

**CURRICULUM FRAMEWORK AND SYLLABI FOR**  
**MASTER OF TEXTILES AND CLOTHING**  
**(FOR THE CANDIDATE TO BE ADMITTED FROM THE ACADEMIC YEAR (2018-2019)**  
**(UNDER CHOICE BASED CREDIT SYSTEM-CBCS)**



**DEPARTMENT OF HOME SCIENCE**  
**MOTHER TERESA WOMEN'S UNIVERSITY**  
**KODAIKANAL**

## PRELUDE

The Department of Home Science was started in the year 1985. The Department aims to maximize student's potential through scientifically planned, multidimensional, skill oriented curriculum to excel in the areas of home science. The Department provides opportunities to students to grow beyond classroom through a wide range of extracurricular activities, programs and services through the maintenance of environment, cultural and intellectual diversity. The students have more scope to get the exposure for research, projects, internships, industrial visits and placements.

## **VISION**

**The vision of the department is to endeavor women by inculcating scientific knowledge and skills in the field of Textiles and Clothing and Foods and Nutrition.**

## **MISSION**

- **To provide opportunities for all-round development of the students and excellence in higher education, research and extension in the field of textile, food and nutrition sciences.**
- **To empower learners in achieving their professional goals.**
- **To keep the students updated with scientific and technological developments.**
- **To enhance creativity, innovation, research and craftsmanship through training**
- **To facilitate and enhance the personality of students skill in critical thinking, communication, leadership and computer literacy.**
- **To establish collaborative links with industrial, commercial and public organizations for development of the course.**
- **To disseminate the findings of research to the society and the Nation.**

## PROGRAMME OUTCOMES (PO)

The Expected Programme Outcomes on completion of M.Sc. Textiles and Clothing

|             |  |
|-------------|--|
| <b>PO1-</b> | Students have complete knowledge in the field of Textiles and Clothing   |
| <b>PO2-</b> | Students will apply their professional knowledge and their research ideas for developing innovative fashion trends and creative products.                                    |
| <b>PO3-</b> | Acquire dexterity for self-development and competency  |
| <b>PO4-</b> | Understand current scenario of fashion and apparel design and adapt themselves to the changes in global fashion and commercial market.                                       |
| <b>PO5-</b> | Prepares them to acquire business relations by instilling technical and computer knowledge, statistical analytical skills, soft skills, confidence, ethics and moral values. |
| <b>PO6-</b> | Qualify for industrial needs and start up units by providing professional skills   |
| <b>PO7-</b> | Explore research interest with creative skills towards sustainable environment practices.  |

## **PROGRAMME SPECIFIC OUTCOMES (PSO)**

|               |  |
|---------------|--|
| <b>PSO1 –</b> | Acquire research knowledge in Textile, Apparel and Fashion production techniques     |
| <b>PSO2 –</b> | Gain expertise in areas of fashion and design as to adopt current and future trends  |
| <b>PSO3 –</b> | Acquire entrepreneurial skills in the field of textiles, apparel and fashion         |
| <b>PSO4 –</b> | Excel in the area of computer and soft skills as per industrial needs and start-ups. |
| <b>PSO5 –</b> | Acquire dexterity in the field of textile, clothing and fashion for employability    |

| <b>MOTHER TERESA WOMEN'S UNIVERSITY, KODAIKANAL</b> |            |   |            |            |            |            |            |
|---|------------|---|------------|------------|------------|------------|------------|
| <b>MASTER OF TEXTILES AND CLOTHING</b>              |            |   |            |            |            |            |            |
| <b>STRUCTURE 2018-2019</b>                          |            |   |            |            |            |            |            |
| <b>SEM</b>  | <b>COU</b> | <b>TITLE</b>                                  | <b>HRS</b> | <b>CRE</b> | <b>INT</b> | <b>EXT</b> | <b>TOT</b> |
| I   | PTCT11     | Research Methodology and Statistics           | 5          | 5          | 25         | 75         | 100        |
|   | PTCT12     | Textile Science                               | 5          | 5          | 25         | 75         | 100        |
|   | PTCT13     | Surface Embellishments                        | 5          | 5          | 25         | 75         | 100        |
|   | PTCP11     | Fashion Sketching Practical – I               | 5          | 5          | 25         | 75         | 100        |
|   | PTCE11     | Apparel Machinery & Equipment                 | 5          | 5          | 25         | 75         | 100        |
| <b>TOTAL</b>  |            |   |            | <b>25</b>  |            |            | <b>500</b> |
| II  | PTCT21     | Textile Processing and Finishing              | 5          | 5          | 25         | 75         | 100        |
|   | PTCT22     | Home Textiles                                 | 5          | 5          | 25         | 75         | 100        |
|   | PTCT23     | Personality Development                       | 5          | 5          | 25         | 75         | 100        |
|   | PTCP22     | Dyeing and Printing Techniques Practical – II | 5          | 5          | 25         | 75         | 100        |
|   | PTCE22     | Clothing Psychology                           | 5          | 5          | 25         | 75         | 100        |
| <b>TOTAL</b>  |            |   |            | <b>25</b>  |            |            | <b>500</b> |
|   | PTCT31     | Application of Computer in fabric and         | 5          | 5          | 25         | 75         | 100        |

|                    |        |  |   |           |    |    |             |
|--------------------|--------|--|---|-----------|----|----|-------------|
| III                |        | fashion Design   |   |           |    |    |             |
|                    | PTCT32 | Technical Textiles                                       | 5 | 5         | 25 | 75 | 100         |
|                    | PTCT33 | Business Communication                                   | 5 | 5         | 25 | 75 | 100         |
|                    | PTCP33 | Design and Construction of Women's Outfit Practical –III | 5 | 5         | 25 | 75 | 100         |
|                    | PTCE33 | Advanced Pattern Making Techniques                       | 5 | 5         | 25 | 75 | 100         |
| <b>TOTAL</b>       |        |  |   | <b>25</b> |    |    | <b>500</b>  |
| IV                 | PTCT41 | Visual Merchandising                                     | 5 | 5         | 25 | 75 | 100         |
|                    | PTCT42 | Entrepreneurship Development                             | 5 | 5         | 25 | 75 | 100         |
|                    | PTCD41 | Dissertation   | 5 | 5         | 25 | 75 | 100         |
| <b>TOTAL</b>       |        |  |   | <b>15</b> |    |    | <b>300</b>  |
| <b>Grand Total</b> |        |  |   | <b>90</b> |    |    | <b>1800</b> |



## CREDIT DISTRIBUTION

| <b>S.NO</b>  | <b>COURSES CATEGORY</b> | <b>CREDITS</b> | <b>PERCENTAGE OF CREDITS TO TOTAL CREDITS</b> |
|--------------|-------------------------|----------------|---|
| 1            | Core Theory             | 55             | 61  |
| 2            | Core Practical          | 15             | 16.66   |
| 3            | Major Based Electives   | 15             | 16.66   |
| 4            | Projects                | 5              | 5.55  |
| <b>TOTAL</b> |                         | <b>90</b>      | <b>99.87</b><br><b>100%</b>                   |

## AVERAGE PERCENTAGE OF THE COURSES HAVING FOCUS ON SKILLS

| <b>Courses</b>   | <b>Employability</b> | <b>Skill</b> | <b>Ent*</b> | <b>Knowledge</b> |
|--|----------------------|--------------|-------------|------------------|
| Research Methodology and Statistics                            |                      |              |             | Y                |
| Textile Science  | Y                    |              |             |                  |
| Surface Embellishments   | Y                    |              |             |                  |
| Fashion Sketching Practical – I                                |                      | Y            |             |                  |
| Textile Processing and Finishing                               |                      |              | Y           |                  |
| Home Textiles  |                      |              |             | Y                |
| Personality Development  |                      |              |             | Y                |
| Dyeing and Printing Techniques<br>Practical – II               |                      | Y            |             |                  |
| Application of Computer in fabric and<br>fashion Design        |                      |              |             | Y                |
| Technical Textiles   |                      |              |             | Y                |
| Business Communication   | Y                    |              |             |                  |
| Design and Construction of Women's<br>Outfit<br>Practical –III |                      |              | Y           |                  |
| Visual Merchandising   | Y                    |              |             |                  |
| Entrepreneurship Development                                   |                      |              | Y           |                  |
| <b>CORE COURSES - TOTAL</b>                                    | <b>4</b>             | <b>3</b>     | <b>3</b>    | <b>5</b>         |
| Apparel Machinery & Equipment                                  |                      |              |             | Y                |
| Clothing Psychology  |                      |              |             | Y                |
| Advanced Pattern Making Techniques                             | Y                    |              |             |                  |

|                                 |          |  |  |          |
|---------------------------------|----------|--|--|----------|
| <b>ELECTIVE COURSES - TOTAL</b> | <b>1</b> |  |  | <b>2</b> |
| Project                         | Y        |  |  |          |
| <b>OTHERS - TOTAL</b>           | <b>1</b> |  |  |          |

|                                 |          |          |          |          |
|---------------------------------|----------|----------|----------|----------|
| <b>Core Courses-Total</b>       | <b>4</b> | <b>3</b> | <b>3</b> | <b>5</b> |
| <b>Elective Courses - Total</b> | <b>1</b> |          |          | <b>2</b> |
| <b>Others - Total</b>           | <b>1</b> |          |          |          |

|                          |   |   |               |
|--------------------------|---|---|---------------|
| Course Title & Code      | <b>CORE 1 (THEORY) - Research Methodology and Statistics-PTCTII</b>   |   |               |
| Semester                 | Semester-I  | Credits:5   | Hours/weeks:5 |
| Cognitive Level          | K2: Understand<br>K3: Apply   |   |               |
| Learning Objectives      | <ul style="list-style-type: none"> <li>• Learn some basic concepts of research and statistical analysis.</li> <li>• Understand different types of research</li> <li>• Study about scientific investigation to solve problem, test hypotheses, develop or invent new products.</li> <li>• Gain knowledge on research process and report preparation</li> </ul> |   |               |
| <b>Course Outcome</b>    | Upon completion of this course, the students will be  |   |               |
|                          | <b>CO1:</b>   | Research design and concepts <b>K2</b>  |               |
|                          | <b>CO2:</b>   | Application of Statistics in research <b>K3</b>                                     |               |
|                          | <b>CO3:</b>   | Analysing the process of developing a Research Plan <b>K4</b>                       |               |
|                          | <b>CO4:</b>   | Research process and report preparation <b>K2</b>                                   |               |
|                          | <b>CO5:</b>   | Efficient usage of different statistical tools and interpretation of data <b>K3</b> |               |
| <b>UNIT - I</b>          | Introduction to Research: Meaning of Research - Types of Research - Significance of Research - Research Process. Defining the Research Problem - Sources, Identification, Selection and Statement, Review of related literature.  |   |               |
| <b>UNIT-II</b>           | Research Design and Sampling: Meaning of research design, Types of research designs, Basic Principles of experimental designs. Developing a Research Plan.<br>Sampling: Census and sample survey, Steps in sampling design, criteria for selecting a sampling procedure, Characteristics of a good sample design, different types of sample designs.          |   |               |
| <b>UNIT - III</b>        | Data Collection Methods: Methods of Data collection - Observation, Questionnaire, Interview. Data Processing- Collection, Classification, Tabulation, Graphical Representation and Data Analysis.   |   |               |
| <b>UNIT-IV</b>           | Preparation of Research Report: Research Report – Format of research report, Main body of the report, References and appendices, Style of writing, Typing the Report, Pagination, Tables and Figures, Evaluating the report.  |   |               |
| <b>UNIT- V</b>           | Statistics: Meaning and scope of statistics, Role of Statistics in research, measures of central tendency and dispersion<br>Correlation- Co-efficient of Correlation and its Interpretation, Rank Correlation, Regression equation, Application of Chi-Square test, ANOVA test. (No calculations; only theory)  |   |               |
| <b>References Books:</b> | <ol style="list-style-type: none"> <li>1. C R Kothari, K K Gupta, Research Methodology, (2004), Published by for New Age International (P)Ltd, New Delhi.</li> <li>2. S P Gupta, An Introduction to Statistical Methods, (2009) Vikas</li> </ol>  |   |               |

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|  | Publishing House, New Delhi.<br>3. J. Medho, Statistical method- An introductory text, (2005), New age International publishers, New Delhi.<br>4. Donald Ary, Lucy Cheser Jacobs, Introduction to Research in Education, (2009) 8th edition, Wadsworth Pub Co.<br>5. Best J N, Research in Education, (1979), Prentice Hall, Delhi |
|--|--|

**Mapping of COs with POs& PSOs:**

| CO  | PO |   |   |   |   |   |   | PSO |   |   |   |   |
|-----|----|---|---|---|---|---|---|-----|---|---|---|---|
|     | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |
| CO1 | M  | S | S | S | S | S | S | S   | M | M | M | M |
| CO2 | M  | S | S | S | S | S | M | S   | M | M | M | M |
| CO3 | M  | S | S | S | S | S | S | S   | M | M | M | M |
| CO4 | M  | S | S | S | S | S | S | S   | S | S | M | M |
| CO5 | M  | S | S | M | S | S | S | S   | M | M | M | M |

|                        |     |   |         |
|------------------------|-----|---|---------|
| Strongly Correlating   | (S) | - | 3 Marks |
| Moderately Correlating | (M) | - | 2 marks |
| Weakly Correlating     | (W) | - | 1 Mark  |
| No Correlation         | (N) | - | 0 mark  |

|                          |  |  |               |
|--------------------------|--|--|---------------|
| Course Title & Code      | <b>CORE 2 (Theory) – TEXTILE SCIENCE - PTCT12</b>  |  |               |
| Semester                 | Semester-I   | Credits:5  | Hours/weeks:5 |
| Cognitive Level          | K1: Recall<br>K2: Understand<br>K3: Apply<br>K4: Analyse   |  |               |
| Learning Objectives      | <ul style="list-style-type: none"> <li>• Study about the properties of textile fibre, yarn and fabric</li> <li>• Understand the and manufacturing process of fibre, yarn and fabric</li> <li>• Study about the equipment’s used for production of fabrics</li> <li>• Understand the sequence of developing fibres into fabric</li> </ul>   |  |               |
| <b>Course Outcome</b>    | Upon completion of this course, the students will be   |  |               |
|                          | <b>CO1:</b>  | Analysing the properties of textile fibre, yarn and fabric <b>K4</b> |               |
|                          | <b>CO2:</b>  | Sequence of spinning processes <b>K2</b>                             |               |
|                          | <b>CO3:</b>  | Manufacturing process of Fiber, yarn and fabric <b>K2</b>            |               |
|                          | <b>CO4:</b>  | Developing fibres into fabric <b>K3</b>                              |               |
|                          | <b>CO5:</b>  | Latest weaving technologies <b>K3</b>                                |               |
| <b>UNIT – I</b>          | Introduction to Textile Fibbers: Textile Fibers – Definition, Classification, Manufacturing, Physical & Chemical Properties of natural fibres – Cotton, Linen, Wool, Silk and Jute. Manmade fibres – Polyester, Nylon, Acrylic, Spandex / Lycra, Viscose Rayon & Tencel.   |  |               |
| <b>UNIT – II</b>         | Blow Room Process: Sequence of spinning processes – objective and working principles of Blow room, Carding, Draw frame and Comber.   |  |               |
| <b>UNIT – III</b>        | Yarn Spinning: Objects and working Principles of Simplex & Spinning (Ring frame). Yarn – Classification, Yarn twist and Yarn count.  |  |               |
| <b>UNIT – IV</b>         | Weaving process: Weaving processes – Warp winding, Warping, Sizing and Pirn winding. Primary and Secondary of power loom.  |  |               |
| <b>UNIT – V</b>          | Loom: Shuttle and Shuttle less looms - Air jet, Water jet, Projectile and Rapier loom.   |  |               |
| <b>References Books:</b> | <ol style="list-style-type: none"> <li>1. Corbman B.P and Potter.M.D, Textiles fiber to fabric, 1984, International Edition, McGraw-hill book Co, New York.</li> <li>2. E.P.G. Gohl and L.D. vilensky, Textile Science, 1983, 2nd Ed., Publishers, New Delhi.</li> <li>3. W.D. Klein , A Practical Guide to Ring Spinning Textile Institute, Manchester.</li> <li>4. Mark and Robinson, Principles of weaving, Textile institute Manchester.</li> <li>5. N.N. Banner.J.I , Mechanism of Weaving, Vol – I &amp; II, Textile Institute</li> <li>6. Joseph J Pretal, Fabric Science, 1990, 5th edition, Fairchild Publications, Newyork.</li> </ol> |  |               |

**Mapping of COs with POs &PSOs:**

| CO  | PO |   |   |   |   |   |   | PSO |   |   |   |   |
|-----|----|---|---|---|---|---|---|-----|---|---|---|---|
|     | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |
| CO1 | S  | S | S | S | M | S | M | S   | S | M | M | S |
| CO2 | S  | S | S | M | S | S | M | S   | S | M | M | S |
| CO3 | S  | S | S | S | S | S | M | S   | S | S | M | S |
| CO4 | S  | S | S | S | S | S | M | S   | S | S | M | S |
| CO5 | S  | S | S | S | S | S | M | S   | S | S | M | S |

Strongly Correlating (S) - 3 Marks  
 Moderately Correlating (M) - 2 marks  
 Weakly Correlating (W) - 1 Mark  
 No Correlation (N) - 0 mark

|                         |  |   |                |
|-------------------------|--|---|----------------|
| Course Title & Code     | <b>CORE 3(Theory) – SURFACE EMBELLISHMENTS - PTCT13</b>  |   |                |
| Semester                | Semester-I   | Credits:5   | Hours/weeks: 5 |
| Cognitive Level         | K1: Recall<br>K2: Understand<br>K3: Apply<br>K6: Create  |   |                |
| Learning Objectives     | <ul style="list-style-type: none"> <li>• To study about the Fundamentals of Embroidery</li> <li>• To understand the origin of Indian Embroidery</li> <li>• To learn about hand and machine embroidery stitch types</li> <li>• To understand traditional Indian embroideries</li> </ul>   |   |                |
| Course Outcome          | Upon completion of this course, the students will be   |   |                |
|                         | CO1:   | Fundamentals of hand embroidery techniques <b>K2</b>        |                |
|                         | CO2:   | Machine embroidery stitches <b>K3</b>                       |                |
|                         | CO3:   | Special Embroidery stitches <b>K3</b>                       |                |
|                         | CO4:   | Origin of various traditional Indian embroideries <b>K1</b> |                |
|                         | CO5:   | Care and Maintenance of Embroidery Articles <b>K6</b>       |                |
| <b>UNIT – I</b>         | Fundamentals of Embroidery: Fundamentals of Embroidery, Selection of material – thread – needle. Methods of tracing design, Hand embroidery Stitches – Running, stem, Blanket, Lazy daisy, chain, couching, Herringbone, Fish bone, Feather – single and double, Rumanian seeds, Cross, Fly, Stain, Long and Short, French knot, Bullion knot, Double knot, Lettering – Alphabets and Monogram work.                           |   |                |
| <b>UNIT – II</b>        | Machine Embroidery stitches: Machine Embroidery stitches – Running, cording, Satin, Long and Short, Granite, Eyelet, Cutwork, Letters Monograms, appliqué on net.  |   |                |
| <b>UNIT – III</b>       | Special stitches: Special stitches - Counted thread work on canvas material – Drawn Thread Work – Cut Work – Bead Work – Mirror Work – Sequins Work. Designing and producing fabric appliques and placing it on children and women's apparel   |   |                |
| <b>UNIT – IV</b>        | Origin of Indian Embroidery: Origin of Indian Embroidery. Embroidery stitches used – Kashida of Kashmir, kantha of Bengal, Phulkari of Punjab, ,Kasuti of Karnataka, Chikankari of Luck now Embroidery of Kutch and Kathiawar, Zari embroidery – Types, Colours, Motiffs, Fabric used and their historical importance  |   |                |
| <b>UNIT – V</b>         | Care and Maintenance of Embroidery: Care and Maintenance of Embroidery Articles – Pressing Articles – Frames - Glass & Wooden. Estimating, Costing & Marketing of Finished Embroidery Goods.   |   |                |
| <b>Reference books:</b> | <ol style="list-style-type: none"> <li>1. Mary Mathews, Practical clothing construction -Part I, II , 1986, Cosmic Press, Chennai</li> <li>2. JamilaBrijBhushan, The costumes and textiles and India, 1958, D B Taraporevala Sons &amp; Co, Bombay.</li> <li>3. DorrisFlyn, Costumes of India, 1971, xford&amp;IBH Publishing Co ,Delhi</li> <li>4. Das S.N , Costumes of India and Pakistan, 1956, DB Taraporevala</li> </ol> |   |                |



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|  | <p>Sons and co, Bombay</p> <p>5. Encyclopedia of Embroidery Stitches Including Crewel, 1974, Dover Publications</p> <p>6. Val Holmes, Decorative Painting Techniques Book, 2003.</p> |
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**Mapping of COs with POs &PSOs:**

| CO  | PO |   |   |   |   |   |   | PSO |   |   |   |   |   |
|-----|----|---|---|---|---|---|---|-----|---|---|---|---|---|
|     | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |   |
| CO1 | S  | S | S | S | S | S | S | S   | S | S | S | S | S |
| CO2 | S  | S | S | S | S | S | S | S   | S | S | S | S | S |
| CO3 | S  | S | S | S | S | S | S | S   | S | S | S | S | S |
| CO4 | M  | S | S | S | S | S | S | S   | S | S | M | M | M |
| CO5 | S  | S | S | M | S | S | S | S   | S | S | M | M | S |

|                        |     |   |         |
|------------------------|-----|---|---------|
| Strongly Correlating   | (S) | - | 3 Marks |
| Moderately Correlating | (M) | - | 2 marks |
| Weakly Correlating     | (W) | - | 1 Mark  |
| No Correlation         | (N) | - | 0 mark  |

|                     |   |   |                |
|---------------------|---|---|----------------|
| Course Title & Code | <b>CORE 1 (Practical) – FASHION SKETCHING PRACTICAL – I-PTCP11</b>  |   |                |
| Semester            | Semester-I  | Credits:5   | Hours/weeks :5 |
| Cognitive Level     | K2: Understand<br>K3: Apply<br>K4: Analyse<br>K5: Evaluate<br>K6: Create  |   |                |
| Learning Objectives | <ul style="list-style-type: none"> <li>• To impart practical exposure in fashion sketching</li> <li>• To acquaint students with the knowledge on application of colours on garment designing.</li> <li>• To impart the knowledge and skills required to become designers.</li> </ul>  |   |                |
| Course Outcome      | Upon completion of this course, the students will be  |   |                |
|                     | <b>CO1:</b>   | Garment design creation <b>K6</b>   |                |
|                     | <b>CO2:</b>   | Developing fashion figures using head theories <b>K2</b>                  |                |
|                     | <b>CO3:</b>   | Sketching of different action croqui <b>K3</b>                            |                |
|                     | <b>CO4:</b>   | Applying colors on garment designs <b>K4</b>                              |                |
|                     | <b>CO5:</b>   | Developing fashion figures using photos, pictures and magazines <b>K5</b> |                |
|                     | <ol style="list-style-type: none"> <li>1. Creating of design and its application on garments.</li> <li>2. Lay figure - 8 head- Stick, Block and Muscle figures.</li> <li>3. Fashion figures – 10 and 12 head - Stick, Block and Muscle figures</li> <li>4. Sketching of different action croqui</li> <li>5. Application of garments on croqui</li> <li>6. Application of Colours on garment designs using different mediums</li> <li>7. Drawing accessories on garments for party wear</li> <li>8. Developing Stylized Figures looking into photos and Pictures from Magazines</li> </ol> |   |                |

**Mapping of COs with POs &PSOs:**

| CO  | PO |   |   |   |   |   |   | PSO |   |   |   |   |
|-----|----|---|---|---|---|---|---|-----|---|---|---|---|
|     | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |
| CO1 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO2 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO3 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO4 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO5 | S  | S | S | S | S | S | S | S   | S | S | S | S |

|                        |     |   |         |
|------------------------|-----|---|---------|
| Strongly Correlating   | (S) | - | 3 Marks |
| Moderately Correlating | (M) | - | 2 marks |
| Weakly Correlating     | (W) | - | 1 Mark  |
| No Correlation         | (N) | - | 0 mark  |

|                         |  |   |                |
|-------------------------|--|---|----------------|
| Course Title & Code     | <b>ELECTIVE 1 (Theory) – APPAREL MACHINERY &amp; EQUIPMENT-PTCE11</b>  |   |                |
| Semester                | Semester-I   | Credits:5   | Hours/weeks: 5 |
| Cognitive Level         | K2: Understand<br>K3: Apply<br>K4: Analyse   |   |                |
| Learning Objectives     | <ul style="list-style-type: none"> <li>To understand the equipment's used for Spreading, Marking, cutting and pressing</li> <li>To understand the functions of sewing machines</li> <li>To learn about the care and maintenance of sewing machines</li> <li>To study about the machineries used for apparel manufacturing</li> </ul>   |   |                |
| <b>Course Outcome</b>   | Upon completion of this course, the students will be   |   |                |
|                         | <b>CO1:</b>  | Fabric spreading and marking methods <b>K2</b>                                |                |
|                         | <b>CO2:</b>  | Various cutting equipment and tools <b>K2</b>                                 |                |
|                         | <b>CO3:</b>  | Basic sewing machines, common sewing problems and their maintenance <b>K3</b> |                |
|                         | <b>CO4:</b>  | Speciality sewing machines <b>K4</b>  |                |
|                         | <b>CO5:</b>  | Pressing, folding and packing equipment <b>K2</b>                             |                |
| <b>Unit – I</b>         | Spreading and Marking : Spreading – Spreading Methods, Equipment and Tools, Types of Spreads–Marking Methods – Types of Markers – Notches – Drills and Computer Aided Markers.   |   |                |
| <b>Unit – II</b>        | Cutting Equipment's: Definition, Cutting Equipment and Tools, Straight Knife Cutting Machine, Rotary Cutting Machine, Band Knife Cutting Machine, Die Cutters, Cutting Drills, Computerized Cutting Machines.  |   |                |
| <b>Unit – III</b>       | Sewing Machines: Basic sewing Machines – Parts and Functions of Single & Double Needle Machine, Flat lock Machine, Over lock Machine, – Special Attachments. Common problems in Sewing Machines and maintenance  |   |                |
| <b>Unit – IV</b>        | Speciality Sewing Machines: Speciality Sewing Machines - Fashion Maker, Bar Tacking, Button-hole Making, Button Fixing, Blind Stitching Machine, Fabric Examining Machine, Embroidery machines, Feed of the Arm, Flat Lock Machine.  |   |                |
| <b>Unit – V</b>         | Pressing: Pressing – The Purpose of Pressing — Pressing Equipment and Methods – Pleating – Permanent Press – Garment Folding and Packing   |   |                |
| <b>Reference Books:</b> | <ol style="list-style-type: none"> <li>Solingar Jacob, Apparel manufacturing” Hand book – analysis, principles and practice, 1988, Columbia Boblin media Corp.</li> <li>V.RameshBabu, Industrial engineering in apparel production, 2012, Woodhead publishing India Pvt Ltd.</li> <li>Gerry cooklin Revised by Steven Hayes and John Mc Logline, Introduction to clothing manufacture, 2007, Black well science publishing.</li> <li>Gerry cooklin, Garment Technology for Fashion Designers,1977, Black well publishing.</li> <li>Harold Carr and Barbara Latham, The Technology of clothing</li> </ol> |   |                |

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|  | <p>manufacture, 1999, Second edition, Black Well Publishing.</p> <p>6. David J. Tyler, "Materials management in clothing production", (1991)</p> <p>7. Gerry cooklin Revised by Steven Hayes and John mc logline, Introduction to clothing manufacture,1998, Black well science publishing.</p> |
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**Mapping of Cos with POS & PSOs:**

| CO  | PO |   |   |   |   |   |   | PSO |   |   |   |   |   |
|-----|----|---|---|---|---|---|---|-----|---|---|---|---|---|
|     | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |   |
| CO1 | S  | S | S | S | S | S | S | S   | S | S | S | S | S |
| CO2 | S  | S | S | S | S | S | S | S   | S | S | S | S | S |
| CO3 | S  | S | S | S | S | S | M | S   | S | S | S | S | S |
| CO4 | S  | S | S | S | S | S | S | S   | S | S | S | S | S |
| CO5 | S  | S | S | S | S | S | S | S   | S | M | M | S | S |

**Strongly Correlating** (S) - **3 Marks**

**Moderately Correlating** (M) - **2 marks**

**Weakly Correlating** (W) - **1 Mark**

**No Correlation** (N) - **0 mark**

|                     |   |   |                |
|---------------------|---|---|----------------|
| Course Title & Code | <b>CORE 1 (Theory) – TEXTILE PROCESSING AND FINISHING–PTCT21</b>  |   |                |
| Semester            | Semester-II   | Credits:5   | Hours/weeks: 5 |
| Cognitive Level     | K2: Understand<br>K3: Apply<br>K4: Analyse<br>K5: Evaluate  |   |                |
| Learning Objective  | <ul style="list-style-type: none"> <li>To understand about the fabric Preparatory process for dyeing and printing</li> <li>To learn about different types of fabric finishes</li> <li>To understand the environmental impacts of textile industry</li> <li>To study the basic textile processing finishing sequence in apparel industry</li> </ul>  |   |                |
| Course Outcome      | Upon completion of this course, the students will be  |   |                |
|                     | CO1:  | Fabric preparatory process <b>K2</b>                |                |
|                     | CO2:  | Classification of fabric finishes <b>K4</b>         |                |
|                     | CO3:  | Functional finishes <b>K3</b>                       |                |
|                     | CO4:  | Special purpose finishes <b>K3</b>                  |                |
|                     | CO5:  | Environmental impacts of textile industry <b>K5</b> |                |
| Unit I              | Fabric Preparatory Process: Preparatory process- Preparation of fabric for dyeing - Singeing – Singeing Machine – Desizing — Scouring – Bleaching – Bleaching – J-Box- Process and equipment's used.  |   |                |
| Unit II             | Classification of finishing: Classification of finishing – mechanical finishing-functional finishing- special purpose finishing. Mechanical finishing- Aesthetic finishes: Luster – glazed, moiré, schreiner, embossed; Drape – crisp and transparent, burnt out, sizing, weighting; Texture sheared, brushed, embossed, plisse,pleated,flocked,embroidered,napped,fulled.  |   |                |
| Unit III            | Functional finishes: Functional finishes- wrinkle free finish, water repellent finishes, flame retardants, Anti-microbial finishes, Antistatic finishes, Soil Release finishes.   |   |                |
| Unit IV             | Special purpose finishes: Special purpose finishes- silicone finishes, Denim finishes- Fragrance finishes- UV production finishes, Phase change finishes.   |   |                |
| Unit V              | Environment protection: Environment protection –Importance –Environmental impacts of textile industries - Effluent treatment of water- Importance of eco-friendly processing-Application of enzyme in textile wet processing industry.  |   |                |
| Reference books     | <ol style="list-style-type: none"> <li>Shenai, Technology of Textile Processing, 1996, Vol 3, 4, 6, 10. V.A, Sevak Publications, Mumbai.</li> <li>W. Clarke, An Introduction to Textile Printing, 2004, Woodhead Publishing Limited, Cambridge England.</li> <li>Dr NalankalliG.S.Jeyapragasham, Textile finishing , 1997, First Edition, SSM Institute of Textile Technology.</li> <li>Water analyst, Principal Public Health Laboratory, 1995, SakthiPublications.</li> </ol> |   |                |

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|  | <ol style="list-style-type: none"> <li>5. N.Manivasakam,Industrialeffluentsorigin,CharacteristicsEffectsAnalysis&amp;Treatment, 1987, Sakthi Publications.</li> <li>6. KanwarVarinderPal Singh, Elementary Idea of Textile Dyeing,Printing and Finishing, 2004, KalyaniPublishers,Ludhiana, New Delhi, Noida.</li> <li>7. M.L. Gulrajini&amp;Deeptigupta, Natural dyes &amp; their application to textiles, 1990, ,New Delhi Publications.</li> <li>8. P. Vinayagamurthi ,S .Kavitha, D.Gopalakrishnan, Textiles finishing –Basic concepts and application, 2018, Astral Publications International Pvt.Ltd, New Delhi .</li> <li>9. Shenai V A,1993, Principles and practice of dyeing, Sevak Publication.</li> <li>10. JT Marsh,, An introduction to Textile finishing, 1979, B I Publisher,.</li> </ol> |
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**Mapping of COs with POs &PSOs:**

| CO  | PO |   |   |   |   |   |   | PSO |   |   |   |   |
|-----|----|---|---|---|---|---|---|-----|---|---|---|---|
|     | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |
| CO1 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO2 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO3 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO4 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO5 | S  | S | S | S | S | S | S | S   | S | S | M | S |

|                        |     |   |         |
|------------------------|-----|---|---------|
| Strongly Correlating   | (S) | - | 3 Marks |
| Moderately Correlating | (M) | - | 2 marks |
| Weakly Correlating     | (W) | - | 1 Mark  |
| No Correlation         | (N) | - | 0 mark  |

|                        |  |   |                |
|------------------------|--|---|----------------|
| Course Title & Code    | <b>CORE 2 (Theory) – HOME TEXTILESPTCT22</b>   |   |                |
| Semester               | Semester-II  | Credits:5   | Hours/weeks: 5 |
| Cognitive Level        | K1: Recall<br>K2: Understand<br>K3: Apply<br>K4: Analyse<br>K6: Create   |   |                |
| Learning Objective     | <ul style="list-style-type: none"> <li>To study about different materials used for home furnishing</li> <li>To understand the uses of home furnishing</li> <li>To know about the care and maintenance of home furnishings</li> <li>To understand about the products used for furnishing home</li> </ul>  |   |                |
| <b>Course Outcome</b>  | Upon completion of this course, the students will be   |   |                |
|                        | CO1:   | Selection of home furnishing materials <b>K4</b>  |                |
|                        | CO2:   | Application of different floor coverings <b>K3</b>  |                |
|                        | CO3:   | Usage and care of wall coverings and draperies <b>K2</b>  |                |
|                        | CO4:   | Different types of bed and kitchen lines and their significance and handling procedures <b>K1</b> |                |
|                        | CO5:   | Selection, care and maintenance of Table linens <b>K6</b>   |                |
| <b>Unit I</b>          | Introduction to home furnishing: Definition, Different types of furnishing materials - factors affecting selection of home furnishing  |   |                |
| <b>Unit II</b>         | Floor coverings: Floor coverings – Hard floor coverings, Resilient floor coverings, soft floor coverings – rugs and carpets - use and care   |   |                |
| <b>Unit III</b>        | Wall coverings: Wall coverings, use and care - different types of doors and windows, their application - Draperies – choice of fabrics - Use of drapery rods, hooks, tapes rings and pins.   |   |                |
| <b>Unit IV</b>         | Bed and Kitchen linen: Definitions, different types of bed lines, sheets, blankets and blanket covers, comforts and comfort cover, pillows and pillow cover, cushion and cushion cover, upholsters, Bolster and Bolster covers - Their use and care. Definitions, types of kitchen lines, dish cloths, hand towels, fridge cover, mixer cover, grinder cover – their use and care. |   |                |
| <b>Unit V</b>          | <b>Table Linen:</b> Definition, different types of table lines, table mats, table cloth, hand towels – types, selection use and care.  |   |                |
| <b>Reference books</b> | 11. Alexander , N.G Designing interior environment, 1972, MAs Court Braze Convanorich, Inc, New York.<br>12. Orang, H.T and Rush, O.D Homes with Cherater, D.C. Health and Company Boston, 1966.<br>13. Hale – A.D., The use of Colour in interior., 1968, McGraw Hill Book Company, New York,.  |   |                |



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|                 | 14. Donsorkay, K.S. Interior Decoration in India, 1973, D.B. Taraporevals Sons & Co. Pvt.LTd.,  |
| <b>Journals</b> | <ol style="list-style-type: none"> <li>1. The Indian Textile Journals K.S. Spar for business Pvt., Ltd., Sury Mahi,5, Burforji, Bharuchamarg, Bombay</li> <li>2. Colour Age, R.V. Raghaven, Colour Publications Pvt., Ltd., 26, Dhurwad, Bombay</li> <li>3. Creative Needle Cradi, Ferbes Publications Ltd., Hatree House, Sueens Way, London.</li> </ol> |

**Mapping of COs with POs &PSOs:**

| CO         | PO       |          |          |          |          |          |          | PSO      |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|            | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 1        | 2        | 3        | 4        | 5        |
| <b>CO1</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO2</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO3</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> |
| <b>CO4</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> |
| <b>CO5</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> |

|                        |     |   |         |
|------------------------|-----|---|---------|
| Strongly Correlating   | (S) | - | 3 Marks |
| Moderately Correlating | (M) | - | 2 marks |
| Weakly Correlating     | (W) | - | 1 Mark  |
| No Correlation         | (N) | - | 0 mark  |

|                     |  |   |                |
|---------------------|--|---|----------------|
| Course Title & Code | <b>CORE 3 (Theory) – PERSONALITY DEVELOPMENT- PTCT23</b>   |   |                |
| Semester            | Semester-II  | Credits:5   | Hours/weeks: 5 |
| Cognitive Level     | K1: Recall<br>K2: Understand<br>K3: Apply<br>K5: Evaluate<br>K6: Create  |   |                |
| Learning Objective  | <ul style="list-style-type: none"> <li>To study about evaluating personal appearance</li> <li>To learn the process of skin treatment and make-up technique</li> <li>To learn about selecting wardrobe and developing one's communication</li> <li>To understand about developing one's personality traits</li> </ul>   |   |                |
| Course Outcome      | Upon completion of this course, the students will be   |   |                |
|                     | CO1:   | Evaluate their own personal appearance <b>K5</b>                                      |                |
|                     | CO2:   | Gain knowledge on skin and facial care <b>K2</b>                                      |                |
|                     | CO3:   | Acquire ideas on various make – up techniques along with safety precautions <b>K6</b> |                |
|                     | CO4:   | Attain knowledge about wardrobe selection and planning techniques <b>K3</b>           |                |
|                     | CO5:   | Develop efficacy in communication <b>K1</b>   |                |
| Unit I              | Personal Appearance: Self-evaluation – meaning, importance - personal appearance posture - body language - face to face communication – positive and negative approach - self introduction.  |   |                |
| Unit II             | Skin treatment and Care: Care of skin - cleansing, nourishing, vaporizing and toning technique. Facials- Facial Massage-Electro therapy & Light therapy - Facial Treatments-Aromatherapy   |   |                |
| Unit III            | Make-up technique:Make-up technique - Facial Makeup- Cosmetics for Makeup- Makeup color theory- Client Consultation- Corrective Makeup-Artificial Eyelashes -special make-up -Safety Precautions technique   |   |                |
| Unit IV             | Selection of Wardrobe: Wardrobe selection – Meaning, planning a wardrobe, Selection of colour and pattern of clothes to suit different personality –factors affecting wardrobe collection - Choice of costumes.  |   |                |
| Unit V              | Communication Skills: Developing communication skills – Communication – Introduction, importance, Process of communication, barriers of communication. Oral communication -Vocal noise - Voice training –activating tongue, relaxing facial muscles, breathing properly.   |   |                |
| Reference books     | <ol style="list-style-type: none"> <li>1. Krishna Mohan and MeeraBanerji, Developing communication skill, 2016, 2<sup>nd</sup> edition, Trinity press, Lakshmi publication, Chennai.</li> <li>2. BarunMitra, Personality Development and Soft Skills, 2012, Oxford University Press,</li> <li>4. Janet Simms, A Practical Guide to Beauty Therphy, 2001, Neison Thomas Ltd, UK.</li> <li>4. Daniel K.Mroczek, Hand book of personality, 2014, Psychology press, New</li> </ol> |   |                |

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**Mapping of COs with POs &PSOs:**

| CO  | PO |   |   |   |   |   |   | PSO |   |   |   |   |
|-----|----|---|---|---|---|---|---|-----|---|---|---|---|
|     | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |
| CO1 | S  | S | S | S | M | S | S | S   | S | M | M | M |
| CO2 | S  | S | S | M | M | S | M | S   | S | S | M | S |
| CO3 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO4 | S  | S | S | S | S | S | S | S   | S | S | S | S |
| CO5 | S  | S | S | M | S | S | S | S   | S | S | S | S |

|                        |     |   |         |
|------------------------|-----|---|---------|
| Strongly Correlating   | (S) | - | 3 Marks |
| Moderately Correlating | (M) | - | 2 marks |
| Weakly Correlating     | (W) | - | 1 Mark  |
| No Correlation         | (N) | - | 0 mark  |



|                        |     |   |         |
|------------------------|-----|---|---------|
| Strongly Correlating   | (S) | - | 3 Marks |
| Moderately Correlating | (M) | - | 2 marks |
| Weakly Correlating     | (W) | - | 1 Mark  |
| No Correlation         | (N) | - | 0 mark  |

|                     |   |  |                |
|---------------------|---|--|----------------|
| Course Title & Code | <b>Elective 2 (Theory) – CLOTHING PSYCHOLOGY – PTCE22</b>   |  |                |
| Semester            | Semester-II   | Credits:5  | Hours/weeks: 5 |
| Cognitive Level     | K1: Recall<br>K2: Understand<br>K3: Apply<br>K5: Evaluate<br>K6: Create   |  |                |
| Learning Objective  | <ul style="list-style-type: none"> <li>To understand design concept and types</li> <li>To study about the design and colour psychology</li> <li>To understand about body proportions, fit and appearance</li> <li>To learn about general psychology for clothing</li> </ul> |  |                |
| Course Outcome      | Upon completion of this course, the students will be  |  |                |
|                     | CO1:  | Development of garment design using inspirational themes <b>K6</b> |                |
|                     | CO2:  | Elements and principles of design <b>K2</b>                        |                |
|                     | CO3:  | Creating garment design using design psychology. <b>K6</b>         |                |
|                     | CO4:  | Selection of clothes based on body proportion <b>K3</b>            |                |
|                     | CO5:  | Assessment of body appearance and fabric textures <b>K5</b>        |                |
| Unit I              | Introduction to Design: Study of Design - Design concept – Design sources - Types of Design – Factors that influence clothing design – Selection of theme from inspiration – Development of garment design using theme.   |  |                |
| Unit II             | Design Psychology: Design Psychology – Elements of design-Line, Shape, Color, Form and Texture. Principles of Design-Balance, Harmony, Emphasis, Proportion and Harmony –Creating garment design using design psychology.   |  |                |
| Unit III            | Color Psychology: Color Psychology –Introduction to color – Color theory - Colour Harmonies – Color psychology for different colours - Selection of clothing using colour psychology.   |  |                |
| Unit IV             | Body Proportion: Body proportion – Study of human body proportion – Influence of different body proportion in clothing selection.   |  |                |
| Unit V              | Body Appearance: Body appearance and fit-Study of body appearance by 3D body Scanning, Assessment of different fabric textures - garment drapability –garment fitting.  |  |                |

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|-------------------|--|
| <b>References</b> | <ol style="list-style-type: none"> <li>1. Suzanne G. Marshall, Hazel O. Jackson M. Sue Stanley, Mary Kefgen, Individuality in clothing Selection and Personal Appearance, 2000, PhullisTouchieSpecnt, New Jersey.</li> <li>2. Kitty G. Dickerson, Inside the Fashion Business, 2003, Pearson Education, Singapore,.</li> <li>3. Kathryn Mokelvey, Janine Munslow, Fashion Design Process, Innovation and Practice, 2005, Black Well Science Ltd, U.K,.</li> <li>4. Jenny Davis, A Complete Guide to Fashion Designing, 2006, First Edition, Abhishek Publication.</li> </ol> |
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**Mapping of COs with POs &PSOs:**

| CO         | PO       |          |          |          |          |          |          | PSO      |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|            | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 1        | 2        | 3        | 4        | 5        |          |
| <b>CO1</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO2</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO3</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO4</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO5</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |

Strongly Correlating (S) - 3 marks  
Moderately Correlating (M) - 2 marks  
Weakly Correlating (W) - 1 mark  
No Correlation (N) - 0 mark

|                     |  |  |                |
|---------------------|--|--|----------------|
| Course Title & Code | <b>Core 1 (Theory) – APPLICATION OF COMPUTER IN FABRIC AND FASHION DESIGN –PTCT31</b>  |  |                |
| Semester            | Semester-III   | Credits:5  | Hours/weeks: 5 |
| Cognitive Level     | K2: Understand<br>K3: Apply<br>K4: Analyse<br>K6: Create   |  |                |
| Learning Objective  | <ul style="list-style-type: none"> <li>• To understand the basic concepts of computer</li> <li>• To study about Computer applications in Fabric Design</li> <li>• To study about the application of Computer s in Fashion Design</li> <li>• To learn about computer aided designing and manufacturing</li> </ul> |  |                |
| Course Outcome      | Upon completion of this course, the students will be   |  |                |
|                     | CO1:   | Computer basics <b>K2</b>  |                |
|                     | CO2:   | Computer aided Pattern grading and marker planning <b>K3</b>             |                |
|                     | CO3:   | Computer aided color matching <b>K4</b>                                  |                |
|                     | CO4:   | Draping on Mannequins to check the fitting and texture mapping <b>K5</b> |                |
|                     | CO5:   | CAD in fabric and garment design <b>K6</b>                               |                |
| <b>Unit I</b>       | Computer Basics: Computer Basics- computer specifications- input / output devices - concept of CIM, Computer Aided Fashion- Computer Aided Garment Manufacture, Development of designs using Corel Draw.   |  |                |
| <b>Unit II</b>      | Computer Pattern making: Introduction to Computer Pattern making – Computer Pattern grading and computer marker planning – process.<br>Draping on Mannequins to check the fitting and texture mapping, Software's used for textile and fashion design.   |  |                |
| <b>Unit III</b>     | Computer Application in Sewing: Computer application in sewing and embroidery- Computer aided color matching -Computer controlled overhead transport and ware house storage systems.   |  |                |
| <b>Unit IV</b>      | CAD in Fabric and Garment Design: The impact of color graphics of clothing design - CAD in fabric design - CAD in Clothing design.   |  |                |
| <b>Unit V</b>       | Computer Application in Textile Production: Computer Applications in Fabric Design, weave design and Dobby design.   |  |                |

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|-------------------|---|
| <b>References</b> | <ol style="list-style-type: none"> <li>1. Groover M P, Zimmers E W, Computer Aided Design and Manufacturing, Prenticehall International.</li> <li>2. HanneloreEberleet –al, Verlaag Europa – Lehrmittel, Clothing Technology, Vollmer Gmbh&amp; Co 4287, Haan – Gruilen.</li> <li>3. P K Sinha , Computer Fundamentals, 1992, BPB Publications, Delhi.</li> <li>4. Harold Carr and Barbara Latham, The technology of clothing manufacture, 1994, Blackwell Ltd.</li> <li>5. Gerry Cooklin,,Pattern Grading for Women’s Cloths The Technology of sizing, 1990–Blackwell Science Ltd .</li> </ol> |
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**Mapping of COs with POs &PSOs:**

| CO         | PO       |          |          |          |          |          |          | PSO      |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|            | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 1        | 2        | 3        | 4        | 5        |          |
| <b>CO1</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO2</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO3</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO4</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO5</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |

Strongly Correlating (S) - 3 marks  
Moderately Correlating (M) - 2 marks  
Weakly Correlating (W) - 1 mark  
No Correlation (N) - 0 mark



|                       |  |  |                |
|-----------------------|--|--|----------------|
| Course Title & Code   | <b>Core 2 (Theory) – TECHNICAL TEXTILES – PTCT32</b>   |  |                |
| Semester              | Semester-III   | Credits:5  | Hours/weeks: 5 |
| Cognitive Level       | K1: Recall<br>K2: Understand<br>K3: Apply<br>K4: Analyse<br>K6: Create   |  |                |
| Learning Objective    | <ul style="list-style-type: none"> <li>• To know about classification of technical textiles</li> <li>• To study about the application of technical textiles</li> <li>• To learn about the properties of technical textiles</li> <li>• To study the concept and uses of technical textiles</li> </ul> |  |                |
| <b>Course Outcome</b> | Upon completion of this course, the students will be   |  |                |
|                       | <b>CO1:</b>  | Classification of technical textiles <b>K1</b>                                   |                |
|                       | <b>CO2:</b>  | Importance of Filtration and geo textiles <b>K2</b>                              |                |
|                       | <b>CO3:</b>  | Application of Medical and protective textiles <b>K3</b>                         |                |
|                       | <b>CO4:</b>  | Analyse different types of products for Sports and recreation textiles <b>K4</b> |                |
|                       | <b>CO5:</b>  | Design requirement for automotive textiles <b>K6</b>                             |                |
| <b>Unit I</b>         | Introduction to Technical Textiles: Introduction: Definition and scope for technical textiles, Classification of technical textiles, brief idea about technical fibres, yarn and fabric, composite material.   |  |                |
| <b>Unit II</b>        | Filtration and Geo-textiles: Filtration textiles: Definition, importance of filtration textiles, Application of Filtration textiles.<br><br>Geotextiles: Brief idea about geo-synthetics and their uses, essential properties of geotextiles, application examples of geotextiles.                   |  |                |
| <b>Unit III</b>       | Medical and Protective Textiles: Medical textiles: Classification of medical textiles, description of different medical textiles.<br><br>Protective Clothing: Brief idea about different type of protective clothing, functional requirement of textiles in defence.                                 |  |                |

|                   |   |
|-------------------|---|
| <b>Unit IV</b>    | Sports and Recreation Textiles: Sports and recreation textiles: Functional requirement of different type of product and their construction.   |
| <b>Unit V</b>     | Automotive and Agricultural Textiles: Automotive Textiles: Application of textiles in automobiles, requirement and design for different tyres, airbags and belts.<br>Agricultural textiles – Applications of agricultural textiles  |
| <b>References</b> | 1. Ed. A R Horrocks and S C Anand, Handbook of Technical Textiles, 2000, Woodhead Publication Ltd., Cambridge.<br>2.S. GraceAnnapoorani, Technical Textiles and Its Applications, 2017, Laser Park Publishing House, Coimbatore.<br>3. Ed. SabitAdanaur, Wellington Sears Handbook of Industrial Textiles, 1995, Technimic Publishing Company, Inc., Pennsylvania, USA.<br>4.Ed. G V Rao and G V S Raju, “Engineering with Geosynthetics”, 1990.Tata McGraw Hill Publishing Co. Ltd., New Delhi.<br>4. J Svedova, “Industrial Textile”, Ed., 1990, Elsevier, New York,. |

#### Mapping of COs with POs &PSOs:

| CO         | PO |   |   |   |   |   |   | PSO |   |   |   |   |
|------------|----|---|---|---|---|---|---|-----|---|---|---|---|
|            | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |
| <b>CO1</b> | S  | S | S | S | S | S | S | S   | S | S | M | S |
| <b>CO2</b> | S  | S | S | S | S | S | S | S   | S | S | M | S |
| <b>CO3</b> | S  | S | S | S | S | S | S | S   | S | S | S | S |
| <b>CO4</b> | S  | S | S | S | S | S | S | S   | S | S | S | S |
| <b>CO5</b> | S  | S | S | S | S | S | S | S   | S | S | S | S |

Strongly Correlating (S) - 3 marks  
Moderately Correlating (M) - 2 marks  
Weakly Correlating (W) - 1 mark  
No Correlation (N) - 0 mark

|                       |   |   |                |
|-----------------------|---|---|----------------|
| Course Title & Code   | <b>CORE3 (Theory) – BUSINESS COMMUNICATION – PTCT33</b>   |   |                |
| Semester              | Semester-III  | Credits:5   | Hours/weeks: 5 |
| Cognitive Level       | K2: Understand<br>K3: Apply<br>K6: Create   |   |                |
| Learning Objective    | <ul style="list-style-type: none"> <li>• To study about communication process</li> <li>• To understand about the importance of listening</li> <li>• To learn about the business correspondence and presentation skills</li> <li>• To study the business communication techniques</li> </ul> |   |                |
| <b>Course Outcome</b> | Upon completion of this course, the students will be  |   |                |
|                       | <b>CO1:</b>   | Business communication and its process <b>K2</b>          |                |
|                       | <b>CO2:</b>   | Significance of active and poor listening <b>K2</b>       |                |
|                       | <b>CO3:</b>   | Presentation skills <b>K6</b>                             |                |
|                       | <b>CO4:</b>   | Business correspondence <b>K2</b>                         |                |
|                       | <b>CO5:</b>   | Letter correspondence in business communication <b>K3</b> |                |
| <b>Unit I</b>         | Communication: Communication- meaning and definition, role of communication in business, main forms of communication business, communication process. Inference model – modes of non- verbal communication – communicating across cultures  |   |                |
| <b>Unit II</b>        | Listening: Active listening- introduction, anatomy of poor listening, factors contributing to poor listening, good listening, telephoning, mobile phones, teleconferencing  |   |                |
| <b>Unit III</b>       | Presentation skills: Presentation skills- introduction- features of a good presentation, handling questions, meeting.   |   |                |
| <b>Unit IV</b>        | Business Correspondence: Business letters- introduction, format and layout, E-mail, report writing, writes skills.  |   |                |
| <b>Unit V</b>         | Letter Correspondence: Requirement correspondence- definition, application letter, contact of resume and CV, interview letter, offer of employment, letter of acceptance, resignation letter, letter of recommendation.   |   |                |

|                   |   |
|-------------------|---|
| <b>References</b> | <ol style="list-style-type: none"> <li>1. Krishna Mohan and MeeraBanerji, Developing communication skill, 2016, 2<sup>nd</sup> edition, Trinity press, Lakshmi publication, Chennai,.</li> <li>2. Mary Ellen guffey, Essentials of communication, sixth educaton, south – western collage publication Association for business communication.</li> <li>3. Baugh, frayer&amp;tomas, how to write first calss business correspondence</li> <li>4. R.C. Bhatia, Business communication, 2009, Ane books Pvt.Ltd., New Delhi.</li> <li>5. PoojaKhanna, Business Communications,2015,Vikas Publishing House Pvt.Ltd.,Noida.</li> </ol> |
|-------------------|---|

### Mapping of COs with POs &PSOs:

| CO/<br>PO  | PO       |          |          |          |          |          |          | PSO      |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|            | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 1        | 2        | 3        | 4        | 5        |
| <b>CO1</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>M</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO2</b> | <b>M</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> | <b>M</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO3</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO4</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO5</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |

Strongly Correlating (S) - 3 marks  
 Moderately Correlating (M) - 2 marks  
 Weakly Correlating (W) - 1 mark  
 No Correlation (N) - 0 mark

|                     |   |   |                |
|---------------------|---|---|----------------|
| Course Title & Code | <b>CORE 3 (Practical) – DESIGN AND CONSTRUCTION OF WOMEN’S OUTFIT PRACTICAL –III – PTCP33</b>   |   |                |
| Semester            | Semester-III  | Credits:5   | Hours/weeks: 5 |
| Cognitive Level     | K2: Understand<br>K3: Apply<br>K4: Analyse<br>K5: Evaluate<br>K6: Create  |   |                |
| Learning Objective  | <ul style="list-style-type: none"> <li>• To study about the development of Drafting procedure in garment design</li> <li>• To develop the knowledge of collection of materials</li> <li>• To learn the skillful construction of garment and its enrichment</li> <li>• To learn the cost calculation for finished garment</li> </ul>   |   |                |
| Course Outcome      | Upon completion of this course, the students will be  |   |                |
|                     | CO1:  | Drafting procedure for garment development <b>K2</b>          |                |
|                     | CO2:  | Collection of materials suitable for garment design <b>K4</b> |                |
|                     | CO3:  | Fabric cutting and construction <b>K3</b>                     |                |
|                     | CO4:  | Garment enrichment <b>K6</b>                                  |                |
|                     | CO5:  | Cost calculation of finished garment <b>K5</b>                |                |
|                     | <p>Select any two of the following garments and Develop garments designs by incorporating colour, fabric and garment design on a flat sketch. Add ornamentation to garment and present.</p> <p>a. Develop Drafting procedure for the developed garment design</p> <p>b. Collect swatches for colour and fabric suitable to garment design</p> <p>c. Cut the original fabric and construct the garment</p> <p>d. Enrich the garment by embellishments.</p> <ol style="list-style-type: none"> <li>1. Salwar and Kameez</li> <li>2. Saree and Saree Blouse</li> <li>3. Ladies top and Skirt</li> <li>4. Lehengacholi</li> <li>5. Kurti and pant</li> </ol> <p>e. Calculate the cost of the garment.</p> |   |                |

**Mapping of COs with POs &PSOs:**

| CO/<br>PO | PO |   |   |   |   |   |   | PSO |   |   |   |   |   |
|-----------|----|---|---|---|---|---|---|-----|---|---|---|---|---|
|           | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |   |
| CO        | S  | S | S | S | S | S | S | S   | S | S | S | S | S |
| CO2       | S  | S | S | S | S | S | S | S   | S | S | M | S | S |
| CO3       | S  | S | S | S | S | S | S | S   | S | S | S | S | S |
| CO4       | S  | S | S | S | S | S | S | S   | S | S | S | S | S |
| CO5       | S  | S | S | S | S | S | M | S   | S | S | M | S | S |

Strongly Correlating (S) - 3 marks  
 Moderately Correlating (M) - 2 marks  
 Weakly Correlating (W) - 1 mark  
 No Correlation (N) - 0 mark

|                     |   |   |                |
|---------------------|---|---|----------------|
| Course Title & Code | <b>ELECTIVE3 (Theory) – ADVANCED PATTERN MAKING TECHNIQUES – PTCE33</b>   |   |                |
| Semester            | Semester-III  | Credits:5   | Hours/weeks: 5 |
| Cognitive Level     | K1: Recall<br>K2: Understand<br>K3: Apply<br>K5: Evaluate<br>K6: Create   |   |                |
| Learning Objective  | <ul style="list-style-type: none"> <li>• To study about flat pattern techniques</li> <li>• To understand about pattern alternation and</li> <li>• To learn about fitting techniques</li> </ul>  |   |                |
| Course Outcome      | Upon completion of this course, the students will be  |   |                |
|                     | CO1:  | Principles of pattern making <b>K1</b>                    |                |
|                     | CO2:  | Flat pattern techniques <b>K3</b>                         |                |
|                     | CO3:  | Creating Styles in Pattern Making <b>K6</b>               |                |
|                     | CO4:  | Principles and importance of pattern alteration <b>K2</b> |                |
|                     | CO5:  | Garment fitting techniques <b>K5</b>                      |                |
| Unit I              | Flat Pattern Terminology: Flat pattern technique –Terminology - Basic pattern set, Working Pattern, Bust point, apex, dart, dart point, dart leg, dart intake, trueing, blending.<br><br>Pattern making principles - Dart manipulation, Added fullness and Principle of Contouring                                      |   |                |
| Unit II             | Flat Pattern Technique: Basic techniques used in flat pattern designing - Slash and spread method- Pivot method   |   |                |
| Unit III            | Creating Styles in Pattern Making: Creating Styles in Pattern Making Using Slash and Spread Method - Styles created by shifting of darts, adding fullness at the top and bottom edges of the bodice, Converting darts to seams, Incorporating darts into seams forming the yoke and Converting darts to a partial yoke. |   |                |

|                   |  |
|-------------------|--|
| <b>Unit IV</b>    | Pattern Alteration: Pattern alteration - Importance of pattern alteration -General principles for pattern alteration - Common pattern alteration in a blouse   |
| <b>Unit V</b>     | Garment fit: Garment fit - Standards of a good fit - Steps in preparing a blouse for fitting - Checking the fit of a blouse - Fitting techniques - Specific fitting problems in a blouse and their remedies.   |
| <b>References</b> | <p>1. Mary Mathews, Practical Clothing Construction Part-II. Designing, Drafting and tailoring, 1991 Bhattarams Reprographics (P) Ltd., Chennai.</p> <p>2. Zarapkar K.R., System of Cutting, 2005, Navneet Publications India</p> <p>3. Suzanne G. Marshall, Hazel O. Jackson M. Sue Stanley, Mary Kefgen, Individuality in clothing Selection and Personal Appearance, 2000, Phyllis Touchie Specnt, New Jersey.</p> <p>4. Jeanette A. Jarnow, Miriarn Guerrerio, "Inside the Fashion Business", Mecmillion Publishing Company, New York</p> <p>5. Harriet T, McJimsey, "Art and fashion in clothing selection", The Iowa State University Press, Ames, Iowa.</p> <p>6. Hilary Campbell, "Designing Patterns, 2003, Om Book Services, New Delhi,</p> <p>7. Helen Joseph-Pattern Making for Fashion Design, 2000, Armstrong Pearson Education, Delhi.</p> <p>8. Kitty G. Dickerson, Inside the Fashion Business, 2002, Sixth Edition, Pearson Publications</p> |

#### Mapping of COs with POs & PSOs:

| CO  | PO |   |   |   |   |   |   | PSO |   |   |   |   |
|-----|----|---|---|---|---|---|---|-----|---|---|---|---|
|     | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 1   | 2 | 3 | 4 | 5 |
| CO1 | S  | S | S | S | S | S | M | S   | S | S | M | S |
| CO2 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO3 | S  | S | S | S | S | S | S | S   | S | S | S | S |
| CO4 | S  | S | S | S | S | S | S | S   | S | S | M | S |
| CO5 | S  | S | S | S | S | S | S | S   | S | S | M | S |

Strongly Correlating (S) - 3 marks  
Moderately Correlating (M) - 2 marks  
Weakly Correlating (W) - 1 mark  
No Correlation (N) - 0 mark



|                       |  |   |                |
|-----------------------|--|---|----------------|
| Course Title & Code   | <b>CORE 1 (Theory) – VISUAL MERCHANDISING – PTCT41</b>   |   |                |
| Semester              | Semester-IV  | Credits:5   | Hours/weeks: 5 |
| Cognitive Level       | K1: Recall<br>K2: Understand<br>K3: Apply<br>K4: Analyse<br>K6: Create   |   |                |
| Learning Objective    | <ul style="list-style-type: none"> <li>• To study the elements of visual merchandising</li> <li>• To study understand the techniques of visual merchandising</li> <li>• To learn about the planning and presentation of merchandise</li> <li>• To understand the concepts applied in visual merchandising</li> </ul> |   |                |
| <b>Course Outcome</b> | Upon completion of this course, the students will be   |   |                |
|                       | <b>CO1:</b>  | Elements of visual merchandising <b>K1</b>                  |                |
|                       | <b>CO2:</b>  | Types of Mannequins and fixtures for presentation <b>K4</b> |                |
|                       | <b>CO3:</b>  | Attention devices for better ambiance <b>K2</b>             |                |
|                       | <b>CO4:</b>  | Planning of store and merchandise presentation <b>K3</b>    |                |
|                       | <b>CO5:</b>  | Industrial display and fashion shows <b>K6</b>              |                |
| <b>Unit I</b>         | Visual Merchandising: Elements of Visual Merchandising - Store front, Store layout- types of store layout, Store interior- Interior display, Store exterior display  |   |                |
| <b>Unit II</b>        | Mannequins and Fixtures: Mannequins – Introduction, types, Alternatives to the mannequins, Proper Maintenance of Mannequins. Fixtures – Importance, Types of fixtures and Merchandise presentation techniques  |   |                |
| <b>Unit III</b>       | Attention Devices: Attention getting Devices -Use of Lighting, Props, Familiar symbols, Fashion accessories, Graphics and Signage.   |   |                |
| <b>Unit IV</b>        | Store planning and Merchandise presentation: Space Management, Factors affecting operational efficiency, store planning-Allocating Space, Circulation, Shrinkage Prevention. Merchandise presentation planning- Shelving, Hanging, Pegging, Folding, Stacking, Dumping, Selecting Fixtures and Merchandise.          |   |                |
| <b>Unit V</b>         | Careers: Industrial Display, Fashion shows, Trade Organizations - Errors Commonly Occurring in Display - Career opportunities in Visual Merchandising.   |   |                |

|                   |  |
|-------------------|--|
| <b>References</b> | <ol style="list-style-type: none"> <li>1. Visual Merchandising and Display – Martin M Peglar 2002, S. V. M, Fairchild Publication, Inc, New York.</li> <li>2. Grace I kunz, Merchandising: Theory, Principles and Practices, 2005, IOWA state University, Fairchild Publication, Inc, New york</li> <li>3. John Donnellan, University of Massachusetts-Amherst,, Merchandising buying and management, 1999, FairChild Publications, New York.</li> </ol> |
|-------------------|--|

**Mapping of COs with POs &PSOs:**

| CO         | PO       |          |          |          |          |          |          | PSO      |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|            | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 1        | 2        | 3        | 4        | 5        |          |
| <b>CO1</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO2</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> | <b>S</b> |
| <b>CO3</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO4</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO5</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> | <b>S</b> |

Strongly Correlating (S) - 3 marks  
Moderately Correlating (M) - 2 marks  
Weakly Correlating (W) - 1 mark  
No Correlation (N) - 0 mark

|                     |   |  |                |
|---------------------|---|--|----------------|
| Course Title & Code | <b>CORE 2 (Theory) – ENTREPRENEURSHIP DEVELOPMENT – PTCT42</b>  |  |                |
| Semester            | Semester-IV   | Credits:5  | Hours/weeks: 5 |
| Cognitive Level     | K2: Understand<br>K3: Apply<br>K4: Analyse  |  |                |
| Learning Objective  | <ul style="list-style-type: none"> <li>• To study about the importance of entrepreneurship</li> <li>• To understand the role of entrepreneurship</li> <li>• To understand about the Production and operation management</li> <li>• To understand about developing entrepreneurs for textile industry</li> </ul>   |  |                |
| Course Outcome      | Upon completion of this course, the students will be  |  |                |
|                     | CO1:  | Features and importance of entrepreneurship <b>K2</b>            |                |
|                     | CO2:  | Types and role of entrepreneurs for sustainable growth <b>K2</b> |                |
|                     | CO3:  | Theories of entrepreneurial motivation <b>K3</b>                 |                |
|                     | CO4:  | Inventory and personnel management <b>K4</b>                     |                |
|                     | CO5:  | Project identification and formulation <b>K4</b>                 |                |
| <b>Unit I</b>       | Entrepreneurship: Entrepreneurship- Meaning, Importance, Evolution of term Entrepreneurship, features, Factors influencing entrepreneurship - Psychological factors, Social factors, Economic factor, environmental factors - Characteristics of an entrepreneur.   |  |                |
| <b>Unit II</b>      | Types and Role of entrepreneur: Types of entrepreneur- innovating, adoptive, Fabian, drone, individual and institutional, technologist, forced. Growth of entrepreneurship, role of entrepreneurship in economic development, women entrepreneurs, problems of women entrepreneurs, rural entrepreneurship, problems of rural entrepreneurship, factors affecting entrepreneurial growth. |  |                |
| <b>Unit III</b>     | Entrepreneurial motivation: Entrepreneurial motivation – motivation theories – Maslow’s need hierarchy Theory, McChelland’s acquired needs Theory, Herjburg’s theory, McGragor’s Theory. Need for Entrepreneurship development programs - sickness in small business.   |  |                |
| <b>Unit IV</b>      | Production and operation management: Production operation management – plant location – introduction, factors affecting plant location, importance of plant layout,   |  |                |

|                   |  |
|-------------------|--|
|                   | need for product design - process of production design – scheduling, product inspection. Inventory management – introduction, objectives, personnel management – meaning, manpower planning, jobs requirements, recruitments, training and development, remuneration and benefits – important of total quality management.   |
| <b>Unit V</b>     | Project identification: Project identification – introduction, internal constraints and external constraints - project lifecycle - element of project formulation, project appraisal methods- payback period, return on investment, discount cash flow, internal rate of return, net present value, profitability index.   |
| <b>References</b> | 1.Hisrich R D, Perter MP, “Entrepreneurship”, 2013, 8 <sup>th</sup> Education, TATA MCGRAW- Hill,<br>2.Mathew j Manimala, “Enterprenurship theory at cross roads: paradigms and Raxis” 2005, 2 <sup>nd</sup> education dream teach.<br>3.Michael h. Morris, et. Al., entrepreneurship and innovation, 2011, CE gage learning New Delhi,<br>4.S.S Kanka Entrepreneurial Development, 2012, Revised edition, Sultan Chand Publications, New Delhi. |

#### Mapping of COs with POs &PSOs:

| CO         | PO       |          |          |          |          |          |          | PSO      |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|            | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 1        | 2        | 3        | 4        | 5        |
| <b>CO1</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> |
| <b>CO2</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> |
| <b>CO3</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> |
| <b>CO4</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> |
| <b>CO5</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>M</b> | <b>S</b> |

Strongly Correlating (S) - 3 marks  
Moderately Correlating (M) - 2 marks  
Weakly Correlating (W) - 1 mark  
No Correlation (N) - 0 mark

