



**VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY**  
JNANASAGARA CAMPUS, BALLARI-583105

**Department of Studies in**  
**Garment Manufacturing Technology**

**III Semester Syllabus**

Bachelor of Science

With effect from 2021-22 and onwards

**Name of the Department: Garment Manufacturing Technology  
III Semester**

**DSC7-APPAREL MACHINERIES AND MAINTENANCE**

|  |                                |
|--|--------------------------------|
| <b>Course Title: B.Sc (Garment Manufacturing Technology)</b> | <b>Course code:21BSC3C7GML</b> |
| <b>Total Contact Hours: 42</b>                               | <b>Course Credits: 3</b>       |
| <b>Internal Assessment Marks: 40</b>                         | <b>Duration of SEE:3</b>       |
| <b>Semester End Examination Marks: 60</b>                    |                                |

**Course Outcomes (CO's):**

1. Classify the sewing machines.
2. Identify the sewing machine parts.
3. To know the stitch formation and sewing needles.
4. Utilize the recent techniques in RMG industries.

**At the end of the course, students will be able to:**

1. To gain the basic knowledge and sources of machineries and maintenance of sewing machines.
2. To study the industrial sewing machine types, function and major components and machine care maintenance.
3. To study the types of sewing machine beds and types of types belts and power transmission.
4. To enable the students to know about machine uses in garment industry.

**DSC7-APPAREL MACHINERIES AND MAINTENANCE**

| <b>Unit</b> | <b>Description</b>  | <b>Hours</b> |
|-------------|---|--------------|
| 1           | Sewing machine Types – Manual, Semi-automatic and Automatic sewing machines. Construction of Sewing Machine. Function and major Components of sewing machine and their application. Its care and maintenances   | 8hrs         |
| 2           | Different types of machine beds-flatbed, raised bed, post bed, cylindrical bed and side bed, Types of belts- Flat belt and v belt....   | 8hrs         |
| 3           | Introduction of stitches, stitch types, stitch diagrams or formation, and steps of stitch formation. Sewing machine needles- types – straight and curved, needle points, sizes and uses of needles.   | 9hrs         |
| 4           | Transmission of power: circular motion, linear motion, displacement, velocity and acceleration. Determination of displacement and velocity diagram of needle bar and Determination of displacement and acceleration of single needle lock stitch machine. | 9hrs         |
| 5           | Threading, operation and application of over-lock flat-lock, double needle lock stitch, double needle chain stitch, button hole, button attach, bar-tack, zig-zag, feed off the arm sewing machines.  | 8hrs         |

**References:**

1. A.J Chuter “Introduction to clothing productionmanagement”
2. Jacob Soliner “Apparel manufacturing handbook”
3. Shaeffer Clair :Sewing for Apparel Industry” Prentice Hall, New Jersey 2001.
4. Sewing machine technicalmanuals.

Date

Course Coordinator

Subject Committee Chairperson

### DSC8-ADVANCE PATTERN MAKING –I

|  |                                |
|--|--------------------------------|
| <b>Course Title: B.Sc (Garment Manufacturing Technology)</b> | <b>Course code:21BSC3C8GML</b> |
| <b>Total Contact Hours: 42</b>                               | <b>Course Credits: 3</b>       |
| <b>Internal Assessment Marks: 40</b>                         | <b>Duration of SEE:3</b>       |
| <b>Semester End Examination Marks: 60</b>                    |                                |

#### Course Outcomes (CO's):

1. Compare basic measurement for boys and girls to develop children's basic bodies.
2. Understand to create new design frocks, school uniforms and baba suit.
3. Identifying the basic charts and to create new designs for children's.
4. Study about fasteners, shirt buttons, zippers, laces, press buttons, hook and eye.
5. Able to understand the most economic layout of pattern pieces on fabric

#### At the end of the course, students will be able to:

1. To learn the drafting procedure for children's wear.
2. To know about the basic measurement and drafting of the children's basic bodies.
3. To design and draft of the children's frocks and school uniform for boy's and girl's.
4. To know about skills of drafting of pattern development using spec sheet.
5. To gain the knowledge of accessories and fasteners for children's.
6. To analyze, understand and incorporate design details in upper and lower garments for kinds.

### DSC8-ADVANCE PATTERN MAKING –I

| <b>Unit</b> | <b>Description</b>  | <b>Hours</b> |
|-------------|---|--------------|
| 1           | Introduction to children's wear, Standard measurement chart for boys and girls. Drafting of children's basic bodies block. Factors influencing fabric selection for infants and children's. | 9hrs         |
| 2           | Definition of infant, toddlers, preschoolers, and children's. Steps involved in designing and drafting of children wear. A-line/summer frock, yoke frock, tank up jumper.                   | 9hrs         |
| 3           | Introduction and classification-School uniform for boys & girls, Baba suit.   | 8hrs         |
| 4           | Designing and drafting of pattern development for children using Specification sheet.   | 8hrs         |
| 5           | Fasteners- press buttons, hook & eye, shirt button, button holes, concealed zippers & laces.  | 8hrs         |

#### References:

1. Pattern Making for Fashion Design, Helen Joseph Armstrong, Dorling Kindersley India Pvt. Ltd (2006)
2. Practical clothing construction, Mary Mathews, Thomson & co., madras, 1974.
3. Apparel manufacturing Hand book, Jacob Solinger van Nostrand Reinhold Company. (1980).

Date

Course Coordinator

Subject Committee Chairperson

## DSC9-TRADITIONAL TEXTILES

|  |                                |
|--|--------------------------------|
| <b>Course Title: B.Sc (Garment Manufacturing Technology)</b> | <b>Course code:21BSC3C9GML</b> |
| <b>Total Contact Hours:42</b>                                | <b>Course Credits: 3</b>       |
| <b>Internal Assessment Marks: 40</b>                         | <b>Duration of SEE:3</b>       |
| <b>Semester End Examination Marks: 60</b>                    |                                |

### Course Outcomes (CO's):

1. Identifying to know about designs of brocades and weaves of different arterials.
2. Understands about colours, design, costumes and embroideries and stitches.
3. Describe about traditional motifs and their influences on different countries.
4. Examine about costumes of different countries accessories, hairstyles etc.

### At the end of the course, students will be able to:

1. To gain the knowledge regarding woven brocades of traditional textiles.
2. To enable students to understand history of costumes, accessories and ornaments.
3. To study of traditional motifs of different countries.
4. Study of different traditional costumes of different countries.

## DSC9-TRADITIONAL TEXTILES

| Unit | Description  | Hours |
|------|--|-------|
| 1    | <b>Traditional Textiles-</b> Traditional textiles of India, Classification, types and uniqueness. Woven-Brocades of Banaras, blanchari, chanderi, tanchoi, kanjivaram, himru,&amru and Dacca muslins,dyed,tie and dye. | 9hrs  |
| 2    | <b>Historic Costume-</b> Introduction – origin of clothing costume of India –Traditional costumes, accessories and ornaments.  | 8hrs  |
| 3    | <b>Historic Costume -</b> Different states of India. Kashmir, Gujarat, Rajasthan, Assam, Manipur, Maharashtra, Karnataka and Kerala.   | 9hrs  |
| 4    | Study of traditional motifs of different countries and their influence on Indian textiles.   | 8hrs  |
| 5    | Study of traditional costume of – Persian, Mughal, Egyptian, China, Rome, French and America.  | 8hrs  |

### References:

1. John Gillow & Nicholas“Traditional Indian Textiles” Thames & Hudson1993
2. Sharon Lee Tate, “Inside fashion design”, Harper & Rowpublisher.
3. Lesla. K.T. Chas A Bernd and Co., “HistoricCostume”
4. Dorris Flyn, “Costumes of India”, Oxford & IBH publishingco.,

Date

Course Coordinator

Subject Committee Chairperson

## DSC7P- APPAREL MACHINARIES AND MAINTENANCE Lab

|  |                                |
|--|--------------------------------|
| <b>Course Title: B.Sc (Garment Manufacturing Technology)</b> | <b>Course code:21BSC3C7GMP</b> |
| <b>Total Contact Hours: 56</b>                               | <b>Course Credits: 2</b>       |
| <b>Internal Assessment Marks: 25</b>                         | <b>Duration of SEE: 3</b>      |
| <b>Semester End Examination Marks: 25</b>                    |                                |

### Course Outcomes (CO's):

1. Classify the different sewing machines
2. Identify the stitch formation and threads of sewing machines
3. To know the thread mount and operation of sewing machine
4. Utilize the recent techniques in RMG industries

### At the end of the course, students will be able to:

1. To gain the basic knowledge and sources of different types of industrial sewing machines.
2. To study the over-lock and Flat-lock sewing machine types, function, thread mount and stitch adjustment.
3. To study the semi automatic sewing machines: Button hole, button attach and bar-tack, function, thread mount and stitch adjustment.
4. To know about the machine threading, operation and stitch adjustment of different types sewing machines.

### List of Experiments

|   |
|---|
| <b>Practical -1</b>   |
| Thread mounting & Stitch adjustment of 4 thread Over-lock machine               |
| <b>Practical -2</b>   |
| Thread mounting & Stitch adjustment of 5 thread Over-lock machine               |
| <b>Practical -3</b>   |
| Thread mounting & Stitch adjustment of 6 thread Over-lock machine               |
| <b>Practical -4</b>   |
| Thread mounting & Stitch adjustment of 3 thread Flat-lock (Loop Making) machine |
| <b>Practical -5</b>   |
| Thread mounting & Stitch adjustment of 5 thread Flat-lock machine               |
| <b>Practical -6</b>   |
| Thread mounting & Stitch adjustment of Double needle lock stitch machine        |
| <b>Practical -7</b>   |
| Thread mounting & Stitch adjustment of 2 needle Chain stitch machine            |
| <b>Practical -8</b>   |
| Thread mounting & Stitch adjustment of Electronic Button Holler machine         |
| <b>Practical -9</b>   |
| Thread mounting & Stitch adjustment of Electronic Button Attach machine         |
| <b>Practical -10</b>  |
| Thread mounting & Stitch adjustment of Electronic Bar-tacker machine            |
| <b>Practical -11</b>  |
| Thread mounting & Stitch adjustment of Single needle lock Zig Zag machine       |
| <b>Practical -12</b>  |
| 3 Assignments   |

Date

Course Coordinator

Subject Committee Chairperson

## DSC8P-GARMENT CONSTRUCTION-III Lab

|  |                                |
|--|--------------------------------|
| <b>Course Title: B.Sc (Garment Manufacturing Technology)</b> | <b>Course code:21BSC3C8GMP</b> |
| <b>Total Contact Hours:56</b>                                | <b>Course Credits: 2</b>       |
| <b>Internal Assessment Marks: 25</b>                         | <b>Duration of SEE: 3</b>      |
| <b>Semester End Examination Marks: 25</b>                    |                                |

### Course Outcomes (CO's):

1. Illustrate different design and styles for children's
2. Compare basic measurement for boys and girls to develop children's basic bodices.
3. Understand to create new design frocks, school uniforms and baba suit.
4. Identifying the basic charts and to create new designs for children's.
5. To understand the most economic layout of pattern pieces on fabric.
6. Study about fasteners, shirt buttons, zippers, laces, press buttons, hook and eye.

### At the end of the course, students will be able to:

1. To know about the basic measurement and stitching of the children's basic bodies.
2. To design and construction procedure of the children's frocks and school uniform for boy's and girl's.
3. To know about skills of construction of the garments using spec sheet, for different age group.
4. To gain the knowledge of accessories and fasteners for children's.
5. To analyze, understand and incorporate design details in upper and lower garments for kids.

### List of Experiments

|   |
|---|
| <b>Practical -1</b>   |
| Introduction to children's wear, Standard measurement chart for boys and girls.                     |
| <b>Practical -2</b>   |
| Children's wear for boys and girls. Stitching of . A-line/summer frock, yoke frock, Tank up jumper. |
| <b>Practical -3</b>   |
| Design and construction of School uniform for boys & girls, Baba suit.                              |
| <b>Practical - 4</b>  |
| Design and construction of children wear using Specification sheet any one.                         |
| <b>Practical -5</b>   |
| Fasteners- press buttons, hook & eye, shirt button, button holes, concealed zippers & laces.        |

Date

Course Coordinator

Subject Committee Chairperson