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

TIME: 4Hrs/week **Basics of textiles** Max. Marks:100

**Objectives:** The students will be able to:

1. gain an understanding about textile fibers and their use
2. judge the quality of textile fibers
3. acquire knowledge of fibers and the various processes involved manufacture of fibers.

**Course:**

Unit – I: a. Introduction , scope and importance of study of textiles, general properties and

classification of textile fibers

b. Nature fibers: Vegetable fibers: cotton, linen and minor cellulosic fibers – history,

manufacture, properties, use and care

Unit – II: Animal fibers: wool, silk and minor protein fibers-History, manufacture, properties, use

and care.

Mineral fibers: Asbestos

Unit – III: a. Manmade fibers: Rayon (viscose, Acetate and cupra - ammonium) – History,

manufacture, properties, use and care.

Unit – IV: a. Spinning, methods, types of yarns (exclude chemical spinning and textured yarns)

b. Identification of textile fibers

c. Blends, mixtures and their identification

Unit – V: Laundry reagents:

1. Water: Soft and hard water, removal of hardness
2. Soaps: manufacture, properties and uses
3. Detergents: manufacture, properties and uses
4. Bleaches: Oxidizing, Reducing and Optical
5. Starches
6. Blues

**References:**

1. Textile Fabrics and their selections – Isabel B. Wingate – Prentice Hall Inc., New Jersey (1960)
2. Textile fiber to Fabric – Potter &Corbman – McGraw Hill Book Co., New York (1974)
3. Performance of Textiles – Dorothy Lyle – JhonWioley&Sons, New York (1977)
4. The standard Hand book of textiles – A.J.Hall – English Language Book Society, Madras(1965)
5. Fundamentals of Textiles & their care – SusheelaDantyagri – Orient Longman Ltd., New Delhi (1974)
6. A student’s Text Book of Textile Science – A.J. Hall – All Man & Sons, London (1963)
7. Introducing to Textiles – Evenly E. Stout – Jhon Wiley & Sons, New York (1970)
8. Introducing Textile Science – Majory L. Joseph Hoit – RinehatWimton Inc., New York (1972)

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

TIME: 2 Hrs/week **Basics of textiles** Max. Marks:50

**PRACTICALS**

**Objectives:** The students will be able to:

1. gain an understanding about textile fibers and their use
2. judge the quality of textile fibers
3. acquire knowledge of fibers and the various processes involved manufacture of fibers.

**Course:**

Unit – I: identification of textile fibers:

1. Visual test
2. Microscopic study of each fiber
3. Burning test
4. Solubility tests

Unit – II: Laundry Equipment and reagents

1. Using of washing machine
2. Effect of various soaps and detergents
3. Effect of blues and starches - method

Unit – III: Thread count

Unit – IV: Shrinkage

Unit – V: Colorfastness to sunlight and crocking

Unit – VI: Basic hand stitches and embroidery

**References:**

1. Textile Fabrics and their selections – Isabel B. Wingate – Prentice Hall Inc., New Jersey (1960).
2. Textile fiber to Fabric – Potter & Corbman – McGraw Hill Book Co., New York (1974).
3. Performance of Textiles – Dorothy Lyle – JhonWioley&Sons, New York (1977).
4. The standard Hand book of textiles – A.J.Hall – English Language Book Society, Madras(1965).
5. Fundamentals of Textiles & their care, Susheela Dantyagri, Orient Longman Ltd., New Delhi(1974)
6. A student’s Text Book of Textile Science – A.J. Hall – All Man & Sons, London (1963).
7. Introducing to Textiles – Evenly E. Stout – John Wiley & Sons, New York (1970).
8. Introducing Textile Science – Majory L. Joseph Hoit – RinehatWimton Inc., New York (1972).

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