

SEMESTER PATTERN SYLLABUS BACHELOR OF TEXTILE SCIENCE

SEMESTER – I

- 1. Elements of Design :**
 - Basic knowledge of the elements & principles of design, which is essential for the development of design.
- 2. Fundamental of Textile – I :**
 - Basic knowledge of fibre, yarn & fabric which helps to understand the structure of fabric.
- 3. Computer Basics :**
 - The utility of computer, computer architecture & networking.
- 4. Chemical Processing – I :**
 - Chemical processing of textile materials, which is important for the fabric qualities.
- 5. Traditional Indian Textiles – I :**
 - Detail studies of Woven Indian Traditional Textiles.
- 6. Functional English :**
 - English grammar to improve linguistic abilities.

SEMESTER – II

- 1. Colour Composition :**
 - Basics of colour theories, colour combinations & texture so that they can make successful designs
- 2. Fundamentals of Textile – II :**
 - Basics of fabric weaving and weaving machines.
- 3. Computer Application in Designing :**
 - CAD and the concept of operating system so that they can effective use for designing.
- 4. Chemical Processing – II :**
 - Study of textile chemistry & its effect on fabric behavior.
- 5. Traditional Indian Textiles – II :**
 - Study of Regional Traditional Textiles of India with reference to raw material, technique and motifs.
- 6. Communication Skills in English :**
 - Written & oral communication skills in English.

SEMESTER – III

- 1. Basic Woven Structure – I :**
 - Basic weaves (fabric structure) & their weaving principles, fabric construction particulars.
- 2. Fundamentals of Knitting – I :**
 - Identification of different knitted structures & their properties of technical know how.
- 3. Textile Testing – I :**
 - Basics of fabric quality, standards & quality standards and techniques of fibre, yarn & fabric testing.
- 4. Dyeing Technology – I :**
 - Details of textile dyeing techniques & fabric fastness properties.
- 5. Applied Textile Design – I :**
 - Different fabric ornamentation techniques are taught along with machinery used.
- 6. Computer Aided Textile Design – I :**
 - An introduction to various textile designing software is given & development of weaves, fabric structures & prints is done through these softwares for fabric designing. Jacquard designing.

SEMESTER – IV

- 1. Basic Woven Structure – II :**
 - Different fabric structures & their designs alongwith the loom attachments.
- 2. Fundamentals of Knitting – II :**
 - Identification of various weft & warp knitted structures. The properties & the machines involved in manufacturing and important fabric calculations.
- 3. Textile Testing – II :**
 - Handling different textile testing equipments & the judgement of quality of textiles. (fibre, yarn, fabric).
- 4. Dyeing Technology - II :**
 - Dyeing of textiles with various dyes & various dyeing methods is taught along with the technical details such as machinery used, dyes used, properties of fabrics etc.
- 5. Applied Textile Design – II :**
 - Study of structural ornamentation of fabric, different elements, construction techniques, design and developmental procedures.
- 6. Non - Woven :**
 - Understanding various methods of manufacturing, techniques involved & end uses of non woven fabrics

SEMESTER – V

- 1. Advanced Woven Structure – I :**
 - Designing of compound fabric structure, design principles & machinery used fabric analysis.
- 2. Technical Textiles – I :**
 - Understand the technology involved in manufacturing textile production for unconventional uses.
- 3. Intricate Traditional Textiles – I :**
 - Information about different traditional textiles with reference to their region, raw material, technique of ornamentation, motif & end uses is given in this subject.
- 4. Printing Technology – I :**
 - Various styles & methods of printing, quality of fabric printing, mechanism of printing machinery involved, digital printing.
- 5. Computer Aided Textile Design – II :**
 - Development of various weaves, motifs, textures, prints is done through doobby & printing software.
- 6. Entrepreneurship Development :**
 - Concept of Entrepreneurship and its need.

SEMESTER – VI

- 1. Advance Woven Structure – II :**
 - The compound woven fabrics along with their weave, technical specifications, characteristics of methods of manufacturing, designing details for fabric manufacturing.
- 2. Weaving Calculations :**
 - Weaving calculations for raw material design development.
- 3. Intricate Traditional Textiles – II :**
 - Study of various techniques of hand painting & printing.
- 4. Printing Technology :**
 - The methods of printing cotton, silk, wool & other blended fabrics with various dyes & pigments.
- 5. Product Design :**
 - Students are expected to develop a textile related product, which includes designing, packaging & other related things with their own creations which will be evaluated by jury.
- 6. Textile Marketing :**
 - Concept marketing, the knowledge of management, costing & marketing is imparted through this subject.