

**Curriculum of B.Sc. Engineering Honours Degree Programme
Textile & Clothing Technology**

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)		
					GPA	NGPA	GPA	NGPA	CA	WE	
Semester 1											
MA1013	Mathematics	C	3.0	1/1	3.0				20	80	
CS1032	Programming Fundamentals	C	2.0	3/1	3.0				20	80	
ME1032	Mechanics	C	2.0	3/4	2.0				20	80	
MT1022	Properties of Materials	C	2.0	3/4	2.0				20	80	
EE1012	Electrical Engineering	C	2.0	3/4	2.0				20	80	
TT1042	Textile Materials & Processes	C	1.5	3/2	2.0				30	70	
CE1022	Fluid mechanics I	C	2.0	3/4	2.0				20	80	
MN1012	Engineering in Context	C	1.0	-		1.0			30	70	
EL1012	Language Skill Enhancement I	C	-	3/1	1.0				20	80	
Total for Semester 1									17.0	1.0	

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)		
					GPA	NGPA	GPA	NGPA	CA	WE	
Semester 2											
MA1023	Methods of Mathematics	C	3.0	1/1	3.0				30	70	
EN1802	Basic Electronics	C	2.0	3/4	2.0				40	60	
MT1813	Engineering Materials	C	1.5	1/1	2.0				40	60	
TT1070	Introduction to Apparel Manufacturing	C	2.0	-	2.0				40	60	
CS2812	Visual Programming	C	1.0	3/1	2.0				60	40	
TT2012	Fibre Science	C	1.5	3/2	2.0				40	60	
TT2094	Principles of Textile Machinery & Instrumentation	C	1.5	3/2	2.0				30	70	
TT1974	Industry Orientation	C	-	-		1.0			100	00	
TT1080	Pattern Technology I	C	1.0	3/1	2.0				70	30	
DE2xxx	Humanities Elective I	E	2	-	2.0						
MN1030	Entrepreneurship Skill Development	O	0.5	3/2		1.0			70	30	
Total for Semester 2									19.0	1.0	

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					GPA	NGPA	GPA	NGPA	CA	WE	
Semester 3											
MA2013	Differential Equations	C	2.0	-	2.0					30	70
MA2023	Calculus	C	2.0	-	2.0					30	70
ME1822	Basic Engineering Thermodynamics	C	1.5	3/2	2.0					30	70
TT2023	Principles of Yarn Manufacture	C	2.5	3/2	3.0					30	70
TT2162	Principles of Work Study	C	1.5	3/2	2.0					50	50
TT2044	Weaving Technology I	C	1.5	3/2	2.0					30	70
TT2033	Knitting Technology	C	2.5	3/2	3.0					30	70
TT2190	Communication Skills Enhancement	C	1.5	3/2	2.0					100	00
TT1964	Engineering Skills Development	C	1.0	3/1		2.0				100	00
MN1030	Entrepreneurship Skill Development (cont)	O	0.5	3/2		1.0				70	30
Total for Semester 3							18.0	2.0			

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					GPA	NGPA	GPA	NGPA	CA	WE	
Semester 4											
MA2033	Linear Algebra	C	2.0	-	2.0					30	70
MA3013	Applied Statistics	C	2.0	-	2.0					30	70
TT2063	Woven Fabric Structures & Analysis	C	2.5	3/2	3.0					40	60
TT2170	Apparel Technology	C	3.0	-	3.0					40	60
TT2074	Colouration & Finishing of Textiles I	C	2.5	3/2	3.0					30	70
TT2090	Quality Assurance	C	2.0	--	2.0					40	60
TT3910	Technical Report Writing	C	0.5	3/2		1.0				100	00
TT3112	Pneumatics	C	1.5	3/2	2.0					30	70
TT3920	Computer Applications in Textile Engineering	C	1.0	3/1		2.0				100	00
MN2010	Entrepreneurial Leadership	O	1.5	3/2	2.0					50	50
Total for Semester 4								17	3.0		

*Total of 14 credits to be taken from optional modules included in Semester 4-8.

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)		
					GPA	NGPA	GPA	NGPA	CA	WE	
Semester 5											
MN3042	Business Economics & Financial Accounting	C	3.0	-	3.0				30	70	
TT3150	Non Wovens and Technical Textiles	C	3.0	-	3.0				40	60	
TT3063	Testing & Evaluation of Textile Materials	C	2.5	3/2	3.0				50	50	
TT3160	Nano Technology I	C	1.5	3/2	2.0			11.0	40	60	
TT3270	Weaving Technology II	E	1.5	3/2	2.0				30	70	
TT3280	Circular knitting	E	2.5	3/2	3.0				30	70	
TT3290	Colouration & Finishing of Textiles II	E	1.5	3/2	2.0				40	60	
TT4490	Computer Applications in Apparel Design	E	1.0	3/1	2.0			6.0	100	0	
TT3700	Instrumentation & Programming for Automation	O	2.5	3/2	3.0				40	60	
MA3023	Numerical Methods	O	2.0	-	2.0				30	70	
MN3010	Multidisciplinary Design, Innovation & Venture Creation	O	1.5	3/2	2.0				50	50	
Total for Semester 5									17.0	0.0	

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
TT3992	Industrial Training	C	-	-		6.0				
Total							0.0	6.0		

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)			
					GPA	NGPA	GPA	NGPA	CA	WE		
Semester 6												
TT3170	Quality Management	C	2.0	-	2.0					40	60	
TT4113	Environmental Management & Sustainability	C	2.0	-	2.0		4.0			30	70	
TT4371	Comprehensive Design Project (Textile)	E	1.0	3/1	2.0					100	00	
TT4354	Comprehensive Design Project (Apparel)	E	1.0	3/1	2.0		2.0			100	00	
DE2xxx	Humanities Elective II	E	2.0	-	2.0		2.0					
TT3320	Equipment Technology	O	1.5	3/2	2.0					30	70	
TT4262	Technical Textiles	O	2.0	-	2.0					40	60	
Total for Semester 6									8.0	0.0		

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)			
					GPA	NGPA	GPA	NGPA	CA	WE		
Semester 7												
TT4202	Design/Research Project	C	2.0	6	4.0		9.0	1.0	100	00		
TT 4163	Control Systems & Applications	C	2.5	3/2	3.0				40	60		
MN4122	Human Resource Management and Industrial Relations	C	2.0	-	2.0				30	70		
MN 4900	Professional Ethics	C	1.0	-		1.0			30	70		
TT4390	Modern Developments in Weaving Technology	E	2.5	3/2	3.0				40	60		
TT4410	Textile Plant Maintenance Engineering	E	1.5	3/2	2.0				40	60		
TT4213	Structural Mechanics of Yarn & Fabrics	E	1.5	3/2	2.0				40	60		
TT4420	Textile Composites	E	1.5	3/2	2.0				30	70		
TT3300	Pattern Technology II	E	1.0	3/1	2.0				70	30		
TT3310	Warp Knitting & structures	E	2.0	-	2.0				30	70		
TT4343	Work Place Engineering	E	2.0	-	2.0				40	60		
TT4440	Advanced Colouration	E	1.5	3/2	2.0				40	60		
TT4510	Production Planning & Control	E	2.5	3/2	3.0				4.0	40	60	
MN4102	Management of Information & Communication Technology in Organizations	O	2.0	-	2.0				30	70		
MN3020	Entrepreneurship Business Basics	O	2.0	3/1	3.0				50	50		
MN4042	Technology Management	O	2.0	-	2.0				30	70		
Total for Semester 7									13	1.0		

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)			
					GPA	NGPA	GPA	NGPA	CA	WE		
Semester 8												
TT4202	Design/Research Project	C	-	6	4.0		9.0		100	0		
TT4171	Apparel Marketing & Merchandising	C	3.0	-	3.0				60	40		
TT4180	Lean Manufacturing	C	2.0	-	2.0		40	60				
TT4389	Advanced Yarn Manufacture	E	2.5	3/2	3.0		4.0	47	30	70		
TT4400	Flat Knitting Techniques & Integrated Designing	E	1.0	3/1	2.0				100	00		
TT4362	Computer-Aided Woven Fabric Design	E	1.0	3/1	2.0				100	00		
TT4470	Textile Structures in Technical Textiles	E	2.0	-	2.0				40	60		
TT4480	Smart Textiles	E	1.5	3/2	2.0				40	60		
TT4450	Nano Technology II	E	1.5	3/2	2.0				40	60		
MN4800	Supply Chain Management	E	2	--	2.0				40	60		
TT4430	Pattern Technology III	E	1.0	3/1	2.0				70	30		
TT4500	Modern Finishing Techniques	E	1.5	3/2	2.0				30	70		
TT4302	Colour Measurement & Colour Matching	E	1.5	3/2	2.0				40	60		
TT4460	Operations Research & Simulation	O	2.5	3/2	3.0				30	70		
MN4092	Management Skills Development	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				
Total for Semester 8									13	0.0		
To be taken from Optional / Electives from Semesters 4-8									14			
Minimum for Graduation - GPA									136			
Minimum for Graduation - NGPA										14.0		
Minimum for Graduation - Total											150.0	

*Total of 14 credits to be taken from optional modules from Semester 4-8.

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