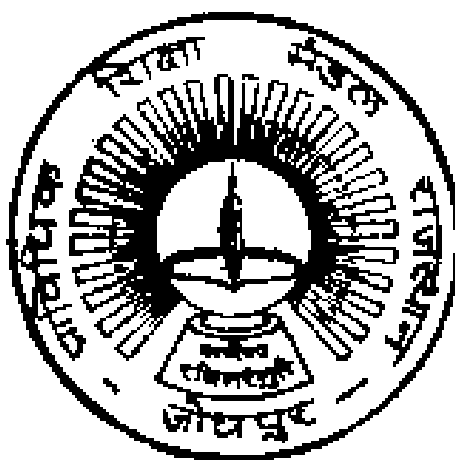


GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN
JODHPUR

SEMESTER SCHEME-2020-21

(SESSION 2021-2022 & ONWARDS)



TEACHING AND EXAMINATION SCHEME
AND SYLLABUS

FASHION AND TEXTILE DESIGN

(FT)

.....
Curriculum Development Cell
Board of Technical Education, Rajasthan
W-6 Residency Road,
Jodhpur

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME
FOR DIPLOMA I SEMESTER (FASHION AND TEXTILE DESIGN) (FT)
SESSION 2020-2021 & ONWARDS

Subject Code	Subject	Distribution of Time				Distribution of Max. Marks/ Duration							Total Marks	Credits
		Hours per week				End Semester Exam.				Internal Assessment				
		L	T	P	Tot	TH	Hrs.	PR	Hrs.	CT	TU	PR(S)		
*FT 1001	Communication Skills in English-I	1	--	--	1	60	3	--	--	40	--	--	100	1.0
*FT 1002	Computer Applications-I	2	--	--	2	60	3	--	--	40	--	--	100	2.0
^s FT 1003	Introduction to Textiles-I	3	--	--	3	60	3	--	--	40	--	--	100	3.0
^s FT 1004	Fundamental Theory of Textile Design-I	1	-	-	1	60	3	--	--	40	--	--	100	1.0
^s FT 1005	Introduction of Textile Art and Craft Lab	-	--	4	4	--	--	40	6	-	--	60	100	2.0
^s FT 1006	Sketching & Drawing-I Lab	-	-	6	6	-	--	40	6	--	--	60	100	3.0
^s FT 1007	Basics of Designing -I Lab	-	-	5	5	--	--	40	6	--	--	60	100	2.5
*FT 1008	Communication Skills in English-I Lab	--	--	2	2	--	--	40	3	--	--	60	100	1.0
*FT 1009	Computer Applications-I Lab	--	--	3	3	--	--	40	3	--	--	60	100	1.5
^s FT 1010	Introduction to Textiles-I Lab	--	--	1	1	--	--	40	3	--	--	60	100	0.5
^s FT 1011	Fundamental Theory of Textile Design-I Lab	-	-	5	5	--	--	40	6	--	--	60	100	2.5
*FT 1111	Anandam (Joy of Giving)	-	--	1	1	--	--	--	--	--	--	100	100	2.0
	Students Centered Activities	-	--	2	2	--	--	--	--	--	--	--	--	-
	Total	7	--	29	36	240		280		160		520	1200	22.0

Grand Total : 1200 22.0

- | | |
|--|---|
| 1. L : Lecture | 5. PR : Marks for End Semester Exam for Practical |
| 2. T : Tutorial | 6. CT : Marks for class tests (Internal Assessment) |
| 3. P : Practical | 7. TU : Marks for tutorials (Internal Assessment) |
| 4. TH : Marks for End Semester Exam for Theory | 8. PR(S) : Marks for practical and viva (Internal Assessment) |

1*FT 1001,* FT 1002, * FT 1008 , * FT 1009 and *FT 1111 are same in all Branches of Non Engineering.

2. ^sFT 1003, ^s FT 1004, ^sFT 1005 , ^sFT 1006 , ^sFT 1007 , ^s FT 1010 and ^sFT 1011 are same in TD 1003, TD 1004, TD 1005 , TD 1006 , TD 1007 , , TD 1010 and TD 1011 respectively

Two weeks Induction Programme for students to be offered right at the start of First Semester.

Induction Programme includes 1. Creative Arts 2. Universal Human Values 3. Literary 4. Proficiency Modules 5. Lectures by Eminent Persons 6. Visits to City / Nearby Industries 7. Familiarization to Department / Branch / Exhibition room.

Anandam (Joy of Giving): In addition to the practical of one hour every week, students will have to do activities at home and college after college hours.

Students Centered Activities include 1. Expert lectures/ practice sessions on technical topics of common interest 2. Personality development 3. Human values

4. Industrial visits 5. Art of living 6. Environmental issues 7. Quiz programs 8. Interview techniques 9. Greening and cleaning of campus etc.

Student Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning.

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME
FOR DIPLOMA **II SEMESTER (FASHION AND TEXTILE DESIGN) (FT)**
SESSION 2020-2021 & ONWARDS

Subject Code	Subject	Distribution of Time				Distribution of Max. Marks/ Duration						Total Marks	Credits	
		Hours per week				End Semester Exam			Internal Assessment					
		L	T	P	Tot	TH	Hrs.	PR	Hrs.	CT	TU			PR(S)
*FT 2001	Communication Skills in English-II	1	--	--	1	60	3	--	--	40	--	--	100	1.0
*FT 2002	Computer Applications-II	2	--	--	2	60	3	--	--	40	--	--	100	2.0
\$FT 2003	Introduction to Textiles-II	3	-	-	3	60	3	--	--	40	--	--	100	3.0
\$FT 2004	Fundamental Theory of Textile Design II	1	-	-	1	60	3	--	--	40	--	--	100	1.0
\$FT 2005	Structural Textile Design-I	2	--	--	2	60	3	--	--	40	--	--	100	2.0
\$FT 2006	Sketching & Drawing-II Lab	-	-	6	6	--	--	40	6	-	--	60	100	3.0
\$FT 2007	Basics of Designing -II Lab	-	-	5	5	-	--	40	6	--	--	60	100	2.5
*FT 2008	Communication Skills in English-II Lab	--	--	2	2	--	--	40	3	--	--	60	100	1.0
*FT 2009	Computer Applications-II Lab	--	--	3	3	--	--	40	3	--	--	60	100	1.5
\$FT 2010	Introduction to Textiles-II Lab	-	-	1	1	--	--	40	3	--	--	60	100	0.5
\$FT 2011	Fundamental Theory of Textile Design II Lab	-	-	5	5	--	--	40	6	--	--	60	100	2.5
\$FT 2012	Structural Textile Design-I Lab	--	--	2	2	--	--	40	3	--	--	60	100	1.0
*FT 2111	Anandam (Joy of Giving)	--	--	1	1	--	--	--	--	--	--	100	100	2.0
	Students Centered Activities	--	--	2	2	--	--	--	--	--	--	--	--	-
	Total	9	--	27	36	300		280		200		520	1300	23.0
Grand Total :												1300	23.0	

1. L : Lecture
2. T : Tutorial
3. P : Practical
4. TH : Marks for End Semester Exam for Theory
5. PR : Marks for End Semester Exam for Practical
6. CT : Marks for class tests (Internal Assessment)
7. TU : Marks for tutorials (Internal Assessment)
8. PR(S) : Marks for practical and viva (Internal Assessment)

1. * FT 2001, * FT 2002, * FT 2008, * FT 2009 and * FT 2111 are same in all Branches of Non Engineering.

2. \$ FT 2003, \$ FT 1004, \$ FT 2005, \$ FT 2006, \$ FT 2007, \$ FT 2010, \$ FT 2011 and \$ FT 2012 are same in TD 2003, TD 2004, TD 2005, TD 006, TD 2007, , TD 2010, TD 2011 and TD 2012 respectively

Anandam (Joy of Giving): In addition to the practical of one hour every week, students will have to do activities at home and college after college hours.

Students Centered Activities include 1. Expert lectures/ practice sessions on technical topics of common interest 2. Personality development 3. Human values

4. Industrial visits 5. Art of living 6. Environmental issues 7. Quiz programs 8. Interview techniques 9. Greening and cleaning of campus etc.

Students Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning.

NOTE: Students will go for one month (24 Working Days) Summer Internship in the Summer Vacations after Second Semester. The Assessment of the Summer Internship will be done in Third Semester.

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME
FOR DIPLOMA III SEMESTER (FASHION AND TEXTILE DESIGN) (FT)
SESSION 2021-2022 & ONWARDS

Subject Code	Subject	Distribution of Time				Distribution of Max. Marks/ Duration							Total Marks	Credits
		Hours per week				End Semester Exam.				Internal Assessment				
		L	T	P	Tot	TH	Hrs.	PR	Hrs.	CT	TU/Assi.	PR(S)		
*FT 3001	Environmental Studies-I	2	--	--	2	60	3	--	--	20	20	--	100	2.0
FT 3002	Traditional Textiles of India - I	4	--	--	4	60	3	--	--	20	20	--	100	4.0
FT 3003	Textile Dyeing-I	4	--	--	4	60	3	--	--	20	20	--	100	4.0
FT 3004	Fashion Studies-I	3	--	--	3	60	3	--	--	20	20	--	100	3.0
FT 3005	Pattern Making & Garments Construction-I Lab	--	--	6	6	--	--	40	6	--	--	60	100	3.0
FT 3006	Traditional Textiles of India- I Lab	--	--	2	2	--	--	40	6	--	--	60	100	1.0
FT 3007	Surface Decoration-I Lab	--	--	3	3	--	--	40	6	--	--	60	100	1.5
FT 3008	Fashion Illustration and Application -I Lab	--	--	2	2	--	--	40	6	--	--	60	100	1.0
*FT 3009	Environmental Studies-I Lab	--	--	2	2	--	--	40	3	--	--	60	100	1.0
FT 3010	Textile Dyeing- I Lab	--	--	2	2	--	--	40	3	--	--	60	100	1.0
FT 3011	Introduction of Textile Art & Craft-II Lab	--	--	3	3	--	--	40	3	--	--	60	100	1.5
FT 3012	Summer Internship-I	--	--	--	--	--	--	100	--	--	--	--	100	2.0
*FT 3333	Anandam (Joy of Giving)	--	--	1	1	--	--	--	--	--	--	100	100	2.0
	Students Centered Activities	--	--	2	2	--	--	--	--	--	--	--	--	--
	Total	13	--	23	36	240	--	380	--	80	80	520	1300	27.0

Grand Total : **1300** **27.0**

- | | |
|--|---|
| 1. L : Lecture | 5. PR : Marks for End Semester Exam for Practical |
| 2. T : Tutorial | 6. CT : Marks for class tests (Internal Assessment) |
| 3. P : Practical | 7. TU/Assi : Marks for tutorials/Assignment (Internal Assessment) |
| 4. TH : Marks for End Semester Exam for Theory | 8. PR(S) : Marks for practical and viva (Internal Assessment) |

*FT 3001, *FT 3009 and *FT 3333 are same in all Branches of Non Engineering

Students Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning.

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME
FOR DIPLOMA IV SEMESTER (FASHION AND TEXTILE DESIGN) (FT)
SESSION 2021-2022 & ONWARDS

Subject Code	Subject	Distribution of Time				Distribution of Max. Marks/ Duration							Total Marks	Credits
		Hours per week				End Semester Exam				Internal Assessment				
		L	T	P	Tot	TH	Hrs	PR	Hrs.	CT	TU/Assi.	PR(S)		
*FT 4001	Environmental Studies-II	2	--	--	2	60	3	--	--	20	20	--	100	2.0
FT 4002	Traditional Textiles of India-II	4	--	--	4	60	3	--	--	20	20	--	100	4.0
FT 4003	Textile Dyeing - II	4	--	--	4	60	3	--	--	20	20	--	100	4.0
FT 4004	Fashion Studies -II	3	--	--	3	60	3	--	--	20	20	--	100	3.0
FT 4005	Pattern Making & Garment Construction-II Lab	--	--	6	6	--	--	40	6	--	--	60	100	3.0
FT 4006	Traditional Textiles of India- II Lab	--	--	3	3	--	--	40	3	--	--	60	100	1.5
FT 4007	Surface Decoration -II Lab	--	--	4	4	--	--	40	6	--	--	60	100	2.0
FT 4008	Fashion Illustration and Application-II Lab	--	--	3	3	--	--	40	6	--	--	60	100	1.5
*FT 4009	Environmental Studies-II Lab	--	--	2	2	--	--	40	3	--	--	60	100	1.0
FT 4010	Textile Dyeing -II Lab	--	--	2	2	--	--	40	3	--	--	60	100	1.0
*FT 4444	Anandam (Joy of Giving)	--	--	1	1	--	--	--	--	--	--	100	100	2.0
	Students Centered Activities	--	--	2	2	--	--	--	--	--	--	--	--	--
	Total	13		23	36	240	--	240	--	80	80	460	1100	25.0
Grand Total :												1100	25.0	

- | | |
|--|---|
| 1. L : Lecture | 5. PR : Marks for End Semester Exam for Practical |
| 2. T : Tutorial | 6. CT : Marks for class tests (Internal Assessment) |
| 3. P : Practical | 7. TU/Assi : Marks for tutorials/Assignment (Internal Assessment) |
| 4. TH : Marks for End Semester Exam for Theory | 8. PR(S) : Marks for practical and viva (Internal Assessment) |

*FT 4001, *FT 4009 and *FT4444 are same in all Branches of Non Engineering

Students Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning.

NOTE: Students will go for 6 weeks Summer Internship in the Summer Vacations after Fourth Semester. The Assessment of the Summer Internship will be done in Fifth Semester.

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME
FOR DIPLOMA V SEMESTER (FASHION AND TEXTILE DESIGN)(FT)
SESSION 2022-2023 & ONWARDS

Subject Code	Subject	Distribution of Time				Distribution of Max. Marks/ Duration							Total Marks	Credits
		Hours per week				End Semester Exam				Internal Assessment.				
		L	T	P	Tot	TH	Hrs.	PR	Hrs.	CT	TU/Assi.	PR(S)		
*FT 5001	Professional Management & Entrepreneurship-I	3	--	--	3	60	3	--	--	20	20	--	100	3.0
** FT 5002	Dynamics of Fashion-I	3	--	--	3	60	3	--	--	20	20	--	100	3.0
FT 5003	Textile Printing-I	4	--	--	4	60	3	--	--	20	20	--	100	4.0
FT 5004	Fashion Studies-III	3	--	--	3	60	3	--	--	20	20	--	100	3.0
FT 5005	Pattern Making & Garments Construction –III Lab	--	--	6	6	--	--	40	6	--	--	60	100	3.0
FT 5006	Textile Printing-I LAB	--	--	3	3	--	--	40	6	--	--	60	100	1.5
FT 5007	Surface Decoration -III LAB	--	--	3	3	--	--	40	6	--	--	60	100	1.5
FT 5008	Fashion Illustration and Application -III Lab	--	--	3	3	--	--	40	6	--	--	60	100	1.5
FT 5009	Computer Aided Design-I Lab	--	--	3	3	--	--	40	6	--	--	60	100	1.5
FT 5010	Summer Internship-II (6 Weeks after IV Semester)	--	--	--	--	--	--	100	--	--	--	--	100	3.0
FT 5011	Project	--	--	2	2	--	--	--	--	--	--	--	--	0.00
*FT 5555	Anandam (Joy of Giving)	--	--	1	1	--	--	--	--	--	--	100	100	2.0
	Students Centered Activities	--	--	2	2	--	--	--	--	--	--	--	--	-
	Total	13		23	36	240		300		80	80	400	1100	27.0
Grand Total :												1100	27.0	

1. L : Lecture

2. T : Tutorial

3. P : Practical

4. TH : Marks for End Semester Exam for Theory

5. PR : Marks for End Semester Exam for Practical

6. CT : Marks for class tests (Internal Assessment)

7. TU/Assi: Marks for tutorials/Assignment (Internal Assessment)

8. PR(S) : Marks for practical and viva (Internal Assessment)

* FT 5001, and * FT 5555 are same in all Branches of Non Engineering

** FT 5002 is is same as FS 5002.

Students Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning.

Note: Project will be continued and Assesed in VI Semester

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME
FOR DIPLOMA VI SEMESTER (FASHION AND TEXTILE DESIGN) (FT)
SESSION 2022-2023 & ONWARDS

Subject Code	Subject	Distribution of Time				Distribution of Max. Marks/ Duration							Total Marks	Credits
		Hours per week				End Semester Exam.				Internal Assessment				
		L	T	P	Tot	TH	Hrs.	PR	Hrs.	CT	TU/Assi.	PR(S)		
*FT 6001	Professional Management & Entrepreneurship-II	3	--	--	3	60	3	--	--	20	20	--	100	3.0
**FT 6002	Dynamics of Fashion-II	3	--	--	3	60	3	--	--	20	20	--	100	3.0
FT 6003	Textile Printing-II	4	--	--	4	60	3	--	--	20	20	--	100	4.0
FT 6004	Fashion Studies-IV	3	--	--	3	60	3	--	--	20	20	--	100	3.0
FT 6005	Pattern Making & Garments Construction –IV Lab	--	--	6	6	--	--	40	6	--	--	60	100	3.0
FT 6006	Textile Printing -II Lab	--	--	2	2	--	--	40	6	--	--	60	100	1.0
FT 6007	Surface Decoration -IV Lab	--	--	2	2	--	--	40	6	--	--	60	100	1.0.
FT 6008	Fashion Illustration and Application -IV Lab	--	--	2	2	--	--	40	6	--	--	60	100	1.0
FT 6009	Computer Aided Design –II Lab	--	--	2	2	--	--	40	6	--	--	60	100	1.0
FT 6010	Project	--	--	6	6	--	--	40	--	--	--	60	100	4.0
*FT 6666	Anandam (Joy of Giving)	--	--	1	1	--	--	--	--	--	--	100	100	2.0
	Students Centered Activities	--	--	2	2	--	--	--	--	--	--	--	--	-
	Total	13		23	36	240	--	240	--	80	80	460	1100	26.0
Grand Total :												1100	26.0	

- | | |
|--|--|
| 1. L : Lecture | 5. PR : Marks for End Semester Exam for Practical |
| 2. T : Tutorial | 6. CT : Marks for class tests (Internal Assessment) |
| 3. P : Practical | 7. TU/Assi: Marks for tutorials/Assignment (Internal Assessment) |
| 4. TH : Marks for End Semester Exam for Theory | 8. PR(S) : Marks for practical and viva (Internal Assessment) |

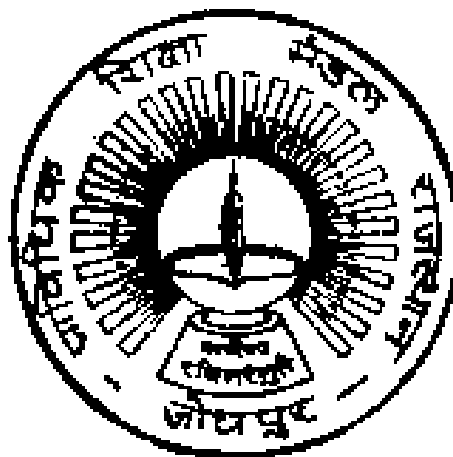
* FT 6001, and * FT 6666 are same in all Branches of Non Engineering

** FT 6002 is is same as FS 6002

Students Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning.

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN JODHPUR

SEMESTER SCHEME-2020-21



I SEMESTER
(SESSION 2021-2022 & ONWARDS)

COMMUNICATION SKILLS IN ENGLISH - I

Course Code	FT-1001 (Common in All Branches of Non Engineering)
Course Title	Communication Skills in English - I
Number of Credits	1(L-1 T-0, P-0)
Prerequisites	None

RATIONAL

For business purposes at every level of performance, language remains the most common and important means of communication. A diploma holder who wants to join an industry or organization needs to possess adequate knowledge and skills in language, its usage and presentation. Proficiency both in written and spoken language is required to be developed among the diploma holders

SUBJECT LEARNING OUTCOMES (SLOS)

The first year syllabus will develop among students the basic knowledge and skills related to syntax and semantics of English Language.

CONTENTS

	L
1. Grammar : :	6
1.1 Parts of Speech : Noun; Pronoun; Verb; Adverb; Adjective ; Preposition ; Conjunction ; Interjection	
1.2 Common errors in usage of parts of speech	
1.3 Articles, Modals in Conversational Usage, Tenses, Modals: Can, Could, Shall, Should, Will, Would, May, Might, Must, Need not, Darenot, ought to, Used to.	
2. Punctuation:	
2.1 Full stop, Comma, Question mark, Exclamation mark, Inverted Commas, Capital letters.	
3. Letter Writing and Report Writing	3

REFERENCES BOOKS

1. Intermediate English Grammar Press	Raymond Murphy, Cambridge University
2. English Grammar, Usage & Composition and Co.	Tickoo & Subramanian, Pub: S. Chand
3. A Practical Eng. Grammar (and its Exercise Books)	Thomson and Martinet Pub: ELBS
4. High School English Grammar and Composition Co.	Wren & Martin, Pub: S. Chand and
5. ABC of Common Grammatical Errors	Nigel D Turton, Macmillan India Ltd.
6. Soft Skills	Dr. K. Alex, Pub: S. Chand and Co.

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COMPUTER APPLICATIONS-I

Course Code	FT-1002 (Common in All Branches of Non Engineering)
Course Title	Computer Applications - I
Number of Credits	2(L-2 T-0, P-0)
Prerequisites	None

RATIONALE

Use of Computer is increasing for precise and speedy work so it is useful to provide computer knowledge to the students. The course content is designed to give an overview and understand working of computer components and Operating System. The course also focuses on basic application Software for office automation.

SUBJECT LEARNING OUTCOMES (SLOS)

After studying the subject, the students will be able to appreciate the role of Computer Technology, more specifically computer hardware, software and its application in the present social and economic scenario.

CONTENTS

	L
1. Introduction	6
1.1 Characteristics of Computers	
1.2 Application of Computer	
1.3 Component of Computer	
1.3.1 Block Diagram of Computer	
1.3.2 ALU and CU	
1.3.3 Input Devices: Keyboard, Mouse, Joystick, Scanner, Optical Mark Reader, Bar-code Reader, Magnetic Ink Character Reader, Web Camera	
1.3.4 Output Device: Monitor, Impact printer – Dot Matrix, Non Impact Printers: Laser and Inkjet Printer	
1.3.5 Memory Organization, Primary Memory, Secondary Memory	
1.4 Software	
1.4.1 System Software	
1.4.2 Application Software	
1.5 Relationship between Hardware and Software	
2. Operating System	4
2.1 Concept of Operating System	
2.2 Functions of Operating System	
2.3 Creating Folder and Shortcut	
2.4 Study of Popular Operating Systems: Windows, Androids.	
2.5 Control Panel: Adding new hardware and software, Display, Adding new font, User account management	
3. Office Automation Software	9
3.1 Word Processing	
3.1.1 Copy, Paste, Find and Replace, Redo Undo, Change Case, Spell Check	
3.1.2 Creating and Formatting Tables, Mail Merge	
3.1.3 Character and Paragraph Formatting, Page Formatting, Header Footer	
3.2 Spreadsheet	

3.2.1 Creating, Saving and Editing a Workbook

3.2.2 Formatting cells: changing data alignment, different number formats, changing font, adding borders and colors

3.2.3 Sorting and Filtering, Charts and Graphs

3.3 Presentation Software

3.3.1 Creating, Opening, Saving presentations and Printing: Slides, Handout

3.3.2 Slide Layout, Presentation Views

3.3.3 Design Presentation, Running and Controlling a Slide Show

4. Applications of Mobile Phones

3

4.1 Importance of Mobile Phones

4.2 Different Features of Mobile phones like SMS, Instant Messaging Services and File sharing

4.3 Different applications of mobile phones in Education and Business.

REFERENCE BOOKS

- 1 Computer Fundamentals
2. Microsoft office for 2016

P.K. Sinha and P. Sinha, BPB publication.
Amy Kinser, Pearson education.

SEMESTER SCHEME 2020-21

INTRODUCTION TO TEXTILES-I

Course Code	FT-1003 (Same as TD-1003)
Course Title	Introduction to Textiles-I
Number of Credits	3(L-3 T-0, P-0)
Prerequisites	None

RATIONALE

This subject may be considered as the "backbone" for the students of Textiles Design "Textile" is related with "Fiber" "Yarn" and "Fabric" which may be taught to students through this subject. Apart from these constructive aspects, we also teach the students the different decorating techniques, thus after going through this subject the students may become capable in understanding all other textile related subjects.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. The student will be able to understand basics of textile fibre and their characteristics.
2. Sources of different textile fibres.
3. Manufacturing of natural, regenerated and synthetic fibres.
4. Different types of yarn

CONTENTS

1. Fibre	10
1.1 Definition of fiber, yarn, fabric and blends	
1.2 Essential properties of fiber	
1.3 Classification of fibers	
1.4 Identification of textile fibers	
2. Yarn	18
2.1 Elementary knowledge of processing of the following fibers into Yarn	
2.1.1 Natural Fiber -cotton, wool, silk	
2.1.2 Synthetic Fiber - polyester, nylon and rayon	
2.2 Physical and chemical properties of the above mentioned fibers.	
3. Types of yarn	05
3.1 Classification of yarn	
3.2 Introduction to different types of yarn	
3.2.1 Standard Yarn	
3.2.2 High tenacity yarn	
3.2.3 Luster yarn	
3.2.4 Carpet yarn	
3.2.5 Stretch yarn	
3.2.6 Core yarn	
3.2.7 Bulked yarn	
3.2.8 Spiral yarn	
3.2.9 Hosiery yarn	

REFERENCE BOOKS

1. Textiles Fiber to

Corbean

- | | |
|---|--|
| 2. Textiles. | Norma Hallen and Jane Sadler |
| 3. Textile Fibers. | K.P. Hess |
| 4. Fundamental of Textiles and their Care. | Sushila Dhantyagi |
| 5. Textile Science. | J.T. Marsh |
| 6. Textile Science. | Vilenski |
| 7. Fiber and Fabrics of Today. | Mark |
| 8. Textile Products Selection Use and Care. | Alexander |
| 9. Textile Yarn Technology Structure and Appearance. | J.C. Goswami, J.G. Martindele, F.A. Scardina |
| 10. Textiles. | William Morris |
| 11. The Standard Hand Book of Textiles. | A.J. Hall |
| 12. Textiles in Perspective. | Era Block and Smith |
| 13. Fiber and Fabric of Today. | Hellon Thomson |
| 14. From Fibers to Fabric. Elizabeth Crale | |
| 15. Understanding Textiles. Phyllip G. Tortora | |
| 16. Processing of Fibers in Yarn. V. Usenko | |
| 17. Textile Fibers. V.A. Shenai | |
| 18. Textile Fabrics and their Selection. Sabel B. Wintate | |
| 19. Essentials of Textile. Marjory L. Jesepeh | |
| 20. Household Textiles and Laundry Work. Durga Dwelkar | |
| 21. Chemical Technology of Fibrous Material. Sadov | |

SEMESTER SCHEME 2020-21

FUNDAMENTAL THEORY OF TEXTILE DESIGN-1

Course Code	FT-1004 (Same as TD-1004)
Course Title	Fundamental Theory of Textile Design-I
Number of Credits	1(L-1 T-0, P-0)
Prerequisites	None

RATIONALE

To enhance the beauty of design, color plays a very significant role in the expression of one design. Different colour schemes provide different feeling and this impart a sense of enrichment to the design. "As the cloth is required to man, colour is required to design", this thinking itself clarifies that there is no use of textile design without adding colors. Thus the aim of this subject is to develop colour sense.

Sketching and drawing are the language of art. If one can sketch and draw the different objects freely, the main aims of this to teach the basics of sketching and drawing with different medium.

Designing is an art created by men with certain limitations. There are some different principles through which one can learn art with more depth and details with the help of different tools, materials and their application.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. Functions and uses of colour to develop pattern recognition, memory and absorbing new information.
2. Locate, compare, understand and recall information of colour terminology faster.
3. The course helps students to development of new design aspects for novelty in fabric surface, textile products and various other textile materials in terms of colours and there developments.

CONTENTS

- | | |
|--|----------|
| 2. Colour: | 6 |
| 1. Meaning of Colour and Colour Ways | |
| 2. Colour Terminology: | |
| 2.2.1 Hue, Chroma, Value, Tint, Shades. | |
| 2.2.2 Elements of Painting - Line, Form, Value, Texture, Colour, Light & Shade etc. | |
| 2.2.3 Principals of Composition – Space-division, Balance, Harmony, Rhythm, Proportion, Contrast | |
| 2.2.4 Pigment theory of Colour wheel. | |
| 2.2.5 Light theory of Colour wheel. | |
| 3. Construction and Placement of Design to form Pattern : | 2 |
| 1. Drop 1/4drop, 1/2drop, 3/4drop | |
| 2. Drop Reverse | |
| 3. Unit Repeat. | |
| 4. Sateen Basis. | |
| 5. Diamond. | |
| 6. Rectangular. | |
| 7. Ozee. | |

4. Understanding of Various Styles of Design:**3**

1. Geometrical
2. Floral.
3. Traditional
4. Folk
5. Realistic
6. Symbolic
7. Abstract
8. Conventional
9. Modern.

REFERENCE BOOKS

1. Colour Source Book for Graphic Designers
2. Designer : Guide to Colour
3. Colour Harmony
4. Colour Trends in Two Volume.
5. Watson's Textile Design and Colour.
6. Textile Science.
7. Rooprad Kala keMooladhar
8. Repeat Patterns
9. Abstract and Floral Designs
10. रूप कला के मूलधार

SadaoNokamnar
 SadaoNokamnar
 Hideaki chijiwa
 Products Ltd.
 Z. Gresicki
 Vilenski
 Sharma/Agarwal.
 Phillips and Peter
 E.A.Segug
 शर्मा एवं हटवाल

SEMESTER SCHEME 2020-21

INTRODUCTION OF TEXTILE ART AND CRAFT LAB

Course Code	FT-1005 (Same as TD-1005)
Course Title	Introduction of Textile Art and Craft Lab
Number of Credits	2(L-0 T-0, P-4)
Prerequisites	None

RATIONALE

Indian art and craft are well known to the world, especially the textile related arts are of world fame, hence the students of Textile Design should be well aware about this rich heritage. The ultimate aim of this subject is to impart essential knowledge to the students regarding important aspects of art so that they may utilize these arts for their creative thinking of designing and may enrich their designing with the help of these arts.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. Development of fine motor skills
2. Traditional art of different region and its culture
3. Ornamentation of fabric with batik, tie and dye techniques
4. Enhances dexterity
5. Improvement of hand-eye coordination
6. Learn to appreciate art and culture
7. Enhances creativity

CONTENTS

1. Art of Batik :	10
1.1 Preparation of a file with Batik samples by various methods on the following surfaces:	
1.1.1 Paper	
1.1.2 Fabric-cotton and silk.	
1.2 Preparation of one article	
2. Stencil Craft :	06
2.1 Preparation of a file by paper stencil method on different fabrics with different designs and colours	
2.2 Preparation of one article	
3. Varli / Mandana Painting.	08
4. Samples of Tie and Dye.	10
5. Madhubani / Phar Painting on Fabric.	10

Note:

1. The Following Essential theory should be taught during the practical.
1. Study of Indian Crafts and Art Related to Textiles with Reference to :
 1. Historical Significance
 2. Centres of Production
 3. Salient Features
2. Study of Various Types and Methods of Batik

3. Detailed Study of the Techniques Related to :
 1. Paper Stencils
 2. Plastic Stencils
 4. Study of Varli / Mandana Folk Arts.
 5. Tye and dye
 1. Historical Significance
 2. Construction Techniques
 3. Styles
 4. Colour and Motifs
 6. Painting
 1. Madhubani /phar
2. One day industrial visit is necessary

REFERENCE BOOKS

1. Batik Art SarlaSudersan
2. Masterpieces of Indian Textiles RustamJ.Metha
3. Textiles of India V.A. Shenai
4. Traditional Indian Textiles Colilloeri John
5. Craft traditions of India JoyaJaiethely
6. Tie and Dye Textiles of India Murphy
7. Tie and dye work journal of Indian art Das. C.R.

SEMESTER SCHEME 2020-21

SKETCHING AND DRAWING –I LAB

Course Code	FT-1006 (Same as TD-1006)
Course Title	Stitching and Drawing-I Lab
Number of Credits	3(L-0 T-0, P-6)
Prerequisites	None

RATIONALE

"Sketching" and "Drawing" are the languages of art. The translation of ideas into practice with the use of this Graphic language is really beyond imagination. If one can sketch and draw the different objects freely, one can be capable in translating his/her imagination on paper. The ultimate aim of this subject is to teach the student the basics of sketching and drawing with different mediums so that they may become able to handle each and every medium for their designing.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject ,the learner will be able to:

1. Investigate fundamental design elements and design guidelines.
2. This course aims to improve ability in visualizing design patterns.
3. Learn to use contrast, different types of perspectives, combinations, and shade and texture skills to create a design.
4. Learn to be observant, develop an attention to details and express.
5. Learn the most basic skills which lead to draw 3 D forms.
6. Explore design through a range of drawing and sketching approaches.
7. Drawing and sketching is very valuable skills that can be used in many different industries hence have good job opportunities.

CONTENTS

1. Nature Studies: Sketching and Drawing of the following from different Angles **40**
 - 1.1 Flowers
 - 1.2 Leaves.
 - 1.3 Stems.
 - 1.4 Fruits.
 - 1.5 Vegetables.
 - 1.6 Trees.
 - 1.7 Birds.
 - 1.8 Butterflies
 - 1.9 Landscapes
 - 1.10 Creepers
2. Conversion of already drawn form in to Geometrical forms or creative forms **26**

NOTE : A Sketch file for first two exercises shall be maintained by students having three drawing of each topic with at least 3 different angles using. Pencil, Pen and Ink and Water Colours.

REFERENCE BOOKS

- | | |
|--|----------------------------|
| 1. How to Draw and Paint | Wede. |
| 2. How to Draw | Fester series |
| 3. Its Fun to Sketch with Pencil and Crayons. | Thompson |
| 4. Plant Life | Piccola |
| 5. Paradise as a Garden | Moynihau |
| 6. The Illustrated Book a Tree. | NicholsauClapharu |
| 7. Trees | Garner and Fredvick |
| 8. Reses in Colours | Edland |
| 9. The Living World | St. Michael |
| 10. Garden Plants | Michael Wright |
| 11. Birds | Hunt, Lynn and Bogue |
| 12. The Thomson and Hudson manual of Gills and Robert
Birds | Rendering with Pen and Ink |
| 13. How to Draw and Paint Landscape | Fester Series |
| 14. Trees in Perspective | Fester Series |
| 15. Classic textile design | M. DupontAbbermille |
| 16. Optical and geometrical pattern design | spyrosehoremils |

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SEMESTER SCHEME 2020-21

BASIC OF DESIGNING-I LAB

Course Code	FT-1007 (Same as TD-1007)
Course Title	Basics of Designing-I Lab
Number of Credits	2.5(L-0 T-0, P-5)
Prerequisites	None

RATIONALE

"Designing" is an art created by men with certain limitations. There are some definite principals through which one can learn art with more depth and detail. The aim of this subject is to teach all the basics related to designing including tools, materials and their application. By learning this subject, students may express themselves and their feelings on different surfaces by different Medias and if once student become able to express oneself, we reach near to our goal.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. As everyone is known to the fact that the basics and fundamentals of any subject or field are to be learnt extensively for strong foundation.
2. So as in the field of Textile Designing also it is necessary to learn the conceptual importance of Drawing, Lines, Textures, Compositions and Formations.
3. Therefore, in this subject all these basics are being put on theory cum practical aspects to accomplish the designing part.
4. Hence it is an important learning to get fully acquainted and understanding for the execution of the perfect design and being an innovative designer with cost effectiveness.

CONTENTS

- | | |
|---|----|
| 1. Simple exercises for handling set square, compass, crockel pen etc. | 5 |
| 2. Work in all type of LINES using soft pencil & ink. | 5 |
| 3. Drawing of all basic shapes on: | 5 |
| 3.1 Medias: | |
| 3.1.1 Pencils - Different type of Pencil with Tonal effects | |
| 3.1.2 Colored ink | |
| 3.1.3 Crayon / staedtler | |
| 3.1.4 Poster colors | |
| 3.1.5 Water colors | |
| 3.1.6 Oil colors | |
| 3.1.7 Charcoal | |
| 3.2 Material: | |
| 3.2.1 Cartridge sheet | |
| 3.2.2 Ivory sheet | |
| 3.2.3 Handmade sheet | |
| 3.2.4 Canvas/ oil sheet | |
| 4. Composition of geometrical shapes with poster colors. | 10 |
| 5. Different type of textures with all media. | 10 |
| 6. Preparation of 10 greeting cards using Different textures with all Medias and materials. | 20 |

REFERENCE BOOKS

1. Rooprad Art Mooladhar Sharma & Agarwal
 2. Repeat Pattern Phillips & Peter.
 3. Abstract and Floral Design E.A. Seguy.
 4. Encyclopedia of Textiles
-

COMMUNICATION SKILLS IN ENGLISH-I LAB

Course Code	FT-1008 (Common in All Branches of Non Engineering)
Course Title	Communication Skills in English - I Lab
Number of Credits	1(L-0 T-0, P-2)
Prerequisites	None

RATIONAL

For business purposes at every level of performance, language remains the most common and important means of communication. A diploma holder who wants to join an industry or organization needs to possess adequate knowledge and skills in language, its usage and presentation. Proficiency both in written and spoken language is required to be developed among the diploma holders

SUBJECT LEARNING OUTCOMES (SLOS)

The first year syllabus will develop among students the basic knowledge and skills related to syntax and semantics of English Language.

	P
We envisage two successive stages for attaining skills in communication ability;	
1. Listening	
2. Speaking	
We can club them together as shown below.	
1. Listening:	7
For improving listening skills, the following steps are recommended-	
1.1 Listen to Pre-recorded Tapes	
1.2 Reproduce vocally what has been heard	
1.3 Reproduce in Written form	
1.4 Summarise the text heard	
1.5 Suggest Substitution of Words and Sentences	
1.6 Answer Questions related to the taped text	
1.7 Summarise in Writing	
2. Speaking:	7
Introducing English consonant-sounds and vowel-sounds	
2.1 Remedial exercises where necessary	
2.2 Knowing Word stress	
2.3 Shifting word stress in poly-syllabic words	
[For pronunciation practice read aloud a para or page regularly while others monitor]	
3. Body Language:	8
3.1 Personal Appearance	
3.2 Posture	
3.3 Gestures and Hand Movements	
3.4 Eye Contact	

3.5 Facial Expressions

Note:

1. The Medium of teaching and examination will be English.
2. At least one question will be set from each unit.
3. No theory question will be set from syllabus of practical.

REFERENCE BOOKS

- | | |
|--|---|
| 7. Intermediate English Grammar
Press | Raymond Murphy, Cambridge University Press |
| 8. English Grammar, Usage & Composition
Co. | Tickoo & Subramanian, Pub: S. Chand and Co. |
| 9. A Practical Eng. Grammar (and its Exercise Books) | Thomson and Martinet, Pub: ELBS |
| 10. High School English Grammar and Composition
Co. | Wren & Martin, Pub: S. Chand and Co. |
| 11. ABC of Common Grammatical Errors | Nigel D Turton, Macmillan India Ltd. |
| 12. Soft Skills | Dr. K. Alex, Pub: S. Chand and Co. |

SEMESTER SCHEME 2020-21

COMPUTER APPLICATIONS-I LAB

Course Code	FT-1009 (Common in All Branches of Non Engineering)
Course Title	Computer Applications - I Lab
Number of Credits	1.5(L-0 T-0, P-3)
Prerequisites	None

RATIONALE

Use of Computer is increasing for precise and speedy work so it is useful to provide computer knowledge to the students. The course content is designed to give an overview and understand working of computer components and Operating System. The course also focuses on basic application Software for office automation.

SUBJECT LEARNING OUTCOMES (SLOS)

After studying the subject, the students will be able to appreciate the role of Computer Technology, more specifically computer hardware, software and its application in the present social and economic scenario.

CONTENTS

1. Overview of Parts of Computer, Practice of using My Computer, creating, deleting folders and shortcuts. **03**
2. Practice on Control Panel/ Installing/Uninstalling/ Adding Devices **03**
3. Exercise on Word Processing **09**
 - 3.1 Creating, Saving and Opening documents
 - 3.2 Editing Documents-Cut, Copy, Paste, Undo, Redo, Copying one document to other, Change Case, Go to
 - 3.3 Character and Paragraph Formatting, Numbering and Bullets
 - 3.4 Page Formatting, Header and Footer, Page Break, Watermark
 - 3.5 Spell Check, Find and Replace, Inserting Pictures and Clip-arts
 - 3.6 Working with Tables
 - 3.7 Mail-Merge.
4. Exercises on Spreadsheets: **09**
 - 4.1 Creating, Saving and Opening worksheet.
 - 4.2 Editing Worksheet.
 - 4.3 Formatting Cells- Font, Number Formats Alignment and Borders.
 - 4.4 Charts and Graphs.
 - 4.5 Sorting and Filtering.
5. Exercises on Presentation Package: **06**
 - 5.1 Creating, saving and Opening presentations
 - 5.2 Adding animation in slides
 - 5.3 Running a Slide Show
 - 5.4 Printing Slides and Handouts
6. Hands on Experience on usage of Mobile Phones **03**

REFERENCE BOOKS

- 1 Computer Fundamentals P.K. Sinha and P. Sinha,BPB publication.
2. Microsoft office for 2016 Amy Kinser,Pearson education.

INTRODUCTION TO TEXTILES-I LAB

Course Code	FT-1010 (Same as TD-1010)
Course Title	Introduction to Textiles-I Lab
Number of Credits	.5(L-0 T-0, P-1)
Prerequisites	None

RATIONALE

This subject may be considered as the "backbone" for the students of Textiles Design "Textile" is related with "Fiber" "Yarn" and "Fabric" which may be taught to students through this subject. Apart from these constructive aspects, we also teach the students the different decorating techniques, thus after going through this subject the students may become capable in understanding all other textile related subjects.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. The student will be able to understand basics of textile fibre and their characteristics.
2. Sources of different textile fibres.
3. Manufacturing of natural, regenerated and synthetic fibres.
4. Different types of yarn

CONTENTS

1. Identification test	05
1.1 Appearance test	
1.2 Feeling test	
1.3 Creasing test	
1.4 Breaking test	
1.5 Tearing test	
2. Microscopic study of fiber cross section	02
3. Market survey	04

REFERENCE BOOKS

1. Textiles Fiber to	Corbean
2. Textiles.	Norma Hallen and Jane Sadler
3. Textile Fibers.	K.P. Hess
4. Fundamental of Textiles and their Care.	Sushila Dhantyagi
5. Textile Science.	J.T. Marsh
6. Textile Science.	Vilenski
7. Fiber and Fabrics of Today.	Mark
8. Textile Products Selection Use and Care.	Alexander
9. Textile Yarn Technology Structure and Appearance.	J.C. Goswami, J.G. Martindele, F.A. Scardina
10. Textiles.	William Morris
11. The Standard Hand Book of Textiles.	A.J. Hall
12. Textiles in Perspective.	Era Block and Smith
13. Fiber and Fabric of Today.	Hellon Thomson
14. From Fibers to Fabric. Elizabeth Crale	
15. Understanding Textiles. Phyllip G. Tortora	
16. Processing of Fibers in Yarn. V. Usenko	
17. Textile Fibers. V.A. Shenai	
18. Textile Fabrics and their Selection. Sabel B. Wintate	
19. Essentials of Textile. Marjory L. Jeseph	
20. Household Textiles and Laundry Work. Durga Dwelkar	
21. Chemical Technology of Fibrous Material. Sadov	

FUNDAMENTAL THEORY OF TEXTILE DESIGN-I LAB

Course Code	FT-1011 (Same as TD-1011)
Course Title	Fundamental Theory of Textile Design-I Lab
Number of Credits	2.5(L-0 T-0, P-5)
Prerequisites	None

RATIONALE

To enhance the beauty of design, color plays a very significant role in the expression of one design. Different colour schemes provide different feeling and this impart a sense of enrichment to the design. "As the cloth is required to man, colour is required to design", this thinking itself clarifies that there is no use of textile design without adding colors. Thus the aim of this subject is to develop colour sense.

Sketching and drawing are the language of art. If one can sketch and draw the different objects freely, the main aims of this to teach the basics of sketching and drawing with different medium.

Designing is an art created by men with certain limitations. There are some different principles through which one can learn art with more depth and details with the help of different tools, materials and their application.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. The student will be able to understand basics of textile fibre and their characteristics.
2. Sources of different textile fibres.
3. Manufacturing of natural, regenerated and synthetic fibres.
4. Different types of yarn

CONTENTS

- | | |
|---|----|
| 1. Colour Wheel | 10 |
| 1.1 Light theory of colour wheel | |
| 1.2 Pigment theory of colour wheel | |
| (Preparation of sheet mentioning details of particular they taking inspiration from nature and objects) | |
| 2. Preparation of at Least 6 Different Colour ways - | 12 |
| 2.1 Sample studied, based on Variation in Hue, value, and Chroma. | |
| 3. Collection of different samples in reference of colours and colour ways with different styles of design. | 10 |
| 4. Construction of geometrical design with basic colours in reference to context of different drops. | 10 |
| 5. Drawing and Painting equipment materials tools their uses, and techniques-Lead Pencils, Charcoal, Crayons or Pastels, Erasers, Brushes, Boards, Board pins & Colors etc. | 13 |

REFERENCE BOOKS

- | | |
|---|-----------------|
| 1. Colour Source Book for Graphic Designers | SadaoNokamnar |
| 2. Designer : Guide to Colour | SadaoNokamnar |
| 3. Colour Harmony | Hideaki chijiwa |
| 4. Colour Trends in Two Volume. | Products Ltd. |
| 5. Watson's Textile Design and Colour. | Z. Gresicki |
| 6. Textile Science. | Vilenski |

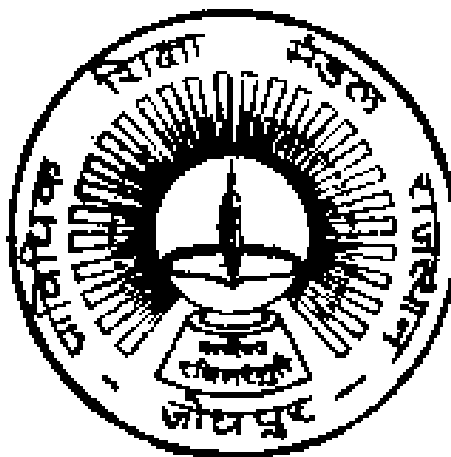
7. Rooprad Kala ke Mooladhar
8. Repeat Patterns
9. Abstract and Floral Designs
10. रूपकलाकेमूलाधार

Sharma/Agarwal.
Phillips and Peter
E.A.Segug
शर्माएवंहटवाल

SEMESTER SCHEME 2020-21

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN JODHPUR

SEMESTER SCHEME-2020-21



II SEMESTER
(SESSION 2021-2022 & ONWARDS)

COMMUNICATION SKILLS IN ENGLISH - II

Course Code	FT-2001 (Common in All Branches of Non Engineering)
Course Title	Communication Skills in English - II
Number of Credits	1(L-1 T-0, P-0)
Prerequisites	None

RATIONAL

For business purposes at every level of performance, language remains the most common and important means of communication. A diploma holder who wants to join an industry or organization needs to possess adequate knowledge and skills in language, its usage and presentation. Proficiency both in written and spoken language is required to be developed among the diploma holders

SUBJECT LEARNING OUTCOMES (SLOS)

The first year syllabus will develop among students the basic knowledge and skills related to syntax and semantics of English Language.

CONTENTS

	L
1. Vocabulary Building :	5
1.1. Prefixes and Suffixes	
1.2. Synonyms and Antonyms	
1.3. One Word Substitution	
1.4. Words Often Confused	
1.5. Words Often Misspelt	
2. Sentence Building:	4
2.1. Types of Sentences and their Transformation -	
2.2. Interchange of Affirmative and Negative sentences	
2.3. Interchange of Interrogative and Assertive sentences	
2.4. Interchange of Exclamatory and Assertive sentences	
3. Composition:	2
3.1. Unseen Passage, Précis Writing	
4. Essay Writing:	2
4.1. Essays on general topics and topics related to environmental problems.	

1.

REFERENCE BOOKS

- | | |
|--|---|
| 1. Intermediate English Grammar | Raymond Murphy, Cambridge University Press |
| 2. English Grammar, Usage & Composition | Chand and Co. Tickoo & Subramanian, Pub: S. |
| 3. A Practical Eng. Grammar (and its Exercise Books) | Thomson and Martinet, Pub: ELBS |
| 4. High School English Grammar and Composition | Wren & Martin, Pub: S. Chand and Co. |
| 5. ABC of Common Grammatical Errors | Nigel D Turton, Macmillan India Ltd. |
| 6. Soft Skills | Dr. K. Alex, Pub: S. Chand and Co. |

COMPUTER APPLICATIONS-II

Course Code	FT-2002 (Common in All Branches of Non Engineering)
Course Title	Computer Applications - II
Number of Credits	2(L-2, T-0, P-0)
Prerequisites	None

RATIONALE

Use of Computer is increasing for precise and speedy work so it is useful to provide computer knowledge to the students. The course provides knowledge of internet, email, web browsing and E-commerce. It also gives overview of Cyber Security and Information technology Act.

SUBJECT LEARNING OUTCOMES (SLOS)

The student will be able to understand the concept of Networks, internet and importance of Cyber security in the present time.

- | | |
|--|----------|
| 1. Computer Network | 5 |
| 1.1 Need of networks | |
| 1.2 Data Transmission Media: Twisted pair, Coaxial, Optical Fiber | |
| 1.3 Types of Network-LAN, WAN, MAN | |
| 1.4 Topologies of LAN - Ring, Bus, Star, Mesh and Tree | |
| 1.5 Digital and Analog Transmission | |
| 1.6 Modem - Working and characteristics | |
| 2. Internet | 8 |
| 2.1 Introduction to Internet, Intranet, World Wide Web. | |
| 2.2 Internet Service Provider. | |
| 2.3 URL | |
| 2.4 Web Brower and its functions, Web Page, Search Engines | |
| 2.5 Protocol: Basic of http, https, FTP, SMTP, POP | |
| 2.6 Basic of E-mail. | |
| 2.7 E-mail Service Provider | |
| 2.8 Composing E-mail | |
| 2.9 Mailing List | |
| 2.10 Creating Label | |
| 2.11 Signature | |
| 2.12 Spam | |
| 3. E-Commerce and Cyber Security | 9 |
| 3.1 Introduction to E-Commerce | |
| 3.2 Type of E-Commerce | |
| 3.3 Advantages and Disadvantages of E-Commerce | |
| 3.4 Payment Gateways | |
| 3.5 Introduction to different types of Cyber Attacks: Phishing, Ransomware, SQL Injection, Web Jacking, Trojan Attacks, Denial of Service, Cyber Stalking, Password Cracking, Hacking, E mail Spoofing | |
| 3.6 Cyber laws in India: Introduction to IT (Information Technology) Act'2000 | |
| 3.7 Definition of Virus, Malware, Scanning & Removing Virus using Antivirus Program | |
| 4. Multimedia | 4 |
| 4.1 What is Multimedia? | |

4.2 Text and Graphics.

4.3 Animation, Audio, Images and Video.

4.4 Multimedia Application in Education and Entertainments.

REFERENCE BOOKS

1. Computer Fundamentals P.K. Sinha and P. Sinha, BPB publication.
2. Data Communications and Networking Forouzan TMH
3. Internet for Everyone Alexis Leon & Mathews Leon,
Vikas Publishing House, New Delhi.

SEMESTER SCHEME 2020-21

INTRODUCTION TO TEXTILES -II

Course Code	FT-2003 (Same as TD-2003)
Course Title	Introduction to Textiles-II
Number of Credits	3(L-3 T-0, P-0)
Prerequisites	None

RATIONALE

This subject may be considered as the "backbone" for the students of Textiles Design "Textile" is related with "Fiber" "Yarn" and "Fabric" which may be taught to students through this subject. Apart from these constructive aspects, we also teach the students the different decorating techniques, thus after going through this subject the students may become capable in understanding all other textile related subjects.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. Yarn preparation for weaving.
2. Basics of Dyeing, printing and finishes
3. The importance of textile.
4. General studies of fabric as selection and suitability, care of fabric etc.

CONTENTS

1. Brief study of yarn preparation for weaving (winding, warping, sizing, doubling)	06
2. Dyeing and printing	12
2.1. Definition of Dye, Dyeing and printing	
2.2. Difference between Dyeing and printing	
2.3. Classification of methods and styles of printing	
2.4. Factors affecting dye take up	
3. Finishes	15
3.1. Classification of finishes	
3.2. Aims of giving finishes	
3.3. Brief study of the following finishes:-	
3.3.1. mercerising	
3.3.2. calendering	
3.3.3. tentering	
3.3.4. shrinkage control	
3.3.5. anti crease finish	
3.3.6. moth and mildew proof finish	
4. General studies	06
4.1. selection and suitability of fabric	
4.2. care of fabric	
4.3. general importance of textiles	

REFERENCE BOOKS

- | | |
|------------------------------|------------------------------|
| 1. Textiles Fiber to Fabric. | Corbean |
| 2. Textiles. | Norma Hallen and Jane Sadler |

- | | |
|--|---|
| 3. Textile Fibers. | K.P. Hess |
| 4. Fundamental of Textiles and their Care. | SushilaDhantiyagi |
| 5. Textile Science. | J.T. Marsh |
| 6. Textile Science. | Vilenski |
| 7. Fiber and Fabrics of Today. | Mark |
| 8. Textile Products Selection Use and Care. | Alexander |
| 9. Textile Yarn Technology Structure and Appearance. | J.C. Goswami ,J.G.
Martindele,F.A.Scardina |
| 10. Textiles. | William Morries |
| 11. The Standard Hand Book of Textiles. | A.J. Hall |
| 12. Textiles in Perspective. | Era Block and Smith |
| 13. Fiber and Fabric of Today. | Hellon Thomson |
| 14. FromFibers to Fabric. | Elizabeth Crale |
| 15. Understanding Textiles. | PhyllipG.Tortora |
| 16. Processing of Fibers in Yarn. | V.Usenko |
| 17. Textile Fibers. | V.A.Shenai |
| 18. Textile Fabrics and their Selection. | SabelB.Wintate |
| 19. Essentials of Textile. | Marjory L.Jeseeph |
| 20. Household Textiles and Laundry Work. | DurgaDwelkar |
| 21. Chemical Technology of Fibrous Material. | Sadov |

SEMESTER SCHEME 2020-21

FUNDAMENTAL THEORY OF TEXTILE DESIGN-II

Course Code	FT-2004 (Same as TD-2004)
Course Title	Fundamental Theory of Textile Design-II
Number of Credits	1(L-1 T-0, P-0)
Prerequisites	None

RATIONALE

To enhance the beauty of design, colour plays a very significant role in the expression of one design. Different color schemes provide different feeling and this impart a sense of enrichment to the design. "As the cloth is required to man, colour is required to design", this thinking itself clarifies that there is no use of textile design without adding colours. Thus the aim of this subject is to develop colour sense.

Sketching and drawing are the language of art. If one can sketch and draw the different objects freely, the main aims of this to teach the basics of sketching and drawing with different medium.

Designing is an art created by men with certain limitations. There are some different principles through which one can learn art with more depth and details with the help of different tools, materials and their application.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. Functions and uses of colour to develop pattern recognition, memory and absorbing new information.
2. Locate, compare, understand and recall information of colour terminology faster.
3. The course helps students to development of new design aspects for novelty in fabric surface, textile products and various other textile materials in terms of colours and there developments.

CONTENTS

1. Detailed Study of Colour Theories in Context of the following : 8
 - 1.1. Chromatic Circle.
 - 1.1.1. Primary Colours.
 - 1.1.2. Secondary Colours.
 - 1.1.3. Tertiary Colours.
 - 1.1.4. Colour-Schemes (Colour in Combination). Monochromatic, Polychromatic, Analogue and Achromatic.
 - 1.1.5. Complementary.
 - 1.1.6. Split Colours.
 - 1.1.7. Double Split Colours.
 - 1.1.8. Triad Colours.
 - 1.1.9. Neutral, Warm and Cool Colours.
 - 1.1.10. Contrast: Simultaneous, Successive.
 2. Place and importance of subject, idea, feeling, imagination, expression, suggestion, symbolism, contrast, medium, technique and colours in composition. 2
 3. Meaning of Technical Theory.

4. Differences in the meaning of medium, Method, Process, Technique, Style, Expression and Communication. 2
5. Layout and reproduction Techniques. 1

REFERENCE BOOKS

- | | |
|---|--------------------|
| 1. Colour Source Book for Graphic Designers | SadaoNokamnar |
| 2. Designer : Guide to Colour | SadaoNokamnar |
| 3. Colour Harmony | Hideaki chijiwa |
| 4. Colour Trends in Two Volume. | Products Ltd. |
| 5. Watson's Textile Design and Colour. | Z. Gresicki |
| 6. Textile Science. | Vilenski |
| 7. Rooprad Kala keMooladhar | Sharma/Agarwal. |
| 8. Repeat Patterns | Phillips and Peter |
| 9. Abstract and Floral Designs | E.A.Segug |
| 10. रूपकलाकेमूलाधार | शर्माएवंहटवाल |

SEMESTER SCHEME 2020-21

STRUCTURAL TEXTILE DESIGN-I

Course Code	FT-2005 (Same as TD-2005)
Course Title	Structural Textile Design-I
Number of Credits	2(L-2 T-0, P-0)
Prerequisites	None

RATIONALE

Structural fabric design is one of the most important part of Textile design in which the students have to learn and create designs for different woven fabrics, By learning the basics of weaving, students become aware of techniques of fabric construction Actually the techniques of dyeing and printing are applied mainly on constructed fabrics, hence the students should be able to construct at least basic fabrics so that they become aware of the designing of these fabrics.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. Develop new weave structures.
2. Create new structures using color and weave effect.
3. Draw simple and compound structures.
4. Comparative study of weaves
5. Understand the fundamentals of weave and their use

CONTENTS

1. Introduction of fabric Structure	4
1.1 What is fabric structure	
1.1. Types of fabric structure	
1.2. Identification of fabric	
2. Definition of	4
2.1. Warp and weft,	
2.2. Ends and picks,	
2.3. Design,	
2.4. Repeat of a design	
2.5. Draft,	
2.6. Lifting or peg plan	
2.7. Denting order	
3. Types of drafts and their uses in the manufacture of various fabrics	4
4. Study of Parts of loom.	2
5. Woven design fundamental	3
5.1. Classification of woven structure	
5.2. Method of weave representation	
5.3. Basic element of woven design	
5.4. Relation between design, draft and lifting plan	
6. Classification of Basic Weaves.	2
7. Plain weave	5
7.1. Characteristics of plain weave	
7.2. Modification (Derivatives) of plain weave	

- 7.3. End use of plain weave
8. Ornammentation of plain weave 2

REFERENCE BOOKS

1. Principles of Weaving Mark Rebinson
2. Watson Textile Design and Colour Z.Gresicki
3. Textiles Fibre to FabrisBeanaredP.Corbmay
4. Under Standing Textiles. G.Tortora.
5. Handloom Weaving Technology Allen A. Fannin.

SEMESTER SCHEME 2020-21

SKETCHING AND DRAWING-II LAB

Course Code	FT-2006 (Same as TD2006)
Course Title	Stitching and Drawing-II Lab
Number of Credits	3(L-0 T-0, P-6)
Prerequisites	None

RATIONALE

Sketching and drawing are like stair case to a magnificent design. it's about finding and refining the best ideas, an inseparable parts of design process. a student who can sketch and draw efficiently can explore countless ideas .it's one of the most simplest and efficient means of communicating visual ideas . It's more of conveying emotions thought artwork.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject ,the learner will be able to:

1. Investigate fundamental design elements and design guidelines.
2. This course aims to improve ability in visualizing design patterns.
3. Learn to use contrast, different types of perspectives, combinations, and shade and texture skills to create a design.
4. Learn to be observant, develop an attention to details and express.
5. Learn the most basic skills which lead to draw 3 D forms.
6. Explore design through a range of drawing and sketching approaches.
7. Drawing and sketching is very valuable skills that can be used in many different industries hence have good job opportunities.

CONTENTS

- | | |
|--|----|
| 1. Object Study : | 25 |
| 1.1. Understanding of basic Geometrical Shapes in Perspective. | |
| 1.2. Expression of Opaque and Transparent Objects. | |
| 1.3. Expression of Rough and Glazed Surface Objects. | |
| 1.4. Study of Drapery. | |
| 2. Conversion of already drawn form in to Geometrical Or abstract forms. | 18 |
| 3. Compositions: | 35 |
| 3.1. Composition of realistic forms with Water Colour on 1/4imp. Sheet. | |
| 3.2. Composition of converted forms with Poster Colours on 1/4imp sheet. | |

NOTE : A drawing sheet for first two exercises shall be maintained by students having three drawing of each topic with at least 3 different angles using. Pencil, Pen and Ink and Water Colours.

REFERENCE BOOKS

- | | |
|------------------------------------|-------------------------|
| 1. Rooppad art | mooladharSharma/agarwal |
| 2. Abstract and floral design | EA seguy |
| 3. Abstract art pattern and design | M.P. Vernencil |
| 4. Focus on Nature | Faher |
| 5. The Living world | st. Michael |

6. The Thomson and Hudson manual of Rendering with Pen and Ink 17 Birds Gills and Robert
7. How to draw : Human Figure fester series
8. Water Colour and Painting Ron Rauson.
9. Still life fester series

SEMESTER SCHEME 2020-21

BASIC OF DESIGNING-II LAB

Course Code	FT-2007 (Same as TD-2007)
Course Title	Basics of Designing-II Lab
Number of Credits	2.5(L-0 T-0, P-5)
Prerequisites	None

RATIONALE

"Designing" is an art created by men with certain limitations. There are some definite principals through which one can learn art with more depth and detail. The aim of this subject is to teach all the basics related to designing including tools, materials and their application. By learning this subject, students may express themselves and their feelings on different surfaces by different Medias and if once student become able to express oneself, we reach near to our goal.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. As everyone is known to the fact that the basics and fundamentals of any subject or field are to be learnt extensively for strong foundation.
2. So as in the field of Textile Designing also it is necessary to learn the conceptual importance of Drawing, Lines, Textures, Compositions and Formations.
3. Therefore, in this subject all these basics are being put on theory cum practical aspects to accomplish the designing part.
4. Hence it is an important learning to get fully acquainted and understanding for the execution of the perfect design and being an innovative designer with cost effectiveness.

CONTENTS

1. Forming a composition of objects having three dimensional effect with water colors. 10
2. Forming a colored picture Composition with animals and trees with poster colors. 10
3. Forming a colored picture composition with flowers and butterflies on oil sheet with oil colors. 10
4. Preparation of two textile designs, one Modern and one Traditional with enlarged and reduced version. 15
5. Abstract art on any media. 10

REFERENCE BOOKS

1. Rooprad Art Mooladhar. Sharma & Agarwal
 2. Repeat Pattern Phillips & Peter.
 3. Abstract and Floral Design E.A. Seguy.
 4. Encyclopedia of Textiles.
-

COMMUNICATION SKILLS IN ENGLISH II-LAB

Course Code	FT-2008 (Common in All Branches of Non Engineering)
Course Title	Communication Skills in English - II Lab
Number of Credits	1(L-0 T-0, P-2)
Prerequisites	None

RATIONAL

For business purposes at every level of performance, language remains the most common and important means of communication. A diploma holder who wants to join an industry or organization needs to possess adequate knowledge and skills in language, its usage and presentation. Proficiency both in written and spoken language is required to be developed among the diploma holders

SUBJECT LEARNING OUTCOMES (SLOS)

The first year syllabus will develop among students the basic knowledge and skills related to syntax and semantics of English Language.

CONTENTS

	P
1. Delivering Short Discourses :	8
1.1. About Oneself	
1.2. Describing a Place, Person, an Object	
1.3. Describing a Picture, Photo	
2. Group Discussion :	8
2.1. Developing skills to initiate a discussion [How to open]	
2.2. Snatching initiative from others [Watch for weak points, etc.]	
3. Interview Skills:	10
3.1. Desirable Qualities	
3.2. Preparation –	
3.2.1. Know the Company	
3.2.2. Know Yourself	
3.2.3. Review Common Interview Questions	
3.2.4. Prepare Questions You Want to Ask the Interviewer	
3.3. Using Proper Verbal and Non-Verbal Cues	
3.4. Exhibiting Confidence	
3.5. Tips for Success	

Note:

1. The Medium of teaching and examination will be English.
2. At least one question will be set from each unit.
3. No theory question will be set from syllabus of practicals.

REFERENCE BOOKS

7. Intermediate English Grammar Raymond Murphy, Cambridge University Press
8. English Grammar, Usage & Composition Tickoo & Subramanian, Pub: S. Chand and Co.
9. A Practical Eng. Grammar (and its Exercise Books) Thomson and Martinet, Pub: ELBS
10. High School English Grammar and Composition Wren & Martin, Pub: S. Chand and Co.
11. ABC of Common Grammatical Errors Nigel D Turton, Macmillan India Ltd.
12. Soft Skills Dr. K. Alex, Pub: S. Chand and Co.

* * * *

SEMESTER SCHEME 2020-21

COMPUTER APPLICATIONS-II LAB

Course Code	FT-2009 (Common in All Branches of Non Engineering)
Course Title	Computer Applications - II Lab
Number of Credits	1.5(L-0 T-0, P-3)
Prerequisites	None

RATIONALE

Use of Computer is increasing for precise and speedy work so it is useful to provide computer knowledge to the students. The course provides knowledge of internet, email, web browsing and E-commerce. It also gives overview of Cyber Security and Information technology Act.

The student will be able to understand the concept of Networks, internet and importance of Cyber security in the present time.

SUBJECT LEARNING OUTCOMES (SLOS)

The student will be able to understand the concept of Networks, internet and importance of Cyber security in the present time.

CONTENTS**P**

1. Study of different types of Networks and Network Topologies.	3
2. Visit to different Internet Sites.	3
3. Content Searching using Search Engines.	3
4. Downloading and uploading on Websites	3
5. Creating E-mail accounts, Composing and Sending E-mail.	3
6. Sending E-mail with attachments and signature.	3
7. Updating E-mail setting	3
8. Hands on Experience on Different types of E-commerce Websites	3
9. Exercise on Online shopping showing use of payment gateways	3
10. Identifying Cyber Attacks	6
11. Multimedia Applications	6

REFERENCE BOOKS

- | | |
|---------------------------------------|---|
| 1. Computer Fundamentals | P.K. Sinha and P. Sinha, BPB publication. |
| 2. Data Communications and Networking | Forouzan TMH |
| 3. Internet for Everyone | Alexis Leon & Mathews Leon,
Vikas Publishing House, New Delhi. |

INTRODUCTION TO TEXTILES –II LAB

Course Code	FT-2010 (Same as TD-2010)
Course Title	Introduction to Textiles-II Lab
Number of Credits	.5(L-0 T-0, P-1)
Prerequisites	None

RATIONALE

This subject may be considered as the "backbone" for the students of Textiles Design "Textile" is related with "Fiber" "Yarn" and "Fabric" which may be taught to students through this subject. Apart from these constructive aspects, we also teach the students the different decorating techniques, thus after going through this subject the students may become capable in understanding all other textile related subjects.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. Yarn preparation for weaving.
2. Basics of Dyeing, printing and finishes
3. The importance of textile.
4. General studies of fabric as selection and suitability, care of fabric etc.

CONTENTS

1. Identification test	04
1.1. Burning test	
1.2. Chemical test	
2. Identification of different types of yarn	03
3. Market survey	06

NOTE- prepare a file of all practical exercises done in the subject.

REFERENCE BOOKS

- | | |
|--|--|
| 1. Textiles Fiber to Fabric. | Corbean |
| 2. Textiles. | Norma Hallen and Jane Sadler |
| 3. Textile Fibers. | K.P. Hess |
| 4. Fundamental of Textiles and their Care. | SushilaDhantyagi |
| 5. Textile Science. | J.T. Marsh |
| 6. Textile Science. | Vilenski |
| 7. Fiber and Fabrics of Today. | Mark |
| 8. Textile Products Selection Use and Care. | Alexander |
| 9. Textile Yarn Technology Structure and Appearance. | J.C. Goswami ,J.G. Martindele,F.A.Scardina |
| 10. Textiles. | William Morries |
| 11. The Standard Hand Book of Textiles. | A.J. Hall |
| 12. Textiles in Perspective. | Era Block and Smith |
| 13. Fiber and Fabric of Today. | Hellon Thomson |
| 14. FromFibers to Fabric. | Elizabeth Crale |
| 15. Understanding Textiles. | PhyllipG.Tortora |
| 16. Processing of Fibers in Yarn. | V.Usenko |
| 17. Textile Fibers. | V.A.Shenai |

18. Textile Fabrics and their Selection.
19. Essentials of Textile.
20. Household Textiles and Laundry Work.
21. Chemical Technology of Fibrous Material.

SabelB.Wintate
Marjory L.Jeseeph
DurgaDwelkar
Sadov

SEMESTER SCHEME 2020-21

FUNDAMENTAL THEORY OF TEXTILE DESIGN-II LAB

Course Code	FT-2011 (Same as TD-2011)
Course Title	Fundamental Theory of Textile Design-I Lab
Number of Credits	2.5(L-0 T-0, P-5)
Prerequisites	None

RATIONALE

To enhance the beauty of design, colour plays a very significant role in the expression of one design. Different color schemes provide different feeling and this impart a sense of enrichment to the design. "As the cloth is required to man, colour is required to design", this thinking itself clarifies that there is no use of textile design without adding colours. Thus the aim of this subject is to develop colour sense.

Sketching and drawing are the language of art. If one can sketch and draw the different objects freely, the main aims of this to teach the basics of sketching and drawing with different medium.

Designing is an art created by men with certain limitations. There are some different principles through which one can learn art with more depth and details with the help of different tools, materials and their application.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

4. Functions and uses of colour to develop pattern recognition, memory and absorbing new information.
5. Locate, compare, understand and recall information of colour terminology faster.
6. The course helps students to development of new design aspects for novelty in fabric surface, textile products and various other textile materials in terms of colours and there developments.

CONTENTS

- | | |
|---|----|
| 1. Chromatic Circle Showing Different Colour mentioned in Theory. | 22 |
| 2. Preparation of Sheets for each Colour Scheme. | 23 |
| 3. Exercises on Fabric Sample Pieces : | 20 |
| 3.1. Fabric sample Study through Imitation of colour and design. | |
| 3.2. Chroma and Value. | |

REFERENCE BOOKS

- | | |
|---|--------------------|
| 1. Colour Source Book for Graphic Designers | SadaoNokamnar |
| 2. Designer : Guide to Colour | SadaoNokamnar |
| 3. Colour Harmony | Hideaki chijiwa |
| 4. Colour Trends in Two Volume. | Products Ltd. |
| 5. Watson's Textile Design and Colour. | Z. Gresicki |
| 6. Textile Science. | Vilenski |
| 7. Rooprad Kala keMooladhar | Sharma/Agarwal. |
| 8. Repeat Patterns | Phillips and Peter |

9. Abstract and Floral Designs

E.A.Segug

10. रूपकलाकेमूलाधार

शर्माएवंहटवाल

SEMESTER SCHEME 2020-21

STRUCTURAL TEXTILE DESIGN-I LAB

Course Code	FT-2012 (Same as TD-2012)
Course Title	Structural Textile Design-I Lab
Number of Credits	1(L-0 T-0, P-2)
Prerequisites	None

RATIONALE

Structural fabric design is one of the most important part of Textile design in which the students have to learn and create designs for different woven fabrics, By learning the basics of weaving, students become aware of techniques of fabric construction Actually the techniques of dyeing and printing are applied mainly on constructed fabrics, hence the students should be able to construct at least basic fabrics so that they become aware of the designing of these fabrics.

SUBJECT LEARNING OUTCOMES (SLOS)

After successful completion of this subject, the learner will be able to:

1. Develop new weave structures.
2. Create new structures using color and weave effect.
3. Draw simple and compound structures.
4. Comparative study of weaves
5. Understand the fundamentals of weave and their use

CONTENTS

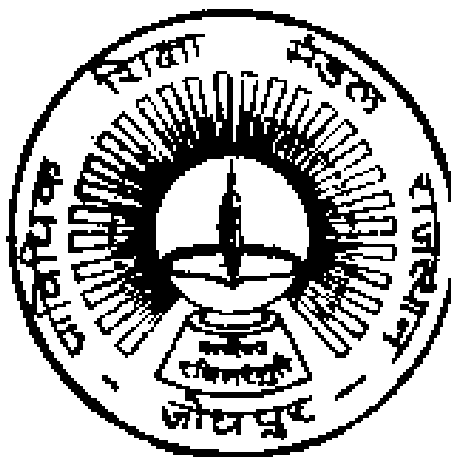
- | | |
|---|----|
| 1. Preparation of loom | 14 |
| 1.1. By using four healds | |
| 1.2. Construct four samples. | |
| 2. Students shall prepare a file of sample collected from Market for the Weaves Studied and analysis. | 12 |

REFERENCE BOOKS

1. Principles of Weaving Mark Rebinson
2. Watson Textile Design and Colour Z.Gresicki
3. Textiles Fibre to Fabris Beanared P.Corbmar
4. Under Standing Textiles. G.Tortora.
5. Handloom Weaving Technology Allen A. Fannin.

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN JODHPUR

SEMESTER SCHEME-2020-21



III SEMESTER
(SESSION 2021-2022 & ONWARDS)

ENVIRONMENTAL STUDIES-I

Course Code	FT-3001 (Common in All Branches of Non Engineering)
Course Title	Environmental Studies-I
Number of Credits	2(L-2 T-0, P-0)
Prerequisites	None

COURSE OBJECTIVES

Environmental study is a subject as per directions of Supreme Court / Govt. of India. Under Act. 51 A (g) of our constitution it is our fundamental duty to protect our environment. A diploma holder must have knowledge of different types of pollution so that she may help in balancing the eco system and controlling pollution by pollution control measures. She should also be aware of environmental laws related to the control of pollution.

COURSE OUTCOMES

After completing the course the Learner will

- Understand the importance of Environmental cleanliness
- Gain knowledge about the causes of Water and Air pollution ,their effects and methods to check the same.
- Have the knowledge of different types of solid waste and their management techniques.

COURSE CONTENTS

1. General :	3	L
1.1 Biotic and abiotic environment.		
1.2 Adverse effects of Environmental Pollution		
1.3 Control strategies		
2. Water Pollution :	7	
2.1 Water Quality Standards		
2.2 Surface and underground water sources		
2.3 Impurities in water and their removal		
2.4 Adverse effects of domestic waste water and industrial effluent to surface water sources		
2.5 Self purification of streams		
3. Air Pollution :	7	
3.1 Sources of air contaminants		
3.2 Adverse effects on human health		
3.3 Measures to check air pollution		
3.4 Greenhouse effect		
3.5 Global warming		
3.6 Acid rain		
3.7 Ozone depletion		
4. Solid Waste Management :	7	
4.1 Introduction to solid waste		
4.2 Its collection and disposal		
4.3 Recovery of resources		
4.4 Sanitary land-filling		
4.5 Vermi-composting		
4.6 Hazardous waste management		

REFERENCE BOOKS :

- | | |
|--|--|
| 1. Patyavaran Shiksha | Dr. A.N. Mathur, Dr. N.S. Rathore & Dr. V.K. Vijay |
| 2. Patyavaran Adhyayan | Dr. Ram Kumar Gujar Dr. B.C. Jat |
| 3. Patyavaran Avabodh | Dr. D.D. Ojha |
| 4. Environmental chemistry and pollution control : | S.S. Dora |
| 5. Ecology concepts and application : | Manuel C. Muller |
| 6. Environmental protection | Emil T. Chanlett |
| 7. Environmental science | Cumingham. Saigo |
| 8. Solid waste management : | C.I.. Mantell |
| 9. पर्यावरण विनाश के कगार पर | राजीव गुप्ता |

11. पर्यावरण जीवों का आंगन
12. पर्यावरण (त्रैमासिक)
13. Panda, New letter

प्रेमानन्द चंदोला
पर्यावरण एवं वन मंत्रालय, नई दिल्ली
WWF-India, New Delhi

TRADITIONAL TEXTILES OF INDIA - I

COURSE CODE	FT 3002
COURSE TITLE	TRADITIONAL TEXTILES OF INDIA - I
NUMBER OF CREDITES AND HOURS/WEEKS	4.0 (L-4 , T-0,P-0)
PREREQUISITES	NIL

RATIONAL -SUBJECT LEARNING OBJECTIVE -

“Tradition” is what going on since long . Traditional textile in fact create a ground for current textiles. With time, taste and liking changes that make influence on designs and usually the changed aspects of design are something used on traditions.

India has been so rich in traditional textiles that even today we find impact of these textiles not only in our homes market , hence the students must be aware of traditional textiles.

SUBJECT LEARNING OUTCOMES (SLOs)

- Be able to appreciate traditional textiles of India viz a viz their material, colours, texture and motifs
- Be able to identify and appreciate various Indian traditional crafts /garments and accessories
- Understand the importance of textile crafts with the historical perspective , the impact of modernization and their contemporary status.
- Be able to apply Indian traditional designs and motifs for contemporary designs.
- Be able to identify traditional Indian textiles and their product diversification in the local markets.

CONTENTS

1.Study of traditional Indian Textiles in reference to -	32
1.1 Historical signification	
1.2 Construction Techniques	
1.3 Styles	
1.4 Colours & motifs	
1.5 Centers of production	
1.6 Present significance textiles should be studies -	
1.6.1 Embroidary	
1.6.1.1 Chikankari	
1.6.1.2 Phulkari	
1.6.1.3 Bengal kantha	
1.6.1.4 Kashmiri	
1.6.1.5 Chamba Rumal of Himachal Pradesh	
1.6.2 Dyeing , Printing & Painting	
1.6.2.1 Sanganeri	
1.6.2.2 Bandhani	
1.6.2.3 Patola	
1.6.2.4 Kalamkari	
1.6.2.5 Madhubani	

2. State wise name of different Indian Traditional Textile . 20

REFERENCE BOOKS :

1 Hand Woven Fabrics of India	Dhamija/ Jain
2 Indian Crafts	D.N. Saraf
3 Traditional Indian Textiles	Gillow John.
4 Masterpieces of Indian Textiles	Rustam J. Metha
5 Brocades of Ahmedabad	Jhala, Uma De.
6 South Indian Traditions of Kalamkari	Lolikavaradrajew
7 Costumes and Textiles of India	BrijBhushan
8 Miniature Painted Techniques	Sumo Hendra
9 Kashmiri and its Shawls	Anonymous
10 Indian Textiles	Irwin John.

TEXTILE DYEING – I

SUBJECT CODE	FT3003
COURSE TITLE	TEXTILE DYEING -I
NUMBER OF CREDITS AND HOURS PER WEEKS	4.0(L-4,T-0, P- 0)
PREREQUISITES	NIL

RATIONAL - SUBJECT LEARNING OBJECTIVES

Dyeing is the application of dyes or pigments on textile material such as fibre , yarns and fabrics with the goals of colour with desired colour fastness . before dyeing pre-treatments of dyeing such as desizing , scouring , bleaching and mercerization play a vital role in processing . Dyeing process involves interaction between the dye and the fibre as well as the movement of dye into the internal parts of the fibre . The Fashion &Textile designer should have a deep understanding of the application of dyes on various types of fabric : this helps in creating different design in the printing process .

SUBJECT LEARNING OUTCOMES(SLOs) –

- To learn about the necessity and application of various pre-treatment given to textile materials during the dyeing process .
- Understand the requirements of pre-treatment in the wet processing of textile materials .
- To understand the dyeing principal of various cellulosic . protein and synthetic fibres .
- To learn the different types of machinery used for dyeing and pre-treatment .
- Select the dyes and recipe for colouring the various fabric.

CONTENTS

1.	Introduction of dyes & dyeing .	4
2.	General theory of dyeing .	4
3.	Pretreatments / preparation of material cotton , wool & silk .	22
	3.1 Singeing	
	3.2 Desizing	
	3.3 Scouring	
	3.4 Bleaching	
	3.5 Mercerization	
	3.6 Heat setting	
4.	Water hardness and its removal (Importance of soft water in dyeing)	12
5.	Auxiliaries of dyes	4
6.	Classification of dyes	2
7.	Details study of direct dye & its after treatments .	4

REFERENCE BOOKS:

1. Textile Science	Vilenski
2. Chemistry of Textile Auxiliaries	Shenai
3. Cotton Piece Dyeing	Gokhale and Shah
4. Chemistry of Dyes and Principle of Dyeing	Shenai
5. Technology of Dyeing	Shenai
6. The Alternative Printing Handbook.	Chris TreweekandZeitly
7. Dictionary of Dyes and Dyeing	K.G. Ponting
8. Dyeing and Chemical Technology of Textile Fibres.	TertmanGrittin
9. Handbook of Textile Fibres, Dyes and Finishes.	Needles.
10. Textile Science	J.T. Marsh.
11. A Dictionary of Dyes and Dyeing	Bell and Hyman
12. A Dictionary of Dyes and Dyeing	Gooch.
13. A Glimpse on Chemical Technology	R.P.Chakraverty

FASHION STUDIES - I

COURSE CODE	FT3004
COURSE TITLE	FASHION STUDIES- I
NUMBER OF CREDITES AND HOURS/WEEKS	3.0(L-3 , T-0,P-0)
PREREQUISITES	NIL

Rationale - Subject learning objectives

Provides a broad overview of costume tradition of diverse cultures from prehistoric times to the present day, explores various items of human decoration and adornment chronological coverage of the development of costume and fashion.

Subject learning outcomes (SLOs)

After studying the learn will gain a positive impact related to:

1. Personality describing the relatively stable set of characteristics, tendencies and temperaments that have been formed by heredity and by social, culture and environmental factors. The traits determine to interact with and react to various people and situations.
2. Develop a sense, that culture are the “ residue” of social communication clothing style.
3. Able to demonstrate the culture , mood, level of confidence ,interests, age, authority, value and identity.
4. Learning the cultural characteristics such as customs, rules, rituals, laws or other patterns that are created and shared.

CONTENT

1.	History of Indian Clothings -	10
	1.1 Indus valley civilization periods	
	1.2 Ancient and classical periods	
	1.2.1 Vedic periods	
	1.2.2 Pre- Mauryan and mauryan period	
	1.2.3 Early classical and classical period	
2.	Reason for wearing cloths	5
	2.1 Clothing for protection	
	2.2 Clothing for adornment	
3.	Clothing the communication of culture	10
	3.1 Conformity of culture expression	
	3.2 Clothing communicates	
	3.2.1 Economic position	
	3.2.2 Social status	
	3.2.3 Gender	
	3.2.4 Age differentiation	
	3.2.5 Marital position	
	3.2.6 Political beliefs	
	3.2.7 Religious practicals	
4.	Application of design to clothing	10
	4.1 Design	
	4.1.1 Definition of design .	
	4.1.2 Structural and applied design of clothing .	
	4.2 Elements of design	
	4.2.1 lines – selection and effects of straight , vertical , horizontal , diagonal , curve and zig zag lines .	
	4.2.2 Form – silhouettes of clothing	
	4.2.3 Selection and effects of textures	
	4.2.4 Space	
	4.2.5 Colour	

4.3 Principles Of design related to individual and fashion

- 4.3.1 Balance – formal informal , radial , vertical and horizontal .
- 4.3.2 Proportion
- 4.3.3 Emphasis .
- 4.3.4 Rhythm
- 4.3.5 Harmony or unity

5. Technical advancement and Industrialization

4

Reference books

1. Individuality a guide for the consumers by mary kefgan and Phyllis Toyctie - Specht
2. Ancient Indian costumes by roshen alkazi
3. Indian textiles and clothing by dr.bhau daji
4. Textiles in ancient India by dr. kiran singh

PATTERN MAKING & GARMENT CONSTRUCTIONS -I LAB

COURSE CODE	FT- 3005
COURSE TITLE	PATTERN MAKING & GARMENT CONSTRUCTIONS -I Lab
NUMBER OF CREDITS AND HOURS PER WEEKS	3.0(L-0,T-0, P-6)
PREREQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES:

Pattern making is a highly skilled technique which provides technical ability to interpret a design with practical understanding of garment construction. This subject focuses on the techniques of garment construction. It will also acquaint students with the overall process of taking measurements and preparation of material before cutting.

SUBJECT LEARNING OUTCOMES [SLOS]:

After completing this subject, the learner will be able to:

1. Acquire knowledge about preparation to be done for clothing construction.
2. Be familiar with tools and techniques of clothing construction and marking.
3. Understand and appreciate the importance of pattern making.
4. Understand the process of taking proper body measurements and using them in drafting following the principles of drafting and pattern making.

CONTENTS

1. Measurement charts for children wear	2
2. How to take and record body measurement.	2
3.Introduction of Sewing Machine with Hand, Tradle and Electric motor	2
3.1 Basic Parts and Attachments	
3.2 Functions	
3.3 Defects and Remedies	
4. Pattern Making:	2
4.1 Methods of pattern making	
4.2 Types of paper pattern	
5. Basic Hand Stitches:	15
5.1 Temporary Stitches: Basting even, Uneven, Diagonal & Slip basting ,Thread marking	
5.2 Permanent Stitches: Running stitch, Hemming, Slip stitch, Back stitch, Run and Back stitch, over casting, over handing, Whipstitch.	
6. Seams and Seam Finishes:	15
6.1 Seams - Types of seams working of common seams Plain seam, Top stitched seam, Welt seam, Lapped seam, Slot seam, Flat fell seam, French seam, Mantua maker's seam, Piped seam.	
6.2 Seam Finishes: Pinked, Edge stitched, Double stitched, Over cast, Herring bone stitch, Bound seam	
7. Drafting, Pattern Making, Estimation and Layout, cutting, stitching & finishing of following garments:	40
7.1 A-line frock	
7.2 Romper	

REFERENCE BOOKS :

- | | |
|---|-------------------|
| 1. Metric Pattern Cutting for Children Wear | Winifud Aldrish |
| 2. Dress Fitting | B.S.P. Profession |
| 3. Vogue Fitting | Harper & Raw |
| 4. Singer Sewing Book | Singer Company |
| 5. Make your Own Dress Patter | Brenda Redmile |
| 6. The Art of Sewing | Anna Jacqued |
| 7.Sew it | Nancy Bruning |
| 8.Sewing of Golden Hands | Marshal Carendish |

TRADITIONAL TEXTILES OF INDIA - I Lab

COURSE CODE	FT 3006
COURSE TITLE	TRADITIONAL TEXTILES OF INDIA - I LAB
NUMBER OF CREDITES AND HOURS/WEEKS	1.0 (L-0 , T-0,P-2)
PREREQUISITES	Nil

RATIONAL - SUBJECT LEARNING OBJECTIVE

“Tradition” is what going on since long . Traditional textile in fact create a ground for current textiles. With time, taste and liking changes that make influence on designs and usually the changed aspects of design are something used on traditions

India has been so rich in traditional textiles that even today we find impact of these textiles not only in our homes market , hence the students must be aware of traditional textiles.

SUBJECT LEARNING OUTCOMES(SLOs)

- Be able to appreciate traditional textiles of India viz a viz their material, colours, texture and motifs
- Be able to identify and appreciate various Indian traditional crafts /garments and accessories
- Understand the importance of textile crafts with the historical perspective , the impact of modernization and their contemporary status.
- Be able to apply Indian traditional designs and motifs for contemporary designs.
- Be able to identify traditional Indian textiles and their product diversification in the local markets.

PRACTICALS

1.	Student shall prepare file by collecting 5 motifs of each topic.	6
2.	Exercises -	20
	2.1 Phulkari	
	2.2 Sanganeri	
	2.3 Patola	
	2.4 Kalamkari	
	2.5 Madhubani	

REFERENCE BOOK

1 Hand Woven Fabrics of India	Dhamija/ Jain
2 Indian Crafts	D.N. Saraf
3 Traditional Indian Textiles	Gillow John.
4 Masterpieces of Indian Textiles	Rustam J. Metha
5 Brocades of Ahmedabad	Jhala, Uma De.
6 South Indian Traditions of Kalamkari	Lolikavaradrajew
7 Costumes and Textiles of India	BrijBhushan
8 Miniature Painted Techniques	Sumo Hendra
9 Kashmiri and its Shawls	Anonymous
10 Indian Textiles	Irwin John.

SURFACE DECORATION I LAB

COURSE CODE	FT 3007
COURSE TITLE	SURFACE DECORATION I LAB
NUMBER OF CREDITS AND HOURS PER WEEK	1.5 (L-0, T-0, P-3)
PREREQUISITES	NIL

SUBJECT LEARNING OBJECTIVES

Surface decoration includes the “thread art” used to embellish a garment or any other product. Ancient form of needlework that has been used worldwide to embellish textiles for decorative and communicative purposes. This subject provides an insight about how-to enhance the look of the fabric/garment by decorating it, using Traditional & Fancy embroidery& design innovative garments with supplements inspired from ornaments and colours of traditional embroidered handicrafts. The purpose of this subject to give students an opportunity to explore a variety of surface decoration techniques from creating the design up to finishing the embellishments

SUBJECT LEARNING OUTCOMES (SLOs)

After completing this subject, the learner will be able to achieve -

1. Acquire knowledge about significance of decoration of fabrics.
2. Be familiar with tools and techniques & precise use of different methods of traditionalembroidery.
3. Explain the scope of value addition of fabric for fashion and apparel products.
4. To develop a skill to create contemporary styles of embroideries for fashion garments.
5. It enables to learn in form and aesthetics that embroidery add colour, texture, richness and dimension to textile.
6. To understand the fabric manipulation techniques.

CONTENTS

1. Prepare a sample of the following embroideries of the world 12
Brief knowledge of the Embroidery such as Introduction, origin, material used, transferring method, techniques and uses
 - 1.1 White Work
 - 1.1.1 Cut work
 - 1.1.2 Drawn thread work
 - 1.1.3 Drawn or Pulled work
 - 1.2 Silk Ribbon Embroidery
2. Prepare a sample of the following traditional embroideries of India 15
Brief knowledge of the Embroidery such as Introduction, origin, material used, transferring method, techniques and uses
 - 2.1 North zone
 - 2.1.1 Kashidakari of Jammu and Kashmir
 - 2.1.2 ChambaRumal of Himachal Pradesh
 - 2.1.3 Phulkari of Punjab
 - 2.1.4 Chikankari of Lucknow Uttar Pradesh
 - 2.1.5 Mukke-ka-Kaam and Dhanka work of Rajasthan
3. Prepare a sample file of embroideries mentioned above with a special Indication of: 3
 - 3.1 Material required for each Embroidery
 - 3.2 Stitches used in each Embroidery
 - 3.3 Collection of relevant motifs and Patterns of each Embroidery
4. Prepare any one article of the following listed below: 9
 - 4.1 Hand Bag
 - 4.2 Pillow Covers
 - 4.3 Kitchen Napkins

- 4.4 Collars
- 4.5 Garment Yokes

REFERENCE BOOKS:

- | | |
|---|------------------------------|
| 1. Beginner's Guide to Crewel Embroidery | Jane Rainbow |
| 2. The Encyclopaedia of Embroidery Techniques | Pauline Brown |
| 3. Encyclopaedia of Needlework | Therese de Dillmont |
| 4. Beginner's Guide to Silk Ribbon | Ann Cox |
| 5. Paisleys | R.M. Lehri |
| 6. Phulkari from Punjab | Anu H. Gupta & Shalina Mehta |

FASHION ILLUSTRATION & APPLICATION -I LAB

COURSE CODE	FT- 3008
COURSE TITLE	FASHION ILLUSTRATION & APPLICATION -I Lab
NUMBER OF CREDITS AND HOURS PER WEEKS	1.0(L-0,T-0, P-2)
PREREQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES

This subject is designed to develop the skill of fashion drawing in order to visualize and analyze, observe and communicate ideas and concepts. A fashion sketch consists of the figurative fashion drawing of a slightly exaggerated, idealized and stylized human figure, along with the clothes and accessories adorning it. The practical knowledge provided by this subject, will provide a strong structured foundation for student's further studies or professional careers.

SUBJECT LEARNING OUTCOMES (SLOS)

After completing this subject, the learner will be able to:

1. Draw the fashion figure and communicate apparel design details using a variety of media.
2. Learn various medium for stylization of croquis.
3. Refining the student's illustration skills.
4. Illustrate components such as necklines, collars, sleeves, headgears etc.
5. Sketch and colour dresses on different themes on figures in different colors, patterns and textures.

CONTENTS

	P
1. Sketches Related to Boys / Girls	8
1.1 Necklines	
1.2 Collars	
1.3 Sleeves and Cuffs	
1.4 Yokes	
1.5 Pockets	
1.6 Gathers, Pleats and Tucks	
1.7 Ruffles, Cowls	
2. Figure Drawing for children's of different age groups	8
2.1 Stick Figure	
2.2 Block Figure	
2.3 Flesh Figure	
3. Sketches of Boy / Girl Garments in following:	
3.1 Pencil	
3.2 Wax	
3.3 Crayon	
3.4 Ink	
3.5 Water and Poster	10
Colours Casual Wear: Day, Evening, Night wear, Sports wear	

REFERENCE BOOKS:

- | | |
|---|------------------|
| 1. Fashion Design Illustrations | Ritu |
| 2. Foundation in fashion design and illustration | Julian Seaman |
| 3. Fashion Illustration Techniques | Zeshu Takamura |
| 4. Children's Clothes | Conran Actopus |
| 5. Kiddys Fashion | Wongs Wary Press |
| 6. McCall's Vogue and Simplicity (<i>Monthly Magazines</i>) | |
| 7. Kiddy Vol - 1 to 25 | |
| 8. Fashion Magazines | |

ENVIRONMENTAL STUDIES-I LAB

Course Code	FT-3009 (Common in All Branches of Non Engineering)
Course Title	Environmental Studies-I Lab
Number of Credits	1 (L-0, T-0, P-2)
Prerequisites	None

COURSE OBJECTIVE

Environmental study is a subject as per directions of Supreme Court / Govt. of India. Under Act. 51 A (g) of our constitution it is our fundamental duty to protect our environment. A diploma holder must have knowledge of different types of pollution so that she may help in balancing the eco system and controlling pollution by pollution control measures. She should also be aware of environmental laws related to the control of pollution.

COURSE OUTCOMES

After completing the course the Learner will

1. Understand the extent of Air pollution in their city.
2. Understand the extent of Water pollution in their city.
3. Know about the Ph value of water , hardness and TDS of water, their importance method of determination .
4. Have knowledge of solid waste management of their city

PRACTICALS

1. Visit to the important circles and measurement of Air Quality Index
2. Determination of Ph Value of tap Water
3. Determination of Hardness of tap Water by EDTA Method
4. Determination of TDS of tap Water
5. Visiting the local agency to Prepare the report of solid waste management of the city .
6. Plantation

TEXTILE DYEING – I LAB

SUBJECT CODE	FT 3010
COURSE TITLE	TEXTILE DYEING –I LAB
NUMBER OF CREDITS AND HOURS PER WEEKS	1.0(L-0 , T-0 , P-2)
PREREQUISITES	NIL

RATIONAL - SUBJECT LEARNING OBJECTIVES

Dyeing is the application of dyes or pigments on textile material such as fibre , yarn and fabric with the goal of colour with desired colour fastness . Before dyeing pre-treatment of dyeing such as desizing , scouring , bleaching and mercerization play a vital role in processing . Dyeing process involves interaction the dye and the fibre as well as the movements of dye into the internal parts of the fibre . The textile designer should have a deep understanding of the application of dye on various type of fabric ; This helps in creating diffrents design in the printing process .

SUBJECT LEARNING OUTCOMES (SLOs)

1. To learn about the necessity and application of various pre-treatment given to textile materials during process .
2. Understand the requirements if pre-treatment in the wet processing of textile materials .
3. To understand the dyeing principal cellulosic , protien , and synthetic fibres .
4. To learn the different type of machinery used for dyeing and pre-treatments.
5. Select the dyes and recipe for colouring the various fabrics .

PRACTICALS

- | | | |
|----|---|----|
| 1. | Desizing of grey cotton fabric . | 2 |
| 2. | Scouring of desized cotton fabric . | 2 |
| 3. | Scouring of blended fabrics . | 3 |
| 4. | Bleaching of scoured cotton with hydrogen proxide or bleaching powder . | 3 |
| 5. | Direct dye on cotton fabric with different shade percentage . | 16 |

REFERENCE BOOKS

- | | | |
|----|---|------------------|
| 1. | Textile Science | Vilenski |
| 2. | Chemistry of Textile Auxiliaries | Shenai |
| 3. | Cotton Piece Dyeing | Gokhale and Shah |
| 4. | Chemistry of Dyes and Principle of Dyeing | Shenai |
| 5. | Technology of Dyeing | Shenai |

INTRODUCTION TO TEXTILE ART AND CRAFT-II LAB

Course Code	FT 3011
Course Title	Introduction of Textile Art And Craft-II LAB
Number of Credits and hours per weeks	1.5(L-0,T-0,P-3)
Prerequisites	Nil

RATIONAL - SUBJECT LEARNING OBJECTIVE

Art craft are interdependent discipline. The development of textile art and craft has a long history. Art emphasizes ideas, feelings & visual qualities and craft emphasizes the right use of material and tools. Art and Craft provide a unique part of the education of the whole person, through heart, head and hand.

Present artistic world has a started imparting it as important aspect of fashion and textile designing.

SUBJECT LEARNING OUTCOMES(SLOs)

The art and craft develop the student's ability to:-

1. Work from imagination, memory and direct observation.
2. Give a personal response to an idea.
3. Understand and use the art and design elements.
4. Better understanding of different art and crafts i.e. Paper craft, Crochet, Shiobri and Macrame.
5. Use a variety of brainstorming techniques to generate ideas.
6. Develop ideas that are relevant and responsive to the world around them.
7. Work independently or collaboratively to achieve started goals.

CONTENTS

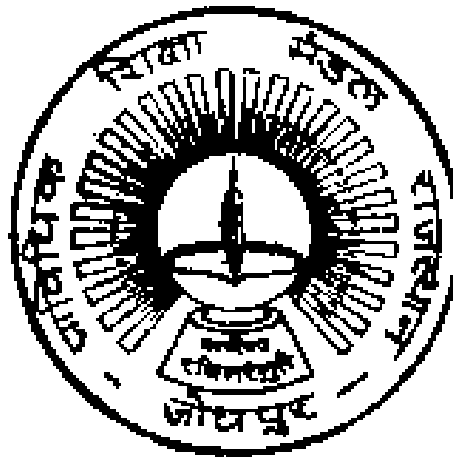
1. Study of paper Crafts -	11
1.1 Introduction to Paper Craft.	
1.2 Types of paper craft.	
2.Study of crochet Techique-	9
2.1. Intoduction to crochet.	
2.2 Study on traditional aspects of crochet of India.	
2.3 Tools and equipments Required for design formation.	
3. Macrame	8
3.1 types of knots	
3.2 increasing and decreasing method	
4. Shiobri	11
4.1 Historical Significance.	
4.2 Different Techniques of Shibori.	
• Prepare articals of above topics.	

REFERENCE BOOKS:

- | | |
|--|-------------------------|
| 1. Shibori | Yoshika Iwamoto Wada |
| 2. Shibori For Textile Artist | Janice Gunner |
| 3. Shibori Design and Technique | Mandy Southan |
| 4. Step by Step Guide to 200 Crochet Stitches | Tracey Todhunter |
| 5. Complete Crochet Course | Shannon Mullett-Bowlsby |
| 6. Braiding Technology for Textiles | Y.Kyosev |
| 7. Macrame: The craft of creative knotting for your home | Fanny Zedenius |

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN JODHPUR

SEMESTER SCHEME-2020-21



IV SEMESTER
(SESSION 2021-2022 & ONWARDS)

ENVIRONMENTAL STUDIES-II

Course Code	FT-4001 (Common in All Branches of Non Engineering)
Course Title	Environmental Studies-II
Number of Credits	2 (L-2 T-0, P-0)
Prerequisites	None

COURSE LEARNING OBJECTIVES

Environmental study is a subject as per directions of Supreme Court / Govt. of India. Under Act. 51 A (g) of our constitution it is our fundamental duty to protect our environment. A diploma holder must have knowledge of different types of pollution so that she may help in balancing the eco system and controlling pollution by pollution control measures. She should also be aware of environmental laws related to the control of pollution.

COURSE OUTCOMES-

After completing the course the Learner will

- Understand the importance of Environmental cleanliness
- Gain knowledge about the causes of Land pollution , Land erosion and prevention
- Understand about Biodiversity and ecosystems
- Water harvesting methods and about the Rural Sanitation
- Know the different Non conventional energy sources and their advantages

COURSE CONTENTS**1. Land Pollution :**

- 1.1 Soil conservation
- 1.2 Land erosion
- 1.3 Afforestation

2. Ecology :

- 2.1 Basics of species
- 2.2 Biodiversity
- 2.3 Population dynamics
- 2.4 Energy flow
- 2.5 Ecosystems

3. Water Harvesting and Rural Sanitation :

7

- 3.1 Water harvesting techniques
- 3.2 Different schemes of Rural Water Supply in Rajasthan
- 3.3 Rural Sanitation
- 3.3 Septic Tank
- 3.5 Collection and disposal of wastes
- 3.6 Bio-gas
- 3.7 Community Awareness and participation

4. Non Conventional Energy Sources :

7

- 4.1 Non-Conventional (Renewable) sources of energy
- 4.2 Solar energy, Wind energy, Bio-mass energy, Hydrogen energy

REFERENCE BOOKS :

- | | |
|--|--|
| 1. Patyavaran Shiksha | Dr. A.N. Mathur, Dr. N.S. Rathore & Dr. V.K. Vijay |
| 2. Patyavaran Adhyayan | Dr. Ram Kumar Gujar Dr. B.C. Jat |
| 3. Patyavaran Avabodh | Dr. D.D. Ojha |
| 4. Environmental chemistry and pollution control : | S.S. Dora |

5. Ecology concepts and application : Manuel C. Muller
6. Environmental protection Emil T. Chanlett
7. Environmental science Cumingham. Saigo
8. Solid waste management : C.I. Mantell
9. Introduction to Environmental Engineering & Science Prentice Hall of India, 1995
10. Concept of Ecology, 1991 Edward J Kormondy
11. Ecology 1975 Odum
12. Environmental Engineering Peavy, Rowe, Tehobaniglum
13. Environmental Impact Assessment Mc Graw Hill, NewYork, 1977
14. Environmental Technologies for Sustainable Development Dr. Upendra Pandel
Dr. M.P. Poonia
15. Environmental Pollution & Management V.K. Kohli & Vikas Kohli
16. lk;kZoj.k fouk'k ds dxkj ijkktho xqlrk
17^ण पर्यावरण जीवों का आंगन प्रेमानन्द चंदोला
18^ण पर्यावरण (त्रैमासिक) पर्यावरण एवं वन मंत्रालय, नई दिल्ली
19. Panda, New letter WWF-India, New Delhi

SEMESTER SCHEME

TRADITIONAL TEXTILES OF INDIA - II

COURSE CODE	FT4002
COURSE TITLE	TRADITIONAL TEXTILES OF INDIA - II
NUMBER OF CREDITS AND HOURS/WEEKS	4.0(L-4 , T-0,P-0)
PREREQUISITES	NIL

RATIONAL–SUBJECT LEARNING OBJECTIVE -

“Tradition” is what going on since long . Traditional textile in fact create a ground for current textiles. With time, taste and liking changes that make influence on designs and usually the changed aspects of design are something used on traditions

India has been so rich in traditional textiles that even today we find impact of these textiles not only in our homes market , hence the students must be aware of traditional textiles.

SUBJECT LEARNING OUTCOMES (SLOs)

- Be able to appreciate traditional textiles of India viz a viz their material, colours, texture and motifs
- Be able to identify and appreciate various Indian traditional crafts /garments and accessories
- Understand the importance of textile crafts with the historical perspective , the impact of modernization and their contemporary status.
- Be able to apply Indian traditional designs and motifs for contemporary designs.
- Be able to identify traditional Indian textiles and their product diversification in the local markets.

CONTENTS

1.Study of traditional Indian Textiles in reference to -	32
1.1 Historical signification	
1.2 Construction Techniques	
1.3 Styles	
1.4 Colours & motifs	
1.5 Centers of production	
1.6 woven	
1.6.1 Brocade	
1.6.2 Jamdani	
1.6.3 Baluchar	
1.6.4 Kullu shawl	
1.6.5 Kanchupuram	
1.6.6 Kota Doria	
1.6.7 Maheshwani	
1.6.8 Chanderi	
2 . State Wise Of Different Indian Traditional textile .	20

REFERENCE BOOKS :

1 Hand Woven Fabrics of India	Dhamija/ Jain
2 Indian Crafts	D.N. Saraf
3 Traditional Indian Textiles	Gillow John.
4 Masterpieces of Indian Textiles	Rustam J. Metha
5 Brocades of Ahmedabad	Jhala, Uma De.
6 South Indian Traditions of Kalamkari	Lolikavaradrajew
7 Costumes and Textiles of India	BrijBhushan
8 Miniature Painted Techniques	Sumo Hendra
9 Kashmiri and its Shawls	Ananyamous
10 Indian Textiles	Irwin John.

TEXTILE DYEING – II

SUBJECT CODE	FT4003
COURSE TITLE	TEXTILE DYEING -II
NUMBER OF CREDITS AND HOURS PER WEEKS	4.0(L-4, T-0, P- 0)
PREREQUISITES	NIL

RATIONAL-SUBJECT LEARNING OBJECTIVES

Dyeing is the application of dyes or pigments on textile material such as fibre , yarns and fabrics with the goals of colour with desired colour fastness . before dyeing pre-treatments of dyeing such as desizing , scouring , bleaching and mercerization play a vital role in processing . Dyeing process involves interaction between the dye and the fibre as well as the movement of dye into the internal parts of the fibre . The Textile designer should have a deep understanding of the application of dyes on various types of fabric : this helps in creating different design in the printing process .

SUBJECT LEARNING OUTCOMES (SLOs)

- To learn about the necessity and application of various pre-treatment given to textile materials during the dyeing process .
- Understand the requirements of pre-treatment in the wet processing of textile materials .
- To understand the dyeing principal of various cellulosic . protein and synthetic fibres .
- To learn the different types of machinery used for dyeing and pre-treatment .
- Select the dyes and recipe for colouring the various fabric.

CONTENTS

- | | |
|---|----|
| 1. Study the classification , characteristics and application of following dyes – | 15 |
| 1.1 Reactive Dye | |
| 1.2 Acid Dye | |
| 1.3 Vat Dye | |
| 1.4 Sulphur Dye | |
| 1.5 Disperse Dye | |
| 2. Dyeing of blended fabric. | 10 |
| 3. Fastness of dyeing on fabric. | 7 |
| 4. Elementary knowledge of dyeing methods. | 10 |
| 4.1 Dope Dyeing | |
| 4.2 Fiber Dyeing | |
| 4.3 Yarn Dyeing | |
| 4.4 Piece Dyeing | |
| 4.5 Garment Dyeing | |
| 5. Advantages and disadvantages of above dyeing methods. | 5 |
| 6. Quality control in garments dyeing. | 5 |

REFERENCE BOOKS:

- | | |
|-------------------------------------|----------|
| 1. Textile Science | Vilenski |
| 2. Chemistry of Textile Auxiliaries | Shenai |

- | | |
|---|------------------|
| 3. Cotton Piece Dyeing | Gokhale and Shah |
| 4. Chemistry of Dyes and Principle of Dyeing | Shenai |
| 5. Technology of Dyeing | Shenai |
| 6. The Alternative Printing Handbook.
TreweekandZeitly | Chris |
| 7. Dictionary of Dyes and Dyeing | K.G. Ponting |
| 8. Dyeing and Chemical Technology
of Textile Fibres. | TertmanGrittin |
| 9. Handbook of Textile Fibres,
Dyes and Finishes. | Needles. |
| 10. Textile Science | J.T. Marsh. |
| 11. A Dictionary of Dyes and Dyeing | Bell and Hyman |
| 12. A Dictionary of Dyes and Dyeing | Gooch. |
| 13. A Glimpse on Chemical Technology | R.P.Chakraverty |

SEMESTER SCHEME 2020-21

FASHION STUDIES – II

COURSE CODE	FT 4004
COURSE TITLE	Fashion Studies - II
NUMBER OF CREDITES AND HOURS/WEEKS	3.0(L-3 , T-0,P-0)
PREREQUISITES	NIL

RATIONAL – SUBJECT LEARNING OBJECTIVES

This course provides an overview of the history of Indian fashion from the medieval period to the present century. Students will also learn about the heritage and influence of historical costumes on the latest trends and the socio-psychological impact of clothing.

SUBJECT LEARNING OUTCOMES (SLOs)

After completing this subject, the learner will be able to :-

1. Understand the importance of studying Indian fashion history as a source of inspiration.
2. Explain the social – cultural factors affecting fashion.
3. Understand psychological factors that motivate human behavior.
4. Understand the evolution of costume from ancient civilization to modern fashion trends.
5. Apply psychological theories to solve real-world problems in the fashion industry.

CONTENTS

1 .	History of Indian Clothings .	10
	1.1 Medieval Period .	
	1.2 Modern Period .	
	1.3 Post Independence	
2	Sociological And Psychological Impact and Influences Of Clothing .	2
3	Individuality – A Search For Identity .	9
	3.1 Personal appearance and awareness .	
	3.2 How personality is expressed with clothing .	
	3.3 Psychological interpretation of dress .	
	3.4 Self concept and self- image .	
	3.5 Value attitude and interest affecting personality	
4	Application of design to clothing	12
	4.1 design	
	4.1.1 Definition of design .	
	4.1.2 Structural and applied design of clothing .	
	4.2 Elements of design	
	4.2.1 lines – selection and effects of straight , vertical , horizontal , diagonal , curve and zig zag lines .	
	4.2.2 Form – silhouettes of clothing	
	4.2.3 Selection and effects of textures	
	4.2.4 Space	
	4.2.5 Colour	
	4.3 Principles Of design related to individual and fashion	
	4.3.1 Balance – formal informal , radial , vertical and horizontal .	
	4.3.2 Proportion	

- 4.3.3 Emphasis .
- 4.3.4 Rhythm
- 4.3.5 Harmony or unity

- 5 psychological effects of warm and cool hue . 2
- 6 value and clothing selection . 2
- 7 colour chroma and clothing selection . 2

REFERENCE BOOK

- 1..Individuality a guide for the consumers by mary kefgen and phly llis touchie - specht
2. ancient Indian Costumes by roshen alkazi
3. Indian texyiles and clothing by dr. bhau daji
- 4.textiles in ancient Indian by dr . kiran singh

SEMESTER SCHEME 2020-21

PATTERN MAKING & GARMENT CONSTRUCTIONS -II LAB

COURSE CODE	FT- 4005
COURSE TITLE	PATTERN MAKING & GARMENT CONSTRUCTIONS -II LAB
NUMBER OF CREDITS AND HOURS PER WEEKS	3.0(L-0,T-0, P-6)
PREREQUISITES	NIL

RATIONAL - SUBJECT LEARNING OBJECTIVES:

This course will help students to learn pattern making , layout ,cutting, stitching and finishing of ladies garments. & to make adaptations in drafting of ladies garments according to the design and contemporary fashion.

SUBJECT LEARNING OUTCOMES (SLOS)

After completing this subject, the learner will be able to:

1. Make Paper patterns for Ladies Garments according to design.
2. Understand the different Pattern making Techniques.
3. Use of appropriate Pattern Making Techniques.
4. Create designer garments by adapting basic Blocks

CONTENTS

- | | |
|---|----|
| 1. Measurement Chart for Ladies. | 2 |
| 2. Drafting for Ladies Garments with Instructions | 4 |
| Basic Bodice block | |
| Sleeve Block | |
| Hip Block | |
| 3. Introducing Fullness: | 15 |
| Pleats: Knife Pleats, Box Pleats, Inverted Pleats, Kick Pleats, Fan Pleats, Cartridge Pleats Pinch Pleat. | |
| Tucks | |
| Pin Tucks - Piped or Corded tucks, Cross Tucking | |
| Wide tucks - Blind Tucks, Spaced Tucks, Group Tucking with Scalloped effect. | |
| 4. Hem Finishes: | 6 |
| Stitched and Turned hem | |
| Seam Binding Hem Finish | |
| Catch Stitches Hem | |
| Narrow Machine Stitched Hem | |
| Rolled or Whipped Hem | |
| Shell Edged Hem for Circular or Flared Skirts. | |
| 5. Designing, Adaptation ,Paper Pattern Making, Estimation and layout, cutting, stitching and finishing of following garments:- | 51 |
| Top with Adaptation. | |
| Skirt (A-line & Circular) | |

REFERENCE BOOKS :

- | | |
|---|-------------------|
| 1. Metric Pattern Cutting for Children Wear | Winifud Aldrish |
| 2. Dress Fitting | B.S.P. Profession |
| 3. Vogue Fitting | Harper & Raw |
| 4. Singer Sewing Book | Singer Company |
| 5. Make your Own Dress Pattern | Brenda Redmile |
| 6. The Art of Sewing | Anna Jacqued |
| 7. Sew it | Nancy Bruning |
| 8. Sewing of Golden Hands | Marshal Carendish |
| 9. Sewing | Jean Kimmod |

TRADITIONAL TEXTILES OF INDIA - II Lab

COURSE CODE	FT 4006
COURSE TITLE	TRADITIONAL TEXTILES OF INDIA - II LAB
NUMBER OF CREDITES AND HOURS/WEEKS	1.5(L-0 , T-0,P-3)
PREREQUISITES	NIL

RATIONAL-SUBJECT LEARNING OBJECTIVE -

“Tradition” is what going on since long . Traditional textile in fact create a ground for current textiles. With time, taste and liking changes that make influence on designs and usually the changed aspects of design are something used on traditions

India has been so rich in traditional textiles that even today we find impact of these textiles not only in our homes market , hence the students must be aware of traditional textiles.

SUBJECT LEARNING OUTCOMES (SLOs)

1. Be able to appreciate traditional textiles of India viz a viz their material, colours, texture and motifs
2. Be able to identify and appreciate various Indian traditional crafts /garments and accessories
3. Understand the importance of textile crafts with the historical perspective , the impact of modernization and their contemporary status.
4. Be able to apply Indian traditional designs and motifs for contemporary designs.
5. Be able to identify traditional Indian textiles and their product diversification in the local markets.

PRACTICALS

- | | |
|---|----|
| 1. Student shall prepare file by collecting 5 motifs of each topic. | 9 |
| 2. Exercises - | 30 |
| 2.1 Kanchipuram | |
| 2.2 Maheshwari | |
| 2.3 Brocode | |
| 2.4 Jamdani | |
| 2.5 Baluchar | |

REFERENCE BOOKS :

- | | |
|--|------------------|
| 1 Hand Woven Fabrics of India | Dhamija/ Jain |
| 2 Indian Crafts | D.N. Saraf |
| 3 Traditional Indian Textiles | Gillow John. |
| 4 Masterpieces of Indian Textiles | Rustam J. Metha |
| 5 Brocades of Ahmedabad | Jhala, Uma De. |
| 6 South Indian Traditions of Kalamkari | Lolikavaradrajew |
| 7 Costumes and Textiles of India | BrijBhushan |
| 8 Miniature Painted Techniques | Sumo Hendra |
| 9 Kashmiri and its Shawls | Anonymous |
| 10 Indian Textiles | Irwin John. |

SURFACE DECORATION II LAB

COURSE CODE	FT 4007
COURSE TITLE	SURFACE DECORATION II LAB
NUMBER OF CREDITS AND HOURS PER WEEK	2.0(L-0, T-0, P-4)
PREREQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES

Surface decoration includes the “Thread Art” used to embellish a garment or any other product. Ancient form of needlework that has been used worldwide to embellish textiles for decorative and communicative purposes. This subject provides an insight about how-to enhance the look of the fabric/garment by decorating it, using Traditional & Fancy embroidery & design innovative garments with supplements inspired from ornaments and colours of traditional embroidered handicrafts. The purpose of this subject to give students an opportunity to explore a variety of surface decoration techniques from creating the design up to finishing the embellishments

SUBJECT LEARNING OUTCOMES [SLOS]:

After completing this subject, the learner will be able to achieve -

1. Acquire knowledge about significance of decoration of fabrics.
2. Be familiar with tools and techniques & precise use of different methods of traditional embroidery.
3. Explain the scope of value addition of fabric for fashion and apparel products.
4. To develop a skill to create contemporary styles of embroideries for fashion garments.
5. It enables to learn in form and aesthetics that embroidery add colour, texture, richness and dimension to textile.
6. To understand the fabric manipulation techniques.

CONTENTS**1.PREPARE A SAMPLE OF THE FOLLOWING EMBROIDERIES OF THE WORLD 30**

Brief knowledge of the Embroidery such as Introduction, origin, material used, transferring method, techniques and uses

- 1.1 Counted Thread Embroidery
- 1.2 Cross stitch Embroidery
- 1.3 Canvas Embroidery
- 1.4 Assisi Work
- 1.5 Black Work
- 1.6 Altering Surface
- 1.7 Smocking
 - 1.7.1 English Smocking
 - 1.7.2 Canadian or North American Smocking
- 1.8 Patchwork
- 1.9 Applique

2.PREPARE A SAMPLE OF THE FOLLOWING TRADITIONAL EMBROIDERIES OF INDIA 30

Brief knowledge of the Embroidery such as Introduction, origin, material used, transferring method, techniques and uses.

- 2.1 WEST ZONE
 - 2.1.1 Kutch Embroidery of Gujrat
- 2.2 EAST ZONE
 - 2.2.1 Kantha work of West Bengal
- 2.3 SOUTH ZONE
 - 2.3.1 Kasuti of Karnataka

1. PREPARE A SAMPLE FILE OF EMBROIDERIES MENTIONED ABOVE WITH A SPECIAL INDICATION OF:5
Material required for each Embroidery Stitches used in each Embroidery
Collection of relevant motifs and Patterns of each Embroidery

2. PREPARE ANY ONE ARTICLE OF THE FOLLOWING LISTED BELOW:

4

1. Clutch Purse
2. Tea Cosy Cover
3. Table Napkins
4. Sleeves
5. Garment Necklines

REFERENCE BOOKS:

1. The Encyclopaedia of Embroidery Techniques
2. Designs for a Lifetime
3. Teaching needle craft
4. The Dictionary of needlework
5. The art of Elegant Hand Embroidery Embellishment and Appliqué
6. Embroidered & Embellished

Pauline Brown
Usha Shrikant
Thomes Hudson
Sophia Carfield
Janice Vaine
Christen Brown

SEMESTER SCHEME 2020-21

FASHION ILLUSTRATION & APPLICATION -II LAB

COURSE CODE	FT- 4008
COURSE TITLE	FASHION ILLUSTRATION & APPLICATION -II LAB
NUMBER OF CREDITS AND HOURS PER WEEKS	1.5(L-0,T-0, P-3)
PREREQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES:

This subject is designed to develop the skill of fashion drawing in order to visualize and analyze, observe and communicate ideas and concepts. A fashion sketch consists of the figurative fashion drawing of a slightly exaggerated, idealized and stylized human figure, along with the clothes and accessories adorning it. The practical knowledge provided by this subject, will provide a strong structured foundation for student's further studies or professional careers.

SUBJECT LEARNING OUTCOMES (SLOS)

After completing this subject, the learner will be able to:

1. Draw the fashion figure and communicate apparel design details using a variety of media.
2. Learn various medium for stylization of croquis.
3. Refining the student's illustration skills.
4. Illustrate trendy fashion accessories .
5. Sketch and colour dresses on different themes on figures in different colors, patterns and textures.

CONTENT

1.	Sketches related to Fashion Accessories:	9
	1.1 Hand Bags	
	1.2 Hats	
	1.3 Ties	
	1.4 Belts	
	1.5 Scarves	
	1.6 Mask	
	1.7 Bow	
2.	Basic gesture drawing (Female)	9
	2.1 Block Figure	
	2.2 Stick Figure	
	2.3 Fleshing Figure	
3.	Draping garments on female croqui.	12
	3.1 Casual Wear	
	3.2 Formal Wear	
4.	Explore and Illustrate the Boards according to applicable Components- Images, colours, textures and explanations	9
	4.1 Theme and Mood Board	
	4.2 Fabric Swatch Board	

REFERENCE BOOKS:

1. Fashion Design Illustrations

Ritu

2. Foundation in fashion design and illustration
3. Fashion Illustration Techniques
4. Mccall's Vogue and Simplicity (*Monthly Magazines*)

Julian Seaman
ZeshuTakamura

SEMESTER SCHEME 2020-21

ENVIRONMENTAL STUDIES-II LAB

Course Code	FT4009 (Common in All Branches of Non Engineering)
Course Title	Environmental Studies-II lab
Number of Credits	1 (L-0, T-0, P-2)
Prerequisites	None

Course Objective:

Environmental study is a subject as per directions of Supreme Court / Govt. of India. Under Act. 51 A (g) of our constitution it is our fundamental duty to protect our environment.

A diploma holder must have knowledge of different types of pollution so that she may help in balancing the eco system and controlling pollution by pollution control measures. She should also be aware of environmental laws related to the control of pollution.

Course Outcomes

After completing the course the Learner will

- Understand the extent of Land pollution in their city.
- Understand the local birds, plants, insects.
- Importance of Afforestation (Plantation)
- Have awareness towards Environment

Practicals

1. Visit to local area to document environmental assets - mountain / desert / river / forest
2. Study of local birds, plants, insects
3. Plantation
4. Environmental awareness campaign through exhibitions

Note : After visits/ study, the students will prepare posters , charts , reports for exhibitions / presentations.

SEMESTER SCHEME 2020-21

TEXTILE DYEING – II LAB

SUBJECT CODE	FT4010
COURSE TITLE	TEXTILE DYEING –II LAB
NUMBER OF CREDITS AND HOURS PER WEEKS	1.0(L-0 , T-0 , P-2)
PREREQUISITES	NIL

RATIONAL-SUBJECT LEARNING OBJECTIVES

Dyeing is the application of dyes or pigments on textile material such as fibre , yarn and fabric with the goal of colour with desired colour fastness . Before dyeing pre-treatment of dyeing such as desizing , scouring , bleaching and mercerization play a vital role in processing . Dyeing process involves interaction the dye and the fibre as well as the movements of dye into the internal parts of the fibre . The textile designer should have a deep understanding of the application of dye on various type of fabric ; This helps in creating diffrents design in the printing process .

SUBJECT LEARNING OUTCOMES (SLOs)

- To learn about the necessity and application of various pre-treatment given to textile materials during process .
- Understand the requirements if pre-treatment in the wet processing of textile materials .
- To understand the dyeing principal cellulosic , protien , and synthetic fibres .
- To learn the different type of machinery used for dyeing and pre-treatments.
- Select the dyes and recipe for colouring the various fabrics .

PRACTICALS

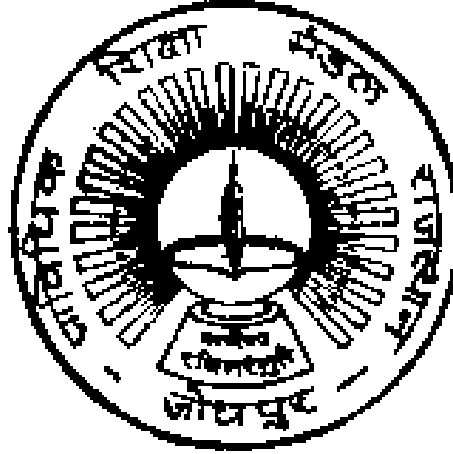
- | | |
|--|----|
| 1. Reactive dye on the cotton fabric in different shade percentage . | 3 |
| 2. Acid dye on wool fabric in different shade percentage . | 3 |
| 3. Acid dye on silk fabric in different shade percentage . | 3 |
| 4. Sulphur dye on cotton fabric in different shade percentage . | 3 |
| 5. Dye on blended fabrics (at least two) . | 14 |

REFERENCE BOOKS:

- | | |
|--|------------------|
| 1. Textile Science | Vilenski |
| 2. Chemistry of Textile Auxiliaries | Shenai |
| 3. Cotton Piece Dyeing | Gokhale and Shah |
| 4. Chemistry of Dyes and Principle of Dyeing | Shenai |
| 5. Technology of Dyeing | Shenai |

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN JODHPUR

SEMESTER SCHEME-2020-21



V SEMESTER
(SESSION 2022-2023 & ONWARDS)

PROFESSIONAL MANAGEMENT & ENTREPRENEURSHIP-I

Course Code	FT 5001(Common to all Branches of Non Engineering)
Course Title	Professional Management & Entrepreneurship-I
Number of Credits	3 (L-3, T-0, P-0)
Prerequisites	None

Course objective:

To achieve the targets and goals in an organization, it is essential to have the knowledge of various facets of businesses and management. On the other hand, economic development of a nation much depends upon entrepreneurship development. With large pool of technically educated youth and open market system, a big number of youth can turn to be business ventures, generating employment opportunities and leading to better utilization of resources.

This course not only gives an insight into the basic concepts, principles and processes of management and business organizations but also understanding of different aspects of entrepreneurship development to young entrants.

COURSE OUTCOMES

On completion of the course student will be able to:

1. Get familiarize with basics of business organization and management
2. Acquire the essential knowledge required for becoming an entrepreneur

COURSE CONTENTS**1. Meaning and Scope of Business**

- 1.1 Definition
 - 1.1.1 Profession
 - 1.1.2 Trade
 - 1.1.3 Industry
- 1.2 Objectives of business and profession

2. Types of Business Organization

- 2.1 Brief description
- 2.2 Advantages and disadvantages of
 - 2.2.1 Individual/Sole
 - 2.2.2 Partnership
 - 2.2.3 Cooperative
 - 2.2.4 Private and Public limited organizations
- 2.3 Organizational Charts
- 2.4 Business Ethics
- 2.5 Characteristics of small businesses

3. Management Techniques

- 3.1 Leadership
- 3.2 Authority
- 3.3 Responsibility
- 3.4 Functions of Management

4. Human Resource Management

- 4.1 Functions & Importance
- 4.2 Human resource planning
- 4.3 Training
- 4.4 Mentoring
- 4.5 Motivating
- 4.6 Grievances and their handling

5. Material Management

- 5.1 Duties of purchase department

- 5.2 Purchase order & Contracts
- 5.3 Tendering Procedure
- 5.4 Tenders and their types
- 5.5 Tender related costs
- 5.6 Store Keeping
 - 5.6.1 Objectives
 - 5.6.2 Receipt and issue of material
 - 5.6.3 Physical verification of store
 - 5.6.4 Disposal methods

- 6. Entrepreneurship**
 - 6.1 Introduction, scope and need
 - 6.2 Characteristics of Entrepreneurship
 - 6.3 Classification of Industries
 - 6.4 Types of Industries
 - 6.5 Industrial Policy

- 7. Entrepreneurship Support Systems**
 - 7.1 Institutional support from state and central organizations viz NSIC, SIDO, KVIC, DIC, SIS SIDBI, SFC, RFC etc
 - 7.2 Loan/credit facilities by banks and financial institutions
 - 7.3 Facilities to Women entrepreneurs
 - 7.4 Important legislations (Factory Act, Minimum Wage Act, Workmen Compensation Act etc)

REFERENCES:

1. Industrial Engineering and Management, O P Khanna
2. Handbook of Small Scale Industry by P M Bhandari
3. Entrepreneurial Development, S S Khanka, S Chand
4. Industrial Engineering and Management, Sharma and Banga
5. Entrepreneurial Development Dr S S Khanka, S Chand Publishing
6. Management and Entrepreneurship, V K Sharma and O P Harkut, Scientific Publishers
7. Entrepreneurship Development Handbook, O P Harkut and J P Vaishnav, Scientific Publishers
8. Entrepreneurship Development And Management, J S Narang, Krishan Lal, V Dalal, Dhanpat Rai

DYNAMICS OF FASHION -I

SUBJECT CODE	FT-5002 (Same as FS5002.)
SUBJECT TITLE	Dynamics Of Fashion- I
NUMBER OF CREDITS AND HOURS PER WEEK	3.0 (L-3 T-0 P-0)
PRERESQUISITES	NIL

SUBJECT LEARNING OBJECTIVES

The fashion has intensity, vigour, energy, and motion. In the changing world of fashion explains how fashion evolves and change, it also explains the principles around which fashion revolves and the role that economic, sociological, and psychological elements play in the cyclical nature of fashion. It also covers the business scope of the industry including growth and expansion.

SUBJECT LEARNING OUTCOMES (SLOs)

After achieving the knowledge related to the mentioned subject contents the learner will be able:

1. To Help them to motivate, through a structural learning process, about the nature in order to avail the mastery of the key contents.
2. To understand the innovation and challenge of careers in today's fashion business, environment and movement of fashion.
3. To view fashion as an art and science as well.

CONTENTS:

1. NATURE OF FASHION	12
1.1 Importance and misconceptions of Fashion	
1.2 Terminology of Fashion	
1.3 Components and Principles of Fashion	
1.4 Fashion Cycle and intangibles of Fashion	
2. ENVIRONMENT OF FASHION	15
2.1 Market Segmentation	
2.2 Economic Environment	
2.3 Sociological Environment	
2.4 Psychological Environment	
3. MOVEMENT OF FASHION	12
3.1 Factors influencing Fashion Movement	
3.1.1 Accelerating Factors	
3.1.2 Retarding Factors	
3.2 Predicting the Movement of Fashion	
3.3 Fashion Adoption Theories	
3.4 Fashion Leaders and Fashion Followers	
3.5 Fashion as an Expression of Individuality	

REFERENCE BOOKS

1. The Dynamics of Fashion by Elaine Stone
2. The World of Fashion by Jay Diamond
3. Basic Fashion Management 01: Concept to Customer by Virginia Grose

TEXTILE PRINTING – I

COURSE CODE	FT-5003
COURSE TITLE	Textile Printing – I
NUMBER OF CREDIT AND HOURS PER WEEKS	4.0 (L-4,T-0, P-0)
PREREQUISITIES	NIL

SUBJECT LEARNING OUTCOMES

Textile printing is the process of applying colour on fabric in definite pattern or design which plays vital role in the decoration of fabric . All design comes on the fabric by means of printing therefore textile designer have to know the style and methods of printing to apply the design to decorate the fabric .

SUBJECT LEARNING OUTCOMES (SLOs)

After successful completion of this subject the learner will be able to learn :

1. Role of different printing ingredient in printing paste
2. Various printing style used in fabric printing
3. Different methods of fabric printing
4. Printing on different types of fabric with different dyes

CONTENTS

1. Printing auxiliaries and their role in printing paste	6
2. Difference between dyeing and printing	2
3. Style of printing	6
3.1 Direct style	
3.2 Discharge style	
3.3 Resist style	
4 Details study of blocking printing method	10
5. After treatment of block printing	4
6. Factor affecting colour fastness	6
7. Digital textile printing	18
7.1 General theory.	
7.2 Jet spraying , Electrostatic printing , Photo Printing	

REFERENCE BOOKS:

1. Textile Science	Vilenski
2. Chemistry of Textile Auxiliaries	Shenai
3. Cotton Piece Dyeing	Gokhale and Shah
4. Chemistry of Dyes and Principle of Dyeing	Shenai
5. Technology of Dyeing	Shenai
6. The Alternative Printing Handbook.	Chris TreweekandZeitly
7. Dictionary of Dyes and Dyeing	K.G. Ponting
8. Dyeing and Chemical Technology of Textile Fibres.	TertmanGrittin
9. Handbook of Textile Fibres, Dyes and Finishes.	Needles.
10. Textile Science	J.T. Marsh.
11. A Dictionary of Dyes and Dyeing	Bell and Hyman
12. A Dictionary of Dyes and Dyeing	Gooch.
13. A Glimpse on Chemical Technology	R.P.Chakraverty

FASHION STUDIES- III

SUBJECT CODE	FT-5004
SUBJECT TITLE	Fashion Studies -III
NUMBER OF CREDITS AND HOURS PER WEEK	3.0 (L-3- T-0-P-0)
PRERESQUISITES	NIL

RATIONALE-SUBJECT LEARNING OBJECTIVES

This subject overview the textiles and costumes are the mankind's earliest times and belong to a very old tradition of design and symbols. Style according to body type, facial features, interests, and activities and will learn to plan wardrobe or customize clothing. Wardrobe Planning Entry level project; getting-to-know-yourself activities, wardrobe inventory. In the Marketplace Clothing workmanship, making the most of your clothing money. Clothing Coordination mixing and matching clothing to make the most of individual wardrobe.

SUBJECT LEARNING OUTCOMES (SLOs)

After studying the learner will gain a positive impact related to:

1. Learn about the contemporary textiles and costumes which reflect their spirit, consciousness and the vibrancy of the society in which they live.
2. The preservation, revival and study of the best of the textiles and costumes are necessary to provide a guide to good craftsmanship
3. Developing their own strategy for refining style and building the perfect wardrobe.
4. Learning clothing as a systematic means of transmitting information about the wearer and even able to determine physical characteristics of the clothing that influence clothing selection and practices.

CONTENTS

1. SELECTION OF DRESS ACCORDING TO :	6
1.1 Occasion	
1.2 Occupation	
1.3 Climate	
2. TRADITIONAL INDIAN COSTUMES OF INDIA	12
2.1 West zone	
2.2 East zone	
3. HOW TO SELECT THE PERFECT CLOTHES ACCORDING TO BODY SHAPE	9
3.1 Pear Shaped Body	
3.2 Rectangular Shaped Body	
3.3 Hourglass Shaped Body	
3.4 Lean Column Shaped Body	
3.5 Round Shaped Body	
4. WARDROBE PLANNING	12
4.1 Exploring Resources	
4.2 How to select colour and pattern	
4.3 Psychology of colours	
4.4 Basic rules to develop good taste	
4.5 How to select and wear clothes according to personality	

REFERENCE BOOKS

1. INDIVIDUALITY A GUIDE FOR THE CONSUMERS BY MARY KEFGEN AND PHLYLLIS TOUCHIE-SPECHT
2. ANCIENT INDIAN COSTUMES by ROSHEN ALKAZI
3. INDIAN TEXTILES AND CLOTHING BY DR. BHAU DAJI
4. TEXTILES IN ANCIENT INDIA BY DR. KIRAN SINGH

PATTERN MAKING & GARMENT CONSTRUCTIONS -III LAB

COURSE CODE	FT- 5005
COURSE TITLE	Pattern Making & Garment Constructions -III Lab
NUMBER OF CREDITS AND HOURS PER WEEKS	3.0 (L-0,T-0, P-6)
PREREQUISITES	None

RATIONALE- SUBJECT LEARNING OBJECTIVES:

Garment construction in women's clothing is a technical accomplishment that requires the thoughtful and accurate, factual knowledge and skills of basic sewing techniques. This course focuses on techniques of garment Construction for ladies . It will also acquaint students with overall process of garment construction from pattern making to cutting, stitching & finishing of ladies garments.

SUBJECT LEARNING OUTCOMES [SLOS]:

After completing this subject, the learner will be able to:

1. Become familiar with the procedure of making Pattern making, Layout & Estimation of of garments.
2. learn dart manipulation techniques.
3. Create designer garments by adapting basic Blocks
4. Acquire knowledge about preparation to be done for clothing construction.

CONTENTS

1. Introducing Fullness:	12
1.1 Decorative darts	
1.2 Functional darts	
2. Making Drafts and Samples of the following Sleeves :	8
2.1 Bell	
2.2 Raglon	
2.3 Kimono	
3. Facing and Bindings :	6
3.1 Facing	
3.1.1 Bias facing,	
3.1.2 Shaped facing	
3.1.3 Decorative facing.	
3.2 Bindings	
3.2.1 Single Bias Binding	
3.2.2 Double Bias Binding	
4. Designing, Adaptation ,Paper Pattern Making, Estimation and layout, cutting, stitching and finishing of following Garments:-	52
4.1 Ladies Kurta	
4.2 Plain Blouse	

REFERECE BOOKS

1. Metric Pattern Cutting for Children Wear	Winifud Aldrish
2. Dress Fitting	B.S.P. Profession
3. Vogue Fitting	Harper & Raw
4. Singer Sewing Book	Singer Company
5. Make your Own Dress Pattern	Brenda Redmile
6. The Art of Sewing	Anna Jacqued
7. Sew it	Nancy Bruning
8. Sewing of Golden Hands	Marshal Carendish
9. Sewing	Jean Kimmod

TEXTILE PRINTING – I LAB

COURSE CODE	FT-5006
COURSE TITLE	Textile Printing – I Lab
NUMBER OF CREDITS AND HOURS PER WEEKS	1.5 (L-0,T-0,P-3)
PREREQUISITES	None

RATIONAL- SUBJECT LEARNING OUTCOMES

Textile printing is the process of applying colour to fabric in definite pattern or design which plays vital role in the decoration of fabric . All design comes on the fabric by means of printing therefore textile designer have to know the style and methods of printing to apply the design to decorate the fabric .

SUBJECT LEARNING OUTCOMES (SLOs)

After successful completion of this subject the learner will be able to learn :

1. Role of different printing ingredient in printing paste
2. Various printing style used in fabric printing
3. Different methods of fabric printing
4. Printing on different types of fabric with different dyed

PRACTICAL

- | | |
|--|----|
| 1. Students shall prepare a file containing different samples of block printing with different dyes. | 6 |
| 2. Printing of following articles with block printing. | |
| 2.1 Scarf / Dupatta / Stole | 10 |
| 2.2 Dress material (saree or two kurties / shrug) | 13 |
| 2.3 Cushion / Runner | 10 |

REFERENCE BOOKS:

- | | |
|--|------------------|
| 1. Textile Science | Vilenski |
| 2. Chemistry of Textile Auxiliaries | Shenai |
| 3. Cotton Piece Dyeing | Gokhale and Shah |
| 4. Chemistry of Dyes and Principle of Dyeing | Shenai |
| 5. Technology of Dyeing | Shenai |

SURFACE DECORATION III- LAB

COURSE CODE	FT 5007
COURSE TITLE	Surface Decoration III - Lab
NUMBER OF CREDITS AND HOURS PER WEEK	1.5 (L-0,T-0,P-3)
PREREQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES

Machine embroidery is a very cost affective surface decoration technique used in the fashion industry to decorate garments and accessories. It involves lots of skills and creativity. Embroidery machines are equipped with technologically advanced tools that create perfect designs and patterns. This subject provides an insight about how-to enhance the look of the garments and accessories by using Machine embroidery.

SUBJECT LEARNING OUTCOMES [SLOs]:

After completing this subject, the learner will be able to attain:

1. Acquire knowledge about Machine Embroidery.
2. Be familiar with tools and techniques of use of different methods of machine embroidery.
3. Develop a skill to create contemporary styles of embroideries for fashion garments
4. Combine multiple techniques to create different textures, looks, and colours.

CONTENTS

- | | |
|--|----|
| 1. Prepare samples of the following embroidery stitches with machine
Brief knowledge of the Embroidery such as Introduction, origin, material used,
transferring method, techniques and uses | 18 |
| 1.1 Basic Stitches | |
| 1.1.1 Running stitch | |
| 1.1.2 Round stitch | |
| 1.1.3 Satin stitch | |
| 1.1.4 Long and short stitch | |
| 1.1.5 Cording stitch | |
| 1.1.6 Eyelet stitch | |
| 1.1.7 Couching stitch | |
| 2. Prepare samples of the following fancy embroidery with machine | 15 |
| 2.1 Wool work | |
| 2.2 Ribbon work | |
| 2.3 Imitation Velvet work | |
| 2.4 Letters and Monograms | |
| 3. Prepare a sample file of embroideries mentioned above with a special
indication of: | 6 |
| 3.1 Material required for each Embroidery | |
| 3.2 Stitches used in each Embroidery | |
| 3.3 Collection of relevant motifs and Patterns of each Embroidery | |

REFERENCE BOOKS:

1. The WI creative Guide to Machine Embroidery
2. The Dictionary of Needle Craft Saward
3. Quilting Around the World Watson
4. Reader's Digest for Embroidery
5. Machine Embroidery
6. Embroidery Stitching

EmidGrattenGuinnes
S.F.A.Caultfield and B.C.
Isabel Stanley and Jenny
Reader's Digest
Kristen Dibbs
Brown Christen

FASHION ILLUSTRATION & APPLICATION -III LAB

COURSE CODE	FT- 5008
COURSE TITLE	Fashion Illustration & Application - III- Lab
NUMBER OF CREDITS AND HOURS PER WEEKS	1.5 (L-0,T-0, P-3)
PREREQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES:

This subject is designed to develop the skill of men's fashion drawing in order to visualize and analyze, observe and communicate ideas and concepts. The visual aids such as fashion templates & images carry messages within them and become a communication medium for the designer.

SUBJECT LEARNING OUTCOMES [SLOS]:

After completing this subject, the learner will be able to:

- 1 Draw the fashion figure and communicate apparel design details using a variety of media.
- 2 Learn various medium for stylization of croquis.
- 3 Develop the skill of fashion illustrations, in order to visualize and analyze, observe and communicate ideas and concepts.
- 4 Understand how trend forecasting is used in the fashion industry.

CONTENTS

1. Fashion Drawing: Analyzing Proportion & Pose (Manual drawing Male)	9
Figure Drawing in 8 head, 9 ½ head and 10 ½ head	
1.1 Stick Figure	
1.2 Block Figure	
1.3 Flesh Figure	
2. Technical Flat drawings for Male Garments-	9
2.1 Casual Wear	
2.2 Summers and Winters	
2.3 Indoor and Outdoor	
2.4 Formal Wear	
2.5 Summers and Winters	
3. Creation of design boards	9
3.1 Trend board	
3.2 Fabric swatch board	
4. Draping garments on male croqui.	12
4.1 Casual Wear	
4.2 Formal Wear	

REFERENCE BOOKS:

1. Foundation in Fashion Design and Illustration
2. Fashion Illustration Techniques
3. How to Draw & Paint Fashion
4. Fashion Illustration
5. Fashion Design & Product Development
6. Visual Design & Dress Marian

Julian Seaman
Zeshu mura
Walton T. Foster
Bina Abling
Harold Carr
L. Davis

COMPUTER AIDED DESIGN -I LAB

COURSE CODE	FT- 5009
COURSE TITLE	Computer Aided Design -I Lab
NUMBER OF CREDITS AND HOURS PER WEEK	1.5 (L-0,T-0, P-3)
PREREQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES :

This subject is designed to develop digital skill of fashion drawing in order to visualize and analyze, observe and communicate ideas and concepts. A fashion sketch consists of the figurative fashion drawing of a slightly exaggerated, idealized and stylized human figure, along with the clothes and accessories adorning it. The practical knowledge provided by this subject, is a strong structured foundation for student's further studies or professional careers.

SUBJECT LEARNING OUTCOMES [SLOS]:

After completing this subject, the learner will be able to learn:

1. Draw the fashion figure and communication apparel design details using a variety of media .
2. Introduction to various medium for stylization of croquis .
3. Refining the student's illustration skills .
4. Learn and be familiar with illustration using computer programs .

CONTENTS

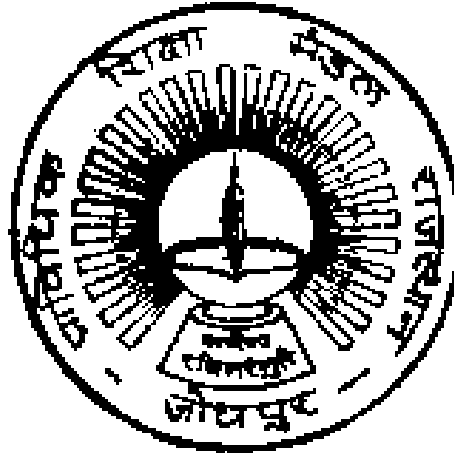
1. Introduction to Coral Draw.	9
1.1 Introduction to coral draw program , menu bar and tool bar.	
1.2 Editing object & colour fill pattern.	
2. Illustration with coral draw fashion female croquis with grid line.	6
3. Design a Logo and create a visiting card and Brochure of your own label.	11
3.1 Create prints and textures and their repeat and colour ways.	

REFERENCE BOOKS:

- | | |
|--|---------------|
| 1. Fashion Design Illustrations | Ritu |
| 2. Foundation in fashion design and illustration | Julian Seaman |
| 3. Fashion Illustration Techniques | ZeshuTakamura |

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN JODHPUR

SEMESTER SCHEME-2020-21



VI SEMESTER
(SESSION 2022-2023 & ONWARDS)

PROFESSIONAL MANAGEMENT & ENTREPRENEURSHIP-II

Course Code	FT 6001 (Common to all branches of Non Eng.)
Course Title	Professional Management & Entrepreneurship-II
Number of Credits	3 (L-3, T-0, P-0)
Prerequisites	None

Course objective:

To achieve the targets and goals in an organization, it is essential to have the knowledge of various facets of businesses and management. On the other hand, economic development of a nation much depends upon entrepreneurship development. With large pool of technically educated youth and open market system, a big number of youth can turn to be business ventures, generating employment opportunities and leading to better utilization of resources.

This course not only gives an insight into the basic concepts, principles and processes of management and business organizations but also understanding of different aspects of entrepreneurship development to young entrants.

Course Outcomes

On completion of the course student will be able to:

1. get familiarize with basics of business organization and management
2. acquire the essential knowledge required for becoming an entrepreneur.

COURSE CONTENTS**1. Financial Management**

- 1.1 Sources of Finance
- 1.2 Cash and Credit
- 1.3 Cheque and Draft
- 1.4 Brief idea of cost accounting

2. Tax and Insurance

- 2.1 Brief idea about direct and indirect taxes
- 2.2 Industrial insurance

3. Quality Management

- 3.1 Concept of quality
- 3.2 Quality Assurance
- 3.3 Online & offline quality control
- 3.4 Factors responsible for deviation
- 3.5 ISO 9000 model
- 3.6 Total quality management.

4. Sales and Marketing Management

- 4.1 Concept of Marketing
- 4.2 Marketing Mix (4P)
- 4.3 Advertising and Sales Promotion
- 4.3 Sales Vs Marketing
- 4.4 Functions of marketing department
- 4.5 After sales services

5. Setting up an SSI

- 5.1 Steps in setting up an SSI
- 5.2 Pre market survey
- 5.3 Product Identification
- 5.4 Site selection & land allotment
- 5.5 Procurement of raw materials
- 5.6 Establishment of Machinery

6. Project Report

- 6.1 Procedure of preparing a project report
- 6.2 Format of a project report
- 6.3 Analysis of sample project reports

Important: An entrepreneurship camp can be arranged by the institutions stretched over 3-4 days with the help of agencies such as RIICO, DST, RajCON, DOI, banks etc. However no question should be asked in examination from this event.

REFERENCES:

1. Industrial Engineering and Management, O P Khanna
 2. Handbook of Small Scale Industry by P M Bhandari
 3. Entrepreneurial Development, S S Khanka, S Chand
 4. Total Quality Management, M P Poonia and S C Sharma
 5. Industrial Engineering and Management, Sharma and Banga
 6. Entrepreneurial Development Dr S S Khanka, S Chand Publishing
 7. Management and Entrepreneurship, V K Sharma and O P Harkut, Scientific Publishers
 8. Entrepreneurship Development Handbook, O P Harkut and J P Vaishnav, Scientific Publishers
 9. Entrepreneurship Development And Management, J S Narang, Krishan Lal, V Dalal, Dhanpat Rai
- Note: Students are advised to supplement their readings on latest development in entrepreneurship through internet and open courseware.

DYNAMICS OF FASHION- II

SUBJECT CODE	FT 6002 (Same as FS 6002)
SUBJECT TITLE	DYNAMICS OF FASHION- II
NUMBER OF CREDITS AND HOURS PER WEEK	3.0 (L-3 T-0 P-0)
PRERESQUISITES	NIL

RATIONALE-SUBJECT LEARNING OBJECTIVES

The subject contents express fashion as fabulous, fascinating and fun and the study of fashion involves history, psychology, sociology and art and Fashion is affected by technological breakthroughs, change in investment patterns, in consumer attitudes, world events and economic forces and fashion is shaped by the basic principles of business and economics.

SUBJECT LEARNING OUTCOMES (SLOs)

After finishing the subject beginners will be supplemented with the contents mentioned:

1. Learns about the growth, expansion, , innovation, diversity and competition of the fashion business.
2. About current trends in consumer's purchasing, lifestyles and attitudes.
3. Learning related to unlimited opportunities in the field of design who have special talents, both artistic and practical way to shape the consumer's world.

CONTENTS

1. BUSINESS OF FASHION	18
1.1 Economic importance, scope and concept of Fashion Business	
1.2 Designer	
1.2.1 Types of Designers	
1.2.2 Intuition and Insight	
1.2.3 Sources for Design Inspiration	
1.3 Birth of fashion	
1.3.1 The Designer's Role	
1.3.2 The Manufacturer's Role	
1.3.3 The Retailer's Role	
1.4 Fashion Merchandising	
1.5 Fashion Forecasting Methods and Techniques	
1.6 Pre-Buying Activities	
1.7 Local and Export Market Analysis	
1.8 Export Process and Documentation	
1.9 Quality Control	
2. CAREER IN FASHION	9
2.1 Planning a Career Skills	
2.2 Industry -Manufacturing and Retailing	
2.3 Fashion Experts/Designers	
2.4 Fashion Communication	
2.5 Textile	
3. BRIEF KNOWLEDGE OF THE FOLLOWING:	12
3.1 Fashion Trends	
3.2 Fashion and Trade Show	
3.3 Boutique	
3.4 Garment Production Unit	

REFERENCE BOOKS

1. The Dynamics of Fashion by Elaine Stone
2. The World of Fashion by Jay Diamond
3. Basic Fashion Management 01: Concept to Customer by Virginia Grose

TEXTILE PRINTING – II

COURSE CODE	FT-6003
COURSE TITLE	Textile Printing – II
NUMBER OF CREDITS AND WORKS PER WEEKS	4.0(L-4,T-0,P-0)
PREREQUISITES	NIL

RATIONAL- SUBJECT LEARNING OUTCOMES

Textile printing is the process of applying colour to fabric in definite pattern or design which plays vital role in the decoration of fabric . All design comes on the fabric by means of printing therefore textile designer have to know the style and methods of printing to apply the design to decorate the fabric .

SUBJECT LEARNING OUTCOMES (SLOs)

After successful completion of this subject the learner will be able to learn :

1. Role of different printing ingredient in printing paste
2. Various printing style used in fabric printing
3. Different methods of fabric printing
4. Printing on different types of fabric with different dyes

CONTENTS

1. Screen printing	26
1.1 History of screen printing	
1.2 Equipment and material for screen printing	
1.3 Types of screen	
1.4 Methods of screen making	
1.5 Processes of hand , flat bed and rotary screen printing	
1.6 Advantages and disadvantages of screen printing	
1.7 Faults of screen printing	
2. Transfer printing	8
3. Roller printing	9
4. After treatment of printed fabric	9

REFERENCE BOOKS:

- | | |
|--|------------------------|
| 1. Textile Science | Vilenski |
| 2. Chemistry of Textile Auxiliaries | Shenai |
| 3. Cotton Piece Dyeing | Gokhale and Shah |
| 4. Chemistry of Dyes and Principle of Dyeing | Shenai |
| 5. Technology of Dyeing | Shenai |
| 6. The Alternative Printing Handbook. | Chris TreweekandZeitly |
| 7. Dictionary of Dyes and Dyeing | K.G. Ponting |
| 8. Dyeing and Chemical Technology of Textile Fibres. | TertmanGrittin |
| 9. Handbook of Textile Fibres, Dyes and Finishes. | Needles. |
| 10. Textile Science | J.T. Marsh. |
| 11. A Dictionary of Dyes and Dyeing | Bell and Hyman |
| 12. A Dictionary of Dyes and Dyeing | Gooch. |
| 13. A Glimpse on Chemical Technology | R.P.Chakraverty |

FASHION STUDIES-IV

SUBJECT CODE	FT-6004
SUBJECT TITLE	Fashion Studies- IV
NUMBER OF CREDITS AND HOURS PER WEEK	3.0 (L-3 T-0 P-0)
PRERESQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES

Costumes and Textiles have occupied a prominent place in the world, across geographic regions and climatic conditions, since ancient times. The preservation, revival and study of the best of the textiles and costumes are necessary to provide a guide to good craftsmanship. The designs embody the synthesis, over time, of indigenous talents, the new cultural impacts, and the imagery of sign and symbol. Factors affecting types of clothing while buying and brief knowledge about the body proportion.

SUBJECT LEARNING OUTCOMES (SLOs)

After studying the learner will gain a positive impact related to:

1. Provided with the brief knowledge about the traditional costumes of India of northern and southern zone.
2. Able to learn about the environment and culture influencing growth pattern and further develops self-concept or self-image.
3. The individual will be able to select and purchase from a vast array of stores and merchandise.
4. Able to analyse their wardrobe thoughtfully according to clothing needs and buying guides for the family.

CONTENTS

1. Factors influencing selection of fabric	12
1.1 Special consideration in designing and layout of the garment for prints, stripes, checks, pile fabric.	
1.2 Handling of special fabric while cutting and stitching. (Deep pile, lace, velvet, chiffon, knits, leather)	
2. Traditional indian costumes of india	12
2.1 North zone	
2.2 South zone	
3. Body proportion	9
3.1 Eight head theory its importance and uses	
3.2 Body growth and development	
3.3 Types of Joints and muscles and its movement	
3.4 Study of Body types and types of human figures	
3.5 Body posture	
4. Functional clothing	6
(Introduction, definition, classification of functional clothing)	
4.1 Protective	
4.2 Medical	
4.3 Sports	
4.4 Clothing For Special Need	

REFERENCE BOOKS

1. Individuality a guide for the consumers Mary Kefgen and Phyllis Touchie- Specht
2. Ancient Indian Costumes Roshen Alkazi
3. Indian textiles and clothing Dr. Bhau Daji
4. Textiles in Ancient India Dr. Kiran Singh

PATTERN MAKING & GARMENT CONSTRUCTIONS -IV LAB

COURSE CODE	FT- 6005
COURSE TITLE	Pattern Making & Garment Constructions -IV Lab
NUMBER OF CREDITS AND HOURS PER WEEKS	3.0(L-0,T-0, P-6)
PREREQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES:

Garment construction in men's clothing is a technical accomplishment that requires the thoughtful and accurate, factual knowledge and skills of basic sewing techniques. This course focuses on techniques of garment Construction for Gents. It will also acquaint students with overall process of garment construction from pattern making to cutting, stitching & finishing of Gents garments.

SUBJECT LEARNING OUTCOMES (SLOS):

After completing this subject, the learner will be able to :

1. Equip Knowledge about preparatory steps of Gents garment construction.
2. Understand structural details of mens clothing construction.
3. Become familiar with the procedure of making Pattern making, Layout & Estimation of of garments.
4. Explore variations in men's clothing size and body sizes.

CONTENTS

NOTE : All contents are related to gents garments.

1.	Measurement chart for teen boy and men's wear	2
2	Draft of gents basic blocks	4
	2.1 Shirt Block	
	2.2 Sleeve Block	
	2.3 Hip Block	
3.	Pockets	12
	3.1 Patch Pockets	
	3.2 In seam Pockets	
	3.3 Cut Pockets	
4.	Collars	12
	4.1 Flat collar	
	4.2 Roll collar	
	4.3 Stand collar	
5.	Characteristics drafting & paper pattern , layout and estimation	48
	of the following garments:	
	5.1 Shirt	
	5.2 Pant	

REFERENCE BOOKS:

- | | | |
|-----------|--|-------------------|
| 1. | Metric Pattern Cutting for Children Wear | Winifud Aldrish |
| 2. | Dress Fitting | B.S.P. Profession |
| 3. | Vogue Fitting | Harper & Raw |
| 4. | Singer Sewing Book | Singer Company |
| 5. | Make your Own Dress Pattern | Brenda Redmile |
| 6. | The Art of Sewing | Anna Jacqued |

TEXTILE PRINTING – II LAB

COURSE CODE	FT-6006
COURSE TITLE	Textile Printing – II Lab
NUMBER OF CREDITS AND WORKS PER WEEKS	1.0 (L-0,T-0,P-2)
PREREQUISITES	NIL

RATIONAL- SUBJECT LEARNING OUTCOMES

Textile printing is the process of applying colour to fabric in definite pattern or design which plays vital role in the decoration of fabric . All design comes on the fabric by means of printing therefore textile designer have to know the style and methods of printing to apply the design to decorate the fabric .

SUBJECT LEARNING OUTCOMES (SLOs)

After successful completion of this subject the learner will be able to learn :

1. Role of different printing ingredient in printing paste
2. Various printing style used in fabric printing
3. Different methods of fabric printing
4. Printing on different types of fabric with different dyes

PRACTICAL

1. Single colour screen printing on Top / T-shirt
2. Double colour screen printing on bed sheet / curtain
3. Double colour screen printing on dress material with pigments

REFERENCE BOOKS:

- | | |
|--|------------------|
| 1. Textile Science | Vilenski |
| 2. Chemistry of Textile Auxiliaries | Shenai |
| 3. Cotton Piece Dyeing | Gokhale and Shah |
| 4. Chemistry of Dyes and Principle of Dyeing | Shenai |
| 5. Technology of Dyeing | Shenai |
- ****

SURFACE DECORATION IV- LAB

COURSE CODE	FT6007
COURSE TITLE	Surface Decoration IV- Lab
NUMBER OF CREDITS AND HOURS PER WEEK	1.0 (L-0,T-0,P-2)
PREREQUISITES	None

RATIONALE- SUBJECT LEARNING OBJECTIVES

Machine embroidery is a very cost affective surfacedecoration technique used in the fashion industry to decorate garments and accessories. It involves lots of skills and creativity. Embroidery machines are equipped with technologically advanced tools that create perfect designs and patterns. This subject provides an insight about how-to enhance the look of the garments and accessories by using Machine embroidery.

SUBJECT LEARNING OUTCOMES [SLOs]:

After completing this subject, the learner will be able to attain:

1. Acquire knowledge about Machine Embroidery.
2. Be familiar with tools and techniques of use of different methods of machine embroidery.
3. Develop a skill to create contemporary styles of embroideries for fashion garments
4. Combine multiple techniques to create different textures, looks, and colours.

CONTENTS

- | | |
|--|----|
| 1. Prepare samples of the following fancy embroidery with machine | 16 |
| 1.1 Cut work | |
| 1.2 Quilting | |
| 1.3 Patch work | |
| 1.4 Applique work | |
| 1.5 Bead work | |
| 1.6 Sequin work | |
| 2. Prepare a sample file of embroideries mentioned above with a special indication of: 4 | |
| 2.1 Material required for each Embroidery | |
| 2.2 Stitches used in each Embroidery | |
| 2.3 Collection of relevant motifs and Patterns of each Embroidery | |
| 3. Prepare any one article of the following listed below: | 6 |
| 3.1 Bolster Pillow | |
| 3.2 Tray Cover | |
| 3.3 Apron and Mitts | |

REFERENCE BOOKS:

- | | |
|--|---------------------------|
| 1. The WI creative Guide to Machine Embroidery | Emid Gratten Guinness |
| 2. The Dictionary of Needle Craft Saward | S.F.A.Caultfield and B.C. |
| 3. Quilting Around the World Watson | Isabel Stanley and Jenny |
| 4. Reader's Digest for Embroidery | Reader's Digest |
| 5. Machine Embroidery | Kristen Dibbs |
| 6. Embroidery Stitching | Brown Christen |

FASHION ILLUSTRATION & APPLICATION -IV LAB

COURSE CODE	FT- 6008
COURSE TITLE	Fashion Illustration & Application -IV Lab
NUMBER OF CREDITS AND HOURS PER WEEKS	1.0 (L-0,T-0, P-2)
PREREQUISITES	None

RATIONALE- SUBJECT LEARNING OBJECTIVES:

This course will help students to create professional fashion illustrations and specification drawings . Students will learn the skills to create fashion illustrations, design presentations, technical drawings & fashion portfolio, giving students the skills to work within the fashion industry.

SUBJECT LEARNING OUTCOMES [SLOS]:

After completing this subject, the learner will be able to:

1. Learn fashion illustrations for design range & trend setting.
2. Create realistic renderings of unique pieces to enhance their portfolios.
3. Prepare creative digital portfolio for career.
4. Develop the skill of fashion illustrations, in order to visualize and analyze, observe and communicate ideas and concepts.
5. Understand how trend forecasting is used in the fashion industry.

CONTENTS

- | | | |
|----|--|----|
| 1. | Illustrate fabric drape on dummy -(With appropriate medium) | 6 |
| | 1.1 Denim fabric | |
| | 1.2 Corduroy fabric | |
| | 1.3 Gingham fabric | |
| | 1.4 Woollen fabric | |
| 2 | .Design a range of garments for Women wear using theme, fabric and surface ornamentation with front and back illustrations. (At least four sheets per range) | 14 |
| | 2.1 Casual Wear | |
| | 2.2 Formal Wear | |
| | 2.3 Fashion Show | |
| 3. | Portfolio: design and presentation for career planning | 6 |
| | 3.1 Electronic Portfolio | |
| | 3.2 Hand-made Portfolio | |

REFERENCE BOOKS:

- | | | |
|----|---|---------------|
| 1. | Fashion Design Illustrations | Ritu |
| 2. | Foundation in fashion design and illustration | Julian Seaman |
| 3. | Fashion Illustration Techniques | ZeshuTakamura |

COMPUTER AIDED DESIGN-II LAB

COURSE CODE	FT- 6009
COURSE TITLE	Computer Aided Design-II Lab
NUMBER OF CREDITS AND HOURS PER WEEK	1.0 (L-0,T-0, P-2)
PREREQUISITES	NIL

RATIONALE- SUBJECT LEARNING OBJECTIVES:

This course will help students to create professional fashion illustrations and specification drawings . Students will learn the skills to create fashion illustrations, design presentations, technical drawings & fashion portfolio, giving students the skills to work within the fashion industry.

SUBJECT LEARNING OUTCOMES [SLOS]:

After completing this subject, the learner will be able to:

1. Learn fashion illustrations for design range & trend setting.
2. create realistic renderings of unique pieces to enhance their portfolios.
3. Prepare creative digital portfolio for career.
4. Develop the skill of fashion illustrations, in order to visualize and analyze, observe and communicate ideas and concepts.
5. Understand how trend forecasting is used in the fashion industry.

CONTENTS

1.	Introduction to adobe photoshop	6
	1..1 introduction to tool.	
	1..2 Image size & Resolutions	
	1..3 Image Editing	
	1..4 Typography	
	1..5 Brushpaths	
	1..6 Vector shapes using filters	
2.	Fashion Accessory Drawing in photoshop	6
	2.1 Hand bags	
	2.2 Hats	
	2. 3 Jewellery	
	2.4 Seraves	
3.	Technical flat drawing and stylizes drawing for coral / photo shop	6
4.	Indian Dress	4
5.	western Dress	4

REFERENCE BOOKS:

1. Computer Technology for Textiles & Apparel Hu J
2. CAD in Clothing and Textiles Winfred Aldrich

3. CAD For Fashion Design and Merchandising Stacy Stewart Smith
4. Computer-Aided Pattern Design and Product Development Beazley, Alison Bond, Terry
5. Fashion Patternmaking Techniques Promo press
6. Fashion Computing: Design Techniques and CAD Burke, Sandra
