Faculty of Design
Masters of Design (M.Des.)
(W. E. F.: 2023-24)

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Name of Faculty	:	Faculty of Design
Name of Program	:	Masters of Design (M.Des.) – Fashion Design
Course Code	:	2MFD03
Course Title	:	Knitwear Technology
Type of Course	:	Professional Core
Year of Introduction	:	2023-24

Prerequisite	:	Basics of Knits
Course Objective	:	To learn the advance of Knits and its development
Course Outcomes	:	At the end of this course, students will be able to:
	CO1	Understanding of hand knitting and machine knitting
	CO2	In-depth knowledge about Knitting industry
	CO3	Understanding of the various knitting structure
	CO4	Learn skill in making knitted structure.

Teaching and Examination Scheme

Teaching Scheme (Contact Hours)			Credits	Examination Marks				
				Theory Marks		Practical Marks		Total Marks
L	T	P	C	SEE	CIA	SEE	CIA	
2	0	4	4	70	30	30	20	150

Legends: ***L****-Lecture;* ***T****–Tutorial/Teacher Guided Theory Practice;* ***P****– Practical,****C*** *– Credit,* ***SEE*** *– Semester End Examination,* ***CIA*** *- Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.))*

Course Content

Module No.	Topics	Teaching Hours	Weightage	Mapping with COs
UNIT I	History and Developments in Knitting Technology 1. Indian knitting industry past present and future a. Hand knitting b. Machine knitting c. Electronics in Knitting d. Further developments 2. Principles and elements of knitting technology a. Patterning mechanisms for weft knitted structures (plain, rib, interlock, purl), its general calculations and fabric swatch collection	40	30%	CO1, CO2, CO3

	b. Patterning mechanisms for warp knit designs: yarns, its general calculations and fabric collection. (Tricot and Raschel knits)			
UNIT II	Knitted Garments - its stitch, seams and seaming machinery 1. Classification of Knitted Garments and its production sequence a. Fully Cut b. Stitch Shaped Cut c. Fully Fashioned d. Integral 2. Production and Machinery for types of Knitted Garments 3. Machinery for Seaming Knitted Garments 4. Knitted garments – Analysis, Testing and Quality Control.	40	40%	CO3
UNIT III Practical	Sample Making 1. Learning to operate the flat knitting machine and circular knitting machine. 2. Making knitted samples with the 4 basic stitches (plain rib, purl and interlock).	40	30%	CO4

Suggested Distribution of Theory Marks Using Bloom's Taxonomy						
Level	**Remembrance**	**Understanding**	**Application**	**Analyse**	**Evaluate**	**Create**
Weightage	15	25	15	10	10	25

NOTE: This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Reference Books

Sr. No.	Name of Reference Books
1	Aigaonkar D. B. – Knitting Technology University Publishing Co-operation Bombay.
2	Brackenbury T. (1992). Knitted Clothing Technology. United Kingdom: Blackwell Science.
3	David J. Spencer – Knitting Technology, Pergeman Press U.K.
4	Raz ., S – Flat Knitting Technology Germany