5073 SPECIALIZED GARMENTS PRODUCTION

AIMS

To be able to develop knowledge, skill and attitude in the area of special garments production with special emphasis on:

- protective clothing and production of specialized garments.
- microbial production and medical Textile.
- water repellent clothing and proofing of garments.

SHORT DESCRIPTION

Protective clothing; Production of specialized garments; Microbial protections; Medical Textiles; Water repellent clothing; Proofing of garments; Water proofing; Fire proofing; Mildew Proofing; Moth Proofing.

DETAIL DESCRIPTION

Theory:

1. **Understand the protective clothings.**

- 1. Describe protective clothing.
- 2. Define flame retardency property.
- 3. Mention the classification of Textile fiber according to flame retandancy property.
- 4. Describe burning cycle.
- 5. Describe nomex, aramid, carbon and fibers.
- 6. Describe flame retandeny of cotton, viscose and polyester.
- 7. Describe fire fighter's suite.

2. Understand the production of specialized garments.

- 1. Describe the importance of specialized garments.
- 2. Describe coal miners suite.
- 3. Describe racing drivers suite.
- 4. Describe NASA recommended suite.

3. Understand the anti microbial protection.

- 1. Describe importance for protection.
- 2. Describe the mechanism of anti-microbial protection.
- 3. Describe the application of anti-microbial protection.

4. Understand the medical Textile.

- 1. Define medical Textile.
- 2. Describe the importance of medical Textile.

- 3. Identify the necessary for sterilization.
- 4. Mention the classification of medical Textile.
- 5. Describe the production procedure of different medical Textile.

5. **Understand the water repellent clothing.**

- 1. Describe different types of water repellent treatment on different fabrics.
- 2. Describe the technique of production of water repellent garments.
- 3. Discuss the comfortability parameters of water repellent garments.

6. Understand the water proofing.

- 1. Define water proofing.
- 2. Mention the purpose of water proofing.
- 3. Mention the types of water proofing.
- 4. Mention the typical recipe for water proofing.
- 5. Describe the process of water proofing.
- 6. Mention the uses of water proofing.

7. **Understand the fire proofing.**

- 1. Define fire proofing.
- 2. Describe the importance of fire proofing.
- 3. Mention the typical recipe for fire proofing.
- 4. Describe the process of fire proofing.
- 5. Mention the materials and chemicals used in fire proofing.
- 6. Uses of fire proofing.
- 7. Mention the properties of fire proofing agents.

8. Understand the Mildew Proofing.

- 1. Define Mildew Proofing.
- 2. Describe the purpose of Mildew Proofing.
- 3. Describe the process of Mildew Proofing.
- 4. Mention the uses of Mildew Proofing.

9. Understand the Moth Proofing.

- 1. Define Moth Proofing.
- 2. Describe the purpose of Moth Proofing.
- 3. Describe the Process of Moth Proofing.
- 4. Mention the uses of Moth Proofing.

PRACTICAL:

- 1. Determine flame relardency property of cotton fabric.
- 2. Determine water repellency property of cotton fabric.
- 3. Determine the specification of different medical Textile product.

- 4. Apply the water repellent agent on cotton or synthetic fabric to make water repellent products.
- 5. Apply the fire Proofing agent on cotton or synthetic fabric to make fire Proofing repellent products.
- 6. Apply the Mildew and Moth Proofing agent on cotton or synthetic fabric to make Moth Proofing products.