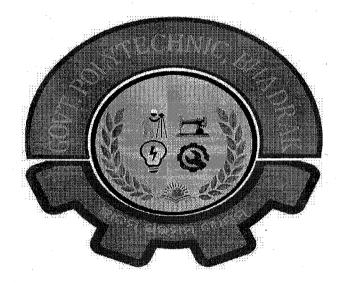
LESSON PLAN

SUB: TEXTILE CHEMICAL PROCESSING-I

BRANCH:- TEXTILE ENGG.

SEMESTER:3rd

NAME OF FACULTY: BIRENDRA MEHER (LECTURER)



GOVERNMENT POLYTECHNIC, BHADRAK

Hod Textile Engg.

Academic Co-ordinator

Principal 777 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: 2023-2024			
Semester From date: 01.8.2023 To Date: 30.11.2023 No. of weeks: 15 Week Class Day Theory / Practical Topics				
	2nd			
1st	ZHu	Brief idea on Shearing and cropping M/c.		
	3rd	Singeing, Different methods of singeing (Plate Singeing),		
•		drawbacks and advantages.		
Ond	1st	Singeing, Different methods of singeing (Roller Singeing),		
		drawbacks and advantages.		
2nd	2nd	Singeing, Different methods of singeing (Gas Singeing),		
		drawbacks and advantages.		
	3rd	Object & types of desizing		
3rd	1st	ivietnods of desizing		
	2nd	Mechanism of removal of starch.		
	3rd	Efficiency of desizing,		
	1st	Class for revision		
4th	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.		
	1st	Class for revision		
6th	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		
	1st	Class for revision		
9th	2nd	Objectives of bleaching & classification of bleaching agents.		
	3rd	Mecahnism of Hypochlorite, peroxide and chlorite bleaching.		
	1st	Mecahnism of Hypochlorite, peroxide and chlorite bleaching.		
10th	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.		
	2nd	Field of application - Bleaching of man - made textile		
11th		by suitable bleaching agent.		
	3rd	Field of application - Bleaching of blended textile		
•		by suitable bleaching agent.		
	1st	Principles and application of optical brightening and blueing agents.		
	2nd	Class for revision		
12th	ZIIG	Class for revision		

	3rd	Classificstion of dyes and pigments used in textile industry. Comparision between natural and synthetic dyes.
13th	1st	general properties of dyes (solubility, affinity toward, Properties), principles of dyeing.
	2nd	Dyeing of textiles of natural fibres [(Cotton by direct dye)]
	3rd	Dyeing of textiles of natural fibres [(Cotton by reactive dye)]
14th	1st	Dyeing of textiles of natural fibres [(Cotton by vat dye)]
	2nd	Dyeing of textiles of natural fibres [(Cotton by azoic & sulphur dye)]
	3rd	Dyeing of textiles of natural fibres [(Silk and Wool by acid dye)]
15th	1st	Working principles of Winch, Jet, Beam dyeing machine.
	2nd	Working principles of Hank and Package dyeing machine, Jigger, J-Box.
	3rd	Class for revision

Signature of Faculty

(Lecture textile)

Signature of HOD (I/C) Textile Engg.

Signature of Academic Co-ordinator