

LESSON PLAN

SUB: Textile Testing-I(Theory)

BRANCH: - TEXTILE ENGG.


SEMESTER: 3rd

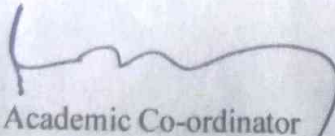
SESSION:2025-26


NAME OF FACULTY: Shreepati Sundar Upadhyay (Lect.S-II, Textile Tech.)



GOVERNMENT POLYTECHNIC, BHADRAK


Academic in-charge,
Textile Engg. Dept

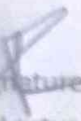

Academic Co-ordinator
Govt. Polytechnic, Bhadrak


Principal
Govt. Polytechnic, Bhadrak


LESSON PLAN
DEPARTMENT OF TEXTILE ENGG, GOVT. POLYTECHNIC, BHADRAK
SUBJECT: Textile Testing- I Periods: 3 per week SEMESTER: 3rd
NAME OF FACULTY: S.S UPADHYAY ACADEMIC YEAR: 2025-2026
Semester From date: 14.7.2025 To Date: 15.11.2025 No. of weeks: 15

Week	Class Day	Theory / Practical Topics
1st	1st	Introduction to textile testing, properties of fibres, yarns and fabrics .
	2nd	properties of fibres, yarns and fabrics
	3rd	Introduction of ISO.
2nd	1st	Introduction of ISO
	2nd	Class for revision.
	3rd	Definition of sample, sample size,
3rd	1st	selection procedure of sample for fibre testing,
	2nd	selection procedure of sample for fibre testing,
	3rd	Selection procedure of sample for yarn testing
4th	1st	Selection procedure of sample for yarn testing
	2nd	Selection procedure of sample for Fabric testing
	3rd	Selection procedure of sample for Fabric testing
5th	1st	Introduction to quality control
	2nd	Accuracy of measurement, presentation and analysis of data,
	3rd	Measures of dispersion –mean deviation ,standard deviation
6th	1st	CV%
	2nd	Role of Humidity–Absolute Humidity, Relative Humidity, Standard atmospheric condition.
	3rd	moisture Regain, Moisture content. Moisture Hysteresis Curve analysis
7th	1st	Humidity and its Relation to Textile materials,
	2nd	Class for revision.
	3rd	Fibre Length (mean length, effective length and staple length. Span Length
8th	1st	Use of Baersorter- principles of operation
	2nd	Use of Fibrograph- principles of operation
	3rd	Measurement of fiber fineness by air flow methods
9th	1st	Maturity of cotton by caustic soda method.
	2nd	H.V.I. (High Volume Instruments)
	3rd	AFIS (Advance fibre Instruments System)
10th	1st	Class for revision.
	2nd	Class for revision.
	3rd	Class for revision.
11th	1st	Define the term, stress ,strain ,tenacity ,breaking length ,elastic limit
	2nd	elastic limit
	3rd	creep, crimp ,initial modulus
12th	1st	Stress-Strain Curve Analysis.
	2nd	Stress-Strain Curve Analysis.
	3rd	Fiber strength testing by Pressely strength tester

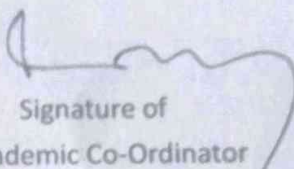
13th	1st	Fiber strength testing by Pressely strength tester
	2nd	Fiber strength testing by stelometer.
	3rd	Fiber strength testing by stelometer.
14th	1st	Class for revision.
	2nd	Definition of yarn count & various yarn numbering system.
	3rd	Definition of yarn count & various yarn numbering system.
15th	1st	Determination yarn count by Wrap Reel & Weighing Balance
	2nd	Determination yarn count by Wrap Reel & Weighing Balance
	3rd	Class for revision.


Signature of
Lecturer

Textile Engg.Dept


Signature of
Academic in-charge

Textile Engg.Dept


Signature of
Academic Co-Ordinator

Govt.Polytechnic,Bhadrak