

#### 4. DERIVING CURRICULUM AREAS FROM CURRICULUM OBJECTIVES

To achieve the curriculum objectives, instructions have to be provided in the following curriculum areas:

Sr. No.	Curriculum Objectives	Curriculum Areas
1.	Development of knowledge and skills pertaining to fibres, yarn and fabric dyes and chemical: their characteristics, preparation, specifications and usage	<ul style="list-style-type: none"> <li>▪ Textile raw materials</li> <li>▪ Textile auxiliaries and chemicals</li> <li>▪ Basic chemistry</li> <li>▪ Introduction to textile process.</li> <li>▪ Introduction to wet processing.</li> </ul>
2.	Development of knowledge and skills of various processes and machines required for processing of textiles in bleaching, dyeing, printing and finishing sections and upkeep of machinery.	<ul style="list-style-type: none"> <li>▪ Technology of bleaching</li> <li>▪ Technology of printing</li> <li>▪ Technology of dyeing</li> <li>▪ Technology of finishing.</li> </ul>
3.	Development of competencies to undertake testing of fibre and yarn, and fabric dyes, understanding various quality control operation and ability to inspect finished goods	<ul style="list-style-type: none"> <li>▪ Textile physical testing</li> <li>▪ Textile chemistry testing</li> </ul>
4.	Development of competencies to prepare material, equipment and manpower schedule for processing of textile in various sections.	<ul style="list-style-type: none"> <li>▪ Process House Planning and Organization</li> </ul>
5.	Development of understanding about basic principles of management, awareness regarding laws and acts for labour safety and welfare.	<ul style="list-style-type: none"> <li>▪ Process House planning and Organization</li> </ul>
6.	Awareness of environmental pollution due to textile processing, procedure to control position and waste disposals and pollution act.	<ul style="list-style-type: none"> <li>▪ Process House Training and Organization</li> <li>▪ Textile Chemical Testing</li> </ul>
7.	Development of abilities to tackle simple shop floor related problems in the field of textile chemistry.	<ul style="list-style-type: none"> <li>▪ Project work</li> <li>▪ Process &amp; Quality Control in Processing</li> </ul>
8.	Development of basic skills in reading drawing.	<ul style="list-style-type: none"> <li>• Engineering Drawing</li> </ul>
9.	Development of Communication abilities to act as a link between labour and management.	<ul style="list-style-type: none"> <li>▪ Communication Skills</li> </ul>
10.	Knowledge of Applied Science subjects and other Engineering subjects which are useful for understanding subjects of textile chemistry.	<ul style="list-style-type: none"> <li>▪ Applied Science</li> <li>▪ Applied Maths</li> <li>▪ Basic Chemistry</li> <li>▪ General Engineering</li> </ul>

11.	Development of competencies in textile designs and knowledge of types, combinations and applications of colours.	<ul style="list-style-type: none"><li>▪ Design, colour and CATD.</li><li>▪ Computer colour matching lab</li></ul>
12.	Development of awareness regarding entrepreneurial support system.	<ul style="list-style-type: none"><li>▪ Entrepreneurship Development and Management.</li></ul>