

GUJARAT TECHNOLOGICAL UNIVERSITY
TEXTILE TECHNOLOGY
B. E. SEMESTER: VII

Subject Name: **Knitting and Garment Technology (Department Elective – I)**
Subject Code: **172906**

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	University Exam (E)		Mid Sem Exam (Theory) (M)	Practical (Internal)
				Theory	Practical		
4	0	2	6	70	30	30	20

Sr. No.	Topic	Total Hrs	Text Book
1	Introduction of knitting, classification, general idea about related terms and comparison of warp and weft knitting. Introduction To Warp Knitting: Tricot & Raschel knitting, knitting cycles.	6	Knitting technology David .J. Spencer
2	Weft knitting machines(circular ,flat) with details of sections (feed, knitting ,winding) and parts(needle, sinker, cams , yarn feeder , stop motions etc.	4	Knitting technology David .J. Spencer
3	Primary weft knitted structures-plain, rib, interlock, purl and structures based on them.	4	Knitting technology David .J. Spencer
4	Weft knitted stitches-held loop, drop or press-off stitch, float stitch, tuck stitch.	4	Knitting technology David .J. Spencer
5	Structural modifications commonly used in weft knitting-laying in, plating, open work structure	3	Knitting technology David .J. Spencer
6	Coloured stitch design in weft knitting-horizontal stripping, intarsia, plating.	2	Knitting technology David .J. Spencer
7	GSM and production calculations.	2	Advances in Weft Knitting (QIP Book)
8	Background to Clothing Industry in India and elsewhere. Design department.	1	Technology of Clothing manufacture-Carr & Latham

9	<p>Fabric properties and their effect on garment properties.</p> <p>Cutting: Market Planning, requirements, Planning and methods. Spreading-requirements and methods of spreading. Types of fabric packages. Cutting-Objectives and Methods.</p>	10	Technology of Clothing manufacture-Carr & Latham
10	<p>Sewing: Various types of seams and stitches. Study of various feed mechanism. Sewing machine needles and threads. Sewing.Sewing problems. Test for sewability and tailorability.</p>	8	Technology of Clothing manufacture Carr & Latham
11	<p>Sewing Machinery: Basic simple machines like lock stitch, over lock etc. and work aids. Simple automatics like button holder, button sewing, bar tack etc. Advanced Machineries. Brief out line of various production systems used in garment making. Q.C. in garments.</p>	6	Technology of Clothing manufacture Carr & Latham

Reference Books:

1. Knitting Technology – Ajgaonkar
2. Introduction to Clothing Manufacture – Cooklyn