

LESSON PLAN

DEPARTMENT OF TEXTILE TECHNOLOGY, ITT, CHOUDWAR

SUBJECT: TEXTILE TESTING-II **Periods:** 4 per week **SEMESTER:** 6th

NAME OF FACULTY: GOUTAMA BHATTACHARYA

No. of weeks/Sem as per SCTE&VT, Odisha Textile Tech/ Engg Syllabus: 15

Week	Class Day	Theory / Practical Topics
1st	1 st	Introduction
	2 nd	State the twist in single and ply yarns
	3 rd	State the twist in single and ply yarns
	4 th	Explain factor and its relation to yarn structure
2 nd	1 st	Explain factor and its relation to yarn structure
	2 nd	Explain factor and its relation to yarn structure
	3 rd	Describe yarn diameter measurement and its relation with yarn count
	4 th	Describe yarn diameter measurement and its relation with yarn count
3 rd	1 st	Describe yarn diameter measurement and its relation with yarn count
	2 nd	Class for any shortfalls/Revision
	3 rd	State & Explain importance and factors affecting yarn strength
	4 th	State & Explain importance and factors affecting yarn strength
4 th	1 st	State & Explain importance and factors affecting yarn strength
	2 nd	Describe measurement of single yarn strength and Lea strength
	3 rd	Describe measurement of single yarn strength and Lea strength
	4 th	Describe measurement of single yarn strength and Lea strength
5 th	1 st	Brief idea on CRT, CRL & CRE
	2 nd	Brief idea on CRT, CRL & CRE
	3 rd	State & Explain different principles of Textile Testing: Pendulum Spring
	4 th	State & Explain different principles of Textile Testing: Pendulum Spring
6 th	1 st	State & Explain different principles of Textile Testing: I.P. tester
	2 nd	State & Explain different principles of Textile Testing: I.P. tester
	3 rd	State & Explain different principles of Textile Testing: Strain gauge
	4 th	State & Explain different principles of Textile Testing: Strain gauge
7 th	1 st	Class for any shortfalls/Revision
	2 nd	Discuss Short term, long term and medium term variation and their causes
	3 rd	Discuss Short term, long term and medium term variation and their causes
	4 th	Define Index of irregularity
8 th	1 st	Nature and causes of irregularities
	2 nd	Explain methods of assessing yarn irregularity by Visual cutting and weighting
	3 rd	Explain methods of assessing yarn irregularity by Visual cutting and weighting
	4 th	Explain methods of assessing yarn irregularity by Visual cutting and weighting
9 th	1 st	photoelectric methods
	2 nd	capacitance methods
	3 rd	capacitance methods
	4 th	Define Yarn Hairiness
10 th	1 st	Explain ASTM Yarn grading
	2 nd	Classimat yarn faults
	3 rd	Class for any shortfalls/Revision
	4 th	Class for any shortfalls/Revision
11 th	1 st	Explain measurement of Dimensions and Physical Properties of Fabrics

	2 nd	Explain measurement of Dimensions and Physical Properties of Fabrics
	3 rd	Determination of fabric dimension properties like Thickness
	4 th	Determination of fabric dimension properties like weight, shrinkage
12 th	1 st	Determination of fabric dimension properties like air permeability
	2 nd	Determination of fabric dimension properties like water permeability
	3 rd	Determination of fabric dimension properties like crimp.
	4 th	Determination of fabric dimension properties like stiffness
13 th	1 st	Determination of fabric dimension properties like drape
	2 nd	Determination of fabric dimension properties like drape
	3 rd	Determination of fabric dimension properties like fabric handle
	4 th	Determination of fabric dimension properties like fabric fabric cover
14 th	1 st	Determination of fabric dimension properties like crease recovery
	2 nd	Class for any shortfalls/Revision
	3 rd	Class for any shortfalls/Revision
	4 th	Determination of tensile strength(Strip & Grab test)
15 th	1 st	Tearing Strength
	2 nd	Bursting Strength of cloth
	3 rd	Explain abrasion resistance and pilling
	4 th	Class for any shortfalls/Revision