ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

III SEMESTER   **HOME SCIENCE** TIME:3HRS/WEEK

HS 3101(3) **FUNDAMENTALS OF TEXTILES** MARKS:100

w.e.f 2024-2025 (23AK Batch) **SYLLABUS**

**UNIT – I: INTRODUCTION TO TEXTILES:**

• Introduction to textiles - Importance of study of textiles.

• General properties of a Textile Fiber - Primary and Secondary.

• Classification of textile fibers – Natural and manmade; cellulose, protein, synthetic and mineral

**UNIT – II: NATURAL FIBERS:**

• Cellulose fibres – Cotton and Linen - Production, properties, use and care

• Minor cellulose fibres

• Protein fibers – Silk and wool - Production, properties, use and care.

**UNIT- III: SYNTHETIC FIBERS:**

• Nylon – Production, properties use and care

* Polyester – Production, properties use and care

• Acrylic fibres – Production, properties use and care

**UNIT – IV: MINERAL FIBERS:**

• Mineral fibres – Fibre glass and Asbestos Production, properties and Uses

• Mixtures and Blends – Importance and advantages of Blending

• Blends of Natural cellulose fibers, protein fibers and manmade fibers.

**UNIT – V: YARNS:**

• Yarns – Types of Yarns - Staple and Filament

• Methods of spinning – Mechanical process

• Methods of spinning – Chemical process - Wet , Dry

• Classification of yarns – simple, novelty and textured yarns

**REFERENCES:**

1. DeepaliRastogi and Sheetal Chopra (2017). Textile Science, 1st edition, Orient Black Swan Pvt. Ltd.

2. KanwarVarinder Pal Singh. (2014). Introduction to Textiles, 1st edition, Kalyani Publishers.

3. Seema Sekhri. (2017). Text book of Fabric – Fundamentals to Finishing, 2nd edition, PHI Learning Pvt. Ltd.

4. Sushma Gupta, NeeruGarg, Renu Saini. (2018). Text book of clothing, textiles and laundry, 8th edition, Kalyani publishers.

5. Vastala, R. (2013) .Text book of Textiles and Clothing, 1st edition, Published by ICAR.

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