

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
MT1812	Engineering Materials	C	1.5	1/1	2.0				30	70
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
TT2093	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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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					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 (<i>cont</i>)	O	0.5	3/2		1.0			70	30
Total for Semester 3							18.0	2.0		

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					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				30	70
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	1.5	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							17.0	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		9.0		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
TT3270	Weaving Technology II	E	1.5	3/2	2.0		6.0		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
TT3300	Pattern Technology II	E	1.0	3/1	2.0				70	30
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
MN3020	Entrepreneurship Business Basics	O	2.0	3/1	3.0				50	50
Total for Semester 5							15.0	0.0		

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

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										
TT3160	Nano Technology I	C	1.5	3/2	2.0		6.0		40	60
TT3170	Quality Management	C	2.0	-	2.0				40	60
TT4113	Environmental Management & Sustainability	C	2.0	-	2.0				30	70
TT4371	Comprehensive Design Project (Textile)	E	1.0	3/1	2.0		2.0		100	00
TT4354	Comprehensive Design Project (Apparel)	E	1.0	3/1	2.0				100	00
DE2xxx	Humanities Elective II	E	2.0	-	2.0					
TT3310	Warp knitting & structures	O	2.0	-	2.0				30	70
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							10.0	0.0		

*Total of 14 credits to be taken from optional modules from 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 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	4.0			
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
TT4430	Pattern Technology III	E	1.0	3/1	2.0				70	30
TT4343	Work Place Engineering	E	2.0	-	2.0				40	60
TT4440	Advanced Colouration	E	1.5	3/2	2.0				40	60
TT4450	Nano Technology II	E	1.5	3/2	2.0				40	60
TT4460	Operations Research & Simulation	O	2.5	3/2	3.0				30	70
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		
Total for Semester 7							13.0	1.0		

*Total of 14 credits to be taken from optional modules from 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 8										
TT4202	Design/Research Project	C	-	6	4.0		9.0		100	0
TT4170	Apparel Marketing & Merchandising	C	3.0	-	3.0				30	70
TT4180	Lean Manufacturing	C	2.0	-	2.0				40	60
TT4389	Advanced Yarn Manufacture	E	2.5	3/2	3.0		4.0		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					
TT4480	Smart Textiles	E	1.5	3/2	2.0				40	60
MN4800	Supply Chain Management	E	2	--	2.0				40	60
TT4490	Computer Applications in Apparel Design	E	1.0	3/1	2.0				100	0
TT4500	Modern Finishing Techniques	E	1.5	3/2	2.0				30	70
TT4510	Production Planning & Control	E	2.5	3/2	3.0				40	60
TT4302	Colour Measurement & Colour Matching	E	1.5	3/2	2.0				40	60
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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Students should fulfill the credit requirements specified below to obtain the degree with one of the focus areas;

(1) Textile Engineering

*Students should take TT4371 - Comprehensive Design project (Textile), and minimum 10 credits from the modules specified below;

Module code	Module Name	credits
TT3310	Warp Knitting & Structures	2.0
TT4261	Technical Textiles	2.0
TT4390	Modern Developments in Weaving Technology	3.0
TT4213	Structural Mechanics of Yarn & Fabrics	2.0
TT4389	Advanced Yarn manufacture	3.0
TT4400	Flat Knitting techniques & Integrated Designing	2.0
TT4362	Computer-aided Woven Fabric Design	2.0
TT4470	Textile Structures in Technical textiles	2.0

(2) Apparel Engineering

*Students should take TT4354 - Comprehensive Design project (apparel), and minimum 10 credits from the modules specified below;

Module code	Module Name	credits
TT3320	Equipment Technology	2.0
TT4430	Pattern technology III	2.0
TT4343	Work Place Engineering	2.0
TT4302	Colour Measurement & Colour Matching	2.0
TT4510	Production Planning & Control	3.0
TT4490	Computer Applications in Apparel Design	2.0

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(3) Colouration and Finishing of Textiles

*Students should take TT4371 - Comprehensive Design project (Textile), and minimum 10 credits from the modules specified below;

Module code	Module Name	credits
TT4261	Technical Textiles	2.0
TT4440	Advanced Colouration	2.0
TT4450	Nano Technology II	2.0
TT4410	Textile Plant Maintenance Engineering	2.0
TT4500	Modern Finishing Techniques	2.0
TT4302	Colour Measurement & Colour Matching	2.0

(4) Technical textiles

*Students should take TT4371 - Comprehensive Design project (Textile), and minimum 10 credits from the modules specified below;

Module code	Module Name	credits
TT4261	Technical Textiles	2.0
TT4213	Structural Mechanics of Yarn & Fabrics	2.0
TT4420	Textile Composites	2.0
TT4450	Nano Technology II	2.0
TT4470	Textile Structures in Technical textiles	2.0
TT4480	Smart Textiles	2.0