	3	-	3	-
TE 718	Option - I Lab	-	1	-	2
TE 719	Environment Studies	3	-	3	-
	Total for Semester	15	5	15	10
Total for Semester (Theory + Laboratory)		20		25	
Cumulative Total		113	27	113	54

Eighth Semester

Course Code	Course Title	Credits		Hours/Week	
		Theory	Laboratory	Theory	Laboratory
TE 800	Project Work / Thesis	-	4	-	8
TE 811	Utility Services & Maintenance of Textile Machinery	3	-	3	-
TE 812	Utility Services & Maintenance of Textile Machinery Lab	-	1	-	2
TE 813	Technical Textile	3	-	3	-
TE 814	Industrial Attachment	-	3	-	6
TE 816	Comprehensive	-	2	-	4
TE 817	Option - II	3	-	3	-
TE 818	Option - II Lab	-	1	-	2
	Total for Semester	9	11	9	22
Total for Semester (Theory + Laboratory)		20		31	
Cumulative Total		122	38	122	76
Cumulative Grand Total (Theory + Laboratory)		160		198	