

LESSON PLAN

DEPARTMENT OF TEXTILE TECHNOLOGY, ITT, CHOUDWAR

SUBJECT: FABRIC MANUFACTURE II

Periods: 4 per week

SEMESTER: 4th

NAME OF FACULTY: MANAS KUMAR SAHOO

No. of weeks: 15

Week	Period	Theory / Practical Topics
1 st	1 st	Explain take up & Classify take up motion
	2 nd	Discuss Negative take up motion
	3 rd	Five wheel take up , Seven wheel take up motion
	4 th	Positive continuous take up motion
2 nd	1 st	Explain let off & Classify let off motion
	2 nd	Negative let off motions
	3 rd	Positive let off motion
	4 th	Explain Warp protecting motion.
3 rd	1 st	Discuss weft stop motion
	2 nd	Discuss Break Mechanism
	3 rd	Discuss Timings and settings of these motions.
	4 th	Discussion
4 th	1 st	Explain drop Box mechanism,.
	2 nd	Various box motions
	3 rd	Explain pick & pick looms
	4 th	Mechanism of pick and pick looms
5 th	1 st	Brief idea on card saving devices .
	2 nd	Discussion
	3 rd	Explain working principles of dobbies
	4 th	Dobbies like Keighly
6 th	1 st	cam, paper doobby
	2 nd	Electronically controlled Dobby
	3 rd	Discuss pegging for doobby (Right & left hand) loom.
	4 th	Explain principles of Jacquard weaving & Classify Jacquards.
7 th	1 st	Explain working single lift Jacquards.
	2 nd	Single lift single cylinder
	3 rd	Single lift double cylinder
	4 th	Discuss double lift double cylinder Jacquards.
8 th	1 st	Double lift double cylinder jacquard
	2 nd	Discuss Jacquard building
	3 rd	Harness building
	4 th	Casting out
9 th	1 st	Brief idea on electronic jacquard
	2 nd	Discussion
	3 rd	Revision
	4 th	Exam
10 th	1 st	Explain weft feeler mechanism.
	2 nd	Discuss 3 try weft fork mechanism.
	3 rd	Discuss Automatic warp stop motion
	4 th	Discuss Automatic warp stop motion
11 th	1 st	Explain Shuttle protector.
	2 nd	Explain Shuttle protector.

	3 rd	Discuss Automatic cop changing motion.
	4 th	Discuss fabric defects, its causes and remedies.
12 th	1 st	Discuss fabric defects, its causes and remedies.
	2 nd	Discussion
	3 rd	Classify & Explain unconventional looms.
	4 th	Discuss Limitation of shuttle looms& State the advantages of shuttle-less looms over shuttle Looms.
13 th	1 st	Discuss Limitation of shuttle looms&
	2 nd	State the advantages of shuttle-less looms over shuttle Looms.
	3 rd	Explain the preparation of raw materials for unconventional looms.
	4 th	Explain the preparation of raw materials for unconventional looms.
14 th	1 st	Classify & explain briefly on different types of weft insertion processes in shuttle-less looms
	2 nd	Rapier loom
	3 rd	Projectile loom
	4 th	Air jet loom
15 th	1 st	Water jet loom
	2 nd	Discussion
	3 rd	Revision
	4 th	Revision