

## Proposed Roadmap BS Textiles (From Fall 2023 onwards) as UMT 2.0 Undergraduate Policy

**Students without mathematics in intermediate required to do extra two mathematics subjects in first year (each course in one semester).**

1. Algebra and Trigonometry,                      2. Pre-calculus and Analytical Geometry.

### First Semester

Code	Course Title	Theory	Lab	Total	Contact Hours
	English-I	3	0	3	3
	Islamic Studies	3	0	3	3
	Everyday Science	3	0	3	3
	Computer Applications	2	1	3	4
DC101	Digital Communication-I	0	2	2	4
<b>TL105</b>	Introduction to Textiles and Clothing	3	0	3	3
	<b>Total</b>	<b>14</b>	<b>3</b>	<b>17</b>	<b>20</b>

### Second Semester

Code	Course Title	Theory	Lab	Total	Contact Hours
	English-II	3	0	3	3
	Pakistan: Ideology, Constitution and Society	3	0	3	3
	Logical Reasoning	3	0	3	3
GY102	Mathematical Geometry and Drafting	1	1	2	3
DC102	Digital Communication-II	0	2	2	4
TL204	Yarn Manufacturing	3	1	3	5
	<b>Total</b>	<b>13</b>	<b>4</b>	<b>17</b>	<b>21</b>

### Third Semester

Code	Course Title	Theory	Lab	Total	Contact Hours
	Quantitative Skills & Reasoning	3	0	3	3
CS143	Computer Programming Fundamentals	2	1	3	4
<b>FD212</b>	<b>History of Costume</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>2</b>
TL106	Textile Raw Materials	3	0	3	3
TL206	Fabric Manufacturing	2	1	3	4
<b>TL219</b>	<b>Industrial Engineering in Apparel Production</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>5</b>
	<b>Total</b>	<b>15</b>	<b>3</b>	<b>18</b>	<b>21</b>

### Fourth Semester

Code	Course Title	Theory	Lab	Total	Contact Hours
	Business Statistics	3	0	3	3
	Civics and Community Engagement	0	2	2	4
CC102	Object Oriented Programming	2	1	3	4
<b>TL208</b>	<b>Garment Manufacturing</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>5</b>
TL214	Textile Wet Processing	2	1	3	4
TL218	Knit Structures and Formation	2	1	3	4
	<b>Total</b>	<b>12</b>	<b>6</b>	<b>18</b>	<b>24</b>

## Fifth Semester

Code	Course Title	Theory	Lab	Total	Contact Hours
	Principles of Marketing	3	0	3	3
TL309	Textile Industry Utilities	2	1	3	4
TL209	Textile Calculations	3	0	3	3
TL211	Technical Textiles	3	0	3	3
TL315	Garment Illustration	1	2	3	5
<b>FD329</b>	Pattern Drafting Techniques	1	2	3	5
SD100	English Immersion-I	0	0	0	0
	<b>Total</b>	<b>13</b>	<b>5</b>	<b>18</b>	<b>23</b>

## Sixth Semester

Code	Course Title	Theory	Lab	Total	Contact Hours
MG224	Innovation and Entrepreneurship	3	0	3	3
EE351	Electrical and Electronic Fundamentals	2	1	3	4
TL313	Anthropometry and Garment Construction	3	1	4	5
TL356	Garment Production, Planning and Control	3	0	3	3
TL305	Textile Testing	1	1	2	3
<b>TL321</b>	<b>Environment Health and Safety</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>3</b>
<b>SD102</b>	21 <sup>st</sup> Century Skills	0	0	0	0
	<b>Total</b>	<b>15</b>	<b>3</b>	<b>18</b>	<b>21</b>

## Seventh Semester S2027

Code	Course Title	Theory	Lab	Total	Contact Hours
<b>TL403</b>	<b>Computer Aided Pattern Making</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>4</b>
TL401	Sustainable Textiles	3	0	3	3
<b>TL414</b>	<b>Garment Finishing Process</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>3</b>
<b>TL413</b>	<b>Textile Merchandizing</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>3</b>
TL411	Quality Characterization of Apparel	3	0	3	3
TL491	Capstone Project-I	0	3	3	6
	<b>Total</b>	<b>14</b>	<b>4</b>	<b>18</b>	<b>21</b>

## Eighth Semester

Code	Course Title	Theory	Lab	Total	Contact Hours
TL402	Apparel Machinery and Equipment	2	1	3	4
TL492	Capstone Project – II	0	3	3	6
	<b>COOP*</b>	<b>0</b>	<b>6</b>	<b>6</b>	
	<b>Total</b>	<b>2</b>	<b>10</b>	<b>12</b>	
<b>Credit Hours without COOP = (100 + 30 = 130)</b>					
	<b>Total Credit Hours</b>	<b>100</b>	<b>36</b>	<b>136</b>	

\* COOP: Students who have more than 2.60 CGPA, can adopt COOP program and do the research work in the industry.