Reg. No.				

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI - 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.

(For those admitted in June 2020 and later)

PROGRAMME AND BRANCH: B.Sc., COSTUME DESIGN AND FASHION

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
v	PART-III	CORE	U20CF510	KNITTING TECHNOLOGY

Date & Session: 26.04.2025/AN Time: 3 hours Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	<u>SECTION – A (</u> 10 X 1 = 10 Marks) Answer <u>ALL</u> Questions.			
CO1	K1	1.	What is the main difference between weaving and knitting?			
			a) Knitting uses interlacing, weaving uses interlooping			
			b) Weaving uses interlacing, knitting uses interlooping			
			c) Both use interlacing			
			d) Both use interlooping			
CO1	K2	2.	Which of the following is a knitting machine element?			
		_	· · · · · · · · · · · · · · · · · · ·	obbin		
CO2	K1	3.	What is the function of a circular knitting machine?			
			a) Producing warp knit fabrics b) Producing seamless weft knit fa	abrics		
		_	c) Producing woven fabrics d) Producing non-woven fabrics			
CO2	K2	4.	What is the primary characteristic of weft knitting?			
			a) Requires multiple yarns b) Can be unravelled easily			
~~~		_	c) Produces rigid fabrics d) Forms only woven fabric			
CO3	K1	5.	Which of the following is a warp knitting machine?			
			a) Circular knitting machine b) Raschel machine			
~~~			c) Flatbed machine d) Shuttle loom			
CO3	K2	6.	Which of the following fabrics is usually made using warp knitting?			
			a) Terry cloth b) Tricot fabric			
004	774		c) Denim d) Chiffon			
CO4	K1	7.	What is the purpose of the Jacquard mechanism in knitting?			
			a) Creates complex patterns b) Produces plain fabrics			
004	170	0	c) Reduces fabric weight d) Increases elasticity			
CO4	K2	8.	What does the GSM calculation in Jacquard knitting determine?			
			a) Fabric elasticity b) Fabric weight per square meters	er		
005	17.1	0	c) Fabric Density d) Fabric width			
CO5	K1	9.	Which machine is used for seamless knitting?			
			a) Tricot machine b) Flatbed knitting machine c) Circular Imitting machine d) Shuttle learn			
COF	IZO.	10	c) Circular knitting machine d) Shuttle loom			
CO5	K2	10.	What is a common defect in knitted fabric production?			
			a) Barrie Effect b) Tuck stitches			
			c) Loose seams d) Woven faults			

Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - B \text{ (5 X 5 = 25 Marks)}}{\text{Answer } \frac{\text{ALL}}{\text{Questions choosing either (a) or (b)}}$
CO1	КЗ	11a.	Explain the difference between weaving and knitting. (OR)
CO1	КЗ	11b.	Draw and describe the yarn passage diagram of a circular knitting machine.
CO2	КЗ	12a.	Analyze the effect of stitch length on the properties of weft knitted fabrics. (OR)
CO2	КЗ	12b.	Describe the structure of rib and interlock knit fabrics with diagrams.
CO3	K4	13a.	Compare the working principles of Tricot and Raschel knitting machines. (OR)
CO3	K4	13b.	Explain any two basic lapping variations in warp knitting with simple diagrams.
CO4	K4	14a.	Compare jacquard knitting with non-jacquard knitting in terms of patternmaking capabilities. (OR)
CO4	K4	14b.	Explain the role of programmed tape in Jacquard knitting machines.
CO5	K5	15a.	Assess the importance of maintenance processes like washing and ironing in extending knitwear life. (OR)
CO5	K5	15b.	Justify the significance of the Tirupur knitwear market in global trade.

Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - C \text{ (5 X 8 = 40 Marks)}}{\text{Answer } \underline{\text{ALL }} \text{Questions choosing either (a) or (b)}}$
CO1	КЗ	16a.	Compare and contrast the principles of weft and warp knitting in terms of fabric properties. (OR)
CO1	КЗ	16b.	Explain the classification of knitting machines and their applications.
CO2	K4	17a.	Describe the different types of needle gating systems used in weft knitting machines. (OR)
CO2	K4	17b.	Explain the production calculations for circular knitting GSM with an example.
CO3	K4	18a.	Explain different warp knitting terminologies and analyze their significance in fabric production. (OR)
CO3	K4	18b.	Examine the structure and properties of standard two-bar warp knit fabrics and explain their applications in textiles.
CO4	K5	19a.	Assess the impact of course and wales per inch on Jacquard fabric quality. (OR)
CO4	K5	19b.	Assess the effect of different Jacquard pattern-making techniques on fabric aesthetics and durability.
CO5	K5	20a.	Evaluate the advantages and limitations of seamless knitting in sportswear production. (OR)
CO5	K5	20b.	Justify the importance of dyeing techniques in improving the quality of knit fabrics.