LESSON PLAN

DEPARTMENT OF TEXTILE TECHNOLOGY I. T.T CHOUDWAR

Subject: yarn manufacture-III Semester: 5th Periods: 4/week

Name of Faculty: Sri Rajiblochana Sahoo

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

Week	Class Day	Theory / Practical Topics
1st	1 st	Revision of YM-II
	2 nd	Purpose of ring spinning
	3 rd	Study of passage of material in R/F
	4th	Study of different parts and functions of R/F
2 1	1 st	Concept of modern drafting system in R/F
2nd	2 nd	Top roller weighting system, top covering and mounting
	3 rd	Roller setting in R/F
	4th	Concept of spinning triangle, cots and aprons
	1 st	Study of rings and travelers
3rd	2 nd	Study of function, size of rings and flange number, running in of rings
	3 rd	Study of traveler, types, traveler number
	4th	Selection of proper traveler, factors affecting traveler
. 41.	1 st	Concept of twist in R/F and winding
4 th	2 nd	Study of driving mechanism in R/F
	3rd	Study of build of bobbin, building motion in R/F
	4th	End break aspiration data monitoring, piecing device
_ th	1 st	Study of end breakage rate and ballooning in R/F
5 th	2 nd	Study of ring data, automatic doffing
	3rd	Special attachment like, auto doffing and pneumatic loading
	4th	Study of gearing diagram in R/F
	1 st	Speed calculation in R/F
6 th	2nd	Mantainace schedule in R/F
0	3rd	Cost minimization and production efficiency in R/F
	4th	Brief idea on compact spinning
7 th	1 st	Principles and concept of doubling
/	2 nd	Concept of wet and dry doubling, methods of threading
	3rd	Study of creels, building motion, spindles in doublers

[4th	Concept of balanced twist in ring doublers
8 th	1 st	Twist in double yarn and its relation to single yarn
	2nd	Twist calculation
	3rd	Study of TFO
	4th	Contd TFO
o th	1 st	Study of fancy doubler and fancy yarns
9 th	2 nd	Study of different types of yarn
9 th	3 rd	Concept of cable yarn and cord yarn its uses
	4th	Doubt clearing/ short fall class.
- +1-	1 st	Need of modern spinning system
10 th	2 nd	Wo k ng mechanism of rotor spinning
	3 rd	Study of friction spinning system
	4th	Production calculation
41.	1 st	Mantainnee schedule
1 1 th	2 nd	Gearing diagram
	3 rd	Concept of air jet spinning
	4th	Study of twist less spinning
41.	1 st	Brief idea on self twisted yarn
12 th	2 nd	Study of Siro spinning
-	3 rd	Calculation related to modern spinning
	4th	Calculation related to modern spinning
13 th	1 st	Defects and remedies
15	2 nd	Comparative study different spinning system
	3 rd	Concept of woolen spinning
Ī	4th	Wool opening, cleaning and carding operation
	1 st	Woolen spinning and worsted spinning system
1.4th	2 nd	Outline of Bradford and Continental system
14 th	3 rd	Concept of worsted card and semi worsted card
	4th	Study of Gill box concept
.1	1 st	Study of filament yarn
15 th	2 nd	Brief study on worsted D/F, R/F and finisher R/F
	3 rd	Yarn quality parameter analysis
-	4th	Doubt clearing/ Revision