

**M.Phil.–Part-I : Paper : 1**

**Teaching Techniques/Pedagogical Methods in Costume Design and Fashion**

**Objectives:**

At the end of the course, the scholars will be able to

1. Understand the meaning, scope and concept of Education, Educational Technology, Instructional Technology & Educational Evaluation.
2. Appreciate the contributions made by philosophers and psychologists to the field of education.
3. Review the relative effectiveness among the different methods and techniques of teaching and learning in Higher Education.
4. Discriminate among different types of tests meant for students' evaluation, diagnose the learning problems of the students and take remedial measures.
5. Be aware of the web based communication strategies for professional development and be benefited of the e-resources in Education.

**SYLLABUS**

**UNIT – I Higher Education and Learning**

Historical Perspectives ... Objectives and Role of Higher Education ... Learning and Learning Hierarchy ... Information Processing ... Learning Events and Outcomes ... Motivation.

**UNIT – II Teaching Technology : Designs**

Teaching Technology: Meaning, concept and scope ... Instructional Designs: Objective based, Skill based, Competency based, Learning style based and Model based.

**UNIT – III Methods and Techniques of Teaching**

Large Group Techniques: Lecture, Modified Lecture, Seminar, Symposium, Panel Discussion, Team Teaching, Project Approach and Workshop ... Small Group Techniques: Group Discussion, Simulation, Role Playing, Buzz Technique, Brain Storming, Case Discussion and Assignment ... Systems Approach in Education.

**UNIT – IV Measurement and Evaluation in Education**

Educational Evaluation: A Conceptual Framework...Methods of Evaluation ... Self Evaluation and Student Evaluation in Higher Education ... Question Banking ... Diagnostic Testing and Remedial Teaching.

**UNIT – V Electronic Media in Education**

Instructional Media: Concept, Selection, Use and Variety ..... e-Learning V Resources : e-Learning, e-books, e-journals,etc....Web-based Learning: Access and Teaching Issues.

## **TEXT BOOKS:**

### **For Units I to IV**

**Vedanayagam, E.G. (1989) Teaching Technology for College Teachers.** New Delhi: Sterling Publishers (P) Ltd.

### **For Unit V**

**Rajasekar, S. (2005) Computer Education and Educational Computing,** Hyderabad: Neelkamal Publications.

## **BOOKS FOR REFERENCE:**

**Kumar, K.L. (1997) Educational Technology,** New Delhi: New Age International (P) Ltd.

**Sampathkumar, K., Paneerselvam, A and Santhanam, S. (1990) Introduction to Educational Technology,** New Delhi: Sterling Publishers (Pvt.) Ltd.

**Tony Bates, A.W. (2005) Technology, e-Learning and Distance Education,** New York: Routledge.

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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 - II

RESEARCH METHODOLOGY AND TRENDS IN COSTUME DESIGN & FASHION

UNIT -I

Research -Definition ,types of research.

Research problem – sources, identification, selection and statement, review of related literature. The Research report – format of the research report, main body of the report, references and appendices, style of writing, typing the report, pagination, tables and figures, evaluating the project report.

UNIT- II

Methods and tools of data collection – Data processing and analysis – collection, classification, tabulation, graphical representation and data analysis. Sampling –Design and types.

UNIT – III

Test of significance – parametric and non parametric test. Parametric test – chi square test, t – test and F test.

Non parametric test – U – Test, introduction to Anova , one way, two way, multivariable ( no problems in ANOVA).

UNIT- IV

Recent developments in the production of various fibres, yarn, woven and knitted fabrics. Nanotechnology. Eco friendly textiles.

UNIT –V

Technical textiles – Definition, application, medical textiles, Geo textiles, survival textiles, waterproof breathable fabrics, smart and intelligent textiles and its application areas in various textile fields.

Reference:

1. Avy -Introduction to research education,Hort Reinhart,1982.
2. Best.J.N-.Research education,Prentice Hall,Delhi,1979.
- 3.Good.C.V-Essentials of educational research-an introduction  
Mc.Grawhill,Newyork.
- 4.S.P.Gupta-An introduction to statistical method,Vikas publishing house,New  
Delhi.
- 4.Piper R.B – Composite material, vol 1 to 3, Elsever, 1986.
5. Geier. M.H – Quality hand book of composite meaterials, Chapman and Hall,  
London. U.K. 1994.
6. T.Hongu, M.Takigami, G.O.Philips, New Millenium fibers, Woodhead textile  
series No.43.
- 7.P.Brown & K.Stevens – Nanofibers & Nanotechnology in textiles, Wood head  
Publishers Ltd.
8. A.R.Horrocks – Fire retardent materials – wood head publishers.
7. J.W.S. Hearle - High performance fibers – Wood head Publishers Ltd.
8. A.R.Horrocke – Hand Book of technical textiles, Wood head Publishers Ltd.

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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