

MOTHER TERESA WOMEN'S UNIVERSITY

KODAIKANAL - 624 101

SYLLABUS FOR
M.PHIL. TEXTILES AND CLOTHING
(REGULAR)



FROM 2018 ONWARDS

MOTHER TERESA WOMENS UNIVERSITY, KODAIKANAL

M.Phil TEXTILES AND CLOTHING

S. No	Subject code	Subject	Hours / Week	Total Credits	Formative Internal Assessment	Summative/ External Assessment	Total Marks
Semester-I							
1	MTCT11	Research methodology	6	4	40	60	100
2	MTCT12	Advanced paper in Textile Testing and Finishing	6	4	40	60	100
3	MTCT13	Professional skills	6	4	40	60	100
TOTAL				12			300
Semester-II							
S. No	Subject code	Subject	Hou rs/ Wee k	Total Credits	Formative Internal Assessment	Summative/ External Assessment	Total Marks
1	MTCA21	Area paper related to thesis	6	4	40	60	100
2	MTCD21	Dissertation + Viva Voce		14(12+2)			200
TOTAL				18			300
GRAND TOTAL				30			600

Objectives:

- To understand basic concepts of research and its methodologies
- To study about Identifying appropriate research topics
- To Study about research problem and parameters
- To learn about writing of a research report and thesis

Unit-I: Introduction to research

Meaning of research-process of research, objectives of research. Developing a research proposal, presentation of a problem, objectives, method, work plan, personnel, facilities and budget. Identifying the problem- defining and delimiting the problem, types of research- fundamentals, applied, action, experimental and descriptive.

Unit-II: Research Hypothesis

Hypothesis- meaning and importance, kinds of hypothesis. Variables- meaning and identification in relation to the research problem-independent, dependent, control and intervening variables.

Unit-III: Questionnaires and Sampling

Research tools- questionnaire, interview schedule, observation, experimentation, attitude scale, check list, socio gram. Scaling techniques-different types- nominal, ordinal, interval and ratio. Characteristics of tools- reliability and validity. Sampling design- probability, non-probability sampling.

Unit-IV : Analysis of Data

Data analysis- quantitative, qualitative, presentation of data-tables, graphs, illustrations, foot notes and bibliographical presentations. Research reports- basic concepts of research report.

Unit-V: Analysis of variance

Normal probability and its uses. Parametric tests- large and small samples, Non-parametric tests, Analysis of variance- one way and two way classifications. Multiple and partial correlation- concepts only.

References

1. S.P.Gupta Statistical methods, (1993), Sultan chand and sons, Daryagan, New Delhi.
2. Kothari.C.R. Research methodology, methods and techniques, (1991) Wiley Eastern Ltd, New Delhi.
3. Wilkinson and Bhandarkar. P.L.C. Methodology and techniques of social research, (1990) , Himalaya publishing house, Bombay.
4. Sharma, B.A.V. Prasad, R.D and sathyanarayana.P, Research methods in social sciences, (1995) , Sterling publishers, New Delhi.

MTCT12 Advanced Paper in Textile Testing and Finishing 6 Hours /4 Credits

Objectives:

- To impart knowledge on Fiber.
- To understand dyeing techniques and its application.
- To gain knowledge on fabric and garment quality testing parameters
- To understand about textile finishing and environmental protection.

Unit I: Textile Fiber

Introduction to fibres – meaning - recent development of natural fibres – fibres extraction – fibres extraction techniques, fibres properties- physical and chemical, fibres testing methods.

Unit II: Dyes

Dyes introduction - extraction of dyes from natural sources – dyes extraction process, Mordants – definition – types – dyeing techniques – fixation techniques and after treatment dyes fabrics.

Unit III: Fabric Testing

Woven fabrics- Properties- fabric testing, Non-woven fabrics- Properties- fabric testing,Knitting fabrics- properties- fabric testing.

Unit IV:Finishing

Finishing of dyes on fabric- definition- objectives- fabric finishing- classification of finishing, finishing process- mechanical- calendaring, compacting,embossing,sueding, raising or napping, wool glazing, shearing, stabilization, decating,steaming and heat setting, sanforizing or preshrinking. Chemical- softening, elastomeric finishes, crease resident or crease proofing, soil release finishes, flame retardant treatment, peach finish, anti pilling, stain, stain and soil residant finishes, oil and water proofing, water- repellent finishes, anti-static finish, anti mildew, mothproofing finishes, antibacterial finish, plasma finish- enzyme finishing- bio polishing, Special finishes- mosquito repellent finishes, nano finishes,

Unit V: Environment protection

Environment protection- Meaning, Importance – Environmental impacts of textile industries
– Environment protection- by textile recycling, Effluent treatment of water- Important of
ecofriendly processing- Application of enzyme in textile wet processing industry.

REFERENCE BOOKS:

- 1.Harrison. P (Editor), “Garment Dyeing: Ready to wear fashion from the dye house”, (1988)
The Textile Institute, U.K. ISBN: 1870812131
2. Noemia D’ Souza., “Fabric Care”, (1998) , New Age International (P) Ltd.
Publisher, Chennai, ISBN: 81-224-1143-6.
3. Corbman B.P, Textiles fiber to fabric, 1983, International Edn,.
4. Alexander , N.G, Designing interior einvironment, (1972), MAs Court Braze
Convanorich, Inc, New York,

Core III - (Theory)
PROFESSIONAL SKILLS (Common Paper)

Objectives:

After completing the course, the scholars will be able to

- Develop skills to ICT and apply them in teaching, learning contexts and research.
- Acquire the knowledge of communication skills with special reference to its elements, types, development and styles.
- Understand the terms: Communication technology, Computer Mediated Teaching and develop Multimedia/E-contents in their respective subjects.
- Develop different teaching skills for putting the content across to targeted audience.

Unit I - Computer Application Skills

Fundamentals of Computers and windows, Operating System – MS – Office Components; **Word:** Equation editor, Table Manipulation – Formatting Features – organizational Chart. **MS – EXCEL:** Statistical Functions – Number Manipulation – Chart Preparation with various types of graphs. **MS PowerPoint:** PowerPoint presentation with multimedia features. **Internet and its applications:** E-mail and attachments – working with search engines.

Unit II - Communication Skills (English/Tamil/Both)

English: Skills of Communication: Listening, Speaking, reading and Writing – Writing Synopsis, Abstract and proposals. Developing good language abilities – Public speaking – Writing Skills.

Tamil: பயிற்றுவிக்கும் திறன் - பேச்சுத்திறன் -
வெளிப்பாட்டுத் திறன் - ஆய்வுத்திட்டம் -
ஆய்வுச்சுருக்கம் தயாரித்தல்.

Unit III - Communication technology

Computer Mediated Teaching: Multimedia, E – Content, Satellite Based Communication – EDUSAT and ETV channels. Web: Internet I Education.

Unit IV - Pedagogical Skills

Micro teaching Skills: Skill of Induction, Skill of Stimulus Variation. Skill of Explaining, Skill of Probing Questions, Skill of Blackboard, Writing and Skill of Closure – Integration of Teaching Skills – Evaluation of Teaching Skills – Research Extension and Consultancy.

Unit V - Industrial Technology

Lecture Techniques: Steps, Planning of a lecture, Lecture Notes, Updating, Delivery of Lecture. Teaching – Learning Techniques: Team teaching, Group Discussion. Seminar, Workshops, Symposium and Panel Discussion – Games and Simulations – Web Based Instructions.

References

- Micael D. and William (2000). Integrating Technology into Teachnig and Learning: Concepts and Applications, Prentice Hasll, New York.
- Information and Communication Technology in Education: A Curriiculum for Schools and Programme of Teacher development. Jonathan Anderson
- Pandey S.K.(2005). Teaching communication. Commonwealth publisher, Delhi
- Sharma. R.A.(2006), Fundamentals of education technology, Surya publication, Meerut
- Kum Babu A. and Dandapani S. (2006), Microteaching, Neelkamal Publications, Hyderabad

- Vanaja M and Rajasekhar S. (2006),
Computer Education, Neelkamal
Publications, Hyderabad