

Intake:		2020 onwards		Specialization:		Textile and Apparel Engineering					
Details of the Curriculum				Stream:		-					
Module Code	Module Name	Category C/E/O	Time allocation [Hours/Week]		Credits offered		Norm		Evaluation %		
			Lecture	Lab / Tute	GPA	NGPA	GPA	NGPA	CA	WE	
<b>Semester 1</b>			<b>Specialization requirement</b>				<b>18.0</b>				
MA1014	Mathematics	C	5/2	1	3.0		18.0		20	80	
CS1033	Programming Fundamentals	C	2	2	3.0				20	80	
ME1033	Mechanics	C	2	2/4	2.0				20	80	
MT1023	Properties of Materials	C	2	2/4	2.0				20	80	
EE1040	Electrical Fundamentals	C	2	2/4	2.0				20	80	
TE1010	Fibre Science	C	5/2	2/2	3.0				30	70	
CE1023	Fluid mechanics	C	2	2/4	2.0				20	80	
EL1030	Language Skills Enhancement (S1 & S2)	C	-	2	1.0				100	0	
			<b>Total</b>		<b>18.0</b>	<b>0.0</b>	<b>18.0</b>	<b>0.0</b>			
<b>Semester 2</b>			<b>Specialization requirement</b>				<b>21.0</b>				
MA1024	Methods of Mathematics	C	5/2	1	3.0		21.0		30	70	
EN1803	Basic Electronics for Engineering Applications	C	2	2	3.0				40	60	
MT1814	Engineering Materials	C	3/2	1	2.0				40	60	
TE1020	Introduction to Textile and Apparel Industry	C	2	2	3.0				50	50	
CS2813	Visual Programming	C	1	2	2.0				60	40	
TE1030	Textile Chemistry	C	3	-	3.0				30	70	
TE1040	Pattern Technology and Construction I	C	1	2	2.0				70	30	
TE1050	Principles of Textile Machinery & Instrumentation	C	3/2	2/2	2.0				30	70	
EL1030	Language Skills Enhancement (S1 & S2)	C	-	2	1.0			100	0		
			<b>Total</b>		<b>21.0</b>	<b>0.0</b>	<b>21.0</b>	<b>0.0</b>			
<b>Semester 3</b>			<b>Specialization requirement</b>				<b>23.0</b>				
MA2014	Differential Equations	C	2.0	-	2.0		20		30	70	
MA2024	Calculus	C	2.0	-	2.0				30	70	
ME1823	Fundamentals of Engineering Thermodynamics and Applications	C	5/2	2/2	3.0				30	70	
TE2010	Principles of Yarn Manufacture	C	5/2	2/2	3.0				30	70	
TE2020	Work Study	C	5/2	2/2	3.0				40	60	
TE2030	Knitting Technology	C	5/2	2/2	3.0				30	70	
TE2040	Weaving Technology I	C	5/2	2/2	3.0				40	60	
TE2050	Communication Skills Enhancement (S3 & S4)	C	-	2	1.0				100	0	
TE2900	Engineering Skills Development	C	1/2	5	3			3	100	0	
			<b>Total</b>		<b>20.0</b>	<b>3</b>	<b>20</b>	<b>3</b>			
<b>Semester 4</b>			<b>Specialization requirement</b>				<b>19.0</b>				
MA2034	Linear Algebra	C	2.0	-	2.0		16.0	3.0	30	70	
MA3014	Applied Statistics	C	2.0	-	2.0					30	70
TE2110	Weaving Technology 11 and Structures	C	3.0	2	4.0					40	60
TE2120	Apparel Production Engineering	C	2.0	2	3.0					40	60
TE2130	Pneumatics	C	5/2	2/2	3.0					30	70
TE2050	Communication Skills Enhancement (S3 & S4)	C	-	4	2.0					100	0
TE2910	Computer Applications in Textile Engineering	C	1.0	4	3.0					100	0
TE2220	Nanotechnology	E	5/2	2/2	3.0					30	70
TE3230	Instrumentation & Programming for Automation	E	5/2	2/2	3.0			40	60		
			<b>Total</b>		<b>22.0</b>	<b>3.0</b>	<b>16.0</b>	<b>3.0</b>			
<b>Semester 5</b>			<b>Specialization requirement</b>				<b>17.0</b>				
MN3043	Business Economics & Financial Accounting	C	3.0	-	3.0		17.0		30	70	
TE3010	Textile Testing, Evaluation and Quality Assurance	C	7/2	2/2	4.0				50	50	
TE3020	Non Wovens and Technical Textiles	C	3.0	-	3.0				40	60	
TE3030	Circular knitting	C	5/2	2/2	3.0				30	70	
TE3040	Colouration & Finishing of Textiles	C	5/2	2/2	3.0				40	60	
TE3880	Engineer and Society (S5 & S6)	C	0.0	2	1.0				100	0	
TE3210	CAD in Apparels	E	2.0	2	3.0				100	0	
TE3220	Analytics for Manufacturing and Service Businesses	E	5/2	2/2	3.0				70	30	
			<b>Total</b>		<b>23.0</b>	<b>0.0</b>	<b>17.0</b>	<b>0.0</b>			
<b>Industrial Training</b>			<b>Specialization requirement</b>				<b>6.0</b>				
TE3990	Industrial Training	C	-	-	6.0			6.0			
			<b>Total</b>		<b>0.0</b>	<b>6.0</b>	<b>0</b>	<b>6</b>			

<b>Intake:</b>	2020 onwards	<b>Specialization:</b>	Textile and Apparel Engineering							
Semester 6		Specialization requirement					8.0			
TE4200	Design/Research Project (S6, S7 & S8)	C	1/2	2/2	1.0		6.0		100	0
TE3050	Quality Management	C	3.0	-	3.0				40	60
TE3880	Engineer and Society (S5 & S6)	C	1.0	2	2.0				100	0
TE3200	Comprehensive Design Project (Textile)	E	0.0	4	2.0		2.0		100	0
TE3250	Comprehensive Design Project (Apparel)	E	0.0	4	2.0				100	0
TE3240	Equipment Technology in Apparels	E	3/2	2/2	2.0				30	70
		<b>Total</b>			<b>12.0</b>	<b>0.0</b>	<b>8.0</b>	<b>0.0</b>		
Semester 7		Specialization requirement					9.0			
TE4200	Design/Research Project (S6, S7 & S8)	C	1	4	3.0		9.0		100	0
TE4010	Control Systems & Applications	C	5/2	2/2	3.0				40	60
TE4020	Environmental Management and Sustainability	C	5/2	2/2	3.0				30	70
TE4210	Structural Mechanics of Yarn & Fabrics	E	2	2	3.0				40	60
TE4220	Advanced Yarn Manufacture	E	5/2	2/2	3.0				30	70
TE4230	Textile Composites	E	5/2	2/2	3.0				30	70
TE4240	Advanced Colouration	E	5/2	2/2	3.0				40	60
TE4350	Functional Finishing for Textiles	E	5/2	2/2	3.0				40	60
TE4250	Warp Knitting & Structures	E	3/2	2/2	2.0				30	70
TE4260	Modern Technologies in Apparel Construction	E	1	2	2.0				30	70
TE4270	Advanced Weaving Technology & Structures	E	2	4	4.0				40	60
TE4280	Work Place Engineering	E	3	-	3.0				30	70
TE4290	Production Planning & Control	E	2	2	3.0				40	60
MN4063	Organizational Behavior and Management	E	2.0	-	2.0				30	70
TE2211	Pattern Technology and Construction II	E	1.0	2	2.0				70	30
MN4133	Consumer and Industrial Marketing	E	2.0	-	2.0				30	70
		<b>Total</b>			<b>44.0</b>	<b>0.0</b>	<b>9.0</b>	<b>0.0</b>		
Semester 8		Specialization requirement					12.0			
TE4200	Design/Research Project (S6, S7 & S8)	C	-	8	4.0		12.0		100	0
TE4110	Marketing & Merchandising for Textiles & Apparels	C	2	2	3.0				60	40
TE4120	Lean Manufacturing	C	5/2	2/2	3.0				40	60
MN4123	Human Resource Management and Industrial Relations	C	2	-	2.0				30	70
TE4310	Flat Knitting Techniques & Integrated Designing	E	1	4	3.0				100	0
TE4320	Plant Maintenance Engineering	E	3/2	2/2	2.0				40	60
TE4340	Advanced Pattern Technology & Virtual Prototyping	E	1	4	3.0				70	30
TE4330	Smart and Functional Textiles	E	5/2	2/2	3.0				40	60
TE4360	Computer-aided Woven Fabric Design	E	1	4	3.0				100	0
TE4370	Colour Measurement & Colour Matching	E	2	2	3.0				40	60
MN4151	Project Management	E	2	-	2.0				30	70
MN4043	Technology Management	E	2		2.0				30	70
MN4113	Production and Operations Management	E	2		2.0				30	70
		<b>Total</b>			<b>35</b>	<b>0</b>			<b>12.0</b>	<b>0.0</b>
<b>Grand Total</b>					<b>195.0</b>	<b>12.0</b>	<b>121.0</b>	<b>12.0</b>		

Total credit requirement for the Specialization		<b>133.0</b>
Faculty/Specialization Electives beyond the specialization requirements [refer faculty electives table]*		<b>13.0</b>
Humanities electives (at any even semester)		<b>4.0</b>
<b>TOTAL CREDIT REQUIREMENT FOR GRADUATION</b>		<b>150.0</b>

Service modules									
Code	Module Name	Semester	Time allocation [Hours/Week]		Credits		Offered to	Evaluation %	
			Lecture	Lab / Tute	GPA	NGPA		CA	WE