Vocational Curriculum – 2012

(With effect from the academic year 2012-2013)

Curriculum of Intermediate Vocational Course
In
COMMERCIAL GARMENT TECHNOLOGY

State Institute of Vocational Education
O/o the Commissioner of Intermediate Education,
Andhra Pradesh, Hyderabad

&

Board of Intermediate Education,
Andhra Pradesh, Hyderabad
## Contents

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INTRODUCTION</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>OBJECTIVES OF THE COURSES</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>SKILLS TO BE PROVIDED</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>JOB OPPORTUNITIES</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>(A) WAGE EMPLOYMENT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(B) SELF EMPLOYMENT</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>SCHEME OF INSTRUCTION AND EXAMINATION</td>
<td>5 &amp;6</td>
</tr>
<tr>
<td>6</td>
<td>SYLLABUS</td>
<td>7 - 18</td>
</tr>
<tr>
<td>7</td>
<td>MODEL QUESTION PAPERS</td>
<td>19 – 24</td>
</tr>
<tr>
<td>8</td>
<td>LIST OF PARTICIPANTS</td>
<td>25</td>
</tr>
<tr>
<td>9</td>
<td>LIST OF EQUIPMENTS</td>
<td>26</td>
</tr>
<tr>
<td>10</td>
<td>LIST OF OJT CENTRES</td>
<td>27</td>
</tr>
<tr>
<td>11</td>
<td>QUALIFICATIONS, VERTICAL MOBILITY, EQUIVALENCY</td>
<td>28</td>
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</tbody>
</table>
INTRODUCTION

Readymade garment industry has grown rapidly over the last decade. This can be attributed to the changing lifestyles and increased income of many households. Moreover, consumers appreciate the advantages of readymades and are actively seeking them instead of getting the garments stitched by a tailor, which has been the age old norm. RMG industry has geared up to suit to the ever changing fashions and needs of the consumers by coming up with new brands and varied designs and a general influx of ready to wear apparel in the market.

Knowledge of commercial garment making will not only enable the students to carve a niche for themselves in the readymade industry but also set up an enterprise of their own. Students would be able to get an opportunity to work in garment units of various garment parks that are being setup in Andhra Pradesh. Readymade garment industry is primarily a labour intensive industry and as such provides employment opportunities to skilled labour. Acquiring the requisite skills in the garment manufacturing process helps in reaping the opportunities of the industry.
I. Objectives

1. Develop the skills of designing fashionable garments.
2. Ability to construct patterns
3. To train the students to use modern industrial garment machinery
4. Create awareness for self-employment to start garment units

Specific Objectives
- Understand, analyze and apply principles and elements of design with respect to textiles garments
- Know about the different types of fabrics
- Use pattern making techniques and grading methods to create pattern
- Decide Economic way to cut a fabric
- Understand & operate various machinery used in garment construction
- Stitch & finish garments
- Quality Assessment of Garments
- Costing of a garment
- To develop awareness of career opportunities, in garment industry.

II. Skills to be Provided

1. Illustrate fashion figures skillfully.
2. Design garments which are functional and decorative.
3. Know to select appropriate fabrics suited to the design of the garment with special reference to colour, texture and design of fabric.
4. Operate the industrial modern machines.
5. Stitch and finish a garment.
7. Finishing and packing.
8. To beautify garments with embroidery, painting and other decorative materials.

III. Job Opportunities

Wage Employment
1. Production supervisors in garment industry.
2. Assistant pattern makers
3. Floor supervisors
4. Finishing supervisors
5. Assistant designers
6. Sewing co-ordinator
7. Instructors for community polytechnic scheme
8. Instruments

Self employment
1. It has scope for self-employment.
2. Setup a garment unit
3. Set up a Boutique
4. Undertake job contracts from export garment industries
### V. SCHEME OF INSTRUCTION AND EXAMINATION

**ANNUAL SCHEME OF INSTRUCTION AND EXAMINATION FOR VOCATIONAL COURSES**

#### I. 1st YEAR COMMERCIAL GARMENT TECHNOLOGY COURSE

<table>
<thead>
<tr>
<th>Part-A</th>
<th>Theory</th>
<th>Practicals</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Periods</td>
<td>Marks</td>
<td>Periods</td>
</tr>
<tr>
<td>1.</td>
<td>150</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>150</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

**Part-B (VOCATIONAL SUBJECTS):**

<table>
<thead>
<tr>
<th></th>
<th>Periods</th>
<th>Marks</th>
<th>Periods</th>
<th>Marks</th>
<th>Periods</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>135</td>
<td>50</td>
<td>135</td>
<td>50</td>
<td>270</td>
<td>100</td>
</tr>
<tr>
<td>4.</td>
<td>135</td>
<td>50</td>
<td>135</td>
<td>50</td>
<td>270</td>
<td>100</td>
</tr>
<tr>
<td>5.</td>
<td>135</td>
<td>50</td>
<td>135</td>
<td>50</td>
<td>270</td>
<td>100</td>
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</tbody>
</table>

**Total**

|       | 1110    | 400   |

#### II. On The Job Training

<table>
<thead>
<tr>
<th>Subject</th>
<th>Duration</th>
<th>Periods</th>
<th>Max. Marks</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>OJT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>363 (I year) + 450 (II year)</td>
<td>200</td>
<td>200</td>
<td></td>
</tr>
</tbody>
</table>

**Total**

|       | 200 |

#### III. 2nd YEAR COMMERCIAL GARMENT TECHNOLOGY COURSE

<table>
<thead>
<tr>
<th>Part-A</th>
<th>Theory</th>
<th>Practicals</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Periods</td>
<td>Marks</td>
<td>Periods</td>
</tr>
<tr>
<td>1.</td>
<td>150</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>150</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

**Part-B (VOCATIONAL SUBJECTS):**

<table>
<thead>
<tr>
<th></th>
<th>Periods</th>
<th>Marks</th>
<th>Periods</th>
<th>Marks</th>
<th>Periods</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>110</td>
<td>50</td>
<td>115</td>
<td>50</td>
<td>225</td>
<td>100</td>
</tr>
<tr>
<td>4.</td>
<td>110</td>
<td>50</td>
<td>115</td>
<td>50</td>
<td>225</td>
<td>100</td>
</tr>
<tr>
<td>5.</td>
<td>110</td>
<td>50</td>
<td>115</td>
<td>50</td>
<td>225</td>
<td>100</td>
</tr>
</tbody>
</table>

**Total**

|       | 975     | 400   |

**I+II+III**

|       | 1000    |
EVALUATION OF ON THE JOB TRAINING:

The “On the Job Training” shall carry 100 marks for each year and pass marks is 50. During on the job training the candidate shall put in a minimum of 90% of attendance.

The evaluation shall be done in the last week of January.

Marks allotted for evaluation:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of the activity</th>
<th>Max. Marks allotted for each activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Attendance and punctuality</td>
<td>30</td>
</tr>
<tr>
<td>2</td>
<td>Familiarity with technical terms</td>
<td>05</td>
</tr>
<tr>
<td>3</td>
<td>Familiarity with tools and material</td>
<td>05</td>
</tr>
<tr>
<td>4</td>
<td>Manual skills</td>
<td>05</td>
</tr>
<tr>
<td>5</td>
<td>Application of knowledge</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>Problem solving skills</td>
<td>10</td>
</tr>
<tr>
<td>7</td>
<td>Comprehension and observation</td>
<td>10</td>
</tr>
<tr>
<td>8</td>
<td>Human relations</td>
<td>05</td>
</tr>
<tr>
<td>9</td>
<td>Ability to communicate</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>Maintenance of dairy</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

NOTE: The On the Job Training mentioned is tentative. The spirit of On the Job training is to be maintained. The colleges are at liberty to conduct on the job training according to their local feasibility of institutions & industries. They may conduct the entire on the job training periods of (363) I year and (450) II year either by conducting classes in morning session and send the students for OJT in afternoon session or two days in week or weekly or monthly or by any mode which is feasible for both the college and the institution. However, the total assigned periods for on the job training should be completed. The institutions are at liberty to conduct On the Job training during summer also, however there will not be any financial commitment to the department.
## SYLLABUS

### COMMERCIAL GARMENT TECHNOLOGY

**1ST YEAR**

**PART-B, VOCATIONAL SUBJECT**

**PAPER-I PRINCIPLES OF GARMENT MAKING-THEORY**

**Periods/Week :** 05  
**Periods/Year: 135**

### Time Schedule Weightage and Blueprint

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of Unit</th>
<th>No. of Periods</th>
<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Terminology</td>
<td>10</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Fabric Garment, Selvedge, Sloper, Bodice Block, Pattern, Commercial Pattern, Grain, Bias. <strong>Tools and Equipment:</strong> Measuring tools, Marking tools, Cutting tools and Pressing tools.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Sewing machines:</td>
<td>20</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Types-domestic and industrial machines; Parts and functions; Machine troubles - its causes and remedies; Care of sewing machine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Pattern Making:</td>
<td>10</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Draping, Drafting, Flat- Pattern, Contents of paper patterns, Merits and Demerits, Uses of paper patterns</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Preparation of Material For Cutting:</td>
<td>20</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Strengthening of fabric grain, off grain, preshrinking and pressing of material</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Seams and Seam Finishes:</td>
<td>10</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Plain, French, run and fell, Lapped and slot seam Seam Finishes-Pinked, Edge Stitch, Double Stitch, Herring Bone Stitch Seam Finish.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Fullness in Garment:</td>
<td>25</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Darts-Single Dart, Double Dart; Tucks-Pin, Plain, Cross; Pleats-Knife, Box, Inverted Box; Gathers; Shirring, Flare; Godet.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Placket Opening:</td>
<td>20</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Standards of good placket, Tailored placket, Zipper placket, Narrow bound placket, Placket for kalidar kurta; Selection and choice of plackets on various garments.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Neckline Finishes:</td>
<td>10</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Facings-Fitted and Decorative-Binding-Single and Double.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Fasteners:</td>
<td>10</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Buttons and Button Holes, Shank Buttons, Metal buttons, Zippers, Hooks and Eyes, Velcro</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### COMMERCIAL GARMENT TECHNOLOGY

**1ST YEAR**  
**PART-B, VOCATIONAL COURSE**  

**PAPER-I PRINCIPLES OF GARMENT MAKING-PRACTICALS**

Periods/Week: 05  
Periods/Year: 135

Time Schedule Weightage and Blueprint

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name Of Unit</th>
<th>No. of Periods</th>
<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Basic Stitches:</strong> Temporary/Basting stitches- Even, Uneven; Permanent Stitches- Running Back Stitch, Run And Back; Hemming Stitch- Ordinary, Slip, Knotted</td>
<td>20</td>
<td>20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 2.   | **Seams And Seam Finishes:**  
**Seams:** Plain, French, Run and Fell Seam, Lapped Seam,  
**Seam Finishes:** Pinked, Edge Stitch, Double Stitch and Herring Bone Stitch | 25 | |
| 3.   | **Neckline Finishes:** Bias, Joining Of Bias, Stay Stitching, Facing-Bias, Fitted; Binding-Single, Double. | 20 | 20 | | |
| 4.   | **Fullness In Garments:**  
Darts-Single, Double.  
Tucks- Pin, Plain, Cross Pleats: Knife, Box, Inverted Box, Pinch; Gathers and ruffles-Single & Double. | 20 | |
| 5.   | **Plackets And Openings:**  
Continuous Wrap Opening, Two Piece placket, Bound | 25 | |
| 6.   | **Fasteners:**  
Buttons and button holes, Shank buttons, Press buttons, Hooks and eyes | 25 | | |
<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the Unit</th>
<th>No. of Periods</th>
<th>Weightage in Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Classification &amp; General Properties of Textile Fibers:</strong></td>
<td>10</td>
<td>2</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Definition of terms - Staple, Filament, General Properties – Texture, Resiliency Lustre, Static Electricity, Crimp &amp; Elasticity, Difference between Vegetable &amp; Synthetic Fibres</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td><strong>Manufacture &amp; Properties Of Cellulose Fibres:</strong></td>
<td>10</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Cotton</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3.</td>
<td><strong>Manufacture &amp; Properties Of Protein Fibres:</strong></td>
<td>15</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Silk, wool.</td>
<td></td>
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<tr>
<td>4.</td>
<td><strong>Manufactured Fibres:</strong></td>
<td>15</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Rayon, Polyester</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5.</td>
<td><strong>Spinning:</strong></td>
<td>20</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Mechanical, Chemical</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td><strong>Yarns:</strong></td>
<td>15</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Classification of yarns-Types of yarns-Twist in yarns-Balance of cloth-Yarn count-Novelted yarns</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td><strong>Fabric Construction Methods:</strong></td>
<td>15</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Weaving, Knitting, Non Woven</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td><strong>Looms</strong></td>
<td>25</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Steps in weaving-Weaving process; Kinds of Weaves-Plain weave and its variations, Twill and Satin; Examples of fabrics with such Weaves.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td><strong>Stains:</strong></td>
<td>10</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Definition-classification-types of stains-general rules to be observed in removal of stains on various fabrics.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td><strong>Finishes:</strong></td>
<td>15</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Calendaring, Singeing, Tentering; Chemical finish- Mercerising, Bleaching</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
# COMMERCIAL GARMENT TECHNOLOGY

**1ST YEAR**
**PART-B, VOCATIONAL COURSE**
**PRACTICALS**
**PAPER-II  TEXTILE SCIENCE.**

Periods/Week :05  Periods/Year: 135

Time Schedule Weightage and Blueprint

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name Of Unit</th>
<th>No.of Periods</th>
<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Identification of Textile Fibers- Microscopic, visual and burning tests</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Yarns: Identifying types of yarns; measuring cloth count</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Preparation of Weaves: Basic weaves and their variations</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Stain Removal- Removing the following stains on cotton - Ballpen, Ink, Rust, Halide, Blood, Coffee/Tea, Scorch, Paint, Oil, Curry, Pan</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Collection of finished samples: Collect finishes, identifying and analyse any ten samples</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Time Schedule Weightage and Blueprint

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name Of Unit</th>
<th>No. of Periods</th>
<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Taking Body Measurements:</strong> Points to Remember while taking body measurements-taking and recording measurements for different garments-Children, Women And Men.</td>
<td>20</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td><strong>Types of Material:</strong> Study on different types of material available in the Market for Children’s Garments</td>
<td>25</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3.</td>
<td><strong>Selection of Material for Various Garments:</strong> Jhangia-Jabla-Romper-A-line frock, Baby frock with Bib</td>
<td>25</td>
<td>16</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4.</td>
<td><strong>Clothing selection</strong> Factors Influencing selection of clothing according to Age, Occasion, Figure Type, Fashion, Colour.</td>
<td>20</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td><strong>Preparation of Material For Cutting:</strong> Marking, Different Layouts; Different methods of marking and laying a fabric and cutting</td>
<td>25</td>
<td>16</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>6.</td>
<td><strong>Characteristics of Well Finished Garment:</strong> Ease, Line, Grain, Set, Balance.</td>
<td>20</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
## COMMERCIAL GARMENT TECHNOLOGY
### 1ST YEAR
### PART-B, VOCATIONAL COURSE
### PRACTICALS
### PAPER-III  GARMENT CONSTRUCTION-

**Periods/Week :05**

### Time Schedule Weightage and Blueprint

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of Unit</th>
<th>No. of Periods</th>
<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Taking and Recording Measurements</strong>&lt;br&gt;a) Children&lt;br&gt;b) Women&lt;br&gt;c) Men</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Drafting, Cutting, and Stitching, Fabric Estimation of Jhangia</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Drafting, Cutting, and Stitching, Fabric Estimation of Jabla</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Drafting, Cutting, and Stitching, Fabric Estimation of Romper</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Drafting, Cutting, and Stitching, Fabric Estimation of Baby Frock</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Drafting Basic Bodice Block and Sleeve Block for a Child</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Costing of all the above garments</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## COMMERCIAL GARMENT TECHNOLOGY
### II YEAR
#### PART-B, VOCATIONAL COURSE
#### THEORY
#### PAPER-I APPAREL MANUFACTURE

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of Unit</th>
<th>No. of Periods</th>
<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Adaptation of Basic Sleeve:</strong> Adaptation of basic sleeve into different sleeve types - Puff Sleeve variation, Bell Sleeve, Bishop Sleeve, Leg-O Mutton, Kimono Sleeve Raglan Sleeve,</td>
<td>20</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td><strong>Creating design variety</strong> Methods of creating variety in designing collar, yokes, pockets</td>
<td>15</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3.</td>
<td><strong>Grading:</strong> Introduction to grading, Grading principles, Methods of grading, grading machine</td>
<td>10</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>4.</td>
<td><strong>Commercial sewing machines:</strong> Types of machines, features and usage</td>
<td>10</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td><strong>Production Process in industry:</strong> Collecting materials for production - laying - making - cutting - stitching - finishing - checking - laundering - pressing - packaging</td>
<td>25</td>
<td>16</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>6.</td>
<td><strong>Apparel Industry terminology:</strong> Costume-Ethnic-Apparel-Botique, Classic, Fad-Silhouette-Comouflage - Courtier-Adaptation-Custom Made-Display-Accessories.</td>
<td>15</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>7.</td>
<td><strong>Quality control</strong> Important of quality control in garment industry</td>
<td>15</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
### COMMERCIAL GARMENT TECHNOLOGY
**II YEAR**  
**PART-B, VOCATIONAL COURSE**  
**PRACTICALS**  
**PAPER-I  APPREL MANUFACTURE**

Periods/Week :05  
Periods/Year:115

#### Time Schedule Weightage And Blueprint

<table>
<thead>
<tr>
<th>S.No</th>
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<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Sleeves</strong>: Drafting of plain sleeve. Adaptation of plain sleeve to Puff Sleeve Variation, Bell Sleeve, Kimono, Raglan, Leg-O-Mutton sleeve; Stitching samples of set-in-sleeve, raglan, kimono for record</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td><strong>Collars</strong>: Developing a bodice Block, Drafting, Cutting and Stitching Peter pan Collar, Mandarin, Sailor Collar (record samples)</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td><strong>Pockets</strong>: Cutting and stitching Patch Pocket, Bound Pocket, Pocket in a seam</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td><strong>Women’s Wear</strong>: Drafting, Cutting and stitching Saree Petticoat (Six gore), Saree Blouse, Kameez, Shalwar or Chudidar Pyjama.</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td><strong>Material Requirement And Costing</strong>: Calculating the material requirement for different garments mentioned in the syllabus and calculating the cost of finished garments.</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## COMMERCIAL GARMENT TECHNOLOGY

### II YEAR

#### PART-B, VOCATIONAL COURSE

#### THEORY

#### PAPER-II  FABRIC EMBELLISHMENT

Periods/Week :05  
Periods/Year: 110

Time Schedule Weightage and Blueprint

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of Unit</th>
<th>No. of Periods</th>
<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Study of Handling Different Types of Fabrics Crepe-Felt-Lace-Metallic Fabrics-Jersey Pile Fabrics-Plastic Fabrics-Sheer Fabrics, Synthetic, Finished Fabrics</td>
<td>20</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3.</td>
<td>Fabric Painting Tools used- types of paints, brushes; techniques used-strokes, filling, shading, dry and wet techniques</td>
<td>20</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>4.</td>
<td>Patch Work, Appliqué work and Quilting Patchwork- plain, printed; Quilting- material used for filling; Stitches used for all the above</td>
<td>20</td>
<td>16</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>5.</td>
<td>Study of traditional embroidered textiles of India : Kantha work -Phulkari work-Kashmiri embroidery- Lucknow work-Mirror work, Kasuti work</td>
<td>20</td>
<td>16</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>
## COMMERCIAL GARMENT TECHNOLOGY II YEAR
### PART-B, VOCATIONAL COURSE
#### PRACTICAL
##### PAPER-I  FABRIC EMBELLISHMENT

Periods/Week :05  
Periods/Year:115  
Time Schedule Weightage and Blueprint

<table>
<thead>
<tr>
<th>S.No</th>
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<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Embroidery Stitches</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td><strong>Fabric Painting</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Handling brushes for various Strokes-types of strokes-filling-shading-dry and wet techniques</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Patch work, Appliqué work-types-Quilting</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td><strong>Traditional Textiles</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kantha work-cutwork-Kashmiri Embroidery Lucknow Work-Mirror Work-Kasuti of Karnataka-Stitches Used</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Time Schedule Weightage and Blueprint

<table>
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<tr>
<th>S.No</th>
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<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Introduction to design elements Line-Form-Colour-Texture</td>
<td>20</td>
<td>16</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3.</td>
<td>Colour Hue-Value-Intensity-Prang-Colour Chart-Colour Harmonies, Colour Expression Warm and Cool Colours-Effect Of Colours.</td>
<td>25</td>
<td>16</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4.</td>
<td>Basic principles of fashion designing- Factors to be considered in drawing dress designs for women and children; Structural line, choosing a right fabric for different types of figures, Selecting style lines for different types of figures.</td>
<td>20</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td>Accessories used in fashion designing: Hats, Bags, Shoes, Scarfs, Belts, jewellery</td>
<td>25</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>
# COMMERCIAL GARMENT TECHNOLOGY
## II YEAR
### PART-B, VOCATIONAL COURSE
#### PRACTICALS
##### PAPER-I APPAREL AND FASHION DESIGNING

Periods/Week: 05  
Periods/Year: 115

Time Schedule Weightage and Blueprint

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of Unit</th>
<th>No. of Periods</th>
<th>Weightage In Marks</th>
<th>Short Answer Questions</th>
<th>Problem Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Principles of Designing</td>
<td></td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Colour-Prang colour chart-colour harmonies- Application in garments. Record book to be maintained</td>
<td></td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Design development-basic drawing of fashion-details-necklines, collar variation, sleeve variation; Incorporating the developed details in garments</td>
<td></td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Accessory designing-like hats and shoes-hand bags, jewellery.</td>
<td></td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Basic knowledge of fashion designing in computers.</td>
<td></td>
<td>20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Model Question Papers
COMMERCIAl GARMENT TECHNOLOGY
1 YEAR
PRINCIPLES OF GARMENT MAKING.

TIME: 3 Hours
Max. Marks: 50

SECTION-A

NOTE: (i) ANSWER ALL THE QUESTIONS
(ii) EACH QUESTION CARRIES TWO MARKS

1. What is a commercial pattern?
2. List out the marking tools.
3. What is the function of take-up lever
4. What is drafting?
5. Write few lines of the importance of grain.
6. What is a seam finish?
7. Write about single godet.
8. Where do you use narrow binding placket?
9. List out the garments where fitted facing is used for neck-line.
10. What is a shank button? Where do you use it?

SECTION-B

NOTE: (i) ANSWER ANY FIVE QUESTIONS
(ii) EACH QUESTION CARRIES SIX MARKS

11. Explain the measuring tools used for garment making.
12. How do you take care of sewing machine?
13. Write about the content of paper patterns and the merits and demerits of paper pattern.
14. How do you prepare non-woven fabric for cutting?
15. Explain in detail about French seam and run and fell seam.
16. What is a pleat? Explain the types of pleats used in garments
17. Write in detail about the standards of a good placket.
18. How do you finish neckline with bias binding.
COMMERCIAL GARMENT TECHNOLOGY
1 YEAR
PAPER II TEXTILE SCIENCE

TIME: 3 Hours
Max. Marks: 50

SECTION-A

NOTE: (i) ANSWER ALL THE QUESTIONS
(ii) EACH QUESTION CARRIES TWO MARKS

1. What is a crimp?
2. What is meant by chemical spinning?
3. Write about yarn count.
4. Write about knitting.
5. Give examples for twill weave
6. What is a stain?
7. Write about tentering finish.
8. Write any four physical properties of silk.
9. Write about chemical properties of rayon.
10. Write about resiliency

SECTION-B

NOTE: (i) ANSWER ANY FIVE QUESTIONS
(ii) EACH QUESTION CARRIES SIX MARKS

11. Explain the physical and chemical properties of cotton.
12. Write in detail the classification of textile fibers.
13. Explain the weaving process.
14. Write in detail the general rules to be observed to remove stains
15. Write about calendaring finish
16. Write about the following:
   a. Woven fabrics
   b. Non-woven fabrics.
17. With the help of a diagram explain satin weave.
18. Write in detail the manufacturing of polyester fiber.
COMMERCIAL GARMENT TECHNOLOGY
I YEAR
PAPER III GARMENT CONSTRUCTION-
TIME: 3 Hours Max. Marks: 50

SECTION-A

NOTE: (i) ANSWER ALL THE QUESTIONS
(ii) EACH QUESTION CARRIES TWO MARKS 10 x 2 = 20

1. What is ease?
2. Mention the type of material suitable for Jabla.
3. How take and record round chest measurement?
4. How do you decorate a baby frock?
5. What is grain?
7. What are the factors influenced in the collection clothing for occasion.
8. How do you do marking on fabric?
9. What is layout?
10. Mention the types of material suitable for school going children.

SECTION-B

NOTE: (i) ANSWER ANY FIVE QUESTIONS
(ii) EACH QUESTION CARRIES SIX MARKS 5 x 6 = 30

11. Explain the points to be remembered while taking body measurements
12. Write about the materials suitable for Romper and A-Line frock.
13. How do you select garments for an infant in a market?
14. Explain the factors which influence in selecting clothing for different age groups and fashion.
16. How does line effect in finishing a garment.
17. How do you take and record the following measurements
   a. Round bust measurements b. Waist length c. Sleeve length
18. Write short notes
COMMERCIAL GARMENT TECHNOLOGY
II YEAR
PAPER I APPAREL MANUFACTURE

TIME: 3 Hours         Max. Marks: 50

SECTION-A

NOTE: (i) ANSWER ALL THE QUESTIONS
(ii) EACH QUESTION CARRIES TWO MARKS 10 x 2 = 20

1. Write different types of collars used in children’s garments.
2. What is grading?
3. What is balance
4. What is ethnic?
5. What is quality control?
6. Types of pockets.
7. What is apparel?
8. What is the checking process in production?
9. What is set in a garment?
10. What is a yoke?

SECTION-B

NOTE: (i) ANSWER ANY FIVE QUESTIONS
(ii) EACH QUESTION CARRIES SIX MARKS 5 x 6 = 30

11. Explain the methods of grading front bodice block.
12. Explain how you create balance in a garment.
13. Write how you create variations in a collar in garments.
15. Write in detail the laying and marking done in production process.
16. What is importance of quality control?
17. Explain accessories used by youth?
18. Explain the method of displaying the fabrics and garments in a shop.
COMMERCIAL GARMENT TECHNOLOGY

II YEAR

PAPER II FABRIC EMBELLISHMENT

TIME: 3 Hours                      Max. Marks:50

SECTION-A

NOTE: (i) ANSWER ALL THE QUESTIONS
      (ii) EACH QUESTION CARRIES TWO MARKS 10 x 2 = 20

1. What is a French knot?
2. How do you handle lace fabric?
3. Mention tools used in fabric painting
4. What is patch work?
5. List out the stitches used in appliqué work
6. Write about seed stitch.
7. What is a pile fabric?
8. What is dry technique in fabric painting?
9. List out the materials used for quilting?
10. Write about couching.

SECTION-B

NOTE: (i) ANSWER ANY FIVE QUESTIONS
      (ii) EACH QUESTION CARRIES SIX MARKS 5 x 6=30

11. With help of diagram explain stem stitch.
13. Write the method of wet technique in fabric painting
14. Explain the method of doing printed patch work
15. How do you do quilting?
16. Draw a design suitable for appliqué work and how do you finish it?
17. Explain satin stitch.
18. Write about the following:
   a. Fly stitch    
COMMERCIAL GARMENT TECHNOLOGY
II YEAR
PAPER III APPAREL AND FASHION DESIGNING

TIME: 3 Hours Max. Marks: 50

SECTION-A

NOTE: (i) ANSWER ALL THE QUESTIONS

(ii) EACH QUESTION CARRIES TWO MARKS 10 x 2 = 20

1. What is line in a design?
2. What is value in colour?
3. Draw a dress design suitable for a child.
4. Illustrate fashion of hats.
5. List out warm colours.
6. What is emphasis?
7. What is proportion?
8. Write about thin figures?
9. What are different types shoes?
10. What is form?

SECTION-B

NOTE: (i) ANSWER ANY FIVE QUESTIONS

(ii) EACH QUESTION CARRIES SIX MARKS 5 x 6 = 30

11. Explain about the texture in designing?
12. How do you create emphasis in apparel?
14. How do you choose right fabric for thin figures?
15. Write about belts and scarfs used as accessories used in fashion designing?
16. What is form? How do you introduce it in design?
17. Explain harmony in fashion designing.
18. What is effect of colour in apparels?
XIII LIST OF PARTICIPANTS:

1. Dr. D. Anitha, M.Sc., Ph.D.
   Associate Professor & Head,
   Department of Apparel & Textiles,
   College of Home Science,
   ANGRAU, Hyderabad.

2. Smt. R. Manjula Vani, M.Sc [Textiles]
   JL in Commercial Garment Making,
   Government Vocational Junior College,
   Bazarghat, Hyderabad.

3. Sri Ramana,
   General Manager,
   Pokarna Fashions, Gundlapochampalli,
   Hyderabad.

4. B. Gnana Sagar,
   Professor [FAC] S.I.V.E. & Deputy Director,
   O/o the Commissioner of Intermediate Education,
   Andhra Pradesh,
   Hyderabad.
VII. LIST OF EQUIPMENTS

List of equipment for Commercial Garment Designing & Making:
1. Sewing Machines tailor model 20 Nos.
2. Zig Zag and Embroidery machine 4 Nos.
3. Fashion Maker 1 Nos.
4. Button hole making machine 1 no.
5. Overlook Machine 1 No.
7. Mass Cutting Table 1 No. (Bigsize)
8. Cutting Tables 6 nos.
9. Meter scales 20 Nos.
10. Ironing tables 5 nos.
11. Irons 6 nos.
12. Scissors
   (a) large 20 nos.
   (b) medium 20 nos.
   (c) Small 20 nos.
13. Pinking shears 5 nos.
14. L-Scale 10 nos.
15. Tracing wheels 20 nos.
17. Stools (wood) 20 nos.
18. Staff table and chair 2 nos.
19. Looking Mirror 2 nos.
21. Student chairs and tables
   for classes 20 sets (Theory classes)
22. Computers 5 nos.
23. Stainless Steel vessels with lid (large size) 2 nos
24. Saree Rollers 1 set
VIII. List of On the Job training Sites and Collaboration Institutions for Curriculum Transaction

I. a) (G.P.W.) Government Polytechnic for women - Guntur
b) (G.P.W.) Government Polytechnic for women (Minority) L.B.Nagar
c) GDSTC - Secunderabad
d) GGVI - Secunderabad

II. College of Home Science - Hyderabad Angrau.

III. NIFT - Hyderabad

IV. APCO - Hyderabad (Narayanaguda)

V. Line Departments - Handlooms, DRDA Women & Child Welfare

VI. Boutiques - Area Specific

VII. All Apparel Industries
1. Huwat Units - Visakhapatnam
2. Chermas - Hyderabad
3. 8th Wonder - Viskhaptnam
4. Mellinium Unit - Anakapalli
5. Kandukuri Garments - Kawali
6. Karthik Exports - Hyderabad
7. Logo Apparel - Hyderabad
8. Fantoosh - Hyderabad
9. Government Apparel Units - Rajahmundry
10. Government Apparel Units - Kakinada
11. Government Apparel Units – Visakhapatnam
IX. Qualifications for Teaching Staff in Commercial Garment

Must possess a second class degree of M.Sc Textiles and Clothing (Home Science) with not less than 50% of marks of a university in India established or incorporated by or under a central Act, State Act or a Provincial Act or an institution recognised by the University Grants Commission or an equivalent qualification.

(GoMs.No.302, Education (IE.I) Dept., dated 30.12.1993)

X. Vertical Mobility

1. B.Sc(Hons). Home Science with bridge course, ANGRAU
2. B.SC(Hons) Fashion Technology, ANGRAU
3. B.Sc. (Home Science)
4. Any other degree .

XI. Equivalency:

In the new curriculum 2012 there is no equivalency paper to any paper. Hence the old syllabi students will be given two chances to clear their backlogs (i.e. March & ASE 2013) for I year and (March & ASE 2014) for II year.

XII. List of Reference Books :

2. Fundamentals of textiles and their care - Susheela Dautyagi
3. Household textiles & laundry Work - Deerga Deulkar
4. Modern Textiles - Dorothy Lyle
5. How would you look and dress - Bytra Carson
7. Introduction to textiles - E.E. stout
8. Fashion and Fabrics - Rathboy - Tarpley
9. Dress Pattern Designing - N.Bray
10. A Manual for Children Clothing - Mrs. Pandit
11. Family Clothing _ Tate and Gillson
12. Textile Fabrics and their selection
13. Clothing for moderns - Erwin and Kichener
14. Practical clothing construction _ Mary Mathews (Part-I)
15. Practical Clothing Construction _ Mary Mathews (part- I)
16. Basic Process of clothing construction _ Doongaji and Deshpande
17. Commercial Method of cutting - V.B. Jeevekar
18. Pocket Book of cutting-V.B. Jeevekar

Magazines:

1. Apparel on line
2. Clothes line
3. Vogue