

# LESSON PLAN

**SUB: Textile Testing-I(Theory)**

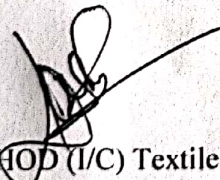
**BRANCH: - TEXTILE ENGG.**

**SEMESTER: 5<sup>th</sup>**

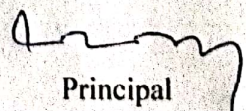
**NAME OF FACULTY: Shreepati Sundar Upadhyay (Lect. Textile Tech.)**



**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: Textile Testing- I Periods: 3 per week SEMESTER: 5th**

**NAME OF FACULTY: S.S UPADHYAY 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	1st	Sampling and methods of Sampling.
	2nd	Sampling and methods of Sampling.
	3rd	Selection procedure of sample for fibre, yarn and Fabric testing
2nd	1st	Selection procedure of sample for fibre, yarn and Fabric testing
	2nd	Process of determination of trash context of cotton fibre.
	3rd	Process of determination of trash context of cotton fibre.
3rd	1st	Classification and tabulation of data, Measures of dispersion -mean deviation ,standard deviation , C.V.% .
	2nd	Classification and tabulation of data, Measures of dispersion -mean deviation ,standard deviation , C.V.% .
	3rd	Classification and tabulation of data, Measures of dispersion -mean deviation ,standard deviation , C.V.% .
4th	1st	Class for revision.
	2nd	Humidity and its Relation to Textile materials, processes & machines .
	3rd	Absolute and relative humidity ,Standard atmospheric condition.
5th	1st	Moisture content and Moisture regain and their measurement.
	2nd	Moisture hysteresis curve analysis.
	3rd	Class for revision.
6th	1st	Purpose of Measurement, uses and classification of different fiber dimensions.
	2nd	Purpose of Measurement, uses and classification of different fiber dimensions.
	3rd	Purpose of Measurement, uses and classification of different fiber dimensions.
7th	1st	Different types of Length of fibers.
	2nd	Different types of Length of fibers.
	3rd	Measurement of fiber length by Baer Shorter, Fibrograph etc.
8th	1st	Measurement of fiber length by Baer Shorter, Fibrograph etc.
	2nd	Measurement of fiber length by Baer Shorter, Fibrograph etc.
	3rd	Fibre fineness and maturity, measurement of fibre fineness and maturity by Caustic Soda method and air flow method.
9th	1st	Fibre fineness and maturity, measurement of fibre fineness and maturity by Caustic Soda method and air flow method.
	2nd	Fibre fineness and maturity, measurement of fibre fineness and maturity by Caustic Soda method and air flow method.
	3rd	Brief ideas on HVI (High Volume Instrument) & AFIS (Advance fibre Instruments System)
	1st	Brief ideas on HVI (High Volume Instrument) & AFIS (Advance fibre Instruments System)

10th	2nd	Brief Ideas on HVI (High Volume Instrument) & AFIS (Advance fibre Instruments System)
	3rd	Class for revision.
	1st	Definition of the term, stress, strain, tenacity, breaking length, elastic limit, creep, crimp, initial modulus as applied to textile material.
11th	2nd	Definition of the term, stress, strain, tenacity, breaking length, elastic limit, creep, crimp, initial modulus as applied to textile material.
	3rd	Definition of the term, stress, strain, tenacity, breaking length, elastic limit, creep, crimp, initial modulus as applied to textile material.
	1st	Methods of measurement of strength of single fibre & Bundle fibre.
12th	2nd	Methods of measurement of strength of single fibre & Bundle fibre.
	3rd	Methods of measurement of strength of single fibre & Bundle fibre.
	1st	Working of Stelometer.
13th	2nd	Working of Stelometer.
	3rd	Working of Stelometer.
	1st	Class for revision.
14th	2nd	Definition of yarn count & various yarn numbering system.
	3rd	Definition of yarn count & various yarn numbering system.
	1st	Determination yarn count by different tools.
15th	2nd	Determination yarn count by different tools.
	3rd	Class for revision.

Signature of  
Lect. Textile Engg.

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