		Daf	fod	4	
Mark 1	Grade Point	offy Grad	tech Marks	Fride Point	Letter Grade
D P	1 0	A+	55-59	2.75	B-
75-79	3.75	Α	50-54	2.50	C+
70-74	3.50	A-	45-49	2.25	С
65-69	3.25	B+	40-44	2.00	D
60-64	3.00	В	0-39	0.00	F

Daffodil Polytechnic Institute, Institute Code: 50238

Lesson Plan – Academic session: November 21 to April 2022

Subject Teacher : Muhammad Zayedul Haque

Subject Name : Textile Testing & Quality Control- 1

Subject Code : 1944
Technology : Textile
Semester : 4th

Reference Book : Textile Testing & Quality Control- 1 (RS Prokashani)

Mark Distribution (for 150 Marks)					
Theory Marks Practical Marks					
Midterm	10	PC	25		
Class test	05	PF	25		
Quiz test	05	-	-		
Final	80	-	-		
Total	100	Total	50		

Subject Aims:

Basic aspects of textile testing, humidity, moisture in textiles, sampling, identification of textile fibers, fiber length & its measurement, fiber strength & its measurement, Trash, naps & their measurement, fiber fineness & its measurement, micromere value, fiber maturity

Subject Outcome:

Students will be understood with an opportunity to acquire knowledge & skill about Testing, Techniques & System of Testing. Operating system of different modern Testing instruments, Interpretation & Analysis of testing data uses & Maintenance of testing instruments.

REFERENCE BOOK

- 1. Textile Testing J.E. booth.
- 2. Textile Testing-R. Gopalakrysnan.
- 3. Manual for Textile Testing- sitra.
- 4. ‡Uw÷s Ae †U·UvBj-Av. K. g dwi`yj AvRv` ‡U·UvBj †Uw÷s- BwÄwbqvi †gvt gwReyi ingvb

Lecture	Chapter	Learning Area	Learning Outcome	Supporting Equipment's
01	Understand the Basic aspect of textile testing	 ✓ What is a general testing? ✓ Then, define Textile Testing. ✓ Why do you do textile testing? ✓ You mention yourself the objects of textile testing. ✓ State the factors affecting test results. ✓ List the name of tests for fiber, yarn & fabric. 	 Student will be able to gain basic things of textile testing, factors affecting test results, Name of tests for fiber, yarn & fabric. Student will understand the factors affecting test results and tests for fiber, yarn & fabric. 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=1xG2QxQ zki0

Lecture	Chapter	Learning Area	Learning Outcome	Supporting Equipment's
02	Understand Humidity & its measurement.	 Think about dew and air. Try to point out about humidity, relative humidity, absolute humidity. Standard atmosphere, testing atmosphere, conditioning. Discuss the effect of humidity on textile. 	 Student will be able to gain basic things of humidity, relative humidity, absolute humidity. Name of tests for fiber, yarn & fabric. Student will understand the factors affecting test results and tests for fiber, yarn & fabric. 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=cB3Zgeeh LCE
03	Understand Humidity & its measurement.	 ✓ Describe the working principles of humidity measuring instrument, such as wet & dry bulb hygrometer. ✓ Discuss different machines used to measure the humidity of textile materials by drying oven, moisture meter 	 Student will be able to gain basic things of textile testing, factors affecting test results, How to test for fiber, yarn & fabric. Student will understand the Standard atmosphere, testing atmosphere, conditioning 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=cB3Zgeeh LCE
04	Quiz Test	Chapter 01 and 2 (Theoretically based)	Understand the chapter 1 & 2.	Exam paper, Printed question paper etc.
05	PRACTICAL	Humidity measurement by wet & dry bulb hygrometer	 Student will be able to know how to Measure Humidity measurement by wet & dry bulb hygrometer. Student will be capable of mastering Humidity measurement 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=90jKxRso 27Y

Lecture	Chapter	Learning Area	Learning Outcome	Supporting Equipment's
06	Understand moisture in textile.	 ✓ Let's differentiate between Humidity and Moisture. ✓ Define moisture content, moisture regain, absorption, desorption, hysteresis effect. ✓ Mention the MC & MR of some important textile fibers (natural & man-made). ✓ Show the differences between them. ✓ Determine the factors affecting regain of textile materials. 	 ✓ To know about basic things of moisture content, moisture regain, absorption, desorption, hysteresis effect, Mention the MC & MR and factors affecting regain of textile materials ✓ Student will be capable of knowing about MC & MR of some important textile fibers (natural & man-made). ✓ To be able to determine the factors affecting regain of textile materials. 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=ot9Lgqjuz Xc https://www.youtube.c om/watch?v=90jKxRso 27Y
07	Review class	Chapter:01,02&03 (Regarding students' problem)	Reviewing the Chapter according to student's problem.	White Board, MarkerProjector showing-Slide Share
08	Class Test	Chapter 1, 2 & 3 (Theoretically based)	Understand the chapter 1, 2 & 3	Exam paper, Printed question paper etc.
09	PRACTICAL	Measurement of humidity of textile material by drying oven	 Student will be able to know how to Measure humidity of textile material by drying oven. Student will be capable of mastering Measurement of humidity 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=ot9Lgqjuz XC

Lecture	Chapter	Learning Area	Learning Outcome	Supporting Equipment's
10	Understand Sampling.	 ✓ What is sample? ✓ What would be sampling? ✓ State the necessity of sampling. ✓ Describe the factors influencing sampling method. ✓ Discuss different fiber sampling method. ✓ define sampling scheme for HVI & AFIS testing 	 ✓ To be able to define sample and sampling. ✓ Students can describe the factors influencing sampling method, sampling method. ✓ To know about basic things of sampling, sampling method and HVI & AFIS testing 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=pTuj57uX Wlk
11	Understand Identification of textile fiber.	 What is identification? What is fiber identification? Explain the necessity of fiber identification. State the methods of sample preparation for identification. Describe different identification process for fiber. 	 ✓ Student will be able to identify fiber. ✓ Name of tests for fiber, yarn & fabric. ✓ Student will understand the factors affecting necessity of fiber identification for fiber, yarn & fabric. ✓ To realize the different identification process for fiber. 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=RhWBmi qcTE bangle https://www.youtube.c om/watch?v=kb4tCcnA 6jo English
12	Review class	Chapter:04,05 (Regarding students' problem)	Reviewing the Chapter according to student's problem.	White Board, MarkerProjector showing-Slide Share
13	Class Test ₊ Quiz Test	Chapter 04 &05 (Theoretically based)	Understand the chapter 4 & 5.	Exam paper, Printed question paper etc.

Lecture	Chapter	Learning Area	Learning Outcome	Supporting Equipment's
14	PRACTICAL	Fiber identification by (1) Microscopic test (ii) Burning test (iii) Chemical test	 ✓ Student will be able to know how to identify the fiber by (1) Microscopic test (ii) Burning test (iii) Chemical test ✓ Student will be capable of mastering Fiber identification 	 White Board, Marker Projector showing- Slide Share https://www.youtube.com/watch?v=RhWBmiqcTE bangle https://www.youtube.com/watch?v=kb4tCcnA6jo English
15	Understand fiber length & its measurement.	 ✓ Think about your length. ✓ Define fiber length. ✓ Why fiber length significant? ✓ State the importance of fibre length. ✓ Define the term: Staple length, effective length, mean length, modal length, spun length, floating fiber percentage, uniformity ratio. ✓ Describe the methods of fiber length measurement by conventional & modern instruments, such as comb sorter, digital fibro graph, HVI, AFIS 	 ✓ To know about basic things of fibre length, Staple length, effective length, mean length, modal length, spun length, floating fiber & digital fibro graph, HVI, AFIS. ✓ Can describe the length measurement by conventional & modern instruments, such as comb sorter, digital fibro graph. ✓ Student can define: Staple length, effective length, mean length, modal length, spun length, floating fiber percentage, uniformity ratio. 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=gm4DVkq iQGM

Lecture	Chapter	Learning Area	Learning Outcome	Supporting Equipment's
16	Review class	Chapter:01,02&03 (Regarding students' problem)	Reviewing the Chapter according to student's problem.	White Board, MarkerProjector showing-Slide Share
17	Review class	Chapter:04,05&06 (Regarding students' problem)	Reviewing the Chapter according to student's problem.	White Board, MarkerProjector showing-Slide Share
18	Understand fiber strength & its measurement.	 ✓ Say the importance of fiber strength. ✓ Mention the factors influencing fiber strength. ✓ Describe the methods of fiber strength measurement by pressley fiber bundle strength tester & stelometer. 	 ✓ To be able to know about basic things of fiber strength, factors influencing fiber strength and fiber strength measurement by pressley fiber bundle strength tester & stelometer ✓ Student can understand the description of pressley fiber bundle strength 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=Hj4a8RAH nOs
19	Quiz Test	Chapter 07 (Theoretically based)	Understand the Chapter 06.	Exam paper, Printed question paper etc.
20	Understand Trash, Neps & Their measurement	 ✓ Define trash & Neps. ✓ Discus the necessity of trash & neps measurement. 	✓ Student can perceive about basic thing trash & Neps and necessity of trash & neps measurement	 White Board, Marker Projector showing- Slide Share

Lecture	Chapter	Learning Area	Learning Outcome	Supporting Equipment's
21	PRACTICAL	Fiber length measurement by (i) Comb-sooter	 ✓ Student will be able to know how to measure the fiber strength by Comb-sooter. ✓ Student will be capable of mastering fiber strength measurement. 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=gm4DVkq iQGM
22	Review class	Chapter:07&08 (Regarding students' problem)	Reviewing the Chapter according to student's problem.	White Board, MarkerProjector showing-Slide Share
23	Class Test	Chapter 07 & 08 (Theoretically based)	Understand the Chapter 06 & 07	Exam paper, Printed question paper etc
24	Understand linear density or fiber fineness.	 ✓ Define fiber linear density. ✓ Discuss the importance of fiber fineness measurement. ✓ Describe different methods & instruments for fiber fineness measurement. 	 ✓ Students can define the linear density, importance of fiber fineness measurement & different methods & instruments for fiber fineness measurement. ✓ They will be able to know the importance of different methods & instruments for fiber fineness measurement. 	 White Board, Marker Projector showing- Slide Share https://www.youtube.com/watch?v=3n4xWrq SHyM
25	Quiz Test	Chapter 09 (Theoretically based)	Understand the Chapter 09.	Exam paper, Printed question paper etc.
26	Understand Micron ire	✓ State micron ire value & fiber maturity.	✓ To Know about the micron ire value & fiber maturity &	White Board, MarkerProjector showing-Slide Share

Lecture	Chapter	Learning Area	Learning Outcome	Supporting Equipment's
	value & fiber maturity.	✓ Explain the importance of micron ire value & fiber maturity	importance of micron ire value & fiber maturity	
27	PRACTICAL	Fiber strength measurement by (i) Pressley bundle strength tester	 Student will be able to know how to measure the fiber strength by this machine. Student will be capable of mastering fiber strength measurement. 	 White Board, Marker Projector showing- Slide Share https://www.youtube.c om/watch?v=Hj4a8RAH nOs
28	Understand Micron ire value & fiber maturity.	 Classify cotton fiber according to mic value. Discuss the maturity measurement method. 	To Know about the cotton fiber according to mic value and maturity measurement method.	Exam paper, Printed question paper etc.
29	Class Test	Chapter 09 & 10 (Theoretically based)	Understand the Chapter 09 & 10	Exam paper, Printed question paper etc.
30	Review class	Chapter: 01, 02&03. (Regarding students' problem)	Reviewing the Chapter according to student's problem.	White Board, MarkerProjector showing-Slide Share
31	Review class	Chapter: 04,05 &06 (Regarding students' problem)	Reviewing the Chapter according to student's problem.	White Board, MarkerProjector showing-Slide Share
32	Review class	Chapter: 07,08,09 &10 (Regarding students' problem)	Reviewing the Chapter according to student's problem.	White Board, MarkerProjector showing-Slide Share

Lecture	Chapter	Learning Area	Learning Outcome	Supporting Equipment's
33	Model Test	Chapter: 1-10 (Theory based)	Reviewing the all syllabus.	Exam paper, Printed question paper etc.