

**Curriculum of B.Sc. Engineering Honours Degree Programme**  
**Textile & Clothing Technology Specialization -Textile Process Engineering Stream**  
**Department of Textile & Clothing Technology**

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
<b>Semester 1</b>										
MA1013	Mathematics	C	3	1/1	3.0				20	80
CS1032	Programming Fundamentals	C	2	3/1	3.0				20	80
ME1032	Mechanics	C	2	3/4	2.0				20	80
MT1022	Properties of Materials	C	2	3/4	2.0				20	80
TT1042	Textile Materials & Processes	C	1.5	3/2	2.0				20	80
EE1012	Electrical Engineering	C	2	3/4	2.0				20	80
MN1012	Engineering in Context	C	1	-		1.0			30	70
EL1012	Language Skill Enhancement I	C	-	3/1	1.0		15.0	1.0	20	80
<b>Total for Semester 1</b>							<b>15.0</b>	<b>1.0</b>		

<b>Semester 2</b>										
MA1023	Methods of Mathematics	C	3	1/1	3.0				30	70
EN1802	Basic Electronics	C	2	3/4	2.0				40	60
MT1812	Engineering Materials	C	1.5	1/1	2.0				30	70
ME1802	Introduction to Manufacturing Engineering	C	2.0	3/2	2.5				30	70
TT2012	Fibre Science	C	1.5	3/2	2.0				40	60
TT2023	Principles of Yarn Manufacture	C	2.5	3/2	3.0				30	70
TT2093	Principles of Textile Machinery &	C	2.5	3/2	3.0				30	70
EL1022	Language Skill Enhancement II	C	-	3/1	1.0				20	80
TT1973	Industry Orientation	C				1.5	18.5	1.5	100	00
DE2xxx	Humanities Elective I*	E	2	-	2.0		2			
MN1030	Entrepreneurship Skill Development (cont)	O	0.5	3/2		1.0			70	30
<b>Total for Semester 2</b>							<b>20.5</b>	<b>1.5</b>		

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<b>Semester 3</b>										
MA2013	Differential Equations	C	2	-	2.0		18.0	2.0	30	70
MA2023	Calculus	C	2	-	2.0				30	70
ME1822	Basic Engineering Thermodynamics	C	1.5	3/2	2.0				30	70
CS2812	Visual Programming	C	1	3/1	2.0				60	40
TT2032	Knitted Fabric Technology	C	3.5	3/2	4.0				30	70
TT2043	Woven Fabric Technology	C	3.5	3/2	4.0				30	70
TT2162	Principles of Work Study	C	1.5	3/2	2.0				50	50
TT1963	Engineering Skills Development	C	-	6/1		2.0			100	00
MN1030	Entrepreneurship Skill Development	O	0.5	3/2		1.0			70	30
<b>Total for Semester 3</b>							<b>18.0</b>	<b>2.0</b>		

<b>Semester 4</b>										
MA2032	Linear Algebra	C	2	-	2.0		21.5	1.5	30	70
MA3012	Applied Statistics	C	2	-	2.0				30	70
TT2063	Woven Fabric Structures & Analysis	C	2.5	3/2	3.0				40	60
TT2132	Garment Fabrication 1	C	2.5	3/2	3.0				40	60
TT2142	Principles of Clothing Manufacture	C	3	-	3.0				30	70
TT2073	Colouration & Finishing of Textiles	C	3	3/2	3.5				40	60
ME2850	Fundamentals of Machine Element	C	2	3/1	3.0				40	60
TT2913	Communication Skills Enhancement	C	1	3/1	2.0				100	00
TT3903	Industrial Visits	C				1.5			100	00
MN2010	Entrepreneurial Leadership	O	1.5	3/2	2.0		50	50		
<b>Total for Semester 4</b>							<b>21.5</b>	<b>1.5</b>		

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					GPA	NGPA	GPA	NGPA	CA	WE		
<b>Semester 5</b>												
TT3062	Testing & Evaluation of Textile Materials	C	3.5	3/2	4.0		11.0	0.0	50	50		
TT3112	Pneumatics	C	1.5	3/2	2.0				30	70		
MN3042	Business Economics & Financial Accounting	C	3.0	-	3.0				30	70		
MN4132	Consumer & Industrial Marketing	C	2.0	-	2.0		7.0	0.0	30	70		
TT3142	Woven Fabric Formation	E	1.5	3/2	2.0				30	70		
T3132	Knitting Technology I	E	1.5	3/2	2.0				30	70		
TT3072	Process Control in Colouration & Finishing	E	2.5	3/2	3.0		7.0	0.0	40	60		
TT3222	Non Woven Textiles	O	2.0	-	2.0				40	60		
TT3262	Instrumentation & Programming for Automation	O	2.5	3/2	3.0				40	60		
TT3232	Apparel Manufacturing Business	O	1.5	3/2	2.0		7.0	0.0	60	40		
MA3023	Numerical Methods	O	2.0	-	2.0				30	70		
EL2952	Language Skill Enhancement III	O	1	3/1		2.0			20	80		
MN3010	Multidisciplinary Design, Innovation & Venture Creation	O	1.5	3/2	2.0		7.0	0.0	50	50		
<b>Total for Semester 5</b>									<b>20.0</b>	<b>0.0</b>		

TT3992	Industrial Training	C	-	-		6.0				
<b>Total</b>							0.0	6.0		

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<b>Semester 6</b>										
TT4370	Textile Design Project	C	1	3	2.0		6.0	1.0	100	0
TT4112	Environmental Management	C	1.5	3/2	2.0				50	50
TT4102	Quality Control & Management	C	2.0	-	2.0				40	60
TT4912	Guest Lectures and Presentations	C	1.0	-		1.0			100	00
DE2xxx	Humanities Elective II*	E	2	-	2		2.0			
TT4262	Technical Textiles	O	2.0	-	2.0				40	60
TT4332	Reliability Engineering	O	2.0	-	2.0				40	60
TT4292	Lean Manufacturing	O	1.5	3/2	2.0				40	60
<b>Total for Semester 6</b>							<b>10.0</b>	<b>1.0</b>		

<b>Semester 7</b>										
MN4122	Human Resource Management and Industrial Relations	C	2.0	-	2.0		10.0		30	70
TT 4162	Control Systems & Applications	C	3.5	3/2	4.0				40	60
TT4202	Final Year Project**	C	-	-	4.0				100	00
TT4042	Advanced Colouration & Finishing	E	2.5	3/2	3.0		3.0		40	60
TT4022	Modern Developments in Weaving Technology	E	2.5	3/2	3.0				30	70
TT4212	Structure & Mechanics of Yarn & Fabrics	O	1.5	3/2	2.0				40	60
TT4150	Production Planning & Control	O	2.5	3/2	3.0				30	70
TT4252	Apparel Marketing & Merchandising	O	2.0	-	2.0				40	60
TT4342	Human Factors & Ergonomics of Workplace Design	O	1.5	3/2	2.0				40	60
MN4102	Management of Information & Communication Technology in Organizations	O	2.0	-	2.0				30	70
MN4042	Technology Management	O	2.0	-	2.0				30	70
MN3020	Entrepreneurship Business Basics	O	2.0	3/1	3.0				50	50
<b>Total for Semester 7</b>							<b>16.0</b>	<b>0</b>		

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					GPA	NGPA	GPA	NGPA	CA	WE
<b>Semester 8</b>										
TT4202	Final Year Project**	C	-	-	4.0		4.0		100	0
MN4900	Professional Ethics	C	1			1.0		1.0	30	70
TT4032	Knitting Technology II	E	2.5	3/2	3.0		8.0		30	70
TT4142	Advanced Yarn Manufacture	E	2.5	3/2	3.0				30	70
TT4302	Colour Measurement & Colour Matching	E	1.5	3/2	2.0				40	60
TT4312	Garment Washing	E	1.5	3/2	2.0				40	60
TT4132	Operations Research & Simulation	E	3.0	3.0	4.0		2.0		40	60
TT4362	Computer-aided Woven Fabric Design	E	2.0	6.0	2.0				100	0
MN4092	Management Skills Development	O	2.0	-	2.0				30	70
MN4800	Supply Chain Management	O	2.0		2.0				30	70
MN4022	Engineering Economics	O	2.0	-	2.0				30	70
MN4072	Small Business Management & Entrepreneurship	O	2.0	-	2.0				30	70
MN4010	Business Plan Development	O	1.5	3/2	2.0				70	30
MN4150	Project Management	O	2.0		2.0				50	50
<b>Total for Semester 8</b>							<b>16.0</b>	<b>0.0</b>		
<b>To be taken from Optionals/ Electives from Semesters 5-8</b>							<b>7.0</b>			
<b>Minimum for Graduation - GPA</b>							<b>135.0</b>			
<b>Minimum for Graduation - NGPA</b>								<b>12.0</b>		
<b>Minimum for Graduation - Total</b>									<b>150.0</b>	

\* - Weekly load of lectures and lab/assignment hrs vary among different Non-technical modules.

\*\* - A total of 8 credits for Design/Research Project over Semester 7 and Semester 8.

