



### COs, POs, PSOs Mapping

<b>Subject: Textile Fiber – I</b>	<b>Subject Code: BTEXS1-302</b>	<b>Semester: 3<sup>rd</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: 45 Hrs.</b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Understand the basics of textile fibres and their classifications.	3	2								1		2	1		
<b>CO2</b>	Demonstrate Properties of Fibres and Polymers and correlate the structure and properties of fibers and polymers.	3	2		2						2		2	1	2	
<b>CO3</b>	Explain the production properties and uses of major natural fibers.	3	2								2		2	1		
<b>CO4</b>	Demonstrate basics of manmade fibres and production systems for manmade regenerated fibres fibers.	3	2								2		2	1		

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Fabric Manufacturing- I</b>	<b>Subject Code: BTEXS1-303</b>	<b>Semester: 3<sup>rd</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: 60 Hrs.</b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	specify the objectives of winding process and functions of various components of winding machine. Also do the necessary calculations on the machine.	3	2								2		1	3		
<b>CO2</b>	Explain working of Warping and sizing processes and find out the production and Efficiency of these machines.	3	2								2		1	3		
<b>CO3</b>	Describe working of different parts of Pirn winding and make all necessary calculations..	3	2								2		1	3		
<b>CO4</b>	Discuss all looming operations especially Primary, Secondary and Auxiliary motions..	3	2								2		1	3		

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### COs, POs, PSOs Mapping

<b>Subject: Yarn manufacturing -I</b>	<b>Subject Code: BTEXS1-304</b>	<b>Semester: 3<sup>rd</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Understand the short and long staple spinning, objectives, construction and working of ginning, blowroom, carding and draw frame machines.	3	2	1					1	2	1		2	2		
<b>CO2</b>	Study the technical features, various processes and parts of the machines.	3		1				1		2	1		2	2		
<b>CO3</b>	Calculate speeds of the various machine moving parts, cleaning efficiency draft and production of the machines.	3	3		1		1	1	2	2	1		2	2	2	
<b>CO4</b>	Demonstrate the modern developments in various spinning preparatory machines.	3					2		2	2	2		2	1		

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### COs, POs, PSOs Mapping

<b>Subject: Kinematics of Machines</b>	<b>Subject Code: BTEXS1-305</b>	<b>Semester: 3<sup>rd</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Application of various motions and linkage mechanism in textile machines.	2	1										1	2		
<b>CO2</b>	Elaborate the significance of gears in textile operation.		2		2								1		1	
<b>CO3</b>	Determine the function of brakes in machine process.					2	1									
<b>CO4</b>	Identify the significance of different belts, ropes and chains specific to textile operation.						1	1					1		1	

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### COs, POs, PSOs Mapping

<b>Subject: Textile Fibers Lab. –I</b>	<b>Subject Code: BTEXS1-306</b>	<b>Semester: 3<sup>rd</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Identify various textile fibres by physical and chemical identification methods.	3	3		2		1			1	2		2	2	2	
<b>CO2</b>	Analyse percentage fibre content in different blended fabrics.	3	3		2		1			1	2		2	2	2	
<b>CO3</b>	Estimate the fibre/ filament fineness with the help of projection microscope.	3	3		2					1	2		2	2	2	
<b>CO4</b>	Determine moisture regain, moisture content and maturity percentage in cotton fibres.	3	3		2		1			1	2		2	2	2	

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### COs, POs, PSOs Mapping

<b>Subject: Fabric Manufacturing- I Lab</b>	<b>Subject Code: BTEXS1-307</b>	<b>Semester: 3<sup>rd</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Demonstrate the informed working on the winding machine with all possible controlling of its operations .	3								2	1	3	1	3		
<b>CO2</b>	Run pirn winding machine having understanding of various machine parts working .	3								2	1	3	1	3		
<b>CO3</b>	Display skill in working on warping and sizing machines with satisfactory knowledge of various controlling parameters.	3								2	1	3	1	3		
<b>CO4</b>	Have working knowhow of all primary motions of a loom	3								2	1	3	1	3		

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### COs, POs, PSOs Mapping

<b>Subject: Yarn manufacturing Lab-I</b>	<b>Subject Code: BTEXS1-308</b>	<b>Semester: 3<sup>rd</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Study the construction and working of various opener & cleaners used in blow room process.	3								2	2	1	2	2		
<b>CO2</b>	Determine the trash content with the help of Shirley Trash analyser.	3	3		1			1		2	2	1	2	3	2	
<b>CO3</b>	Explain the technical detail of carding machines, gearing mechanism, calculations, settings, maintenance and nep count.	3	3		1					2	2	1	2	3	2	
<b>CO4</b>	Demonstrate the drafting mechanism, top roller weighting, draft calculations, effect of roller setting, maintenance and overhauling of draw frame machine	3	3		1					2	2	1	2	3	2	

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### COs, POs, PSOs Mapping

<b>Subject: Textile Fiber –II</b>	<b>Subject Code: BTEXS1-401</b>	<b>Semester: 4<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Knowledge about, Idea about fine structure of man-made fibres. Crystallinity, orientation and its effects on fibre properties	3	2							1	2		2	2	2	
<b>CO2</b>	Demonstrate the various manmade fibres spinning methods such as melt spinning, dry spinning and wet spinning	3	2							1	2		2	2	1	
<b>CO3</b>	demonstratefibre post spinning processes such as heat setting , drawing & stretching process.	3	2							1	2		2	2	1	
<b>CO4</b>	In depth understanding about production, properties and end uses of major synthetic fibres and elementary idea about high performance fibres.	3	2				1			1	2		2	2	1	

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### COs, POs, PSOs Mapping

<b>Subject: Yarn manufacturing -II</b>	<b>Subject Code: BTEXS1-402</b>	<b>Semester: 4<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Demonstrate the importance, technical features, processes and machines used in short staple conventional and non-conventional spinning processes.	3	2	1			1	1	1	2	2		2	2		
<b>CO2</b>	Understand the constructional details, working and design aspects of machine parts and mechanisms involved in comber, speed frame, ring frame and nonconventional spinning processes.	3	2	2			1			2	2		2	2		
<b>CO3</b>	Assessment of various technical parameters related to comber, speed frame, ring frame and nonconventional spinning processes.	3	3		3		2	1	2	2	2		2	2	2	
<b>CO4</b>	Demonstrate the norms and modern developments in comber, speed frame, ring frame etc.	3	2				1		2	2	2		3	1		

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### COs, POs, PSOs Mapping

<b>Subject: Fabric Manufacturing - II</b>	<b>Subject Code: BTEXS1-403</b>	<b>Semester: 4<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Describe basic motions of looms i.e. Shedding & Picking and their types.	3	2								2		1	3		
<b>CO2</b>	Explain mechanism of Beat up motion of loom and associated componenets.	3	2								2		1	3		
<b>CO3</b>	Describe associated technology of Let-off and Take-up mechanisms of a loom.	3	2								2		1	3		
<b>CO4</b>	Explain the mechanisms of Stop motions and Warp protector fitted on a loom.	3	2								2		1	3		

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### COs, POs, PSOs Mapping

<b>Subject: Textile Chemical Processing –I</b>	<b>Subject Code: BTEXS1-404</b>	<b>Semester: 4<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Apply basic knowledge of chemical nature of fibres and processing chemicals to explain the processes of Singeing, desizing and scouring	3	1	1			2	2			1		1	3		
<b>CO2</b>	Appreciate the technology of different bleaching and mercerization processes and assess the importance of various parameters affecting their efficiencies.	3	1	1			2	2			1		1	3		
<b>CO3</b>	Recognize the importance of different process variables in influencing the performance of Heat setting and other mechanical finishing operations while developing through knowledge about their mechanisms.	3	1	1			2	2			1		1	3		
<b>CO4</b>	Identify the role of chemicals used in functional finishes recipe which imparts the desired functionality to the fabrics and evaluate their influencing parameters	3	1	1			2	2			1		1	3		

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### COs, POs, PSOs Mapping

<b>Subject: Fabric Structure Analysis</b>	<b>Subject Code: BTEXS1-405</b>	<b>Semester: 4<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	To apply knowledge for raw material requirement for a particular fabric design and its specifications	3	3												1	
<b>CO2</b>	To analyse various weaves for their structure		3	3	1		2						1	2		
<b>CO3</b>	To learn different weaves	2	3	3					1					1		
<b>CO4</b>	To analyse the yarn and fabric parameters of various weaves design pattern		1	3									1		2	

Enter Correction levels 1, 2 or 3 as defined below:

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### COs, POs, PSOs Mapping

<b>Subject: Yarn Manufacturing Lab.-II</b>	<b>Subject Code: BTEXS1-406</b>	<b>Semester: 4<sup>th</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Demonstrate the mechanism of a comber, effect of various organs functioning and estimation of noil percentage.	3	3					2		2	1	1	2	2	2	
<b>CO2</b>	Explain the construction and working of a speed frame along with gearing, calculations and bobbin building mechanism.	3	3		1					2	1	1	2	2	2	
<b>CO3</b>	Study the ring frame in terms of construction, working, gearing calculations.	3	3		1					2	1	1	2	2	2	
<b>CO4</b>	Demonstrate the construction and working of new spinning methods: rotor spinning, friction spinning and air-jet spinning.	3	1		1					2	1	1	2	2	1	

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### COs, POs, PSOs Mapping

<b>Subject: Fabric Manufacturing- II Lab</b>	<b>Subject Code: BTEXS1-407</b>	<b>Semester: 4<sup>th</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Demonstrate the mechanism of loom shedding & picking and working of associated parts.	3								2	1	3	1	3		
<b>CO2</b>	Demonstrate the Beat-up mechanism along with working knowledge of sley eccentricity.	3								2	1	3	1	3		
<b>CO3</b>	Experiment with Take-up and Let-off mechanisms of a loom.	3								2	1	3	1	3		
<b>CO4</b>	Have working skill of weft fork, warp protector and warp stop motions.	3								2	1	3	1	3		

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### COs, POs, PSOs Mapping

<b>Subject: Textile Chemical Processing Lab.–I</b>	<b>Subject Code: BTEXS1-408</b>	<b>Semester: 4<sup>th</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Get Skill of doing scouring of different fibres	3	2		2		2	2			3	1	1	3		
<b>CO2</b>	Have Skill of doing scouring of blends of different fibres	3	2		2		2	2			3	1	1	3		
<b>CO3</b>	obtain Skill of doing bleaching of different fibres and their blends	3	2		2		2	2			3	1	1	3		
<b>CO4</b>	Acquire Skill of doing finishing of cotton fibres	3	2		2		2	2			3	1	1	3		

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### COs, POs, PSOs Mapping

<b>Subject: Fabric Structure Analysis Lab</b>	<b>Subject Code: BTEXS1-409</b>	<b>Semester: 4<sup>th</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Determine different types of fabric samples to understand characteristics	2	2	2									1			
<b>CO2</b>	Predict different types of simple weaves and their derivatives.				2									2		
<b>CO3</b>	Demonstrate different types of compound weaves and their derivatives.		3	3	1								1		2	
<b>CO4</b>	Analyse weave and colour effect		3										1		2	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Properties of Fiber</b>	<b>Subject Code: BTEXS1-501</b>	<b>Semester: 5<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Analyse fibre structure data and moisture dependent fibre characteristics	3	2							1	2		2	2	2	
<b>CO2</b>	Demonstrate the response of fibre towards tensile loading under different practical situation	3	2							1	2		2	2	1	
<b>CO3</b>	Model viscoelastic behaviour and interpret rigidity and dynamic loading fibre character	3	2							1	2		2	2	1	
<b>CO4</b>	Apply knowledge of optical, frictional, static and thermal properties in solving real life problems	3	2				2			1	2		2	2	1	

Enter Correction levels 1, 2 or 3 as defined below:

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### COs, POs, PSOs Mapping

<b>Subject: Fabric Manufacturing- III</b>	<b>Subject Code: BTEXS1-502</b>	<b>Semester: 5<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Discuss features, construction, working of different dobbies arrangement.	3	2								2		1	3		
<b>CO2</b>	Explain Construction & working of different Jacquards and Design development with card punching	3	2								2		1	3		
<b>CO3</b>	Describe working of mechanisms fitted on automatic looms like automatic package changing, multiple box motions etc.	3	2								2		1	3		
<b>CO4</b>	Describe design features, construction, working of different mechanisms of automatic shuttle looms	3	2								2		1	3		

Enter Correction levels 1, 2 or 3 as defined below:

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### COs, POs, PSOs Mapping

<b>Subject: Non-Woven Technology</b>	<b>Subject Code: BTEXS1-503</b>	<b>Semester: 5<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Classify the Nonwovens and Prepare technical data sheet of each sector of Nonwovens and Compile the fibres used, technology applied in manufacturing of Nonwovens.	3	2								2		1	3		
<b>CO2</b>	Describe the processes involved in web formation technologies in Nonwovens.	3	2								2		1	3		
<b>CO3</b>	Appreciate the technical features of various mechanical and thermal bonding techniques used in Nonwovens.	3	2								2		1	3		
<b>CO4</b>	Comprehend the effect of various chemical bonding agents and finishing processes designed for Non-woven fabrics.	3	2								2		1	3		

Enter Correction levels 1, 2 or 3 as defined below:

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### COs, POs, PSOs Mapping

<b>Subject: Textile Testing-I</b>	<b>Subject Code: BTEXS1-504</b>	<b>Semester: 5<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Apply knowledge of sampling techniques and its significance.	3	1										1	3		
<b>CO2</b>	Demonstrate the technical significance of fibre and yarn properties.	2											1	2	3	
<b>CO3</b>	Analyse and interpret results of fibre and yarn properties.	3	3	3	2	2							1			
<b>CO4</b>	Analyse moisture and its importance in textile materials.		3	3	2	2							1		2	

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### COs, POs, PSOs Mapping

<b>Subject: Textile Chemical Processing –II</b>	<b>Subject Code: BTEXS1-505</b>	<b>Semester: 5<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Explain the concept of colour and various colour theories and apply it in assessing the colour value of any dyed material.	3	1	1			2	2			1		1	3		
<b>CO2</b>	Apply the understanding of theories of dyeing to analyze the dye-fibre interactions occurring in different fibres.	3	1	1			2	2			1		1	3		
<b>CO3</b>	Implement the information of dyeing behavior of individual fibres in blend dyeing and its problems and in understanding the working of dyeing machines and dye identification procedures.	3	1	1			2	2			1		1	3		
<b>CO4</b>	Acquire Know-how of printing technology and appreciate the mechanism of different printing methods and printing after-treatments.	3	1	1			2	2			1		1	3		

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Textile Testing Lab.-I</b>	<b>Subject Code: BTEXS1-506</b>	<b>Semester: 5<sup>th</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Evaluate properties of fibres e.g. length, strength, Micronaire, maturity etc.	3	2		3								1	2	2	
<b>CO2</b>	Investigate properties of yarn e.g. strength, mass irregularity, hairiness.				3	2							1	3		
<b>CO3</b>	Analyse yarn appearance by visual examination.	2	2										1			
<b>CO4</b>	Apply statistical technique in the test result.	2	2		2	3							1		3	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Textile Chemical Processing Lab.–II</b>	<b>Subject Code: BTEXS1-507</b>	<b>Semester: 5<sup>th</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Acquire Skill of dyeing of cotton material with various classes of dyes	3	2		2		2	2			3	1	1	3		
<b>CO2</b>	Get Skill of dyeing of proteinicfibres with various classes of dyes	3	2		2		2	2			3	1	1	3		
<b>CO3</b>	Have Skill of dyeing of synthetic fibresfibres with different classes of dyes	3	2		2		2	2			3	1	1	3		
<b>CO4</b>	Gain Skill of printing cotton material with block printing method under different styles	3	2		2		2	2			3	1	1	3		

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Fabric Manufacturing- III Lab</b>	<b>Subject Code: BTEXS1-508</b>	<b>Semester: 5<sup>th</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Demonstrate the working of let-off and take up mechanisms of shuttleless weaving machines.	3								2	1	3	1	3		
<b>CO2</b>	Demonstrate the working knowledge of Weft insertion mechanisms of Air jet and Rapier weaving machines.	3								2	1	3	1	3		
<b>CO3</b>	Experiment with Selvage formation, temple and pirn changing mechanisms of shuttleless weaving machines.	3								2	1	3	1	3		
<b>CO4</b>	Have working skill of weft fork, multiple box mechanisms and identify the fabric faults	3								2	1	3	1	3		

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Theory of Textile Structure</b>	<b>Subject Code: BTEXS1-601</b>	<b>Semester: 6<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Apply knowledge of yarn structures in relation to predict properties.	3	2		2		1						1	1		
<b>CO2</b>	Able to explain the effect of yarn structure on mechanical properties.	3	2	1	2								1	1	2	
<b>CO3</b>	Apply different models to explain yarn structure.			3		1	1						1			
<b>CO4</b>	To establish relationship between fabric structural parameters vis-a vis properties.		1	1	2								1	3	1	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Process Control in Textiles</b>	<b>Subject Code: BTEXS1-602</b>	<b>Semester: 6<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Apply the role of process parameters on product quality.	3														
<b>CO2</b>	Analyse the process of choosing process parameters at preparatory and ring spinning stages.		3		2									2		
<b>CO3</b>	Apply process management in weaving preparatory to optimize quality.			1		3									3	
<b>CO4</b>	Apply process management in weaving with respect to fabric production, inspection, and machine audit.		3			2				2			1			

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Knitting Technology</b>	<b>Subject Code: BTEXS1-603</b>	<b>Semester: 6<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Appreciate the potentiality of knitting vis-a-vis weaving technology	3	2								2		1	3		
<b>CO2</b>	Demonstrate various weft knitted structures, and working of different parts of their machines	3	2								2		1	3		
<b>CO3</b>	Have an idea about the designing potential of different warp knitting machines	3	2								2		1	3		
<b>CO4</b>	Design knitted fabrics based on its basic structural elements and necessary mathematical calculations	3	2								2		1	3		

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Textile Testing-II</b>	<b>Subject Code: BTEXS1-604</b>	<b>Semester: 6<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Learn the significance of yarn and fabric properties	3	1										1	3		
<b>CO2</b>	Able to explain factors affecting fabric and garment properties	2											1	2	3	
<b>CO3</b>	Analyse fibre, yarn properties and interpret the results by applying statistical techniques	3	3	3	2	2							1			
<b>CO4</b>	Apply statistical techniques to interpret fabric properties		3	3	2	2							1		2	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Quality Management in Textile Industry</b>	<b>Subject Code: BTEXS1-605</b>	<b>Semester: 6<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Orient the thinking and demonstrate understanding in line with TQM concepts	2	2			3							1		1	
<b>CO2</b>	Apply procedures of statistics related to frequency distribution and hypothesis testing	3	3	2	2	2								2		
<b>CO3</b>	Analyze problems related with discrete functions and ranking data		3	2	2	2										
<b>CO4</b>	Develop and analyze control charts and ANOVA & Regression techniques for decision making		2		2	2							2	1	2	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Knitting Technology Lab</b>	<b>Subject Code: BTEXS1-606</b>	<b>Semester: 6<sup>th</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Study of design and working of different parts of circular knitting machines namely plain, rib and interlock	3								2	1	3	1	3		
<b>CO2</b>	Study of working of flat bed knitting machines	3								2	1	3	1	3		
<b>CO3</b>	Study on effect of construction parameters on properties of knitted fabrics	3								2	1	3	1	3		
<b>CO4</b>	Analyse knitted fabric constructions and designs	3								2	1	3	1	3		

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%



### COs, POs, PSOs Mapping

<b>Subject: Textile Testing Lab.-II</b>	<b>Subject Code: BTEXS1-607</b>	<b>Semester: 6<sup>th</sup></b>
<b>Credit: 1</b>	<b>L T P 0 0 2</b>	<b>Duration: <u>20 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Predict the behavior of yarn by fault analysis.	3	2		3								1	2	2	
<b>CO2</b>	Analyze the various mechanical properties of fabrics e.g. Tensile, Bursting, Tearing and Abrasion.				3	2							1	3		
<b>CO3</b>	Demonstrate the serviceability characteristics of fabrics.	2	2										1			
<b>CO4</b>	Predict the handle properties of fabrics.	2	2		2	3							1		3	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Non Conventional Yarn Manufacture</b>	<b>Subject Code: BTEXS1-701</b>	<b>Semester: 7<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Understand the basics of non-conventional spinning systems.	2	2				2			2	2	2	3	2	1	
<b>CO2</b>	Explain the working principle of various non-conventional, various operations and raw material requirements.	3	2	2			1		2	2	2	2	3	2	1	
<b>CO3</b>	Describe structure and properties of non-conventional spun yarn with respect to ring spun yarn.	3	2	2			2		2	2	2	2	3	2	2	
<b>CO4</b>	Understand the areas of end use of non-conventional spun yarns.	2	2	2			2		2	2	3	2	2	2	1	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject:</b> Garment Manufacturing Technology	<b>Subject Code:</b> BTEXS1-702	<b>Semester:</b> 7 <sup>th</sup>
<b>Credit:</b> 4	<b>L T P 3 1 0</b>	<b>Duration:</b> <u>60 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Comprehend the overall structure and status of garment manufacturing industry.	3	2								2		1	3		
<b>CO2</b>	Understand relevant aspects of garment manufacturing process.	3	2								2		1	3		
<b>CO3</b>	Understand the important areas of fabric properties related to garment production.	3	2								2		1	3		
<b>CO4</b>	Know the concepts of fabric and garment comfort.	3	2								2		1	3		

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject:</b> Apparel Merchandising and Management	<b>Subject Code:</b> BTEXS1-703	<b>Semester:</b> 7 <sup>th</sup>
<b>Credit:</b> 3	<b>L T P 3 0 0</b>	<b>Duration:</b> <u>45 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	The scope, nature, importance and functions of merchandising.										2	3	1	3		
<b>CO2</b>	Exercising planning and control tools, executing planning action plan and preparation of PPM file.										2	3	1		3	
<b>CO3</b>	Costing and pricing formula and strategies, fabric consumption calculation and development of costing sheet.										2	3	1		3	
<b>CO4</b>	Selection and management of vendor for sourcing and various import/ export documentation										2	3	1		3	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Advances in Fabric Structure</b>	<b>Subject Code: BTEXDI-711</b>	<b>Semester: 7<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Interpret and make weaving plans of backed, Gauze & Leno fabrics along with understanding of their manufacturing and properties	3	3												1	
<b>CO2</b>	Make Weave Plan and design of double, Extra warp and Extra weft figuring fabrics.		3	3	1		2						1	2		
<b>CO3</b>	Design & Explain warp and weft pile, velveteen and tapestry fabrics, their manufacturing scheme and properties.	2	3	3					1					1		
<b>CO4</b>	Explain design, manufacture and uses of damask, brocades and spool and gripper axminster carpets		1	3									1		2	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Texturing Technology</b>	<b>Subject Code: BTEXDI-712</b>	<b>Semester: 7<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Know the basics of texturizing.	3	2							1	2		2	2	2	
<b>CO2</b>	Illustrate scientific principles and manufacturing methods of textured yarns.	3	2							1	2		2	2	1	
<b>CO3</b>	Analyze structure and properties of textured yarns.	3	2				1			1	2		2	2	1	
<b>CO4</b>	Evaluate scientifically the properties of textured yarns	3	2				2			1	2		2	2	1	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Post Spinning Operation</b>	<b>Subject Code: BTEXDI-713</b>	<b>Semester: 7<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Understand about importance and objectives of post spinning operations.	2	2							1	2		1	1		
<b>CO2</b>	Detailed understanding about drawing & stretching and draw warping of manmade fibres.	3	2							1	2		1	1	2	
<b>CO3</b>	Explain various heat setting operations, mechanism, parameters and heat setting conditions of various manmade fibres.	3	2							1	2		1	1	2	
<b>CO4</b>	Demonstrate the texturing process in detail such as importance, methods and factors affecting in texturing process.	3	2							1	2		1	1	2	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Process Control in Textile Chemical Processing</b>	<b>Subject Code: BTEXDI-721</b>	<b>Semester: 7<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Identify Different process parameters involved and optimisation of these parameter in pre-treatment of textile fabrics.		3	2			2	2			2		2		3	
<b>CO2</b>	Work out with Optimised parameters for dyeing, printing of different styles and finishing of different fibres.		3	2			2	2			2		2		3	
<b>CO3</b>	Analyse the effects on quality due to impure chemicals, faulty fabrics and machine handling along with methods of assessing processed products			3			1	1			2	1	3	3		
<b>CO4</b>	Appreciate Standardisation of instrument/ machineries besides analysis of colour for checking impurity percentage.			3			1	1			2	1	3		1	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Marketing &amp; Financial Management in Textiles</b>	<b>Subject Code: BTEXDI-722</b>	<b>Semester: 7<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	The concept, system and process of selling, marketing and market research.				1						2	3	1	1		
<b>CO2</b>	The concept and process of consumer and buying behaviour and role of advertising and sales promotion in textile.				1						2	3	1	1		
<b>CO3</b>	Ideas, objectives and functions of financial management.				1						2	3	1	1		
<b>CO4</b>	Various concepts of financial management like working capital, structure of capital and budgeting.				1						2	3	1	1		

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Entrepreneurship development and management in Textile</b>	<b>Subject Code: BTEXD1-723</b>	<b>Semester: 7<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Needs, process, benefits and support systems available for entrepreneurship development,				1						2	3	1	1		
<b>CO2</b>	Preparation of project report for establishment of a small enterprise,				1						2	3	1	1		
<b>CO3</b>	Basics of marketing and production management,				1						2	3	1	1		
<b>CO4</b>	Preliminary ideas about human resource and financial management.				1						2	3	1	1		

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Mechanics of Textile Process</b>	<b>Subject Code: BTEXS1-801</b>	<b>Semester: 8<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Analysis of opening, cleaning operation and blowroom performance.	2	3										1	2	1	
<b>CO2</b>	To identify various carding functions along with study of hook formation and degree of disorder.		3			1							1			
<b>CO3</b>	To analyse roller drafting, various functions of roving frame and ring frame.		3			1	1									
<b>CO4</b>	Analysis of mathematical modelling of shedding, picking, checking and beat-up mechanisms.						1								3	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Mill Planning &amp; Management</b>	<b>Subject Code: BTEXS1-802</b>	<b>Semester: 8<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 3 0 0</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Understand basics of mill planning and management, forms and structure of business organizations.		2				1	1	1	3	2	3	2	2	1	
<b>CO2</b>	To decide and explain the mill location, factory layout and various aspects of factory buildings.		2	2			2	1	1	2	2	3	2	2	1	
<b>CO3</b>	Understand, analyse the problems and implement the solution related to material handling, air conditioning and lighting.		2	2			2	2	2	2	2	3	2	2	1	
<b>CO4</b>	Know the importance of working environment and pollution control and process of product cost calculation.		2	2			3	3	2	2	2	3	2	2	1	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Technical Textiles</b>	<b>Subject Code: BTEXD1-811</b>	<b>Semester: 8<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Analyse technical textiles, its importance and uses.	2	2				1						1		1	
<b>CO2</b>	Explain the twelve sectors of technical textiles and suitable products.							2					1	2		
<b>CO3</b>	Demonstrate various applications of technical textiles in the field like filtration, medical and protective.	2		3			2	2					1		3	
<b>CO4</b>	Illustrate the fabric properties and requirements for military applications, geotextiles			1			1	3		3			1	2	3	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject: Advancement in Manmade Fibers</b>	<b>Subject Code: BTEXD1-812</b>	<b>Semester: 8<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Understand development of fibre structure man-made fibre during man-made fibre spinning.	2	2							1	2		2	2	1	
<b>CO2</b>	Explain the high-speed melt spinning, melt spinning of hollow, multicomponent, ultrafine and nanofibres.	3	2							1	2		2	2	1	
<b>CO3</b>	Apply spin finish on manmade fibres and textured yarns.	3	2							1	2		2	2	1	
<b>CO4</b>	Describe the technology of drawing and heat setting of synthetic fibres and produce melt spun yarn.	3	2							1	2		2	2	1	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject : High Performance &amp; Specialty Fibers</b>	<b>Subject Code: : BTEXD1-813</b>	<b>Semester: 8<sup>th</sup></b>
<b>Credit: 4</b>	<b>L T P 3 1 0</b>	<b>Duration: <u>60 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	Understand the basics of polymerization, spinning of aromatic polyamides, high molecular weight polyester, rigid rod and ladder polymers.	3	2							1	2		2	2	1	
<b>CO2</b>	Describe the production process of high-performance fibres and specialty fibres.	3	2							1	2		2	2	1	
<b>CO3</b>	Explain structure and properties of high-performance fibres and specialty fibres.	3	2							1	2		2	2	1	
<b>CO4</b>	Know the applications areas of high-performance fibres and specialty fibres	3	2							1	2		2	2	1	

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%

### COs, POs, PSOs Mapping

<b>Subject : Project</b>	<b>Subject Code: :</b>	<b>Semester: 8<sup>th</sup></b>
<b>Credit: 3</b>	<b>L T P 0 0 6</b>	<b>Duration: <u>45 Hrs.</u></b>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>			3		2	1			2	3		3	3			
<b>CO2</b>			3		2	1			2	3		3	3			
<b>CO3</b>			3		2	1			2	3		3	3			
<b>CO4</b>					2	1			2	3	3	3	3			

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%      2. Moderate (Medium) – above 30% and upto70%      3. Substantial (High) – above 70%