14. TEXTILE CRAFT

B.A. Part III –

SCHEME: BA/B.Com PART-III

			Duration	Max mark	Min mark
1.	**Theory**:	Paper-I	3Hrs	30	
		Paper -II	3Hrs	30	22
2.	**Practical**:	Paper -I	3Hrs	35	
		Paper-II	3Hrs	35	25
3.	**Submission**:	Paper -I		35	
		Paper-II		35	25

Paper-I : Weaving Theory II

UNIT-I

1. Types of Spinning: Mechanical and Chemical
   Mechanical spinning process: picking, ginning, combing/carding, drawing etc. Types of chemical spinning-melt spinning, dry spinning and wet spinning.
2. Types of Yarns: Simple and Fancy
   Simple yarn: single and double/plied/folded yarn
3. Calculation of resultant count for folded yarn

UNIT-II

1. Manmade and Synthetic fibres
   Man-made fibres: Basic methods of producing rayon fibre, Different types of man-made fibres
   Synthetic fibres: Different types of synthetic/chemical fibre, method of their production, properties of polyester fibre, nylon fibre, glass fibre.
2. Silk and Wool
   Production, spinning, properties and uses of silk, different types of silk
   Classification of wool, wool spinning process, difference between woollen and worsted fabric
3. Concept of Mixing and Blending, Basic difference between mixing and blending. Concept of Staple and Filament fibre; difference between staple fibre and filament fibre

UNIT-III

1 Derivatives of Twill weave: Broken weave, Herringbone weave and Diamond weave

2 Towel weaves: Huckaback and Honeycomb; quality of yarn and weave selected for towels

3 Concept of shedding mechanism; Dobby and Jacquard shedding mechanism

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Paper-II: Dyeing Theory II

UNIT-I

1. Dye molecule; Concept and Importance of Chromophores and Auxochrome in a dye
2. Objectives of Fabric finishes; different mechanical and chemical fabric finishes; Determinants of finishes
3. Different types of natural and synthetic dyes.

UNIT-II

4. Method of direct printing: Screen printing; colour preparation and screen preparation
5. Discharge and Resist printing; different styles of discharge and resist printing
6. Factors affecting colour fastness: composition of fibre, chemical structure of dye, techniques of dyeing/printing, addition of other useful additives

UNIT-III

7. Importance of fabric finishes
8. Different types of chemical finishes- crease resistant finish, water proof finish, fire proof finish, moth proofing finish and absorbency finish.
9. Determinants of fabric finishes.

Practical (Paper-I)

1. Concept of yarn twist(S twist and Z twist) and plied yarn(single and double yarn)
2. Calculation of Ends and Picks per inch in given piece of fabric
3. Towel weaves preparation using paper strips

Practical (Paper-II)

1. Screen preparation (simple tracing method)
2. Table cover preparation by screen printing

Submission (paper-I)

1. Assessment of yarn and fabric samples 2. Assessment of weave samples

Submission (paper-II)

1. Assessment of samples 2. Any one article using screen printing

Practical Examination Scheme:

Major Problem: 20 Marks Minor Problem: 15 Marks

Reference books:

Booth, J.E. (1996) Principles of Textile Testing, 1st edition, CBS publishers & distributors PVT.Ltd. New delhi

Sahnai, V.A. (1980) Technology of Dyeing, Sevak publications. Mumbai

Sahnai, V.A. (1979) Technology of printing, Sevak publications. Mumbai

Sahnai, V.A. (1999) Technology of finishing, Sevak publications. Mumbai

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