

LESSON PLAN

SUB: Textile Chemical Processing-II (Theory)

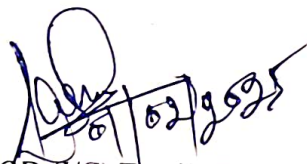
BRANCH: - TEXTILE ENGG.

SEMESTER: 4th


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



**GOVERNMENT POLYTECHNIC,
BHADRAK**


HOD (I/C) Textile Engg.


Academic Co-ordinator
Govt. Polytechnic, Bhadrak



Principal
Govt. Polytechnic, Bhadrak


LESSON PLAN**DEPARTMENT OF TEXTILE ENGG, GOVT. POLYTECHNIC, BHADRAK****SUBJECT: TEXTILE CHEMICAL PROCESSING-II** Periods: 4 per week **SEMESTER: 4th****NAME OF FACULTY: BIRENDRA MEHER** **ACADEMIC YEAR: 2024-2025****Semester From date: 04.02.2025 To Date: 17.05.2025 No. of weeks: 15**

Week	Class Day	Theory / Practical Topics
1st	1st	Dyes used for man-made fibres
	2nd	Dyeing of polyester with disperse dyes by carrier method
	3rd	Dyeing of polyester with disperse dyes by HTHP method
	4th	Dyeing of polyester with disperse dyes by Thermosol method
2nd	1st	Dyeing of Cationic dye-able polyester fibre
	2nd	Dyeing of Polyester /Cotton blended fabrics with suitable dyes
	3rd	Dyeing of Polyester /Wool blended fabrics with suitable dyes
	4th	Dyeing of Acrylic with basic dyes
3rd	1st	Dyeing of Acrylic with basic dyes
	2nd	Class for revision
	3rd	Objects of printing
	4th	Difference between dyeing and printing
4th	1st	Preparation of printing paste
	2nd	Classification, functions and properties of thickeners
	3rd	Methods of printing & Styles of printing
	4th	Styles of printing – Direct style
5th	1st	Styles of printing – Discharge style
	2nd	Styles of printing – Resist style
	3rd	Methods of printing –Block printing
	4th	Methods of printing –Block printing
6th	1st	Methods of printing – Screen Printing
	2nd	Methods of printing – Screen Printing
	3rd	Methods of printing –Rotary screen Printing
	4th	Methods of printing –Rotary screen Printing
7th	1st	Methods of printing – Roller printing
	2nd	Methods of printing – Roller printing
	3rd	Methods of printing –Transfer printing
	4th	Preparation of screens for printing
8th	1st	Printing of cotton fabric with vat dyes
	2nd	Printing of cotton fabric with reactive dyes
	3rd	printing of wool fabric with acid dye
	4th	printing of silk fabric with acid dye
9th	1st	printing of Nylon fabric with acid dye
	2nd	printing of Polyester fabric with disperse dyes
	3rd	Class for revision
	4th	Objects of finishing
10th	1st	Classification of finishes
	2nd	Classification of finishes
	3rd	Importance of mechanical finishes
	4th	Objects of calendaring and working of different calendars

11th	1st	Objects of calendaring and working of different calendars
	2nd	Objects of calendaring and working of different calendars
	3rd	objects of stentering & sanforization
	4th	objects of stentering & sanforization
12th	1st	Class for revision
	2nd	Objects of chemical finishing
	3rd	Methods of application of Crease resistance finish
	4th	Methods of application of water proof and water repellant finish
13th	1st	Methods of application of flame retardant finish
	2nd	Carbonization of wool
	3rd	Moth proof finish on wool
	4th	Stone wash on denim fabric
14th	1st	Objects of Mercerisation , Physical, Chemical & Structural Changes occurred after mercerization of cotton fibre
	2nd	Factors affecting mercerisation., Discuss working method of chainless mercerisation of cotton fabric.
	3rd	Class for revision
	4th	Importance of Washing, Objects of drying
15th	1st	Working principle of Hydroextractor
	2nd	Working principle of Multi cylinder drying
	3rd	Working principle of IR/ RF dryer
	4th	Class for revision


 01/02/2025
 Signature of
 Lect. Textile Engg.


 Signature of
 HOD (I/C) Textile Engg.


 Signature of
 Academic co-ordinator.