LESSON PLAN

SUB: Textile Chemical Processing-I (Theory)

BRANCH: - TEXTILE ENGG.

SEMESTER:3rd

NAME OF FACULTY: Birendra Meher (Lect. in Textile Tech.)



GOVERNMENT POLYTECHNIC, BHADRAK

HOD (C) Textile Engg.

Academic Co-ordinator

Principal Govt. Polytechnic, Bhadrak

LESSON PLAN

DEPARTMENT OF TEXTILE ENGG, GOVT. POLYTECHNIC, BHADRAK SUBJECT: Textile Chemical Processing - I Periods: 3 per week SEMESTER: 3rd NAME OF FACULTY: BIRENDRA MEHER ACADEMIC YEAR: 2022-2023

Semester From date: 15.9.2022 To Date: 22.12.2022 No. of weeks: 15

Week	Class Day	Theory / Practical Topics
1st	1 st	Pre-cleaning, Mending, Stamping, stitching, Shearing and cropping.
	2nd	Brief idea on Shearing and cropping M/c.
	3rd	Singeing, Different methods of singeing (Plate Singeing),
		drawbacks and advantages.
2nd	1st	Singeing, Different methods of singeing (Roller Singeing),
		drawbacks and advantages.
	2nd	Singeing, Different methods of singeing (Gas Singeing),
		drawbacks and advantages.
	3rd	Object & types of desizing
3rd	1st	Methods of desizing
	2nd	Mechanism of removal of starch.
	3rd	Efficiency of desizing,
4th	1st	Class for revision
	2nd	Objectives of scouring, mechanism of removal of impurities
	3rd	recipe and controlling parameters.
	1st	Scouring of textile
5th	2nd	Scouring of textile
	3rd	evaluation of scouring efficiency.
6th	1st	Class for revision
	2nd	Scouring of natural textiles.
	3rd	Scouring of man - made textiles.
	1st	Scouring of blended textiles.
7th	2nd	Degumming of silk.
	3rd	Classification of Kier
	1st	working mechanism of Industrial Kier
8th	2nd	working mechanism of Industrial Kier
	3rd	Souring
9th	1st	Class for revision
	2nd	Objectives of bleaching & classification of bleaching agents.
	3rd	Mecahnism of Hypochlorite, peroxide and chlorite bleaching.
10th	1st	Mecahnism of Hypochlorite, peroxide and chlorite bleaching.
	2nd	Field of application - Bleaching of cotton by suitable bleaching agent.
	3rd	Field of application - Bleaching of silk by suitable bleaching agent.
	1st	Field of application - Bleaching of wool by suitable bleaching agent.
11th	2nd	Field of application - Bleaching of man - made textile
	2nd	by suitable bleaching agent.
	3rd	Field of application - Bleaching of blended textile
		by suitable bleaching agent.
12th	1st	Principles and application of optical brightening and blueing agents.
	2nd	Class for revision

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	3rd	Classification of dyes and pigments used in textile industry.
		Comparision between natural and synthetic dves.
	1st	general properties of dyes (solubility, affinity toward, Properties),
		principles of dyeing
13th	2nd	Dyeing of textiles of natural fibres [(Cotton by direct dye)]
	3rd	During of toytilos of natural fibres (Cotton by reactive ar ye
	1st	Dyeing of textiles of natural fibres [(Cotton by vat dye)] Dyeing of textiles of natural fibres [(Cotton by vat dye)]
14th	2nd	
25	3rd	Dyeing of textiles of natural fibres [(Silk and specific machine,
	1st	Working principles of Hank and Package dyeing machine, Jigger, J-Box.
15th	2nd	Working principles of Hank and Package dyeing was
	3rd	Class for revision

Signature of Lect. Textile Engg. Signature of HOD (I/C) Textile Engg.

Signature of Academic co-ordinator.