

BHARATHIAR UNIVERSITY – COIMBATORE - 641 046.  
M.PHIL. / PH.D.- Costume Design and Fashion  
PART – I SYLLABUS (Effect from the academic year 2008- 2009 onwards)  
PAPER-III-Special paper  
APPAREL MANUFACTURING AND QUALITY CONTROL

UNIT – I

Body measurements and its importance- standardization of body measurements. Computerized pattern making, marker planning, cutting and grading. Fashion forecasting.

Unit - II

Drafting basic block for childrens and adults. Designing and Constructing children's-skirts, Tops and frocks, women's wear-Nighty, kurtha, pyjama and blouse men's wear- Shirt and pant.

Unit – III

Garment production machinery and equipment (spreading and cutting machines), Garment production plans and management- export procedure and documentation – shipping formalities – approaching buyers, export incentives – Robotics in garment industry.

Unit - IV

Quality control -definition, scope and quality control of finished garments - Eco standards. Export management – quality management - zero defects.

Unit- V

Importance of costing in textile industry - Elements of costing – fabric construction / GSM calculation – patterning Vs Costing – Fabric consumption calculation – Fabric costing – woven / Knits – value added materials in garments - garment costing -men's style, ladies style, children's wear.

Reference :

1. Jacob Solinger – Apparel manufacturing Analysis – Newyork textile book – 1961.
2. Harold carr and Barbaralatham- Technology of Clothing manufacture – Black well science inc. USA.
3. Swiney John.B- Merchandising of fashion- Robald press.
4. Barton, Roger – Advertising Hand book – Preentice hall Inc. ( 1986).
5. Jarnow.J.A.& Judelle.B – Inside the fashion business (1974) 2<sup>nd</sup> edition.
6. A.J.Chuter- Quality management in the clothing. and textile industry.

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PAPER-III-Special paper

TEXTILE PROCESSING AND TESTING.

Unit - I

Dyes- classification – properties-Fibre suitability-Variou stages of dyeing. Preparation of fabric before dyeing- equipment and new methods .

Printing procedure- new methods in printing.

Unit – II

Recent developments in processing. Role of enzymes in processing. Effluent treatment and analysis.

Unit - III

Innovative finishes in fabrics- softening, crease resistant, antistatic, antibacterial, water proof, flame proof, soil release, mildew and mothproof. Micro encapsulation technique in finishing.

Garment. washing – stone washing , acid washing, enzyme wash, emerisation, laser fading , ozone fading.

Unit -IV

Yarn testing – breaking strength, Fabric testing – fabric weight, breaking strength, crease recovery, abrasion resistance, bursting strength, colourfastness.

Unit -V

Textile testing analysis – Spectrophotometer - CCM, fabric permeability testing, testing for comfort, evaluation of fabric hand, whiteness index, residual starch.

Reference:

- 1.Shenai – Technology of textile finishing – Sevak publication ( 1995).
2. Hall A.J. – Textile Finishing – Elsevier Publications Ltd. (1986)
3. JHu – Fabric testing – Wood head textile series No.76.
- 4.Hassan Behery – Effect of mechanical and physical properties on fabric hand – Wood head textiles series No.4.
- 5.W.D.Schindler – Chemical finishing of textiles- Wood head publishers Ltd.
6. Jxin- Total colour management in textiles- wood head publishers.
- 7.Textile testing-Saville