

Daffodil Polytechnic Institute, Institute Code: 50238

Subject Teacher	: Md. Obydullah Al Masum
Subject Name	: Advanced Short Staple Spinning
Subject Code	: 1972
Technology	: Textile Technology
Semester	: 7th Textile
Reference Book	: Advanced Short Staple Spinning (Publisher: Prime Publication)

Marks	Grad e	Letter Grad	Mark	Grad e	Letter	Time Distribution (90min)		
	Point	e	5	Point	Grade	Grade	Particular	Time
80>	4.00	A+	55-59	2.75	B-	Greeting with students		5 Min
75-79	3.75	Α	50-54	2.50	C+			
70-74	3.50	A-	45-49	2.25	С	Previous class		10 Min
65-69	3.25	B+	40-44	2.00	D	Present class	lecture	60 Min
60-64	3.00	В	0-39	0.00	F	Feedback Attendance		10 Min 5 Min

THEORY LESSON PLAN

Cha pter	Learning Area	Learning Outcome	Supporting Equipments
1.	Understand the Concept of modern spinning machinery from Blow room to Ring frame. 1.1 State the name and function of machineries used in modern Blow room. 1.2 Describe the modern development of Carding machine. 1.3 Discus the development of drawing frame. 1.4 Describe the point to development in computerize Simplex and Ring frame.	 To know about modern Spinning machineries from blow room To know the modern development of carding machine, development of drawing machine, development in computerised simplex ring frame 	Text Book, marker& Link:
2	Understand the polyester and cotton blended yarn processing.	1) To know about blended yarn	Text book, marker &

	 2.1 State the importance of blended yarn 2.2 State the properties of fibres considered for p/c blended yarn. 2.3 Mention the blending ratio of polyester & cotton for different count of p/c blended yarn 2.4 Show the flow chart of p/c blended yarn production. 2.5 Learn the blended test. 2.6 Mention the necessary changes/works to be done for p/c blended yarn production from blow room section to ring frame 2.7 Solve the relevant problems of p/c blended yarn production. 	 2) To know blending ratio of polyester and cotton for PC blended yarn 3)To learn the blended taste 4) To know the necessary changes to be done for PC blended yarn production 	Link:
	Quiz Test - 1 Date:	Evaluation of Chapter- 1 & 2	Questions & answers script
3	Understand viscose cotton blended yarn. 3.1 Mention the flow chart of viscose cotton blended yarn production. 3.2 Discus the different of p/c & v/c blending process. 3.3 List the properties of viscose- cotton blended yarn. 3.4 Describe merits and demerits, uses of viscose- cotton blended yarn.	 To Know the flowChart of Viscose cotton blended yarn production To know the properties of viscous-cotton blended earn To know the merits and demerits, uses of viscous-cotton blended 	Text Book, Marker & Link:
4	 Understand Core yarn spinning. 4.1 Define core spun yarn. 4.2 Discuss the method of manufacturing core-spun yarn by Ring frame. 4.3 Mention the raw material requirements for corespun yarn. 4.4 Describe the application of core-spun yarn. 4.5 State the properties of core yarn. 	 To know about core spun yarn To know the method of manufacturing core spun yarn by ring frame To know the application of core spun yarn and properties of core yarn 	Text Book, Marker & Link:
	Class Test - 1 Date:	Evaluation of Chapter- 3 & 4	Questions & answers script
5	Understand open end spinning. 5.1 Define the open end spinning.	1) To know the open end spinning,Flowchart of	Text Book, Marker & Link:

	 5.2 Mention the flow chart of open end spinning. 5.3 Discuss briefly the following modern spinning system. a). Air Jet spinning. b). Votex spinning c). Electrostatic spinning. d). Friction spinning. 	open end spining 2) To know about Air jet spinning, vortex spinning, electrostatic spinning and friction spinning		
Μ	ID TERM EXAM - (Exam starts from March 01)	Syllabus: Chapter 1-5		
6	 Understand Rotor spinning. 6.1 State Rotor spinning. 6.2 Discuss working principle of Rotor spinning. 6.3 Mention the merit & demerits of Rotor spinning. 6.4 Define Rotor deposit. 6.5 Describe the minimize of Rotor deposit. 6.6 Solve the relevant problems of rotor spinning. 6.7 Mention compare the Rotor yarn with Ring yarn. 	 To Know about rotor spinning and working Principal of rotor spinning. To know the merits and demerits of rotor spinning To compare the rotor yarn with ring year 	Text book,, Marker & Link:	
7	Understand about modern yarn product. 7.1 Discus the fancy yarn Manufacturing process. 7.2 Discus the mélange yarn Manufacturing process. 7.3 Discus the slub yarn production process. 7.4 Discus the compact yarn production process.	1)To know the Fancy yarn manufacturing process, slub yarn production process compact yarn production process melange yarn production process	Text book, Marker & Link:	
	Quiz Test - 2 Date:	Evaluation of Chapter- 6 & 7	Questions & answers script	
8	 Understand spin plan 8.1 State the importance of spin plan 8.2 Mention the factors to be considered for calculation spin plan. 8.3 State parameters, types of parameters and value of different parameters for different count and systems (conventional, modern) 8.4 Prepare spin plan for different count 2 system (conventional, modern) 	1) To know about importance of spin plan,parameters, types of parameters and value of different parameters for different count and system	Text book, Marker & Link:	

9	Understand process control. 9.1 State the waste control of short spinning process. 9.2 State types of wastage produce in cotton spinning process. 9.3 Recycling wastage produce in cotton spinning process.	 To know about waste control of short spinning process To know recycling wastage processs in Spinning Mill 	Text book, Marker & Link:	
	Class Test - 2 Date:	Evaluation of Chapter- 8 & 9	Questions & answers script	
10	Understand the yarn production cost. 10.1 Define costing. 10.2 Classify the different types of cost involve in spinning mill. 10.3 Analysis the fixed cost, variable cost, of spinning mill. 10.4 Calculate the break-even point of spinning mill.	 To know about yarn production cost, fixed cost, variable cost of a spinning mill To calculate the break even point of spinning mill 	Marker, Text Book & Link:	
Subm	nission of Assignment or Presentation (All Chapters)	Date:		
Total Class & Quiz Tests: 4		Total Class: 30		

PRACTICAL LESSON PLAN

- 1. Draw the Rotor spinning m/c. and indicate the different part.
- 2. Draw the Air Jet spinning m/c. and indicate the different part.
- 3. List the change places from blow room to Ring frame.
- 4. Sketch and show core yarn cross-section.
- 5. Sketch and show the slub yarn parameter.