

SONARGAON UNIVERSITY

B.Sc. in Textile Engineering

Program & Course Curriculum

Department of Textile Engineering

4 Years | 12 Semesters (Tri-Semester System) | 161 Credits

Program Overview

Program Name	B. Sc. in Textile Engineering
Level	Undergraduate
Degree Awarded	B. Sc. in Textile Engineering
Duration	4 Years (12 Semesters - Tri-Semester System)
Total Credits	161
Specialization	Textile Engineering

The department of Textile Engineering offers 4-Year Undergraduate Program titled Bachelor of Science (B. Sc.) in Textile Engineering. The program will make the students capable in identifying, and solving Textile Engineering problems that meet specified performance, reliability cost, time and other quality needs. Apart from the essential knowledge in Mathematics, Statistics, Textile Engineering theories, and labs, this program also offers the students to acquire knowledge in a specialized sector. This program also emphasizes on industry and research-based projects, which would enhance their skills to become successful professionals for an overall development.

Course Structure

91 courses across 12 semesters

1st Year 1st Semester

6 courses | 15 credits

Code	Course	Credits
Chem 1101	Chemistry I	3
Chem 1102	Chemistry I Sessional [Sessional]	1.5
Phy 1101	Physics I	3
Phy 1102	Physics I Sessional [Sessional]	1.5
Math 1101	Mathematics I	3
TE 1101	Textile Raw Materials I	3

1st Year 2nd Semester

5 courses | 12 credits

Code	Course	Credits
Hum 1201	History of the Emergence of Bangladesh	3
Chem 1201	Chemistry II	3
Chem 1202	Chemistry II Sessional [Sessional]	1.5
Phy 1201	Physics II	3
Phy 1202	Physics II Sessional [Sessional]	1.5

1st Year 3rd Semester

7 courses | 13.75 credits

Code	Course	Credits
ME 1300	Engineering Drawing	1.5
ME 1301	Engineering Materials	3
ME 1302	Engineering Materials Sessional [Sessional]	1.5
TE 1301	Polymer Science & Engineering	2
TE-1303	Textile Raw Materials II (Prereq: TE 1101)	3
Ban 1301	Bangla Language and Literature	2
TE 4300	Comprehensive Viva on 1st year courses	0.75

2nd Year 1st Semester

6 courses | 13 credits

Code	Course	Credits
TE 2101	Fabric Manufacturing I	3
TE 2102	Fabric Manufacturing I Sessional [Sessional]	1.5
Hum 2101	English Language	3
Hum 2102	English Language Sessional [Sessional]	1
TE 2103	Yarn Manufacturing I	3

Code	Course	Credits
TE 2104	Yarn Manufacturing I Sessional [Sessional]	1.5

2nd Year 2nd Semester

5 courses | 12 credits

Code	Course	Credits
Math 2201	Mathematics II	3
TE 2201	Wet Processing I Theory	3
TE 2202	Wet Processing I Sessional [Sessional]	1.5
TE 2203	Apparel Manufacturing I Theory	3
TE 2204	Apparel Manufacturing I Sessional [Sessional]	1.5

2nd Year 3rd Semester

7 courses | 14.25 credits

Code	Course	Credits
CSE 2301	Computer Fundamentals	2
CSE 2302	Computer Fundamentals Sessional [Sessional]	1
Hum 2301	Industrial Management and Economics	3
Hum 2303	Accounting	3
TE 2305	Textile Testing & Quality Control I	3
TE 2306	Textile Testing & Quality Control I Sessional [Sessional]	1.5
TE 4300	Comprehensive Viva on 2nd year courses	0.75

3rd Year 1st Semester

6 courses | 13.5 credits

Code	Course	Credits
TE 3103	Yarn Manufacturing II Theory (Prereq: TE 2103)	3
TE 3104	Yarn Manufacturing II Sessional [Sessional]	1.5
ME 3101	Elements of Mechanical Engineering	3
ME 3102	Elements of Mechanical Engineering Sessional [Sessional]	1.5
TE 3105	Textile Testing & Quality Control II Theory (Prereq: TE 2305)	3
TE 3106	Textile Testing & Quality Control II Sessional [Sessional]	1.5

3rd Year 2nd Semester

6 courses | 13 credits

Code	Course	Credits
TE 3201	Apparel Manufacturing II Theory (Prereq: TE 2203)	3
TE 3202	Apparel Manufacturing II Sessional [Sessional]	1.5
TE 3203	Wet Processing II Theory (Prereq: TE 2201)	3
TE 3204	Wet Processing II Sessional [Sessional]	1.5
TE 3207	Textile Physics I	2

Code	Course	Credits
ME 3201	Elements of Machine Design	2

3rd Year 3rd Semester

7 courses | 13.75 credits

Code	Course	Credits
TE 3301	Fabric Manufacturing II (Prereq: TE 2101)	3
TE 3302	Fabric Manufacturing II Sessional [Sessional]	1.5
Math 3301	Business Statistics	2
TE 3305	Fabric Structure & Design	3
TE 3306	Fabric Structure & Design Sessional [Sessional]	1.5
TE 3307	Textile Physics II (Prereq: TE 3207)	2
TE 4300	Comprehensive Viva on 3rd year courses	0.75

4th Year 1st Semester

15 courses | 13 credits

Code	Course	Credits
TE 4111	Yarn Manufacturing III	3
TE 4112	Yarn Manufacturing III Sessional [Sessional]	1.5
TE 4113	Maintenance of Yarn Machinery	2
TE 4121	Fabric Manufacturing III	3
TE 4122	Fabric Manufacturing III Sessional [Sessional]	1.5
TE 4113	Maintenance of Fabric Machinery	2
TE 4131	Wet Processing III	3
TE 4132	Wet Processing III Sessional [Sessional]	1.5
TE 4113	Maintenance of Wet Process Machinery	2
TE 4141	Apparel Manufacturing III	3
TE 4142	Apparel Manufacturing III Sessional [Sessional]	1.5
TE 4113	Maintenance of Apparel Machinery	2
EEE 4101	Basic Electrical & Electronic Engineering	3
EEE 4102	Basic Electrical & Electronic Engineering (Sessional) [Sessional]	1.5
TE 4105	Quality Management (Prereq: TE 3105)	2

4th Year 2nd Semester

15 courses | 12.5 credits

Code	Course	Credits
TE 4111	Yarn Manufacturing IV	3
TE 4112	Yarn Manufacturing IV Sessional [Sessional]	1.5
TE 4253	Special Yarn Manufacturing	2
TE 4121	Fabric Manufacturing IV	3
TE 4122	Fabric Manufacturing IV Sessional [Sessional]	1.5

Code	Course	Credits
TE 4263	Special Fabric Manufacturing	2
TE 4131	Wet Processing IV	3
TE 4132	Wet Processing IV Sessional [Sessional]	1.5
TE 4273	Special Wet Processing	2
TE 4141	Apparel Manufacturing IV	3
TE 4142	Apparel Manufacturing IV Sessional [Sessional]	1.5
TE 4283	Special Apparel Manufacturing	2
CSE 4201	Application of Computer in Textile	2
CSE 4202	Application of Computer in Textile Sessional [Sessional]	1
ME 4203	Production Planning & Control	3

4th Year 3rd Semester

6 courses | 15.25 credits

Code	Course	Credits
TE 4305	Technical Textile	2
BA 4301	Marketing & Merchandising	3
ME 4301	Automation and Control Engineering	2
TE 4000	Project & Thesis	4.5
TE 4002	Industrial Attachment	3
TE 4300	Comprehensive Viva-Voce	0.75

Credit Distribution

Semester	Core	Elective	Lab	Project	Total	Cumulative
1st Year 1st Semester	15	-	3	-	15	15
1st Year 2nd Semester	12	-	3	-	12	27
1st Year 3rd Semester	13.75	-	3.75	-	13.75	40.75
2nd Year 1st Semester	13	-	4	-	13	53.75
2nd Year 2nd Semester	12	-	3	-	12	65.75
2nd Year 3rd Semester	14.25	-	3.25	-	14.25	80
3rd Year 1st Semester	13.5	-	4.5	-	13.5	93.5
3rd Year 2nd Semester	13	-	3	-	13	106.5
3rd Year 3rd Semester	13.75	-	3.75	-	13.75	120.25
4th Year 1st Semester	6.5	6.5	3	-	13	133.25
4th Year 2nd Semester	6	6.5	2.5	-	12.5	145.75
4th Year 3rd Semester	15.25	-	-	4.5	15.25	161