

LESSON PLAN

DEPARTMENT OF TEXTILE TECHNOLOGY, ITT, CHOUDWAR

SUBJECT: FABRIC MANUFACTURE III

Periods: 4 per week

SEMESTER: 5th

NAME OF FACULTY: MANAS KUMAR SAHOO

No. of weeks: 15

Week	Period	Theory / Practical Topics
1 st	1 st	Define knitting, Explain types of Knitting.
	2 nd	Courses & Wales
	3 rd	VARIOUS KNITTING TERMINOLOGY
	4 th	Compare between Weaving and Knitting
2 nd	1 st	Compare between warp and weft knitting
	2 nd	Discussion
	3 rd	State the types of basic weft knitted structures.
	4 th	State the representation of basic knitted structures in the form of loop diagrams
3 rd	1 st	Face Stitch & Back Stitch and in the form of stitch notations
	2 nd	Characteristics basic knitted structure (Plain)
	3 rd	Characteristics basic knitted structure (Rib)
	4 th	Characteristics basic knitted structure (Interlock)
4 th	1 st	Characteristics basic knitted structure (Purl)
	2 nd	Knitting operation of (Plain)
	3 rd	Knitting operation of (Rib)
	4 th	Knitting operation of (Interlock)
5 th	1 st	Knitting operation of (Purl)
	2 nd	Define float and luck stitches, Explain effects of luck and float stitches.
	3 rd	Knitting operation of float & Tuck
	4 th	State the passage of material through circular weft knitting machine.
6 th	1 st	Discussion of needle sinker cam
	2 nd	Types of needle
	3 rd	Knitting cycle of various needle
	4 th	Knitting cycle of various needle
7 th	1 st	State the function of the machinery parts: Creels, stop motions, positive feeders, yarn guides, take-up and winding mechanism.
	2 nd	Explain the arrangement of knitting elements,
	3 rd	State the knitting action of stitch forming elements in single jersey and
	4 th	Stitch forming cycle of Double jersey fabrics
8 th	1 st	double jersey knitting machines (rib, inter lock and purl machines)
	2 nd	Discussion
	3 rd	Discussion
	4 th	Exam
9 th	1 st	Warp Knitting machine
	2 nd	Explain various warp knitting machine
	3 rd	Machine construction of raschel
	4 th	Machine construction of tricot
10 th	1 st	Passage of material through raschel
	2 nd	Passage of material through tricot
	3 rd	Swinging and shogging motion
	4 th	Knitting operation in raschel

11 th	1 st	Knitting operation in tricot
	2 nd	Various end uses of warp knitting
	3 rd	Discussion
	4 th	discussion
12 th	1 st	Define machine gauge , tightness factor and yarn number.
	2 nd	Cut of machine/ gauge of machine
	3 rd	Calculate weft knitting machine production
	4 th	Production in yard /pound
13 th	1 st	Calculate loop length, fabric widths, weigh per square
	2 nd	Discussion
	3 rd	Introduction to non-woven technology.
	4 th	Types of fibres used and end uses of nonwovens
14 th	1 st	Methods of web preparation & Orientation of fibres in the web.
	2 nd	Methods of bonding of web,
	3 rd	Brief idea on non-woven fabrics by needle punching,
	4 th	stitch bonding, spun bonding
15 th	1 st	thermal bonding, Adhesive bonding techniques etc
	2 nd	Discussion
	3 rd	Revision
	4 th	Revision

MONTH WISE REPORT

Month	No. of classes Allotted	No. of Classes Taken	No. of Classes Dropped	Remarks
March				
April				
May				
June				

Counter Sign. of Principal

Sign. of HOD

Sign. of Faculty

Time Table w.e.f.:

Day	1	2	3	4	5	6	7
Time							
Mon							
Tue							
Wed							
Thurs							
Fri							
Sat							

--	--	--	--	--