

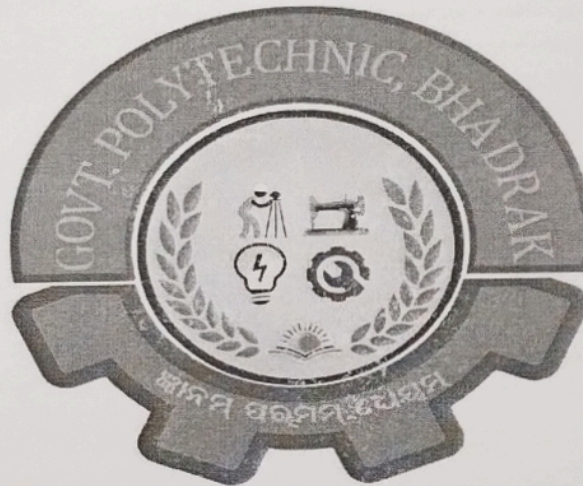
LESSON PLAN

SUB: TH-1 FIBER SCIENCE

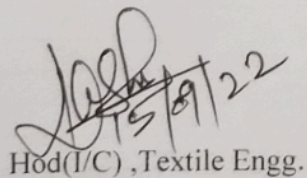
BRANCH:- TEXTILE ENGG.

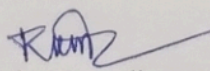
SEMESTER:3RD

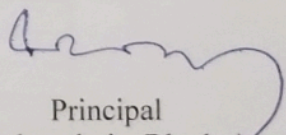
NAME OF FACULTY: RASHMI REKHA PATEL(Sr. Lect. GD&DM)



**GOVERNMENT POLYTECHNIC,
BHADRAK**


Hod(I/C), Textile Engg.


Academic Co-ordinator


Principal
Govt. Polytechnic, Bhadrak

LESSON PLAN

DEPARTMENT OF TEXTILE ENGG, GOVT. POLYTECHNIC, BHADRAK

SUBJECT: Fibre Science Periods: 3 per week SEMESTER: 3rd

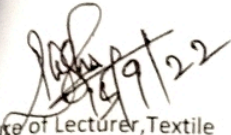
NAME OF FACULTY: R.R PATEL ACADEMIC YEAR: 2022-2023

Semester From date: 15.9.2022 To Date: 21.01.2023 No. of weeks: 15

Week	Class Day	Theory / Practical Topics
1st	1st	Basic concept on Polymer and classification.
	2nd	Degree of polymerization.
	3rd	Brief idea on different polymerization methods.
2nd	1st	Brief idea on different polymerization methods.
	2nd	Features of fibre forming polymers
	3rd	Concept of fibre & Classification of textile grade fibres.
3rd	1st	Concept of fibre & Classification of textile grade fibres.
	2nd	Concept of staple fibre and filament.
	3rd	State the essential & desirable properties of Textile grade fibre.
4th	1st	Class for revision.
	2nd	Brief idea of extraction of fibres from their natural resources like- cotton, silk, jute etc.
	3rd	Brief idea of extraction of fibres from their natural resources like- cotton, silk, jute etc.
5th	1st	Brief idea of extraction of fibres from their natural resources like- cotton, silk, jute etc.
	2nd	Morphological structure of Cotton fibre
	3rd	Morphological structure of silk fibre
6th	1st	Morphological structure of wool fibre
	2nd	Morphological structure of Jute fibre
	3rd	Class for revision.
7th	1st	Physical, Chemical Properties of natural fibres like- Cotton, wool , Silk, jute etc. and end uses.
	2nd	Physical, Chemical Properties of natural fibres like- Cotton, wool , Silk, jute etc. and end uses.
	3rd	Physical, Chemical Properties of natural fibres like- Cotton, wool , Silk, jute etc. and end uses.
8th	1st	Physical, Chemical Properties of natural fibres like- Cotton, wool , Silk, jute etc. and end uses.
	2nd	Physical, Chemical Properties of natural fibres like- Cotton, wool , Silk, jute etc. and end uses.
	3rd	Identification of natural fibres by physical & chemical processes.
9th	1st	Class for revision.
	2nd	Principles of Melt, Wet & Dry Spinning.
	3rd	Principles of Melt, Wet & Dry Spinning.
10th	1st	Principles of Melt, Wet & Dry Spinning.
	2nd	Manufacturing process & properties of Viscose rayon fibre from wood pulp.
	3rd	Manufacturing process & properties of Viscose rayon fibre from wood pulp.
11th	1st	Manufacturing process & properties of Viscose rayon fibre from wood pulp.
	2nd	Class for revision.
	3rd	Concept of high tenacity viscose rayon.
12th	1st	Brief idea on secondary & triacetate acetate rayon fibre.
	2nd	manufacturing Process flow chart, Properties & end uses of – Nylon6
	3rd	manufacturing Process flow chart, Properties & end uses of –Nylon 6,6
13th	1st	manufacturing Process flow chart, Properties & end uses of –Polyester
	2nd	manufacturing Process flow chart, Properties & end uses of –Acrylic
	3rd	manufacturing Process flow chart, Properties & end uses of –Mod-acrylic
14th	1st	Class for revision.
	2nd	properties and end uses of – poly propylene
	3rd	properties and end uses of – Poly ethylene
15th	1st	properties and end uses of – Spandex, Carbon
	2nd	properties and end uses of – Aramid fibres, Glass, PBI

3rd

Class for revision.



Signature of Lecturer, Textile Engg.



Signature of HOD, Textile Engg.



Signature of Academic Co-ordinator