



VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY
JNANASAGARA CAMPUS, BALLARI-583105

Department of Studies in
Garment Manufacturing Technology

IV Semester Syllabus

Bachelor of Science

With effect from 2021-22 and onwards

Name of the Department: Garment Manufacturing Technology
IV Semester

DSC10-GARMENT PRODUCTION MACHINERY ANDEQUIPMENTS

Course Title: B.Sc (Garment Manufacturing Technology)	Course code:21BSC4C10GML
Total Contact Hours: 42	Course Credits: 3
Internal Assessment Marks: 40	Duration of SEE:3
Semester End Examination Marks: 60	

Course Outcomes (CO's):

1. Classify the cutting machines.
2. Identify the specialization sewing machines and feed mechanism.
3. To know the folders and attachments used in RMG industries.

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

1. To gain the basic knowledge and sources of garment production machineries and equipments.
2. To study the cutting machines classification and applications of manual, semi automatic and automatic cutting machines.
3. To study the types and uses of presser foots, fabric guides, hook sets and loopers.
4. To enable the students to know about specialize machines, attachments and folders uses in garment industry.

DSC10-GARMENT PRODUCTION MACHINERY ANDEQUIPMENTS

Unit	Description	Hours
1	Cutting machine- classification and application – Straight, Circular or round knife cuttingmachine, band knife cutting machine, die cutting machine and automatic cutters.	9hrs
2	Different type of feed mechanism and their application – bottom/drop feed, needle feed, topand bottom feed, and differential feed mechanism.	8hrs
3	Different types of presser foot and their uses, types of fabric guides and their uses. Application of folders and attachments in sewing machines.	8hrs
4	Function of hook sets, types of hook sets: rotary and oscillating hook and uses, Function of loppers – types and uses.	8hrs
5	Threading and operation of embroidery machine, Conversion of design from computer to embroidery on the fabric. And automatic pocket attach machine.	9hrs

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 Jersey2001.
4. Sewing machine technicalmanuals.
5. Gerry cooklin “Introduction to clothing nmanufacture”
6. Charline Phillips “Sewing machine attachment Handbook”.

Date

Course Coordinator

Subject Committee Chairperson

DSC11-ADVANCE PATTERN MAKING-II

Course Title: B.Sc (Garment Manufacturing Technology)	Course code:21BSC4C11GML
Total Contact Hours: 42	Course Credits: 3
Internal Assessment Marks: 40	Duration of SEE:3
Semester End Examination Marks: 60	

Course Outcomes (CO's):

1. Illustrate different design and styles for women's wear.
2. Analyze to get knowledge of measurement chart.
3. Explain the knowledge of basic shirt and trousers.
4. To create draft desired idea of one piece garment for women.
5. Creating new design and draft saree blouse and its variations, Salwar, kameez, and lehanga.
6. Construct the garment as per the pattern and drafting procedure.

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

1. To create different types of women garments by using different techniques.
2. To gain knowledge of standard measurement charts for men and women.
3. To develop types of formal wear and its drafting's
4. To develop and design the flat pattern techniques of casual wear and style lines.
5. To develop the patterns of ethnic wear like saree blouse, and its variations.
6. To give knowledge about complete a garment with different style to form a designer costume.

DSC11-ADVANCE PATTERNMAKING-II

Unit	Description	Hours
1	Introduction to women's garment - Standard measurement chart for men and women. Characteristics of men and women wear. Introduction to manual and computerized pattern development, mini marker. Software's used for pattern development.	9hrs
2	Handling special fabric- crape fabric, stretch fabrics, knit, checks, velvet, leather, fur & lace.	8hrs
3	Designing and drafting of women wear. Formal wear-Introduction, types of formal wear-Basic shirt and trouser /Skirt.	9hrs
4	Designing and drafting of women wear. Casual wear-Introduction, types of casual wear-One piece garment with style line,/Salwar, kameez and its variations.	8hrs
5	Designing and drafting of women wear. Ethnic wear-Introduction, types of ethnic wear- Basic saree blouse and its variations,/Lehanga and crop top.	8hrs
References:		
<ol style="list-style-type: none"> 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

DSC12-CHEMICAL PROCESSING OF TEXTILES

Course Title: B.Sc (Garment Manufacturing Technology)	Course code:21BSC4C12GML
Total Contact Hours:42	Course Credits: 3
Internal Assessment Marks: 40	Duration of SEE:3
Semester End Examination Marks: 60	

Course Outcomes (CO's):

1. Explain the different treatment for all type of fabrics.
2. Get the knowledge of different chemicals and auxiliaries used for wet processing and different machineries used in chemical processing.
3. Gain the knowledge of textile garment finishing techniques.
4. Classification of finishing techniques.

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

1. To study the treatments given fabric in sequence.
2. To study the different machineries used for wet processing.
3. To study the preparatory process in detail.
4. To study the different finishing techniques used for fabric and their classification.
5. To study garment finishing and denim finishing.

DSC12-CHEMICAL PROCESSING OF TEXTILES

Unit	Description	Hours
1	Introduction to wet processing. Sequence of wet processing operations for cotton, silk, wool. Classification of textile processing machines	9hrs
2	Preparatory process: Singeing and types of singeing. Desizing, types of desizing, Scouring, Bleaching and mercerization. Degumming of Silk.	8hrs
3	Introduction to finishing of textiles. Objects of finishing. Classification of finishing.	8hrs
4	Detailed Study of Temporary finishes-Drying, Sanforising, Calendering & permanent finishes- Durable press, Water proof, fire proof.	8hrs
5	Garment processing and finishing. Special finishes for denim fabric. Care and maintenance of woven fabric.	9hrs
References:		
<ol style="list-style-type: none"> 1. Textile Chemistry Vo.I,II and III, R H Peters, Elsewhere Publishing Co. New York. 2. Chemical Technology of fibrous materials, Sadov, MIR Publications,1978. 3. Scouring and Bleaching of Cotton, J.T. Marsh, 1979, B I Publications. 4. Technology of Textile Processing Vo I I,II,III, V A Shenai, 1975, Sevak Publications. 5. Chemical processing of textiles- NCUTE Publication. 		

Date

Course Coordinator

Subject Committee Chairperson

DSC10P- GARMENT PRODUCTION MACHINERY AND EQUIPMENTS Lab

Course Title: B.Sc (Garment Manufacturing Technology)	Course code:21BSC4C10GMP
Total Contact Hours: 56	Course Credits: 2
Internal Assessment Marks: 25	Duration of SEE: 3
Semester End Examination Marks: 25	

Course Outcomes (CO's):

1. Classify the specialized machines.
2. Identify the pneumatic machines and attachments uses in sewing machines.
3. To know the about embroidery and zigzag machines.
4. Utilize the recent techniques, attachments and designs in RMG industries.

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

1. To gain the basic knowledge and sources of specialized sewing machines.
2. To study the semi automatic and automatic sewing machine types, operation, application and stitch adjustment.
3. To study the pneumatic machine setting and operation.
4. To enable the students to know about specialize machines, pneumatic machines, attachments and folders uses in garment industry.

List of Experiments

Practical -1
Thread mounting & Stitch adjustment of 2needle Feed Of The Arm machine
Practical -2
Thread mounting, Setting and operating the Auto Zig machine
Practical -3
Thread mounting, Setting and operating the Key Holer machine
Practical -4
Thread mounting, Setting and operating the Embroidery machine
Practical -5
Thread mounting, Setting and operating the waist band attach machine
Practical -6
Setting and operating the collar trimming, turning & blocking machine
Practical -7
Setting and operating the cuff blocking machine
Practical -8
Setting and operating the front placket attachment folder in double needle lock stitch machine
Practical -9
Setting and operating the bottom hem folder in single needle lock stitch machine
Practical -10
Setting and operating the waist band folder in waist band attach machine
Practical -11
Thread mounting Setting and operating of the Automatic pocket attach machine
Practical -12
3 Assignments

Date

Course Coordinator

Subject Committee Chairperson

DSC11P- GARMENT CONSTRUCTION-IV Lab

Course Title: B.Sc (Garment Manufacturing Technology)	Course code:21BSC4C11GMP
Total Contact Hours:56	Course Credits: 2
Internal Assessment Marks: 25	Duration of SEE: 3
Semester End Examination Marks: 25	

Course Outcomes (CO's):

1. Analyze to get knowledge of measurement chart.
2. Explain the knowledge of basic shirt and trousers.
3. To create stitching of desired idea for designer costume for women.
4. Creating new construction of saree blouse and its variations, Salwar, kameez, and lehanga.

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

1. To create different types of women garments.
2. To gain knowledge of standard measurement charts for men and women.
3. To develop types of formal wear and its construction.
4. To design construction of casual wear and style lines.
5. To design construction of ethnic wear like saree blouse, and its variations.

List of Experiments

Practical -1
Introduction to women's garment - Standard measurement chart for men and women. Characteristics of men and women wear.
Practical -2
Designing and construction of women wear. Formal wear-Introduction ,types of formal wear-Basic shirt and trouser /Skirt. Consumption & calculation of fabric, trims and supporting materials, costing of the product.
Practical -3
Designing and construction of women wear. Casual wear-Introduction, types of casual wear-One piece garment with style line,/Salwar, kameez and its variations. Consumption & calculation of fabric, trims and supporting materials, costing of the product.
Practical – 4
Designing and construction of women wear. Ethnic wear-Introduction, types of ethnic wear- Basic saree blouse and its variations./Lehanga and crop top. Consumption & calculation of fabric, trims and supporting materials, costing of the product.

Date

Course Coordinator

Subject Committee Chairperson

