CURRICULUM FOR THREE YEAR (SIX SEMESTER) DIPLOMA COURSE IN

==		=====		
:	TEXTII	LE DES	SIGN	:
:	Effective	from	Session	:
==	=======================================		=======================================	

UNDER DEVELOPMENT

:Semester System :

Prepared By

: Curriculum Development Cell :

INSTITUTE OF RESEARCH DEVELOPMENT & TRAINING, U.P., KANPUR

APPROVED BY

: BOARD OF TECHNICAL EDUCATION :
: U.P. LUCKNOW, :
:CORRECTED AS SYLLABUS COMMITTEE OF:
: B.T.E. MEETING HELD ON 16.06.2017:
0

STUDY AND EVALUATION SCHEME FOR THREE YEAR (SIX SEMESTER)DIPLOMA COURSE IN TEXTILE DESIGN (Effective from session)

(Common to Three year Diploma Course in Textile Design.Spl. in Printing)

Curriculum	1			Scheme	of E:	kaminat:	Lon		
Periods Per Week S U B J E C T			Theory			Pract	cical		Gra-
 Le Tut Dr Lab Work Tot c.lorilaw Shop al						ination		Total	
al 		Marks				Marks			
4 - - - 4 1.1 Foundational Communication 4 2 - - - 6 1.2 Textile Materials 4 2 - - - 6 1.3 Yarn Manufacturing Process Practicals	2.5	50 50 50	20 20 20	70 70 70	- - -		 - -	 - -	70 70 70
- - - 14 - 14 1.4 Drawing & Study of Objects	 	 	 	 	4 4 	80 100 	50 50	130 150	130 150
			60	210		180	100	280	
Games/NCC/Social ar	d Cul	tural A	Activit	ies + 1	Discip	pline (15 + 1	LO)	
							TOTAL		515

	-																	
4	2	-	- 1	- 1	6	2.1	Indian Tradit:	ional Textile	2.5	50		20	70		- 1		- 1	70
4	2	-	-	- 1	6	12.2	Fabric Manufa	cturing	2.5	50		20	70	-	-	-	-	70
1		1	1		1	1	Process-I		1	1	1		1	1	i i	Í.	1	I I
4	2	-	-	-	6	12.3	Principles of	Design And	12.5	50		20	70	-	-		-	70
1		1	1		İ.	1	Sketching		1	1	- L		1	1	1	1	1	L I
-	-	-	13	-	13	2.4	Basic Design	& Sketching			1			4	100	50	150	150
1		1	1		1	1	Practicals		1	1	1		1	1	1	1		I I
-	-	-	10	-	10	2.5	Introduction '	To Textile			1			4	80	50	130	130
I		1			1	1	Design & Cra	ft	1	1	1		1	1	1	1		I I
2	-	-	5	-	7	2.6	Introduction '	To Computer			1			3	60	30	90	90
		1				-			-		- -							
14	6	i -	128	-	148	i <	TOTAL	>	i	1150	i	60	210	i	1240 I	130 I	350 I	5801
1		i	1			-i			- i		-i-							11
							Camer	/NCC/Social an	d Cul	tural	Åc	+ i zzi +	ioe +	Disci	nline (15 +	10)	251
							Games,	/ NCC/ SOCIAL AI	ia cui	curar	AC		162 1	DISCI	brine (10 1	10)	
																TOTAL		605

NOTE :- (1) Each period will be of 50 minutes duration.
(2) Each session will be of 16 weeks.
(3) Effective teaching will be of atleast 14 weeks.
(4) Remaining periods will be utilised for revision etc.
(5) For Community Development work see Annexure-I.

STUDY AND EVALUATION SCHEME FOR THREE YEAR (SIX SEMESTER) DIPLOMA COURSE IN TEXTILE DESIGN (Effective from session)

(Common to Three year Diploma Course in Textile Design.Spl. in $\ensuremath{\mathsf{Printing}}\xspace$

Curriculum					Scheme	of E:	kaminati	Lon		
Periods Per Week SUBJECT				Theory			Pract	ical		 Gra-
										nd
Le Tut Dr Lab Work Tot				n Sess.		-				
c. ori aw Shop al				Marks	Marks			Marks	Marks	al
al		Dur.	Marks	1	1	Dur.	Marks			1
										1
4 2 - - - 6 3.1 Textile Colourati	on	2.5	50	20	70	-	-	-	-	70
6 2 - - - 8 3.2 Fabric Constructi	on &	2.5	50	20	70	-	-	-	-	70
Cloth Analysis		1	1	1	1	1				1
Practicals		1	1	1	1	1			1	1
- - - 12 - 12 3.3 Drawing & Renderi	ng					4	80	40	120	120
- - - 10 - 10 3.4 Textile Colourati						3	80	40	120	120
- - - 8 - 8 3.5 Fabric Constructi	on &					3	80	40	120	120
Cloth Analysis		1	1	1	1	1				1
10 4 - 30 - 44 <total< td=""><td></td><td></td><td> 100</td><td> 40</td><td> 140</td><td></td><td></td><td> 120 </td><td></td><td> 500</td></total<>			100	40	140			120		500
Games/NCC	/Social an	d Cul	tural	Activit	ies +	Discip	oline (15 + 1	0)	25
										525

IV Semester

4 - - - - 4 4.1 Functional Communication	2.5 50 20 70 - - 7	70
4 2 - - - 6 4.2 Textile Printing	2.5 50 20 70 - 7	70
6 2 - - - 8 4.3 Fabric Manufacturing	2.5 50 20 70 - - - 7	70
Process-II		1
4 2 - - - 6 4.4 Textile Design-I	2.5 50 20 70 - - - 7	70
Practicals		1
- - - 10 - 10 4.5 Textile Printing	4 80 40 120 12	20
- - - 8 - 8 4.6 Textile Design-I	3 80 40 120 12	20
- - - 4 - 4 4.7 Computer Aided Textile	3 100 50 150 15	50
Design-I(CATD)		1
18 6 - 22 - 46 <total></total>	200 80 280 260 130 390 67	70
	-	
Games/NCC/Social a	nd Cultural Activities + Discipline (15 + 10) 2	25

|695 |

NOTE :-

- Each period will be of 50 minutes duration.
 Each session will be of 16 weeks.
 Effective teaching will be of atleast 14 weeks.
 Remaining periods will be utilised for revision etc.
 Four weeks structured and supervised, branch specific, task oriented industrial/field exposure to be organised after IV semester. Students will submit a report, there shall be 65 marks for this exposure, these marks shall be awarded by the project examiner in the VI Semester exam. (Examination marks: 40 Sess. marks: 25).
 Field visits and extension lectures are to be organised and managed well in advance at institute level as per need.
 For Community Development work see Annexure-I.

STUDY AND EVALUATION SCHEME FOR THREE YEAR DIPLOMA COURSE IN TEXTILE DESIGN (Effective from session)

	CURRI	CULUM								SCH	EME OF	EXAMI	NATION		
E	PERIOD	PER	WEEK		 9	ИВЈЕСТЅ		ТНЕ	ORY			PRA	СТІС	A L	
Lect	l Tut.		/ t W/S	Total 						Marks	i		- Marks	Total Marks	
	1	1	I				Dur.	Marks	1	Ι	Dur.	Marks	Ι		
	- '	4	-'-	4	5.1	Integrative Communication	-	-	-	-	3	40	20	60	e
1	2	-	-	6	5.2	Garment Technology	2.5	50	20	70	-	-	-	-	7
5	2	-	-	8	5.3	Textile Design-II	2.5	50	20	70	-	-	-	-	7
5	2	-	-	8		Professional Studies PRACTICALS	2.5	50	20	70	-	-	-	-	7
-	-	10	-	10	5.5	Garment Technology	-	-	-	-	4	100	50	150	15
-	-	8	-	8	5.6	Textile Design-II	-	-	-	-	4	100	50	150	15
6	6	2.2	-	44		TOTAL		150	60	210		240	120	360	57
6					Games	NCC/Social & Cultural ac	tivity/0	Communi	ty Deve	elopmen	t Work	+ Disc	ipline	(15+10)	2
. 6					Games	/NCC/Social & Cultural ac	tivity/0	Communi	ty Deve	elopmen		+ Disc Aggreg	-	(15+10)	
			OMMON	TO TE		/NCC/Social & Cultural ac DESIGN (PRINTING)	tivity/(Communi	ty Deve	elopmen			-	(15+10)	
/I S			ommon -	TO TE 4	XTILE	DESIGN(PRINTING) Environmental Education *	-	Communi 50	ty Deve	elopmen			-	(15+10)	2 59
7I S			ommon - -		XTILE 6.1	DESIGN (PRINTING)	-		ty Deve 20	elopmen 70			-	(15+10)	
7I S 1	Semest		OMMON - - -	4	XTILE 6.1 6.2	DESIGN (PRINTING) Environmental Education * & Disaster Management Fashion Studies	2.5	50			-	Aggreg	ate -		
7I S	Semest - 2	er (C - -	-	4	XTILE 6.1 6.2 6.3 6.4	DESIGN (PRINTING) Environmental Education * & Disaster Management	2.5 2.5 2.5	50 50			-	Aggreg - -	ate - -	-	
7I S 1 5 3	Semest - 2	er (C - -	-	4 6 14	XTILE 6.1 6.2 6.3 6.4 F	DESIGN (PRINTING) Environmental Education * & Disaster Management Fashion Studies Textile Quality Assurance Advance Fabric Structure Analysis	2.5 2.5 2.5 & 2.5	50 50 50	 20 20	 70 70	-	Aggreg. - - 40	ate - - 20	- - 60	
/I S 4 1 5 3	Semest - 2	er (C - 6 -	-	4 6 14 3	XTILE 6.1 6.2 6.3 6.4 F 6.5	DESIGN (PRINTING) Environmental Education * & Disaster Management Fashion Studies Textile Quality Assurance Advance Fabric Structure Analysis PACTICALS Computer Aided Textile De	2.5 2.5 2.5 & 2.5	50 50 50	 20 20	 70 70	- - 6 -	Aggreg. - 40 	 20 	- - 60 	- 59
7I S	Semest - 2	er (C - 6 - 5	-	4 6 14 3	XTILE 6.1 6.2 6.3 6.4 F 6.5	DESIGN (PRINTING) Environmental Education * & Disaster Management Fashion Studies Textile Quality Assurance Advance Fabric Structure Analysis PRACTICALS Computer Aided Textile De (CATD)-II	2.5 2.5 2.5 & 2.5 sign - - -	50 50 50	 20 20	 70 70	- - 6 - 4 Viva	Aggreg. - 40 100	 20 50	- - 60 150	
7I S	Semest - 2	er (C - 6 - 5	-	4 6 14 3	XTILE 6.1 6.2 6.3 6.4 F 6.5	DESIGN (PRINTING) Environmental Education * & Disaster Management Fashion Studies Textile Quality Assurance Advance Fabric Structure Analysis PACTICALS Computer Aided Textile De (CATD)-II Project (i) Viva-Voce (ii) Field Exposure	2.5 2.5 2.5 & 2.5 sign - - -	50 50 50	 20 20 20 - -	 70 70 70 	- 6 - 4 Viva	Aggreg. - 40 100 125	20 50 50	 	

30% Carryover of I & II Sem. 330 70% Carryover of III & IV Sem 854 100% Carryover of V & VI Sem. 1265

GRAND TOTAL 2449

NOTE :- (1) Each period will be of 50 minutes duration.
(2) Each session will be of 16 weeks.
(3) Effective teaching will be of atleast 14 weeks.
(4) Remaining periods will be utilised for revision etc.
(5) Field visits and extension lectures are to be organised and managed well in advance at institute level as per need.
(6) For Community Development work see Annexure-I.
(7) In Field Exposure at least one seminar is compulsory in the Final Year and the sessional marks will alloted after the seminar.
(8) (*) It is compulsory to appear & to pass in examination, But marks will not be included for division and percentage of obtained marks.

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	C 1	Devisionmentel Devention & Director Mar	27.20
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MAIN FEATURES OF THE CURRICULUM

II.

TITLE OF THE COURSE	I	DIPLOMA IN TEXTILE DESIGN
DURATION OF THE COURSE		THREE YEAR (SIX SEMESTER)
TYPE OF THE COURSE		FULL TIME
PATTERN OF THE COURSE		SEMESTER SYSTEM
INTAKE		60
ENTRY QUALIFICATION		Passed High School with 35% Marks
MODE OF ADMISSION		THROUGH JOINT ENTRANCE EXAMINATION

List of exprets who contributed in the development of the curriculum in Semester System for the Three year (Six Semester) Diploma Textile Design at I.R.D.T., U.P., Kanpur on 15-04-15 are honourable named below :.

1.	Shri B. D. Dixit	Professor I.I.C.T., Bhadohi
2.	Shri R. K. Srivastava	H.O.D. Govt. Girls Poly.,Allahabad
3.	Shri D. K. Verma	H.O.D. Govt. Poly. Varanasi
4.	Shri Brajesh Misra	Lecturer Govt. Poly., Mau
5.	Shri Pankaj Yadav	Professor I. R.D. T., U.P. Kanpur

List of exprets who contributed in the revision of the curriculum for the three year Diploma Textile Design at Government Polytechnic, Ghaziabad, on 27-11-15 are honourable named below :.

1.	Shri D. K. Verma	Deputy Director, D.T.E., Kanpur
2.	Shri R. K. Srivastava	H.O.D.
		Govt. Girls Poly.,Allahabad
3.	Shri M.M.Tiwari	Asstt. Director, Northern India Textile
		Research Associate, Ghaziabad
4.	Shri Neeraj Agarwal	Principal Scientific Officer, Northern
		Indian Textile Reseach Asso. Ghaziabad
5.	Smt. Sweta Saxena	S.S.O., Northern India Textile
		Research Associate, Ghaziabad
6.	Shri P. K. Chaurisiya	Lectuer, G.G.P., Allahabad
7.	Shri Yogesh Singh	Professor, I.R.D.T.U.P., Kanpur
8.	Shri A. N. Misra	Programmer, I.R.D.T.U.P.,Kanpur

On Line Comments in the revision workshop are honourable named below-

1.	Shri Ananad Nagar	S.N.D., Design & Processing Pvt.
		Ltd., Varanasi
2.	Mrs. Reena Nagar	Cheif Designer, S.N.D. Design and
		Processing Pvt. Ltd., Varanasi
3.	Smt. Mamta Sainik	Lecturer, G.G.P., Varanasi
4.	Dr. V. C. Sonker	Lectuer, G.G.P., Varanasi
5.	Mrs. Joyti	Lecturer TD, G.G.P., Varanas

List of exprets who contributed in the revision of the curriculum for the three year Diploma Textile Design at Government Polytechnic, Ghaziabad, on 27-11-15 are honourable named below :.

1.	Shri D. K. Verma	Deputy Director, D.T.E., Kanpur
2.	Shri R. K. Srivastava	H.O.D.
		Govt. Girls Poly.,Allahabad
3.	Shri M.M.Tiwari	Asstt. Director, Northern India Textile
		Research Associate, Ghaziabad

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4.	Shri Neeraj Agarwal	Principal Scientific Officer, Northern
		Indian Textile Reseach Asso. Ghaziabad
5.	Smt. Sweta Saxena	S.S.O., Northern India Textile
		Research Associate, Ghaziabad
6.	Shri P. K. Chaurisiya	Lectuer, G.G.P., Allahabad
7.	Shri Yogesh Singh	Professor, I.R.D.T.U.P., Kanpur
8.	Shri A. N. Misra	Programmer, I.R.D.T.U.P.,Kanpur

On Line Comments in the revision workshop are honourable named below- $% \left({{{\left({{{{{\bf{n}}}} \right)}}}_{\rm{c}}}} \right)$

1.	Shri Ananad Nagar	S.N.D., Design & Processing Pvt.
		Ltd., Varanasi
2.	Mrs. Reena Nagar	Cheif Designer, S.N.D. Design and
		Processing Pvt. Ltd., Varanasi
3.	Smt. Mamta Sainik	Lecturer, G.G.P., Varanasi
4.	Dr. V. C. Sonker	Lectuer, G.G.P., Varanasi
5.	Mrs. Joyti	Lecturer TD, G.G.P., Varanas

List of exprets who contributed in the development of the curriculum in Review and Revision for the Three year (Six Semester) Diploma Textile Design at I.R.D.T., U.P., Kanpur on 22 & 23 August 2016 and 19 & 20 September 2016 are honourable named below :.

1.	Shri B. D. Dixit	Retd. Professor
		U.P.T.T.I., Kanpur
2.	Shri R. K. Srivastava	H.O.D.
		Govt. Girls Poly.,Allahabad
З.	Shri Pankaj Yadav	Assistant Director
		D.T.E., U.P. Kanpur
4.	Shri R. K. Gupta	H.O.D./Principal, Govt. Poly.,Furrakhabad
5.	Shri Ramakant Yadav	Manager, New Civil Lines, Kanpur
6.	Shri Rainvijay Singh	Industrilist, Shop No 7-8, Sai Market
		Opposite BDB Green, Lucknow
7.	Shri Grish Verma	Retd. Assistant Director,NITRA,Kanpur
8.	Dr. Alka Ali	Professor, U.P.T.T.I., Kanpur
9.	Shri Brajesh Mishra	Lecturer, Govt. Poly, Mau
10.	Shri Pavan Chauraisa	Lecturer, Govt. Girls Poly., Allahabad
11.	Shri H. K. Shau	Lecturer, Govt. Poly., Furrakhabad
12.	Shri Himanshu Maurya	Lecturer, Govt Girls Poly, Allahabad
13.	Shri Rahul Singh	Lecturer, Govt. Poly., Kanpur
14.	Smt. Anubha Gupta	Lecturer, G. P., Kanpur
15.	Shri Yogesh Singh	Professor, I.R.D.T.U.P., Kanpur

IV. NEED ANALYSIS & CURRICULUM PROFILE

The process of education is to impart knowledge and skill to the students of a desired need. The need of this desire changes with the objectives and need of the time. At any level, need of the time is more pressing factor, so the development of curriculum of Textile Design with specification in Printing felt necessary due to the fast changing patterns and fashion in textile printing and designs. The curriculum in Textile Design has been running since long and it become invetable now to develop to meet the present demand of the world of work in terms of the skill of the personnel concerned in Textile Design & Printing. For this reason it was decided to develop a curriculum for the three year diploma in "Textile Design with spl. in Printing".

In developing the curriculum, professional of the relevent fields related to our problem were contacted personally and workshop was organised at this institute in which experts from higher technological institutes, fidld organisation and polytechnics participated and a draft curriculum was developed. The experts appreciated the idea introducing a subject of "Advance Textile Printing" in the existing curricula of Textile Design as an additional subject. The content of the subject is so developed as may befit the world of work and suffice enough to serve the purpose.

It is hope that the curriculum of Diploma in Textile Design with will prove useful in producing the desired type of middle level trained manpower for Textile Design as well as Textile Printing industry.

V. JOB OPPORTUNITIES

After completing the course, students can venture to enter into the under mentioned fields.

- Medium & Small scale industries
- Garment manufacturing industries
- Garment Sales Emporium
- Department of Education
- Orphanage
- Women Prison
- Deaf & Dumb Schools
- Angan bari
- Film Industry
- Advertising industry
- Modelling
- Fashion Designing
- Article Writing in Ladies Fashion magazines
- Painting on Pottery
- Enterpreneur
- I- Textile Designer
- II- Botic/Stencil/Screen Printing
- III- Interior Decoration Courses
- IV- Drawing & Painting Courses
- V- House hold decorative Textile Articles
- VI- Dying/Bleaching
- VII- Garment Manufacturing
- VIII-Consultancy Services.

I Semester

1.1 FOUNDATIONAL COMMUNICATION SECTION "A" (ENGLISH)

L T P 4

TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Units	Cover	age	Time
		L	Т	Ρ
Section	A English			
1.	PARTS OF SPEECH	12	-	-
2.	VOCABULARY BUILDING	05	-	-
3.	Grammar	15	-	-
4.	DEVELOPMENT OF EXPRESSION (Composition)	12	-	-
Section	B Hindi			
5.	Topic 5	2	-	-
6.	Topic 6	5	-	-
7.	Topic 7	5	-	-

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DETAILED CONTENTS

1. PARTS OF SPEECH :

- a. Noun
- The pronoun : Kinds and Usage b.
- с. The adjective : Kinds and Degree
- d. Determiner : Articles
- The verb : Kinds
- e. f. The Adverb : Kinds, Degree and Usage
- g. Prepositions
- h. Conjunctions
- i. The Interjections
- Subject: Verb Agreement (Concord) j.

2. VOCABULARY BUILDING :

- Antonyms and Synonyms a.
- Homophones b.
- One word substitutions с.
- d. Idioms and Phrases
- e. Abbreviations

Grammar 3.

- a. Sentence & its types
- Tenses a.
- b. Punctuations
- Active and Passive voice с.
- d. Transformation of Sentences
- е Synthesis of Sentences
- f. Direct and Indirect Narrations

4. DEVELOPMENT OF EXPRESSION (Composition) :

- a. Paragraph Writing
- b. Essay Writing
- c. Proposal Writing
- d. Letter Writing (Formal, Informal, Business, official etc.)
- f. Report Writing
- g. Note Making
- 9. h.
- News Making Application Writing
- i. j. Minute Writing
- k. Invitation Letter Writing

SECTION "B" (Hindi)

- संज्ञा, सर्वनाम, विशेषण, किया विशेषण, वर्ण समास, संधि, अलकार, रस, उपसर्ग प्रत्यय। 5—
- पत्र लेखन, निविदा संविदा, दर आमंत्रण (कोटेशन) अपील, स्वतन्त्र अभिव्यक्ति, प्रतिवेदन लेखन, प्रेस 6— विज्ञप्ति ।
- वाक्य/वाक्यांश के लिए शब्द, पर्यायवाची या समानार्थी शब्द, विलोम शब्द, अनेकार्थी शब्द, शब्दयुग्म या 7— समुच्चारित शब्द समूह, वाक्य शुद्धि (शुद्ध अशुद्ध वाक्य), मुहावरे एव लोकोक्तियाँ।

(Common to Three year Diploma course in Textile Design (Printing))

L T P 4 2 -

RATIONAL :

The students of textile design have to deal with the different types of designs over variety of textile fabrics. Before going through the design aspect one must know about the different types of materials used in fabric manufacture. The students are expected to know the varieties of different materials of the textile.

TOPICWISE DISTRIBUTION OF PERIODS

Sl.No.	Т	OPIC	LECTURE	TUTORIAL
1.	TOPIC-I		8	4
2.	TOPIC-II		8	4
3.	TOPIC-III		8	4
4.	TOPIC-IV		8	4
5.	TOPIC-V		8	4
6.	TOPIC-VI		8	4
7.	TOPIC-VII		8	4
		TOTAL	56	28

DETAILED CONTENTS

- I- Introduction to world's sources of textile fibres (natural and manmade) and their utilisation General classification of fibres.
- II- Essestional properties and uses of various varieties of cotton. Introduction to bast fibres; Flex, Jute, Hemp and Rammie.
- III- Introduction to natural silk. Rearing of silk worm. Properties and uses of various types of silk, silk reeling, Throwing and weighting.
- IV- Introduction to wool-merino Mohair, Kashmere, Camel and alpaca. sorting and grading of wool. Introduction to wool fibre and elementary idea of different wool.
- V- Introduction to Manmade fibres such as Nylons, Terelene, Acrylic and Rayons - Viscose, Acetate and Cupramonium.
- VI- Introduction various to blends of the fibres, care of fabrics, spots removing, types of removing agent.
- VII. Introduction to specilized fibres and technical textiles. Properties of specilized fibers such as Glass fibre, Cabiler fibre Aramide fibre, etc.

1.3 YARN MANUFACTURING PROCESS

(Common to Three year Diploma course in Textile Design (Printing))

L	Т	Ρ
4	2	-

TOPICWISE DISTRIBUTION OF PERIODS :

Sl.No.	TOPIC	LECTURE	TUTORIAL
1.	TOPIC-I	10	5
2.	TOPIC-II	10	5
3.	TOPIC-III	12	6
4.	TOPIC-IV	12	6
5.	TOPIC-V	12	6
	ΤΟΤΑΙ	56	28

DETAILED CONTENTS

- I. Flow chart of the processes involved in the Conversion of fibres into Yarn and objective of different processes.
- II. Brief study and working principles of blow room and carding.
- III. Brief description and working of draw frame, combing and speed frame
- IV. Brief description and working of ring frame, dubling frame and reeling.
- V. Types of yarn and their uses along with brief idea of manufacturing, Numbering system and characteristics such as strength, twist and evenness of yearn. (No numerical question should be asked in the examination).

1.4 DRAWING AND STUDY OF OBJECTS

(Common to Three year Diploma course in Textile Design(Printing))

L T P - - 14

RATIONALE :

It is the further knowledge of sketching in which the students will be made perfect in making drawings of different objects in pencil with light & shade. They will also be made well versed in using colours in the variety of objects. Study of the following in pencil with light and shade.

1. INTRODUCTION TO SKETCHING :

Meaning and difference between sketching and drawing

2. INTRODUCTION TO DRAWING :

How to draw.

3. DRAWING IN AN ACTIVE ENVIRONMENT :

This is to develop the students skills in quick sketching.

4. NATURE STUDY :

Handling of different media in black and white and also in color i.e pencil, charcoal, pen and ink, brush and ink, water color, pastels and mixed media.

STUDY :

Flowers, Leaves, Stems, Fruits, Vegetables, Trees, Birds, Butterflies, Land scapes, Creepers, etc.

OBJECT STUDY :

Understanding of basic shapes in prespective concept of illusion in art expression, three dimensional effect.

1.5IDENTIFICATION OF TEXTILE MATERIALS

(Common to Three year Diploma course in Textile Design (Printing))

L T P - - 8

RATIONALE:

It is the further addition of knowledge of the subject Textile Materials. In this the students will be practicallyacquitted with the materials used in textile fabrics.

Inspection and classification of various types of textilematerials covered in the subject. Textile Materials also to visualize for collecting information regarding distinguishing features.

All experiments to be done with respect to below listed fibres

- a. Cotton
- b. Wool
- c. Silk
- d. Jute
- e. Linen
- f. Polyester
- g. Acrylic
- h. Viscose
- i. Nylon
- 1. To Study handle, feel, appearance of textile fibres
- 2. To study burning behaviour of Textile Fibres
- 3. To observe various fibres under microscope and study their longitudinal and cross sectional view

To study different types of yarns: Spun Yarn, Filament Yarn, Fancy Yarn, Mono Filament yarn, Ply Yarn, Textured Yarns, High Twist Yarn, Cable yarn, Core spun yarn, Rotor Spun Yarn, Friction Spun Yarn etc.

II Semester

(Common to Three year Diploma course in Textile Design (Printing)) L T P 4 2 -

RATIONALE :

The developmental history of textiles proves many times more enlightening to deal and solve even the present day problems. So its importance can not be ignored.

TOPICWISE DISTRIBUTION OF PERIODS :

Sl.No.	TOPIC	LECTURE	TUTORIAL
1. 2. 3. 4.	Topic 1 Topic 2 Topic 3 Topic 4	6 6 30 14	3 3 16 6
	тота L	 56	28

DETAILED CONTENTS

1. INTRODUCTION TO INDIAN WOVEN TEXTILE :

Historical significance, Construction techniques, Styles, Colours and Motifs, Centers of produciton.

2. DYEING AND PRINTING IN INDIA :

Historical significance, Construction techniques, Styles, Colours and Motifs, Centers of production.

3. The following topics should be covered in History of textile.

- 3.1 Phulkari
- 3.2 Kashmir embroidary
- 3.3 Chickankeri
- 3.4 Bengal Kantha
- 3.5 Sanganari
 3.6 Kalamkari
- 3.7 Patola
- 3.8 Bandhani
- 3.9 Ikat
- 3.10 VaranasiBrocades
- 3.11 Jamdani
- 3.12 Chanderi
- 3.13 Kanchipuram
- 3.14 Baluchar
- 3.15 Madhubani

4. INTRODUCTION TO INDIAN CRAFT:

A brief introduction to the following craft with special reference to their location tools and materials used, and their special features.

Wood Work (Block Printing), Metal work (Pottery (Ceramics), Ivory and stone work, Carpet and Floor covering. 2.2 FABRIC MANUFACTURING PROCESS-I

(Common to Three year Diploma course in Textile Design(Printing))

L T P 4 2 -

RATIONALE :

Aim of this paper is to give new intrants in the field of textile first hand knoledge of principles and processes involved in preparation for weaving.

TOPICWISE DISTRIBUTION OF PERIODS

Sl.No.	TOPIC	LECTURE	TUTORIAL	
1. 2. 3. 4.	TOPIC-I TOPIC-II TOPIC-III TOPIC-IV	18 10 18 10	9 5 9 5	
	ΤΟΤΑΙ	56	28	

DETAILED CONTENTS

DETAILED CONTENTS

1.

- 1.1 Flow chart of the process involved in preparation for weaving
- 1.2 i. Winding: Its Objects, types on basis of machine speed and winding packages. Passage of material through upright spindle winding machine(Slow speed) and any high speed drum winding machine e.g. Rotoconer
 - ii. Faults found in winding package.
 - iii. General idea of pirn winding and its need and advantages.
- Warping:- Its main objects, general idea of beam and sectional warping machine

3. Sizing :- Its main objects, methods of sizing on the basis of drying system used for drying wet yarn and on the basis of amount of size put on yarn.

ii. Sizing ingredients for cotton and cotton blade.

iii. Passage ofwarpsheet through Slasher sizing machine and knowledge of necessary parts of machine.

 Drawing in & Beaming:-Main objects, different method used in textile industry.

2.3 PRINCIPLES OF DESIGN & SKETCHING

(Common to Three year Diploma course in Textile Design(Printing))

L T P 3 - -

RATIONAL :

The Fundamental of design skills is the vital part of the Textile Design process, which develops the better understanding and skill to make a fundation for design which is aesthetically expresses the specific meaning.

TOPICWISE DISTRIBUTION OF PERIODS

Sl.No.	TOPIC	LECTURE	TUTORIAL
1. TOPIC 2. TOPIC 3. TOPIC 4. TOPIC 5. TOPIC 6. TOPIC 8. TOPIC	-II -III -IV -IV -IV -IV	6 8 6 6 8 6 8 8 8 8	3 4 3 3 4 3 4 3 4 4 4
	ТОТАL	56	28

1. INTRODUCTION TO ART AND DESIGN :

Difference between art and design.

2. INTRODUCTION TO ART MATERIALS :

Pencils, Types of colour (Poster, Water, Pencil, etc.), Paper and other materials, Compass and liner, T-squire, Setsquire, Drawing board.

3. STUDY OF LINES & DOTS :

Types of lines, Psychological and visual association.

4. STUDY OF SHAPES :

Types of shapes, Psychological and visual association.

5. STUDY OF COLOURS :

Colour wheel, Light theory of colour, Pigment theory of colour, Primary, Secondary, Tertiary, Monochromatic, Complementary, Analogous, Achromatic, Colourpsychology adn visual effects.

6. STUDY OF TEXTURE :

Types of texture, Categories of texture, Psychological and Visual association.

7. STUDY AND UNDERSTANDING OF PRINCIPLES OF DESIGN :

Rhythm, Harmony, Emphasis, Balance, Repetition, Gradation, Radiation, Negative and positive sapec, Proportion.

8. AESTHETIC QUALITIES OF DESIGN ELEMENTS :

Formal qualities (Tradition, Geometric), Expressive qualities (Modern, Realistic), Symbolic qualities (Abstract, Folk).

2.4 BASIC DESIGN & SKETCHING

(Common to Three year Diploma course in Textile Design)

L T P - - 13

1. Interpretation of single line, 2 lines and using many lines for specific expression.

Total number of lines, 3 each with appropriate emotional or psychological expression.

- 2. Conversion of shapes from natural to geometric and abstract any one natural shape to ne converted in 6 different forms of geometrical and abstract.
- 3. Organizing these shapes in a given area to create motif.
- 4. Drawing colour wheel that includes primary, secondary and tertiary colours.
- 5. Rendering value scale for value and intensity of each color from the color wheel in the circular chart form, Monochromatic, complementary, split complementary, analogous, achromatic, primary, secondary, tertiary color schemes witll be rendered in 2"X2" block.
- Understanding of various types of design:Traditional. -Modern, realistic, Abstract, Folk, Geometric, Total number of variations at list 6 No.

2.5 INTRODUCTION TO TEXTILE ART AND CRAFT

(Common to Three year Diploma course in Textile Design(Printing))

L	Т	Ρ
-	-	10

1. TIE AND DIE:

Preparation of a file with Tie and Dye samples

2. BATIK :

Preparation of a file with Batik samples like a wall hanging, dupatta/scarf/gents shirt.

3. STENCIL CRAFT :

Preparation of a file by paper stencil method on different fabrics with different designs and colours.

4. EMBROIDERY TECHNIQUES :

Preparation of a sample file with the following like a Phulkari, Kashmiri, Bengal kantha, Chickenkari, etc.

5. FLOK ART :

Preparation of a file with paper samples detailed study of

Madhubani Paintings and Phar painting, etc.

6. CREATIVE ART :

Preparation of a trace the textures on paper and will interpret the same for creating fabric textures using various raw materials and techniques like crushing, dying, wax effects, colours, etc. and relating the textures to certain expressions.

2.6 INTRODUCTION TO COMPUTER

[Common with Civil Engg., Civil (Spl. With Rural), Mechanical Engg., (Specialisation in Production, Automobile, Refrigeration and Air conditioning), Electronics Engg., Instumentation and Control Engg., Dairy Engg., Leather Technology, Footwear and Leather Goods Tech., Cermics, Chemical Engg. (Four year Sandwitch), Chemical Tech. (Rubber & Plastic), Chemical Tech. (Fertilizer)]

> L T P 2 - 5

Rationale:

Computers are being used for design and information processing in all branches of engineering. An exposure to fundamentals of computer programming is very essential for all diploma holders. this subject has been included to introduce students in the use and application of computers in engineering.

TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Units		Coverage Tim		
		L	Т	P	
1.	Introduction to Computer	4	_	_	
2.	Introduction To Operating System (MS DOS/Windows)	3	-	-	
3.	Word Processing	4	-	-	
4.	Worksheet	4	-	-	
5.	Presentation	4	-	-	
6.	Data Base Operation	3	_	_	
7.	Introduction to Internet	2	_	-	
8.	Introduction to advance tools	4	-	-	
		28	_	70	

DETAILED CONTENTS

- 1. Introduction to Computer:
 - A. Block Diagram of Computer.
 - B. Types Of Computer
 - C. Types of Input and Output devices
 - D. Memories Devices (Its Types and Basic).
- 2. INTRODUCTION TO OPERATING SYSTEMS (MS-DOS/MS-WINDOWS:)

What is operating system, its significance, Commands of DOS, Features/Application of window.

- 3. WORD PROCESSING:
 - File : Open, Close, Save, Save as, Search, Send to, Print Preview, Print and Page Setup
 - Edit : Cut, Copy,Paste, Office Clipboard, Select All, Find, replace, Goto, etc.
 - View : Normal/Web Layout/Print Layout; Tool Bars;

Header/Footer; Zoom, etc.
Insert: Break, Page Number, Date & Time, Symbol, Comment, Reference, etc.
Format: Font, Paragraph, Bullets & Numbering, Borders & Shading, Column, Change case, Back ground, etc.
Tools : Spelling & Grammer, Language, Word Count, Letters & Mailing, Options, Customize, etc.
Table : Draw, Insert, Delete, Select, Auto Format, AutoFit, Convert, Sort, Formula, etc.

4. WORKSHEET:

Introduction, Use of Tools/Icons for preparing simple Mini Project.

5. PRESENTATION :

Introduction, Use of Tools/Icons for preparing simple presentation on Power Point.

6. DATABASE OPERATION :

Create database using MS Access, Create Table and Creating Reports.

7. Introduction to Internet:

What is Network, How to send & receive messages, Use of Search Engines, Surfing different web sites. Creating Mail ID, Use of Briefcase, Sending./replying emails.

- 8. INTRODUCTION TO ADVANCE TOOLS :
 - I. Steps requires to solving problems.
 - A. Flow Chart
 - B. Algroithm
 - C. Programming

II. Use of advance Tools such as Skype, Teamviewer, Installation of Modem, use of WiFi, Etc.

INTRODUCTION TO COMPUTER LAB

List Of Practicals

- 1. Practice on utility commands in DOS.
- Composing, Correcting, Formatting and Article (Letter/Essay/ Report) on Word Processing tool Word and taking its print out.
- 3. Creating, editing, modifying tables in Database tool.
- 4. Creating labels, report, generation of simple forms in Database tool.
- 5. Creating simple spread sheet, using in built functions in Worksheet tool..
- 6. Creating simple presentation.
- Creating mail ID, Checking mail box, sending/replying emails.
- 8. Surfing web sites, using search engines.

<u>Note</u>: In the final year, related students have to use the concept of MS Word/MS Excel/MS Access/ MS Power Point in their respective branch's project work such as creating project report through MS Word/Creation of statistical data in MS Excel/Creation of database in MS Excel/ Demonstration of project through Power Point Presentation.

III Semester

3.1 TEXTILE COLOURATION

(Common to Three year Diploma course in Textile Design(Printing)) $$\rm L$\ T$\ P$$

4 2 -

RATIONALE :

The purpose of colouring textile is to make it attractive to eyes. There are many a techniques & procedures developed for colouring & dyeing the fabrics made of various kinds of fibres. There knowledge is essential for decorating the product to suit the mood and taste of the consumer.

Sl.No.	TOPIC	LECTURE	TUTORIAL
 1.	TOPIC-I	8	4
2.	TOPIC-II	6	3
3.	TOPIC-III	6	3
4.	TOPIC-IV	6	3
5.	TOPIC-V	8	4
6.	TOPIC-VI	8	4
7.	TOPIC-VII	6	3
8.	TOPIC-VIII	8	4
	ΤΟΤΑΙ	56	28

TOPICWISE DISTRIBUTION OF PERIODS

DETAILED CONTENTS :

- 1. Preparatory processes, Singeing, desizing, scouring and bleaching for cotton, wool and silk.
- 2. Brief study on the necessity and use of optical whitening agents.
- 3. Classification of dyes according to application, Principal classes of natural and synthetic dyes.
- 4. Definition of Dyeing, methods of dyeing.
- 5. Principal classes of dyes used for cotton, wool and synthetic fibres, limitations of dyestuffs on different fabrics.
- Common methods of dyeing cotton with direct vats and napthol colours, wool dyeing with acid and manmade colours polyestor by disperse, use of assistant & textile auxiluries in dyeing.
- 7. Introduction to different dyeing machines like Jiggar, Paddiymangie winch, infrared dyeing machine, Jet dying & HTHP.
- 8. Difficulties in dyeing synthetic fibres by the common methods and ways of overcoming them.
- 9. Introduciton to different colour fastness and their testing methods.Factors affecting colour fastness.

3.2 FABRIC CONSTRUCTION & CLOTH ANALYSIS

(Common to Three year Diploma course in Textile Design(Printing))

L T P 6 2 -

RATIONALE :

The importance of the paper lies in the fact that it introduces the reader with different varieties of the fabric and designs and related technical terminology. Knowledge of these things very base of textile designer's working.

Sl.No.	TOPIC	LECTURE	TUTORIAL
 1.	TOPIC-I	8	3
2.	TOPIC-II	8	3
3.	TOPIC-III	8	3
4.	TOPIC-IV	10	3
5.	TOPIC-V	12	4
6.	TOPIC-VI	10	3
7.	TOPIC-VII	10	3
8.	TOPIC-VIII	10	3
9.	TOPIC-IX	8	3
	ΤΟΤΑΙ	84	28

TOPICWISE DISTRIBUTION OF PERIODS :

DETAILED CONTENTS :

- I. Classification of woven fabrics.
- II. Introduction to technical terms used in cloth construction. Warp, weft, ends, picks, weave, design, repeat of design draft, pegplan and denting plan
- III. Methods of ornamenting a fabric.
- IV. Plain weave and its derivatives ie, warp rib, weft rib, and matt or hopsack or basket.
- V. Regular twill weaves and their derivatives such Pointed, Herring bone, Zigzag-wavy, Curved, Broken, Re-arranged, Fancy twill, Combined twill and Diamonds.
- VI. Satin and sateen weaves, cork screw twills etc.
- VII. Towelling weaves-Huckaback, honeycomb and brighten honeycomb.
- VIII. Plain faced, Twill faced & wadded bed-ford cords.
- IX. Crepe Weaves.

3.3 DRAWING AND RENDERING

(Common to Three year Diploma course in Textile Design(Printing)) $$\rm L$\ T$\ P$$

- - 12

RATIONALE :

A designer is always in persuit of new ideas to make his designs newer. The source of ideas may be anything in nature quite in vicinity to him. For this the only thing wanted is an open eye and creating nature. The paper aims to draw analytical attention of the new entraints in the field towards such animate and inanimate objects to pickup some ideas for his creativity.

OBJECTIVE :

1. Meaning of drawing and rendering.

2. How to draw and render study of related features.

STUDY OF THE FOLLOWING wirh Pencil, Pen, Ink and Water Colours :

Students will make various motifs with coloured pictures $% \left({{{\left({{{{\rm{s}}}} \right)}_{{\rm{s}}}}_{{\rm{s}}}} \right)$ on given suggested themes.

1.	Flower heads.
2.	Vegetables with green leaves.
3.	Creepers with flowers.
4.	Sea shells
5.	Sea animals
6.	Animals
7.	Feathers.
8.	Stones and Rocks.
9.	Monuments and Building
10.	Jewellery

Cross - Sectional, Study of the Follwoing with Water Colours:

- 1. Fruits adn Vegetables
- 2. Dry Fruits

Compositions :

Composition of any three forms from Design Point of View with Water and Poster Colours, on 1/4, imp, sheets.

Composition of Cross Sectioned forms from Design Point of View with Pen and Ink on 1/4, imp, sheet

NOTE :

A sketch file for first three exercises shall be maintained by students having 2 drawings of each topic with at least 4 different angles.

3.4 TEXTILE COLOURATION(Lab)

(Common to Three year Diploma course in Textile Design(Printing))

L T P - - 10

RATIONALE :

The purpose of colouring textile is to make it attractive to eyes. There are many a techniques & procedures developed for colouring & dyeing the fabrics made of various kinds of fibres. There knowledge is essential for decorating the product to suit the mood and taste of the consumer.

Dyeing of yarn's and cloths covered in the course. Matching of shade cotton, silk, wool, nylon, polyster, viscos etc.

3.5 FABRIC CONSTRUCTION & CLOTH ANALYSIS (Common to Three year Diploma course in Textile Design(Printing))

L	Т	Ρ
-	-	8

RATIONALE :

The importance of the paper lies in the fact that it introduces the reader with different varieties of the fabric and designs and technical terminology knowledge of these things vary base of textile designer's working.

Analysis of fabrics Covered in the course for their manufacturing particulars. Construction particulars such as identification of warp and weft, direction, face and back of the fabric ends per inch, warp and weft, warp and weft twist direction and ply. Warp crimp percentage and weft crimp percentatge, weave weight per square yeard and meter of common use fabrics.

3.1 Functional Communication

L T P

4 - -

TOPIC WISE DISTRIBUTION OF PE

Sl.No.	Units	Cover	Coverage Time		
		L		P	
Section A	English				
1.	On Communication	04	-	-	
2.	Exploring Space	04	-	-	
3.	Sir C.V. Raman	04	-	-	
4.	Professional Development	04	-	-	
5.	Buying a Second Hand Bicycle	04	_	-	
6.	Leadership and Supervision	04	_	-	
7.	First Aid	03	_	_	
8.	The Romanance of Reading	03	_	_	
9.	No Escape from Computers	03	_	_	
10.	Bureau of Indian Standards	03	-	-	
Section B	8 Hindi				
1.	Topic 1	02	_	_	
2.	Topic 2	02	-	-	
3.	Topic 3	02	-	-	
4.	Topic 4	02	-	-	
5.	Topic 5	02	-	-	
6.	Topic 6	02	-	-	
7.	Topic 7	02	-	-	
8.	Topic 8	01	-	-	
9.	Topic 9	02	-	-	
10.	Topic 10	02	-	-	
11.	Topic 11	01	-	-	

56 - -

Section "A" (English)

Text Lessons

Unit I. On Communication Unit.II Exploring Space Unit.III Sir C.V. Raman Professional Development of Technicians Unit.IV Buying a Second Hand Bicycle Unit.V Leadership and Supervision Unit.VI Unit.VII First Aid Unit.VIII The Romanance of Reading No Escape from Computers Unit.IX Bureau of Indian Standards Unit.X

Section "B" Hindi

- 1—
- स्वरोजगार भारतीय वैज्ञानिकों एवं तकनीकियों का भारत के विकास में योगदान ग्राम्य विकास परिवार निर्वाजन 2—
- 3—
- 4—
- सामाजिक संस्थायें 5—
- नियोजन और जन कल्याण 6—
- भारत में प्रौद्यैागिकी के विकास का इतिहास 7—
- हरित कांन्ति 8—
- पर्यावरण एवं मानव प्रदूषण 9—
- 10- श्रमिक कल्याण
- 11– भारत में श्रमिक आन्दोलन

4.2 TEXTILE PRINTING

(Common to Three year Diploma course in Textile Design(Printing))

L	Т	Ρ
4	2	-

RATIONAL :

Printing of fabrics for making it attractive is an art and there is no end to development of technologies for the process. The paper is meant to give an insight of the means and methods used in printing.

Sl.No.	TOPIC	LECTURE	TUTORIAL
 1.	TOPIC-I	4	2
2.	TOPIC-II	6	3
3.	TOPIC-III	4	2
4.	TOPIC-IV	6	3
5.	TOPIC-V	4	2
6.	TOPIC-VI	4	2
7.	TOPIC-VII	6	3
8.	TOPIC-VIII	4	2
9.	TOPIC-IX	6	3
10.	TOPIC-X	4	2
11.	TOPIC-XI	4	2
12.	TOPIC-XII	4	2
	ΤΟΤΑΙ	56	28

TOPICWISE DISTRIBUTION OF PERIODS

DETAILED CONTENTS

- 1. Preparation of cloth for printing.
- Printing methods-Block, Screen, Stencil (or spray) and Transfer. Limitations as well as advantages of different printing methods.
- 3. Composition of printing paste
- A. Classification of thickening agents, preparation of thickening paste.
- B. Solvents, Hygroscopic agents, Alkalics, Oxidising and reducing agents and binders.
- C. Printing paste composition, its calculation based on coverage.
- 4. Different styles of Printing, Direct Discharge and resist printing styles; underlying principles and methods. (the above study will be with respect to cotton, silk, viscos and synthetics fabrics).
- 5. Brief study of wool printing (use of Chlorination Prior to printing).
- 6.A. Batik Printing Ingreidents used and their preparation.

- B. Tye and dye style of printing.
- 7. Processes of developing forms and surfaces, repeat for Block, Screen and Printing in fabrics covering factors of different colours and patterns for above methods.
- 8. After treatments : such as steaming, curing, ageing, Soaping and Washing.
- 9. Various defects in Printing and their remedies.
- 10. Introduction to digital printing and their pre and post finishing treatments.
- Introduction to textile finishing i.e. calendering, mitting, sonforzing, mercerizing, parchmentizaing and weighting of silk.
- 12. Costing of printed fabric.

4.3 FABRIC MANUFACTURING PROCESS-II

(Common to Three year Diploma course in Textile Design(Printing))

L T P 4 2 -

RATIONALE :

From the title of the paper, it is evident that the knowledge of manufacturing process is matter of imparitive importance to textile designer. So is the importance of the paper.

TOPICWISE DISTRIBUTION OF PERIODS

Sl.No.	TOPIC	LECTURE	TUTORIAL	
1. 2.	TOPIC-I TOPIC-II	8 8	4 4	
3.	TOPIC-III	10	5	
4. 5.	TOPIC-IV TOPIC-V	10 10	5 5	
6. 	TOPIC-VI	10	5	
	TOTAL	56	28	

DETAILED CONTENTS

- I. Primary, Secondary and Auxillary motions in weaving process.
- II. Passage of warp on loom. Showing all its necessary parts.
- III. Classification of various types of weaving machine.Study of handloom, power loom and elementry knowledge of automatic looms.
- IV. Brief study of drop box, dobby and jacquard.
- V. Introduction to knitied fabrics and various types of knitting machines (Warp knit and Weft knit machines only)
- VI. Introduction & Principles of Modern Weaving Machines (Shuttle less 100 ms) i.e Projectile, Airfet and Rapier 100 ms.

4.4 TEXTILE DESIGN-I

(Common to Three year Diploma course in Textile Design(Printing))

L T P 4 2 -

RATIONAL :

This paper deals with generating self designs in the fabrics. Use of free hand sketching and their enlargement and fabric finishing activities.

TOPICWISE DISTRIBUTION OF PERIODS

Sl.No.	TOPIC	LECTURE	TUTORIAL
1.	TOPIC-I	4	2
2.	TOPIC-II	6	2
3.	TOPIC-III	10	5
4.	TOPIC-IV	6	2
5.	TOPIC-V	6	2
6.	TOPIC-VI	8	3
7.	TOPIC-VII	8	3
8.	TOPIC-VIII	8	3
	ΤΟΤΑΙ	56	28

DETAILED CONTENTS :

- Free hand sketching, enlargment and reduction of designs. 1. Concept of design repeats
- 2. Composition of Bi-symmetrical and Multi-symmetrical figures suitable for corner and centre placement.
- 3. Development of stripe and check pattern
 - i. Simple Regular and Irregular patern.ii. Counter change pattern.

 - iii. Graduated pattern.
 iv. Modified form.
- 4. Development of design suitable for dobby
- 5. Development of design suitable for Jacquards.
- Development of decorative geometrical designs. 6.
- Development of all over design of different form Natural, 7. Abstract, Geometrical and traditional modified.
- 8. Introduction to Electronic Jacquard.

4.5TEXTILE PRINTING

(Common to Three year Diploma course in Textile Design(Printing))

L T P - - 10

RATIONAL :

Printing of fabrics for making it attractive is an art and there is no end to development of technologies for the process. The paper is meant to give an insight of the means and methods used in printing.

- A. Printing of Cotton and rayon fabrics by different methods by Block and Screen printing, Batik printing etc.
- B. Testing of fabric on varous agencies like washing fastness, light fastness, rubbing fastness.

4.6 TEXTILE DESIGN-I

(Common to Three year Diploma course in Textile Design(Printing))

L T P - - 8

RATIONAL :

This paper deals with generating self designs in the fabrics. Use of free hand sketching and their enlargement and fabric finishing activities.

Preparation of 12 drawing sheets on the basis of theory syllabus to be ornamented by different colours and system.

4.7 COMPUTER AIDED TEXTILE DEISNG CATD I (PRACTICAL)

(Common to Three year Diploma course in Textile Design(Printing))

L T P - - 4

RATIONALE :

In today's world Computer Aided Textile Designing (CTAD) becomes versatile for all the designing and weaving industry. Designing with the help of computer is becoming more relevant with time. The main objectoive of teaching this subjec t is to develop skill of designing using different software of t extile design in the students.

COREL DRAW SOFTWARE :

Learn Step by step command :

PHOTOSHOP SOFTWARE :

Learn Step by step command

Experiment are given below

- 1. Pattern Generation
- 2, Scanning
- 3. Editing Scanning Image
- 4. Sketch Formation
- 5. Colouring
- 6. Flowers and twigs
- 7. Bi-symmetrical
- 8. Multi-symmetrical
- 9. Stripe and check pattern- Regular, Irregular, Counter change, Graduated, Modified forms.
- 10. Design Modification (Repeat).

5.1 INTEGRATIVE COMMUNICATION

L T P

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- 4

TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No	. Units	Cove	rage	Time
		L	Т	Ρ
1.	Introduction to Personality Development		_	02
2.	Factors Influencing / Shaping Personality	-	-	02
3.	Self Awareness - 1	-	-	03
1.	Self Awareness - 2	-	-	02
5.	Self Awareness - 3	-	-	02
5.	Change Your Mind Set	-	-	02
7.	Interpersonal Relationship and Communication	-	-	03
З.	Non-Verbal communication Communication Skills		-	02
э.	Communication Skills ACTIVITIES	-	-	06
10.	Body Language skills	-	-	03
11.	Leadership Traits & Skills	-	-	03
12.	Attitude	-	-	03
13.	Analyzing & Solving a Problem skills	_	-	02
14.	Time Management skills	_	-	03
15.	Stress Management Skills	_	-	02
16.	Interview Skills	_	-	04
17.	Conflict Motives	_	-	02
L8.	Negotiation / Influencing Skills	-	-	02
19.	Sociability	_	-	03
20.	Importance of Group	-	-	03
21.	Values / Code of Ethics	-	-	02
		_	_	56

PERSONALITY DEVELOPMENT

	1 Introduction to Personality Development
	AIM, Skills, Types of Skills, LIFE SKILLS VS OTHER SKILLS,
	Concept of Life Skills. Ten core Life Skills identified by WHO
2.	Factors Influencing / Shaping Personality :
	Introduction, Physical and Social Factors Influencing / Shaping
	Personality (Hereditary, Self-Development, Environment,
	Education, Life-situations) Psychological AND Philosophical
	Factors Influencing / Shaping Personality (Past Experiences,
	Dreams and Ambitions, Self-Image, Values)
3.	Self Awareness - 1
	DIMENSIONS OF SELF AWARENESS (Self Realization, Self
	Knowledge or Self Exploration, Self Confidence, Self Talk, Self
	Motivation, Self Esteem, Self Image, Self Control, Self
	Purpose, Individuality and Uniqueness, Personality, Values,
	Attitude, Character), SELF REALIZATION AND SELF EXPLORATION
	THROUGH SWOT ANALYSIS AND JOHARI WINDOW,
4.	Self Awareness - 2
	SYMPATHY VS EMPATHY AND ALTRUISM,
	Importance ofEmpathizing with Others,
5.	Self Awareness - 3
	Self-Awareness through Activity, Body Image (What is Body
	20

Image, What Decides our Body Image, What is Poor Body Image, What are the Harmful Effects of Poor Body Image), Tackling Poor Body Image(Enhance Self-Esteem, Build Up Critical Thinking, Build up Positive Qualities, Understand Cultural Variation, Dispel Myths, Utilize Life Skills)

6. Change Your Mind Set

What is Mindset, HOW TO CHANGE YOUR MINDSET (Get the Best Information Only, Make the best people your Role Model, Examine Your Current Beliefs, Shape Your Mindset with Vision and Goals, Find Your Voice, Protect Your Mindset, Let Go of Comparisons, Put An End To Perfectionism, Look At The Evidence, Redefine What Failure Means, Stop Worrying About What "People" Think)

INTERPERSONAL SKILLS

7. Interpersonal Relationship and Communication

INTERPERSONAL RELATIONSHIP, Forms of Interpersonal Relationship, Must Have in an Interpersonal Relationship, Interpersonal Relationship between a Man and a Woman (Passion, Intimacy, Commitment), Relationship Between Friends, ROLE OF COMMUNICATION IN INTERPERSONAL RELATIONSHIP (Take Care Of Your Tone And Pitch, Choice of Words is Important in Relationships, Interact Regularly, Be Polite, Try To Understand The Other Person's Point Of View As Well, Individuals Can Also Communicate Through Emails,

8. NON-VERBAL COMMUNICATION Communication Skills

Non-Verbal Communication,

We Communicate with Our Eyes, Communication with Facial Expression, A Good Gesture, Appearance, Posture and Gait, Proximity and Touch), IMPORTANCE OF LISTENING, Characteristics of Good and Effective Listener(Is Attentive, Do Not Assume, Listen for Feelings and Facts, Concentrate on the Other Speakers Kindly and Generously, Opportunities)

9. Communication Skills ACTIVITIES -

Activities in Making Collages, Making Advertisements, PPT Preparation & Presentation, Speaking -Seminars, Group Discussions, Debates, Extempore Speeches, Listening to an audio clip and telling its gist, Answering a telephone call, Making enquiries, General tips-Pronunciation, Tone, Pitch, Pace, Volume, relevance, brief, simple Reading Newspaper, Magazines (Current Affairs, Economic magazines, Technical magazines), How to read a report, article, Writing- Resume Writing, Writing joining report, Notice writing, Report making, Proposal writing, Advertisement, Notice for tender, Minutes writing, E-Mail writing, Listening News, Listening to audio clips.(Lecture, poetry, speech,

songs),

10. Body Language skills

Introduction, What is Body Language , Body Language Parts, Personal Space Distances (Intimate Distance, Personal Distance, Social Distance, Public Distance), IMPORTANT BODY LANGUAGE SIGNS AND THEIR MEANING

UNDERSTANDING OTHERS

11. Leadership Traits & Skills :

Introduction, Important Leadership Traits (Alertness, Bearing, Courage, Decisiveness, Dependability, Endurance, Enthusiasm, Initiative, Integrity, Judgment, Justice, Knowledge, Loyalty, Sense of Humour), Other Useful traits (Truthfulness, Esprit-de-corps, Unselfishness, Humility and sympathy, Tact without loss of moral

- 39

courage, Patience and a sense of urgency as appropriate, Selfconfidence, Maturity, Mental including emotional stability)

12. Attitude

Types of Attitude, Components of Attitudes (Cognitive Component, Affective Component, Behavioral Component), Types of Attitudes (Positive Attitude, Negative Attitude, Neutral Attitude, Rebellious Attitude, Rational and Irrational Attitudes, Individual and Social Attitudes), Kinds of Attitude, ASSERTIVENESS, How to Develop Assertiveness (Experiment and Try New Things, Extend Your Social Circle, Learn to Make Decisions for Yourself, Indulge in Knowledge, Admire Yourself & Others), Negotiation (Be Sensitive to The Needs Others, Be Willing To Compromise, Develop Your Problem-Solving Skills, Learn to Welcome Conflict, Practice Patience, Increase Your Tolerance For Stress, Improve Your Listening Skills, Learn To Identify Bottom-Line Issues Quickly, Be Assertive, Not Aggressive)

PROBLEM SOLVING

13. Analyzing & Solving a Problem skills

Critical Thinking, Creative Thinking, Decision Making, Goal Setting & Planning, Problem Solving

14. Time Management skills

Need of Time Management, TIME WASTERS (Telephone, Visitors, Paper work, Lack of Planning & Fire Fighting, Socializing, Indecision, TV, Procrastination), PRINCIPLES OF TIME MANAGEMENT - Develop a Personal Sense of Time (Time Log, value of other people's time), Identify Long-Term Goals, Concentrate on High Return Activities, Weekly & Daily Planning (The Mechanics of Weekly Planning, Daily Planning), Make the Best Use of Your Best Time, Organize Office Work (Controlling Interruptions, Organizing Paper Work), Manage Meetings, Delegate Effectively, Make Use of Committed Time, Manage Your Health,

15. Stress Management Skills

INTRODUCTION, Understanding Stress and its Impact, Expected Responses (Physical, Emotional, Behavioral), stress signals(thoughts, feelings, behaviors and physical), STRESS MANAGEMENT TECHNIQUES (Take Deep Breath, Talk It Out, Take A Break, Create a Quite Place in Your Mind, Pay Attention to Physical Comfort, Move, Take Care of Your Body, Laugh, Mange Your Time, Know Your Limits, Do You Have To Be Right Always, Have A Good Cry, Look for the Good Things Around You, Talk Less, Listen More), UNDERSTANDING EMOTIONS AND FEELINGS-through Activity

16. Interview Skills (2 sessions from Industry Expert is Compulsory) Curriculum Vitae (When Should a CV be Used, What Information Should a CV Include, personal profile, Covering Letter, What Makes a Good CV, How Long Should a CV Be, Tips on Presentation), Different Types of CV (Chronological, Skills-Based), BEFORE THE INTERVIEW , CONDUCTING YOURSELF DURING THE INTERVIEW , FOLLOWING THROUGH AFTER THE INTERVIEW , Interview Questions To Think About , MOCK INTERVIEW - Activity (MOCK INTERVIEW EVALUATION - NON-VERBAL BEHAVIORS, VERBAL BEHAVIORS, General Etiquettes to face the Board , Telephonic interview

17. Conflict Motives -Resolution

Motives of Conflict(Competition for Limited Resources, The Generation Gap and Personality Clashes, Aggressive

40

Personalities, Culturally Diverse Teams, Competing Work and Family Demands, Gender Based Harassment), Merits and Demerits of Conflict, Levels of Conflict (Interpersonal Conflict, Role Conflict, Inter-group Conflict, Multi-Party Conflict, International Conflict), Methods of Conflict Resolution (The Win-Lose Approach, The Lose-Lose Strategy, The Win-Win Approach), Techniques for Resolving Conflicts (Confrontation and Problem Solving Leading to Win-Win, Disarm the Opposition, Cognitive Restructuring, Appeal to Third Party, The Grievance Procedure)

$18.\ {\rm Negotiation}\ /\ {\rm Influencing\ Skills}$

Why Influencing, What Is Influencing, TYPES OF INFLUENCING SKILLS (Probing And Listening, Building Rapport, Sign Posting, Pacing, Selling, Assertiveness), LAWS AND PRINCIPLES OF INFLUENCE, The Six Laws of Influence (The Law of Scarcity, The Law of Reciprocity, The Law of Authority, The Law of Liking, The Law of Social Proof, The Law of Commitment and Consistency), Influencing Principles (Making a Start, Buy Yourself Thinking Time, Dealing With Disagreement, Difficult And Sensitive Situations)

19. Sociability : Etiquettes And Mannerism & Social Skills

Need for Etiquette , Types of Etiquettes (Social Etiquette, Bathroom Etiquette, Corporate Etiquette, Wedding Etiquette, Meeting Etiquette, Telephone Etiquette, Eating Etiquette, Business Etiquette, E-Mail Etiquettes,), MANNERISMS, HOW TO IMPROVE YOUR SOCIAL SKILLS (Be Yourself, Be Responsible, Be Open & Approachable, Be Attentive, Be Polite, Be Aware, Be Cautious)

20. Importance of Group / Cross Cultural Teams / Team Work skills Introduction, Types and Characteristics of Groups (Definition of a Group, Classification / Types of Groups, Friendship Group, Task Group, Formal Groups, Informal Group, Effective Group), Importance of a Group, Characteristics of a Mature Group, TYPES AND CHARACTERISTICS OF A TEAM (Definition of a Team, Types of Teams, Functional Teams, Problem Solving Teams, Cross - Functional Teams, Self - Managed Teams), Importance of a Team, Characteristics of a Team

21. VALUES / CODE OF ETHICS

Meaning, A FEW IMPORTANT VALUES (Honesty, Integrity, Purity, Discipline, Selflessness, Loyalty, Fairness, Equality, Trust, Support, Respect, etc)

Note : One Orientation module for the faculty is must. Involvement of Industry Experts is necessary for Interview Skills

5.2 GARMENT TECHNOLOGY

(Common to Three year Diploma course in Textile Design(Printing)) L T P $$4\ 2\ -$

RATIONAL :

This paper mostly deals with construction of garments, technology used for their industrial production, quality assurance etc.

TOPICWISE DISTRIBUTION OF PERIODS

Sl.No.	TOPIC	LECTURE	TUTORIAL
1.	TOPIC-I	8	4
2.	TOPIC-II	10	5
3.	TOPIC-III	10	5
4.	TOPIC-IV	12	6
5.	TOPIC-V	8	4
6.	TOPIC-VI	8	4
	ΤΟΤΑΙ	56	28

DETAILED CONTENTS

1. CLASSIFICATION OF GARMENTS AND MEASUREMENTS :

Garment classification for men and women, Fabric selection for various types of garments, FS , Measurements and its importance, Method of taking important body measurements for gents and ladies garments.

2. PATTERNING AND GRADING :

Patterning importance of paper patterns, types of paper patterns, Principles of pattern drafting, Study of pattern making of top and bottom garments, Grading - Study of grading of various components of top and bottom garments (Two examples of men and women both).

3. SPREADING, CUTTING AND SORTING PATTERN ALTERNATION:

Objective and Equipments for spreading, cutting and sorting pattern alternation.

4. SEWING TECHNOLOGY :

Classification of stitch and Seam, Parts of sewing machine, Study of various types of sewing machines such as Lock Stitch, Chain Stitch, Over lock, Flat Lock, Button Holing, Buttoning and computer Controlled Sewing Machines. Trimmings.Overview of different garment production like Line System, Tailar system

5. FUSING, PRESSING AND PACKING :

Basic of fusing, Pressing and Packaging. Care Labeling, various symbols used on care labels, importance and statutory regulations for care labeling

6. GARMENT QUALITY ASSURANCE:

Brief study of Pre Sewing defects, sewing defects and post sewing defects their causes and remedy.Dimensional Stability of garments (bowing skewing, shrinkage).Quality assurance of accessories: button, linings, hooks, laces, packing material etc.

5.3 TEXTILE DESIGN - II

(Common to Three year Diploma course in Textile Design(Printing))

L T P 6 2 -

RATIONAL :

This paper mostly deals with decorative designs, development & printing and their transfer to fabrics.

_____ Sl.No. TOPIC LECTURE TUTORIAL _____ 1. TOPIC-I 2. TOPIC-II 3. TOPIC-III 4. TOPIC-IV 5. TOPIC-V 6. TOPIC-VI 7. TOPIC-VII 8. TOPIC-VII 9. TOPIC-IX 9 9 12 12 12 12 9 6 9 3 3 3 4 4 4 3 2 6 2 _____ 84 28 ΤΟΤΑΙ _____

TOPICWISE DISTRIBUTION OF PERIODS

DETAILED CONTENTS

- 1. Development of pattern by colour and weave effect.
- 2. Construction of motif suitable for printing and weaving.
- 3. Preparation of motif, figures and their arrangement.
- Graph designs suitable for Dobbies and jacquards.
- 4. Elements and principles of preparing decorative designs for woven and printed fabrics for various uses. Basis of textile design like diamond ogee, curved line half drop, reverse etc. Ways of modifying colours in textiles.
- 5. Transfering of design of shirting sarees, brocades etc to the point paper. Ways of arrangement of figures or motifs.
- 6. Transfering of design on graphic (Point), Paper, edging and insertion of weaves in figured protion and on ground.
- 7. Brief idea of special and complex fabries e.g. Double cloth, Brocades, Tapesteries adn Damarks.
- 8. Brief idea of Turkish Towelling fabric and their ornamentation.
- Types of design functional items designed for a specific purpose that may include examples from the following focus areas.
 Apparel, Furnishing textile arts aesthetic surface decoration.

5.4 PROFESSIONAL STUDIES

(Common to Three year Diploma course in Textile Design(Printing))

L T P 6 2 -

RATIONAL :

This paper aims to give a brief idea of fundamentals related to managerial & entrepreneural activities and responsiblities in an industry. Students choosing their carrier as industrial worker need it to understand the industrial enviornment.

_____ Sl.No. TOPIC LECTURE TUTORIAL _____ 12 12 12 12 12 12 12 12 12 1. TOPIC-I 2. TOPIC-II 3. TOPIC-III 4. TOPIC-IV 5. TOPIC-V 6. TOPIC-VI 7. TOPIC-VII 4 4 4 4 4 4 12 4 _____ 84 ΤΟΤΑΙ 28

TOPICWISE DISTRIBUTION OF PERIODS

DETAILED CONTENTS

- Understanding of designers environment. A brief idea about Textile Industry in India and its organisation. Problems faced by Designers.Sociological-psychological. Financial steps necessary to overcome them.
- 2. Nature of management, functions of management. The science and Art of management. (Brief ideas).
- 3. Principles of Marketing management. Nature and importance, Meaning of Marketing. Marketing Techniques and skills-Market Research Sales Promotion, Product Planning pricing, distribution factors governing adoption of such techniques.
- 4. Establish liaisoning with clients. Need for liasioning with clients. Types of clients, how to deal with them. Social responsibilities of business (From Designers point of view). Need for human relations.
- 5. Costing : Elements of costs : Materials, labour expense, prime cost and overheads. Fixed and variable cost. Type of cost : predetermined, standard and marginal.
- 6. Requirements and organisation of a Design studio.
- 7. Entreprenurship : Sources of finance. For setting up small scale units. Agencies to be contacted for setting up small scale units, preparation of a project report for setting up a design studio.

5.5 GARMENT TECHNOLOGY (PRACTICALS)

(Common to Three year Diploma course in Textile Design(Printing))

L T P - - 12

To study and sketch various parts of pock stitch sewing m/c.
 Study about paper pattern drafting for at least two sets of approval as stated below.

Designing and construction of at least two sets of apparel (with tops and bottoms) for men and women both. Preferably one set should be in traditional Indian style and another in Western style for both men and women.

5.6 TEXTILE DESIGN - II

(Common to Three year Diploma course in Textile Design(Printing))

L T P - - 8

RATIONAL :

This paper mostly deals with decorative designs, development & printing and their transfer to fabrics.

Transfer of paper design on print paper and to produce a cloth on the loom using the same. Market surveying and production of fabrics using original designs. Preparation of sheet on the basis of theory Syllabus.

VI Semester

6.1 ENVIRONMENTAL EDUCATION & DISASTER MANAGEMENT L T P 4 - -

RATIONALE:

A diplima student must have the knowledge of different types of pollution caused due to industrialisation and construction activities, so as he may help in balancing of eco-system and control pollution by providing controlling measures. They should be also aware of the environmental laws for effectively controlling the pollution of environment. The topics are to be taught in light of legislation Para-3.

TOPIC WISE DISTRIBUTION OF PERIODS:

SL.	NO. TOPIC	L T	P
1.	Introduction	6	
2.	Pollution	4	
2.1	Water Pollution	8	
2.2	Air Pollution	8	
2.3	Noise Pollution	4	
2.4	Radio Active Pollution	6	
2.5	Solid Waste Management	6	
3.	Legislations	4	
4.	Environmental Impact Assessment	4	
5.	Disaster Management	6	
	TOTAL	56	

DETAILED CONTENTS

- 1. INTRODUCTION :
- Basics of ecology, Ecosystem, Biodiversity Human activities and its effect on ecology and eco system, different development i.e. irrigration, urbanization, road development and other engineering activities and their effects on ecology and eco system, Mining and deforestation and their effects.
- Lowering of water level , Urbanization.
- Biodegradation and Biodegradibility, composting, bio remediation, Microbes .Use of biopesticidies and biofungicides.
- Global warning concerns, Ozone layer depletion, Green house effect, Acid rain, etc.
- 2. POLLUTION :

Sources of pollution, natural and man made, their effects on living environments and related legislation.

- 2.1 WATER POLLUTION :
- Factors contributing water pollution and their effect.
- Domestic waste water and industrial waste water. Heavy metals, microbes and leaching metal.
- Physical, Chemical and Biological Characteristics of waste water.
- Indian Standards for qulity of drinking water.
- Indian Standards for quality of treated waste water.
- Treatment methods of effluent (domestic waste water and industrial/ mining waste water), its reuse/safe disposal.
- 2.2 AIR POLLUTION :

Definition of Air pollution, types of air pollutants i.e. SPM, NOX, SOX, GO, CO2, NH3, F, CL, causes and its effects on the environment.

- Monitoring and control of air pollutants, Control measures techniques. Introductory Idea of control equipment in industries i.e.
 - A. Settling chambers
 - B. Cyclones
 - C. Scrubbers (Dry and Wet)
 - D. Multi Clones
 - E. Electro Static Precipitations
 - F. Bog Fillers.
- Ambient air qulaity measurement and their standards.
- Process and domestic emission control
- Vehicular Pollution and Its control with special emphasis of Euro-I, Euro-II, Euro-III and Euro IV.
- 2.3 NOISE POLLUTION :

Sources of noise pollution, its effect and control.

2.4 RADISACTIVE POLLUTION :

Sources and its effect on human, animal, plant and material, means to control and preventive measures.

2.5 SOLID WASTE MANAGEMENT :

Municipal solid waste, Biomedical waste, Industrial and Hazardous waste, Plastic waste and its management.

3. LEGISLATION :

Preliminary knowledge of the following Acts and rules made thereunder-

- The Water (Prevention and Control of Pollution) Act - 1974.

- The Air (Prevention and Control of Pollution) Act 1981.
- The Environmental Protection (Prevention and Control of Pollution) Act -1986. Rules notified under EP Act 1986 Viz.
 - # The Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000
 - # The Hazardous Wastes (Management and Handling) Amendment Rules, 2003.
 - # Bio-Medical Waste (Management and Handling) (Amendment) Rules, 2003.
 - # The Noise Pollution (Regulation and Control)
 (Amendment) Rules, 2002.
 - # Municipal Solid Wastes (Management and Handling) Rules, 2000.
 - # The Recycled Plastics Manufacture and Usage (Amendment)
 rules, 2003.
- 4. ENVIRONMENTAL IMPACT ASSESSMENT (EIA) :
- Basic concepts, objective and methodology of EIA.
- Objectives and requirement of Environmental Management System (ISO-14000) (An Introduction).
- 5. DISASTER MANAGEMENT :

Definition of disaster - Natural and Manmade, Type of disaster management, How disaster forms, Destructive power, Causes and Hazards, Case study of Tsunami Disaster, National policy- Its objective and main features, National Environment Policy, Need for central intervention, State Disaster Authority- Duties and powers, Case studies of various Disaster in the country, Meaning and benifit of vulnerability reduction, Factor promoting vulnerability reduction and mitigation, Emergency support function plan.

Main feature and function of National Disaster Management Frame Work, Disaster mitigation and prevention, Legal Policy Frame Work, Early warning system, Human Resource Development and Function, Information dissemination and communication.

6.2 FASHION STUDIES

(Common to Three year Diploma course in Textile Design(Printing))

L T P 4 2 -

RATIONAL :

This paper aims to give a brief idea of fundamentals related to managerial & entrepreneural activities and responsiblities in an industry. Students choosing their carrier as industrial worker need it to understand the industrial enviornment.

TOPICWISE	DISTRIBUTION	OF	PERIODS

Sl.No.	TOPIC	LECTURE	TUTORIAL	
1. 2. 3.	TOPIC-I TOPIC-II TOPIC-II TOPIC-III	12 10 12	6 5 6	
4. 5.	TOPIC-IV TOPIC-V	10 12	5 5	
	T O T A L	56	28	

DETAILED CONTENTS

1. HISTORY OF FASHION :

Fashion in India - Geographical and environmental aspects . Fashion in abroad and present trends of fashion in all walks of life, Types of costumes and non-wear fabric.

2. INTRODUCTION TO FASHION AND ITS TERMINOLOGY :

Fashion, Fashion design and fashion technology Brief introduction fashion terminology, Fashion industry, language guide and head theory. 8 head theory of human anatomy.

3. DISTINGUISHED FASHION DESIGNERS :

Introduction to fashion designers of National and Internationl fame and their views. Future fore-casting of Fashion trends - Analytical approach with respect to design and involvement of technology. Fashion designers and technologies of tomorrow. Know the famous labels and International producers of today.

4. FASHION ILLUSTRATION :

Defination, Importance and Role of fashion illustration in costume design in todays competitive fashion world. Method and their applicaion.

5. Understanding the role fo fashion professionals like designer, stylist, merchandiser and co-ordinator.

(Common To Textile Chemistry, Textile Technology and Textile Design (Printing))

	L	Т	Ρ
	6	2	6
Rationale			

As the name implies this paper aims to develop in the incumbent the capability of testing the products and its components for desired results. Without it a product can never be claimed for any standard.

Topic	Wise	Distribution	of	Periods

Sl.No.	Topics	Cover	age	Time
		L	Т	Ρ
1.	Topic 1	12	_4	_
2.	Topic 2	18	6	_
3.	Topic 3	18	6	_
4.	Topic 4	24	8	_
5.	Topic 5	12	4	-
		84	28	84

DETAILED CONTENTS

- 1. Define Quality, Quality Control and Quality Assurance, difference between QC and QA. Introduction to Textile testing, profperties of fibres, yarns and fabrics and their relevance in assessing the performance of textile during and after their manufacture.
- 2. FIBRE TESTING:

Fibre Length (mean length, effective length and staple length), the effect of length, baer sorter technique of measuring the length. Other length measuring instruments (names and brief introduction).

Fibre fineness and maturity of cotton, brief introduction of different measuring methods and their principles.

Role and importance of humidity, concepts of humidity, relative humidity, moisture content and moisture regain and relation between the MC and MR.

3. YARN TESTING:

Concept of count, its measurement by different methods. Concepts of S & Z twist, relation between tpi, twist multiplier and count. Measurement of tpi, name and brief introduction of various twist measuring machines.

Important definitions pertaining to tensile strength, principles of CRL and CRT, tensile testers, factors affecting the strength materials, brief study of tensile testing machines, concept of RKM and CSP.

4. FABRIC TESTING:

Define various test parameters of fabric, their importance and role in fabric and end product properties.

Measurement of GSM, thickness, crimp. Fabric strength testing machines, such as cut strip, grab strip and revealed strip methods.

Air permeability and its measurement, crease recovery of fabrics and its measurement. Water proof and Water repellency tests. Abrasion resistance and its testing by martindale abrasion tester.

Concept of drape and its measurement.

Dimensional stability, bowing, skewness, residual shrinkage.

5. EVENNESS:

Nature of irregularities - short term, medium term and long term variations, periodic and non periodic irregularities. Analysis of classmate and classi fults

TEXTILE QUALITY ASSURANCE LIST OF EXPERIMENT

- To find the count of yarn
 (i) by physical balance
 (ii) by yarn quadrants balance.
 (iii) by Bessley yarn balance.
- 2. To calculate yearn count by wrap reel.
- 3. Determine the twist of yarn per inch/per meter in double yarn and its individual components by continuous twist tester and twist and untwist tester.
- 4. Findout the hank of sliver and roving with the aid of wrap block machine.
- 5. Find the staple length of fibre by Bare Sorter.
- Measure fibre fineness by flowing air through a sample of fibre by micronaire.
- 7. Find out lea strength of cotton yarn by lea strength tester (Power driven) and CSP.
- 8. Find the breaking strength of cotton yarn by Ballistic strength testing machine.
- 9. To find the breaking strength and elongation of single thread of cotton by single thread testing machine (Hand or pwoer driven).
- 10. Examine the bursting stength of a fabric by bursting strength tester.
- 11. Find out the relative abrasion properties of fabrics by Martindale abrasion tester.
- 12. Find the breaking strength of different textile fabrics by means of cloth strength tester (power driven).
- 13. Measure crimp by shirley crimp meter.
- 14. Find out air permeability of fabric by air permeability tester.
- 15. Measure crease recovery of fabric by crease recovery tester.
- 16. Test evenness of the yarn by evenness tester,

6.4 ADVANCE FABRIC STRUCTURE AND ANALYSIS

L T P 3 - -

Rationale

The paper deals with more complicated structures of todays fabrics. This knowledge is essential for modern textile technologist.

Topic Wise Distribution of Periods

Sl.No	. Topics	Cove	rage	e Time
		L	Т	Р
1.	Welts & Piques	7	-	
2.	Bed Ford Cards	7	-	-
3.	Backed Fabrics (Warp & Weft)	7	-	-
4.	Extra Warp & Weft	7	-	-
5.	Double Cloth	7	-	-
6.	Turkish Towelling	7	-	-
		42	-	_

DETAILED CONTENTS

1. WELTS AND PIQUES:

Varieties and characteristics of piques and welts, methods of embellishing pique fabrics, their structure, plain pique, backed pique, fast backed welts and waved pique.

2. BED FORD CORDS:

Plain faced bedford, wadded bedford cord, bedford cord arrnaged with alternate picks and cords containing odd number of ends. twill-faced bedford cord.

3. BACKED FABRICS (WARP AND WEFT):

Backed fabrics, wadded warp and weft backed fabrics, their beaming and drafting procedure.

4. EXTRA WARP AND WEFT:

Principles of figuring with extra warp and weft, one and one i.e. pick and pick wefting, two and two wefting. Methods of disposing of extra threads on the back of the fabric. Spot figures with extra warp and extra weft arranged in a particular order.

5. DOUBLE CLOTH:

Construction of double and multiple cloths on design paper, their beaming, drafting and pegging. Types of double structures viz.

- (i) Tubular Fabrics.
- (ii) Double-faced Fabrics.
- (iii) Fabrics opening to double the width.
- (iv) Double equal plain fabrics.
- (v) Centre stiched double cloth.
- 6. TURKISH TOWELLING:

Principles of formation of pile, construction of three, four, five and six pick terry fabrics their methods of drafting and denting. Terry ornamentation.

6.5 COMPUTER AIDED TEXTILE DESIGN (CATD) II PRACTICALS

(Common to Three year Diploma course in Textile Design(Printing))

L T P 1 - 5

RATIONAL :

In today's world Computer Aided Textile Designing (CTAD) becomes versatile for all the designing and weaving industry. Designing with the help of computer is becoming more relevant with time. The main of teaching this subject is to develop skill of designing using different software of textile design in the student.

ONLY FOR THREE YEAR DIPLOMA COURSE IN TEXTILE DESIGN

DOBBY SOFTWARE :

Learn Step by step command

JACQUARD SOFTWARE :

Learn Step by step commands

SIMULATION SOFTWARE :

Learn Step by step commands

TEXTILE MAPPING SOFTWARE :

Learn Step by step commands

ONLY FOR THREE YEAR DIPLOMA COURSE IN TEXTILE DESIGN (PRINTING)

PRINTING SOFTWARE :

Learn Step by step commands to produce a printed desing

TEXTILE MAPPING SOFTWARE :

Learn Step by step commands

Experiment list both are textile design and textile design (printing) in the students.

1. Pattern Generation

- 2 Sketch Formation
- 3. Reduction and Cleanup Image
- 4. Colour
- 5. Design Modification (Repeat)
- Create Graph and Binding (Only For Textile Design)
- 7. Create Colour Separation (Only For Textile Design (Printing))
- 8. Specification sheet

- 10. Texture Mapping
- 11. Catalouges

^{9.} Simulation

(Common to Three year Diploma course in Textile Design. Spl In Printing)

L T P - - 8

RATIONAL :

3.11 PROJECT WORK

(Common to Three year Diploma course in Textile Design. Spl In Printing)

L T P - - 2

RATIONAL :

The purpose of introducing the projects are to enable student to apply the knowledge, skills and attitudes acquired during the entire course of the solution real life problems.

1. PURPOSE AND ASSESSMENT :

Each student will be assigned a specific problem solving right from conception of design up to the execution of design. The assessment of project work shall be based on.

- 1. Definition of the problem.
- $2\,.$ Explain the approach towards solution of the problem .
- 3. Developing and sketches (Developing alternatives).
- 4. Colour schemes.
- 5. Final Design.
- 6. Fabric selection.
- 7. Quality of print.
- guarry of print.
 Procedure adopted by the student in arriving at final solution.
- 9. Originality of the design concepts.
- 10. Initiative and participation of the student.

A viva voce examination shall be conducted at the end of the project for assessing the work of the student. The examination committee for this purpose shall consist of a professional designer, teacher who has guided the project. The project work should be properly displayed by the student.

2. SUGGESTED PROBLEMS FOR PROJECT WORK :

The theme will be discussed in the theory period. For each submission the students are required to submit : (a) 20 Ideas (croquis) (b) Final design with repeat. (c) 5 colourways (d) Design printed on fabric.

All work will have to be executed in the theory class, studio and laboratory under the supervision of a lecturer, Studio Assistant or Laboratory Assistant.

No design without the approval of the teacher concerned will be accepted for the final submission.

1.	Theme		:	Floral pattern in stylised and
±•	THEME			naturalistic form.
	For			Saree for summer wear.
	Fabric		•	Shaffon
	Method			Hand painted
	Dye			Acrymen
	Placement			Of your choice
	Colour scheme			No limit
	Practical			
	Submission		:	On 5.5 meter organdie fabric.
	Special feature	:	this dark artwo have of th to t	ment and colour scheme, as in method you can have light and shades, the play of the fine rk with brush. Each report to the characteristic of the flow e hand as you are not allowed race the design of the fabric.
2.	Theme	:	India Mahab desig featu chari warri archi	harat or Ramayana scene. The n you could use the salient re of mytholoy e.g. the ot wheels. The armour used for ors or the decorative form of tecture arches etc.
	For	:		over / floor covering.
	Method			n printing lacquer method.
	Fabric	:		ur choice.
	Placement		-	ur choice.
	Dyes	:	Acram	
	Repeat	:		on the theme.
	Colour scheme	:		um five colours.
	Practical Submission Special feature			e Bed Covers/Floor covering. choice of the fabric, and to
	Special feature		creat all place lies	e a harmony in the theme for the objects as they will be d in one room the ingenuity in your design to use minimum ns from small layout to large
3.	Theme	:		and block printing technique ometrical or abstract design.
	For	: 1. 2.	Table mats Oil	f dinning room consisting of cloth and napkins or table and napkins. painting in the theme of life of ceramics and fruits.
	Fabric	:		/cotton
	Placement	:		choice based on the need.
	Method	:		bove three techniques.
	Dyes	:	Pigme	
	Repeat	:	-	on the placement and theme.
	Colour scheme	:	Minim	um three colours including the ground.
	Practical submission	:		ard sizes of the requirement.
	Special feature	:		application of the technique limitations and its scops for ts.

4.	Theme	:	Paisleymotifs with decorative
			form of floral pattern increased
			with black out line work.
	For	:	Silk screen.
	Method	:	Block printing on dyed fabric for
			discharge colourings.
	Placement	:	Border on four sides with centre
			motif.
	Dyes	:	Direct dyes for dyeing the cloth
			and discharge dyes for printing the
			block designs.
			Size of the fabric for practical
			submission 36"X 36".
	Repeat	:	Based on the placement and
			formation of the blocks implied.
	Colour scheme	:	Black outline.
			Coloured background and two colours
			of the pattern.
	Special feature	:	The discharge technique, as this
			technique replaces the original
			colours and white on coloured back-
			ground, the intermingling of colour
			effect.
5.	Theme	:	Sea Animals (Fishes), sea weeds and
			sea shells.
	For	:	Bath room set.
			Bath towel, bath mat, Hand towel,
			guest towel.
			Bath room curtains.
]	Fabric	:	Ready made set or towelling
			material for the towel set and
			cambric for the curtain.
	Method	:	Lacquer screen printing.
	Placement	:	Your choice.
	Dyes	:	Acramyn
	Repeat	:	Of your choice.
	Colour scheme	:	On white back ground three stages
			one colour shades.
	Practical submission	:	Standard sizes towels.
	Special feature	:	The placement of designs and the
			colour effect.
6.	Theme	:	Tantric Art.
	For	:	Sitting room set consisting of
			carpet partition screen or room
			divider.
	Method	:	Screen printing, block printing and
			any applied effect.
	Placement	:	Your choice.
	Dyes	:	Acramyn.
	Repeat	:	Refer to special feature.
	Colour scheme	:	Minimum 4 colours including the
			back ground. No white allowed in
			the design.
	Special feature	:	The curtain placement to the usual
	-		designs. Unholstry fabric design
			should have all over placement and
			more of textural quality the screen
			should have all the applied art
			techneques (printing and embroidary

etc.)

7.	Theme For Method Dyes Colour scheme Placement Repeat Submission of the practical	:	Floral patterm, flower heads buds, leaves and stem in intricate fine line work. Cambric. Photographic screen printing. Fancy dyes. Two colour only. All cover. 30 cm X 90 cm On 3(three) meter piece.
	Special feature	:	Photographic screen printing which has a good effect of the line work
8.	Theme For Fabric Method Dyes Colour scheme Placement Repeat Submission of pract Special feature	: : : : : : : : : : :	Opart. Sari. Nylon or organdie. Nozzle printing. Enamel paint. One colour only. All over. Your choice. A complete sari. The free hand moving.
9.	Theme For Fabric Method Colour scheme Repeat Dyes Placement Submission Special feature		Floral pattern Dress. Cotton. Spray painting with the stencil technique. One colour only. Your choice. Mordant dyes. Half drop. 3 meter fabric. Subduedeffect of the stencil and spraying effect of the dyes.

Design for Roller printing and photographic screens on paper only.

Α.	Theme	:	Stylised floral pattern.
	For	:	Sarees (Synthetic)
	Fabric	:	Synthetic material.
	Method	:	Photographic screen printing.
	Placement	:	All over.
	Dyes	:	Pigments.
	Repeat	:	40 cm. X 120 cm.
	Colour Scheme	:	four colours on white back ground.
в.	Theme	:	Trees in prespective.
	For	:	Curtains.
	Fabric	:	Cotton stain.
	Method	:	Roller printing.
	Placement	:	In horizontal stripes.
	Dyes	:	Acramyn.
	Colour scheme	:	Trees colours during Autumn 3-4
	Repeat	:	24" X 48"
Tran	sfer of Paper Design	on	cloth on the loom.

STAFF STRUCTURE

INTAKE Pattern		60 Annual
S.No.	Name of Post	No.
1.	Principal	1
2.	HOD	1
3.	Lecturer(*)	7
4.	Lecturer in Communication Tech.	1 (Part-time)
5.	Instructor	2
6.	Computer Programmer	1
7.	Steno Typist	1
8.	Accountant/Cashier	1
9.	Student/Library Clerk	1
10.	Store Keeper	1
11.	Class IV	6
12.	Sweeper	Part time as per requirement
13.	Chaukidar & Mali	As per need with justification

NOTE :

- The number of staff required for individual institutation shall be worked out in accordance with the norms laid down in G.O.No. 2281/Pra. Shi. -3-1989-60 (B)/85 dated June 27, 1989.
- 2. Services of the staff of other disciplines of the Institute may be utilised.
- 3. The post of "Computer Programmer" is not needed in the institutions where diploma in "Electronics Engineering" is running.
- 4. QUALIFICATIONS OF STAFF : As per Service Rules.
- Lecturer Four Degree In Textile Technology
 Lecturer Two Degree In Textile Chemistry
 Lecturer One First Class B.F.A. (Textile Designing)

SPACE REQUIREMENTS

[A] ADMINISTRATIVE BLOCK

S.NO.	Details of Space	Floor Area Sq.m.	Remark
1.	Principal's Room	30	
2.	Confidential Room	10	
3.	Steno's Room	6	
4. (a)	Office Including Drawing Office	80	
(b)	Record Room	20	
5.	Staff Room	20	
	(a) Head 1	15	
	<pre>(b) Lecturer 10 Sq.m./Lect. for 3 Lecturers</pre>	30	
6.	Library and Reading room	150	
7.	Store	100	
8.	Students Common room	80	
9.	Model Room	90	
	[B] Academic Block		

S.NO.	Details of Space	No.	0 Sq.m.	Floor Area Sq.m.
1. 2.	Class Room Drawing Hall	2 1	60 90	120 90
3.	Design Theater	1	100	100
4.	Textile Testing Lab.	1	40	40
5.	Textile Designing (Fabric Design & Printing Design.)	1	150	150
6.	Computer Lab. (Air Cond. Glass Partition and Special type pvc flooring and false ceiling).		60	60

[C] Student's Aminities

1.2.	Hostel Cycle Stand		of Strength of St. of Strength of St.
3.	Canteen and Tuck shop	50	
4.	N.C.C. Room	70	
5.	Dispensary	40	
6.	Guest Room (Attached Bath) including kitchen & store	45	

[E] STAFF RESIDENCES

1.	Principal	1	100	100
2.	Head of Department	1	100	100
3.	Lecturer	3	80	240
4.	Non-teaching & Supporting Staff	8	60	480
5.	Class IV	6	30	180

Priorty to be given in following order.

(1)

- a. Administrative Building
- b. Labs.

- c. Over head Tank
 d. Boundary Wall
 e. Principal Residence
 f. Fourth Class Quarters (2/3)
- (2)
- a. Hostel.
- b. Students Aminities
- 3.

Residences of employee.

LIST OF EQUIPMENT FOR DIPLOMA IN

TEXTILE DESIGN

- 1. Only those of the equipments given below which are essentially required for performing the practicals mentioned in the curriculum and are not avaliable in the institute are to be procured by the institutions.
- 2. "Machines/Equipments/Instruments of the old BTE list which are not included below are to be retained in the Lab. for demostration purpose but not to be demanded a fresh for purchase."

S.NO.	NAME OF EQUIPMENT			APPROX.COST (Rs.) RATE
1.	Handloom 36" Reed space with two boxes on either side with accessories Plain loom 36" reed space with plain tappet. Complete wooden frame with 8 heald frame and reed. Weaves beam Two boxex at either side 100 empty pirns and 2 shuttles, Reed Count 20,24,36,40 with all accessories Or Latest Configuration		1 No.	50,000=00
2.	Handloom 36" Reed space with Dobby with Accessories Plain loom 36" reed space with dobby of 16 jacks,Complete wooden frame with 4 heald frame and reed. Weaves beam 2 Shuttle and 100 empty bobbin. Dobby with all accessoires-16 hooks,Reed Count 20,24,36,40 with all accessories Or Latest Configuration	t	1 No.	65,000=00
3.	Handloom with Jacquard (200 Hooks)		1 No.	60,000=00
4.	Pirn winding machines with electric Motor and empty pirns & bobbins		1 No.	60,000=00
5	Hand Driven Charkha		1 No.	5,000=00
6.	Sectional warping (ordinary) Machine with creel		1 No.	45,000=00
7.	Cone Winding Machine		1 No.	50,000=00
8.	Piano Card cutting Machine for Card Punching		1 No.	30,000=00
9.	Power loom 36" reed space with 8 jacks		1 No.	75,000=00

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XI.

dobby

	⊥			
10.	Model of mini carding plant 250 mm working width 250 mm cylinder, doffer, feed roller,opening roller, striping roller, crush roller stainless undercasing, takeup drum suitable for feeding, miniature draw frame with gear and pulleys to drive feed roller, cyliner and doffer and other accessories, Mechanical type possibility of processing 50 gms. per batch 10 "width, metallic wire clothing with complete accessories, Microprocessor based indidual drive or Latest Configuration	1	No.	6,50,000=00
11.	Model of mini spinning plant Draw Frame : Having 3 over 3 drafting arrangement to process the silver from miniature carding machine with individual AC variable speed motors with change grars to vary the speeds of front roller, middle and back roller for different Total Draft and break Draft inclusive of motor, rpm indicators control system and other accessories Mechanical type single delivery, 3 over 3 drafting arrangement, range 5-15 draft Microprocessor based or Latest Configuration High Speed Simplex (Lab Model) Latest Lab Model Range :6-12 Spindle Suitable for 110 mm dia package Draft Range=6-18, 3 roller apron drating arragement SKF PK 1500, individual AC variable speed motors with control system with automatic stop motion, Inching mechanism, 100 empty PP bobbins with complete accessories and pinion according to draft change with all complete accrssories or Latest Configuration Ring Spinning Frame : No. of Spindle 6-12, mechanical speed 25000 rpm, ring dia - 38 mm, 70mm gauge, 180 mm lift, SKF PK 2025/2035, 3 over 3 drafting arrangement with short cradles, for gearing arrangement to change the total draft, Break draft and TFI with change gears and other accessories. Mechanical draft 10-50 Microprocessor based or Latest Configuration		No.	5,00,000=00
12.	Standard Vertical Lea Tester (Yarn strength tester)	1	No.	40,000=00
13.	Projection Microscope	4	Nos.	10,000=00

14.	Physical Balance (Electronic)	4 Nos.	15,000=00
15.	Reeling Machine	1 No.	30,000=00
16.	Speedy Moisture testing Machine	1 No.	10,000=00
17.	Pick Counting Glass	4 Nos.	75=00
18.	Knowels Yarn Balance	4 Nos.	12,000=00
19.	Beesely Yarn balance	4 Nos.	3,000=00
20.	Dry & wet bulb Hydrometer	1 No.	1,000=00
21.	Cloth Strength testing Machine (Tensile Strength)	1 No.	50,000=00
22.	Air permeability tester	1 No.	50,000=00
23.	Stiff tester	1 No.	50,000=00
24.	Yarn Assonting Balance	1 No.	50,000=00
25.	Black Board (Graph)	1 No.	500=00
26.	WATER BATH : (Electrically heated/Stoves Vessel)	15 Nos.	250=00
27.	Dye post porceline ; Stainless steel	60 Nos.	50=00
28. per	Glass rods	L.S.	100=00
Kg. 29.	MEASURING CYLINDER (a) 5 C.C. (b) 100 C.C. (c) 500 C.C.	30 Nos. 30 Nos. 5 Nos.	N.A. 25=00 100=00
30.	Winchester Bottle (5 litres)	5 Nos.	150=00
31.	THERMOMETERS (a) 0-100 C (b) 100-200 C	2 Nos. 2 Nos.	150=00 200=00
32.	Weighing Balance (physical)	1 No.	1000=00
33.	Electronic Balance(Range 01 gr to 03 kg)	2 No.	
34.	Buckets	5 Nos.	70=00
35.	Mugs	10 No.	8=00
36.	Cement Plateform with three sinks fitted in centre 20'X 5'X 2'	1 No.	5,000=00
37.	Printing Table (5' X 20')	1 No.	5,000=00
38.	Exposing Table	1 No.	10,000=00
39.	Screens of Various sizes	10 Sets	single 200=00

				Double Triple	300=00 400=00
40.	Electrically heated steam ager	1	No.	50	,000=00
41.	Transfer Printing machine flat bat	1	No.	2,50	,000=00
42.	Sample cutting machine	1	No.	10	,000=00
43.	No. of blocks of various Design	10	Sets Fo	Single Double Triple ur colour	75=00 120=00 175=00 225=00
44.	Bhigona Large Size (Stainless Steel)	2	No.		250=00
45.	Dyes and Chemicals	L	.S.	25	,000=00
46.	Electric Iron Large (100 watt)	2	Nos.		250=00
47.	<pre>MODELS OF : (a) Jigger (b) Pudding Mangle (c) Winch (d) Stenter (e) Model of Roller Printing M/c (Four Colour)</pre>	1 1 1	No. No. No. No.	75 10 25	,000=00 ,000=00 ,000=00 ,000=00 0000=00
48.	Miscellaneous item required for craft practice and Drawing and Rendering Lab DESIGN STUDIO	L	.S.	50	,000=00
49.	Multi Media Projector	1	No.	10	0000=00
50.	Photocopier with enlargement and reduction facility	1	No.	1,25	,000=00
51.	Multi User Textile Design Software with CAD & CAM(Dobby, Jacquard & Printing)	1	No.	50	0000=00
52.	Multi User Software for Garment Design Degitizer & Plotter	1	No.	100	0000=00
53. 54.	Colour Printer with Scanner Computer with Latest Configuration (i5)		No. No.		0000=00 0000=00
55	Baer Sorter (For Fibre Length) 2 20000 Acrylic Transparent Sheet - 6"X8"X2 pices, 3"X8"X2 pcs Fibre Mounting Templest 6"X8"X2 pices, 3"X8"X2 pcs with tweezers, velvet pad, scales, planchass with all complete accessories or Latest Configuration		40000		
56. 57. 58. 59. 60. 61.	Latest Configuration Quadrant Balance 2 4000 R. B. Twist Tester 2 25000 One Inch Twist Tester 2 8000 Tearing Strength Tester 1 20000 Bursting Strength Tester 1 35000 Abrasion Resistance Tester 1 50000 (Martindle Type) Laundrometer 1 50000 (For washing fastness testing)		8000 50000 16000 20000 35000 50000		

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63. 64.	Crock Meter Grey Scale Conditioning Oven 220 V With capability of maintaining temperature up to 100oC and facility for smoth variation of temperature inside 27 liter.	1 1	10000 98500	
65. 66. 67. 68.	Stelometer (For bundle Strength) Water Repellancy Tester Pilling Tester Crimp Regidity Tester Minor Load - 2 Gr. to 10Gr. in a step of one grams Major Load - 100 Gr. to 500 Gr. in step of 50 Grams Digital display 220 V, with all complete accessories or Latest Configuration	2 1 1 2	70000 80000 30000 20000	80000
69.	Classimate (Yarn faults finding equipments)	1		900000
70.	Round Sample of GSM with Electronic balance	1	35000	35000
71.	Drapemeter	2	25000	50000
72.	Fabric Thickness Tester	3	8000	24000
73.	A.S.T.M. Cards For Threads/Inch	1	15000	15000
74	Twist & Untwist Tester	2	35000	70000
75.	Xenon Arc Tester For Colour Fastness of Textile against sun light	1	1500000	1500000
76	Model Rapier Loom 20" Reed Space with winding & warping unit Complete Set	1	3800000	3800000
77.	Small Diameter Circular Kintting 3.5" dia & 36 guage	1	160000	160000
78.	Flat Knitting Machine Computerized & Mechanical Both	d 3	250000	750000
79. 80. 81.	Linking Machine (circular) 18 guad Crease recovery tester Fashion maker sweing machine	ge 1 2 10	225000	225000

NOTE:

1. Item No. 55 to 73 are common with Textile Technology course.

2. Indian make working laboratory models for costly equipment be purchased if available.

INTRODUCTION TO COMPUTER (Common to all Trades)

COMPUTER CENTRE

S.No.	DESCRIPTION QTY.		APPROX. COST (in Rs.)	
1.	Core-2 Quad Processor, 4GB RAM 1 GB SATA HDD, 19" TFT Monitor/ Server of Latest Specification OS-Windows 2007/2008/Latest Versi		c 1,20,000=00	
	General Desktop Computer-Intel i5 or Higher(with latest Specificati Pre loaded latest Anti Virus with Life time Subscription, Licence Media and Manual with UPS 660 VA with latest window OS Including licence OR omputer of latest Specification ith latest window os including lice	on	36,00,000=00	
3. So:	ftware :((Latest Version)			
i. ii			LS LS LS LS	
4. Ha:	rdware	4,50	0,000.00 LS	
ii. iv. v. vi. vii vii	Switch-32 Port Router . Hub Ext. Modem Wireless N/W Adaptor Series Access Point .LAN Cable Meter i. LAN Cable Analyzer Crimping Tool and all other accessories related Networking	to	02 02 04(8 Port) 02 02 02 05 05 15	

5.	Scanner- Flat Bed A4/Auto Lighter (Bit depth 48)	02	20,000
6.	132 Column 600 CPS or faster 9 Pin dot matrix printer with 500 million character head life	02	50,000
7.	Laser Jet-A4 All In one 20 page per min (2 Each)	04	50,000
8.	Desk Jet-A4 Photo Smart (2 Each)	04	40,000
9.	5 KVA on line UPS with minimum 30 minute battery backup along with sealed maintenance free batteries. Provision for connecting external batteries with network connectivity.(For 2 Labs)	04	8,00000
10.	Split Air Conditioner 1.5 tones capacity with ISI mark along with electronic voltage stabilizer with over voltage and time delay circuit	08	35,0000
11.	Room preparation and furniture	LS	
12.	19" rack, 24-port switch. connector RJ-45 Cat-6 cabling for network	LS	10,0000
13.	2 KVA Inverter Cum UPS	02	6,0000
14.	Fire Extinguisher (2 Kg.)	04	15000
15.	Fire Extinguisher (5 Kg.)	04	25000
16.	Vacuum Cleaner	02	25000
17.	LCD Projector 3000 Lumen with all Accessories	02	350000
18.	Pen Drive 16 GB	10	10000
19.	DVD Writer External	02	10000
20.	HDD External 500 GB	02	15000
21.	PAD (Latest Configuration)	02	15000
22.	Broadband For Internet(Speed Min. 8mbps)	04	LS
23.	USB Modem	02	8000
24.	Generator 15 KVA Water Coolant	01	450000

7. LEARNING RESOURCE MATERIALS

1. 2. 3.	LCD Projector with Screen Handicam Cutting, Binding & Stitching equipment.	1 1 1	 20000 30000 30000
4.	Desk Top Computer with Internet Core i5/i7- 760, Processor, Genuine Windiw 7, Professional 18 inch HD, Flat Panel Monitor Optical Mouse, Key Board & all related media or latest version	1	 40000
5.	Home Theater Support Disc type CD. CDR/CDRW DVDR/DVDRW, VCD Supported with USB Port Support-DIVX/JPEG/MP3	1	 25000
6.	Commerical P A System 16 W-220W output, AC & 24V DC Operated, 5 Mic. & 2 Auxilary input, Speaker output 4 Ohm, 8 Ohm, 17 V & 100 V	1	 20000
7.	Interactive Board	1	 50000

ote :

1. This center will be only one at the institute level irrespective of all branches.

XIII.

ANNEXURE - I

COMMUNITY DEVELOPMENT WORK

For Community Development work two 15 days camps shall be organised during the session in the identified villages. The students shall stay in the camps and under the supervision of the concerned faculty members shall under take/execute the assigned works in the following fields.

- 1. To launch and sustain functional literacy programmes.
- 2. To train the rural youth in different trades/skills.
- Training by innovating and improving the efficiency of house hold gadgets.
- 4. To control and reduce pollution effecting the social fabric of rural life i.e.
 - Construction of Soak Pits and Sanitary Latrines, Tree Plantation, Social Forestry, Installation of Smokeless Chulhas.
- 5. To disseminate information on sources of non conventional energy. Installation and maintenance of Solar Street Lights, Solar Photovaltaic Pumps, Wind Mills, Bio Gas Plants etc shall be undertaken.
- 6. Transfer of appropriate Technology/Demonstration of cheap houses by use of locally available material, treatment of mud walls innovation of mud floor, treatment of thatch roofs etc shall be taken with provisions for training to the villagers.

- 7. Training and demonstration of new agricultural implements, housse hold gadgets and appliances of non conventional energy.
- 8. To help the rural youth in preparing project reports to set up industrial units and entrepreueurial development.
- 9. All community polytechnics shall render, repair and maintain agricultural implements, appliances of non conventional energy, household gadgets, etc. and train the rural youth in such skills.

XIV.

ANNEXURE - II

FORMAT FOR FIELD EXPOSURE/INDUSTRIAL TRAINING

- 1. Name & Address of the unit
- 2. Date of

i Joining.

- ii Leaving.
- 3. Nature of Industry
 - i Product.
 - ii Services.
 - iii Working Hrs.
- 4. Sections of the unit visited and activities there in.
- 5. Details of machines/Tools & instruments used in working in the section of the unit visited.
- 6. Work procedure in the section visited.
- Specifications of the product of the section and materials used.

- 8. Work of repair and maintenance cell.
- 9. Details of the shops related to repair and maintenance work.
- 10. Name of checking and Inspecting Instruments and their details. Quality control measures taken.
- 11. Details of appliances used if any.
- 12. Discripton of any breakdown and its restoring.
- 13. Use of computer if any.
- 14. Visit of units store, Manner of keeping store items, their receiving and distribution.
- 15. Safety measures on work place & working conditions in general comfortable, convenient & hygeinic.

XV. ANNEXURE-III QUESTIONNAIRE

INSTITUTE OF RESEARCH, DEVELOPMENT AND TRAINING U.P. KANPUR-208024

SUBJECT : Questionnaire for ascertaining the job potential and activities of diploma holder in Textile Design with specialisation in Printing.

To revise three Year Diploma curriculum in Textile Design with specialisation in Printing.

 Please answer the questions to the points given in the questionnaire.
 Any other point or suggestion not covered in

this questionnaire may be written on a separate paper and enclosed with the questionnaire.

1. Name of the organisation

е	organisation	:	

2.	Name &	Designation	of	the	
	officer	filling		the	
	questio	onnaire.			

4.	Important functions of	
	the department/section/ shop.	
5.	Number of diploma holder employees under your charge in the area of Textile Design with spec- ialisation in Printing.	
6.		rn equipments/machines handled by a le Design with specialisation in
	1. 2.	3.
	4. 5.	6.
7.	What proficiencies are e Textile Design with speci	xpected from a diploma holder in alisation in Printing.
	1. 2.	3.
	4. 5.	6.
8.	Mention the approximate p in Diploma teaching.	ercentage of the following desired
	 Theoretical knowledge Practical knowledge Skill Development 	
9.	should from a part of cur if yes then (a) Duration of training	training " / Industrial training riculum. (Yes/No) 1. Spread over different semesters
		2. After completion of course
		3. Any other mode
10.		3. Any other mode is followed by your organisation.
10.		

(d) Aptitude -----

		lth habit and titution wher	l social backgr re trained	ound	
12.	for the speciali	survey of Tex	on have any sys tile Design wi nting. measure tates.	th	Yes/No
13.	survey t 1. Tex 2. Eff 3. Any	o know users tile Design m ect of climat other	on conduct fiel views regardin easures. ic conditions. give brief acc	ıg.	Yes/No
14.			ent do you sug h specialisati		
15.			ganisations ca pecialisation		holder in an work or serve
	1.	2		3.	
	4.	5	•	6.	
16.		sation in P	e diploma holde Printing in the		
17.		ma student in	should be the Textile Desig		
	Theory			Practical	
18.			culars regard emphasis in th		reas which
	Theory			Practical	
19.			your organisat ls improvement		Yes/No

- 19. Kindly state whether your organisation Yes/No can contribute towards improvement of curriculum in above field. If yes : Please give names of experts in your organisation to whom contact.
- 20. Kindly give your valuable suggestions for being considered at the time of finilisation of curriculum.
- 21. What changes in technologies are to be incorporated in the development of curriculum in Textile Design with specialisation in Printing.

(Signature)

Kindly mail the above questionnaire duly filled to :-

Mr. Yogesh Singh
Professor
Institute of Research, Development & Training, U.P.
Govt. Polytechnic Campus
Kanpur - 208024

(Please note that all information in this survey is confidential for the use of curriculum design only).

REFERENCE BOOKS

1.	Art of Basic Drawing	Walter Foster
2.	How to Draw	Fester Series
3.	Its Fun to sketch with pencil and crayons	Thompson
4.	Garden Plants Michael	Wright
5.	The Animal Kindom	Cavendish
6.	Wild Life the Beauty of Animal	Bellanry
7.	Learn to Point Wildlife	Martiu Kuoweld
8.	How to Draw and Pint Landscape	Faster Series
9.	Still Life	Faster Series
	Batik Art	Sarla Sudersan
	Indian Embroidery	Kamladevi Chat
	Indian Embroidery	Jhon Irawin &
	Craft Traditions of India	John Haithely
	Ideas and Techniques for Fabric	Laynda Flower
	Textile of the art and craft movement	Laynda Flower
	Hand Woven Fabric of India	Dhamija/Jain
	Indian Craft	D. N. Saraf
	Traditional Indian Textiles	Gillow John
	Master Pieces of Indian Textiles	Rustam J Metha
	Costumes and Textiles of India	Brij Bhusan
21.	Rooppard Art	Mooladhar Shar
22.	Repeat Pattern	Phillips & Pet
23.		E. A. Seguy
	Wastons' Textile Design & Colour	Z. Grosicki
	Grammer of Textile Design	Nisbet
	Structural Fabric Design	Kilby
	Woven Structures and Design	Doris Goerner
28.	Fabric to Fabric	Ghosh
29.	Elements of Carding and Drawing	A. R. Khare
30.	Cotton Opening and Picking	Gilbert R. Mer
31.	Cotton Drawing and Roving	Gilbert R. Mer
32.	Principles of weaving	Marks and Robi
33.	Weaving Mechanism	N N Banerjee
	Weaving Textile Mathematics	Talukdar I E Daath
	Fabric Manufacture	J E Booth NCUTE
20.	Textile Fabre to Fabric	
37. 38.		Corbean K P Hess
30. 39.		
39. 40.	Fundamental of Textiles and their Care Textile Science	Sushila Dhanty
40. 41.	Textile Science	J. T. Marsh Vilenski
42.		Mark
42. 43.	Fibre and Fabrics of Today Textile Products Selection Use and Care	Alexander
43.	Textiles	William Morrie
44.	The Standard Hand Book of Textiles	A. J. Hall
45.	Textiles in Perspective Era	Block and Smit
40.	Fibre and Fabric today	Hellon Thomson
48.	Form Fibers and Fabric	Elizabeth Cral
40.	Understanding Textiles	Phylip G. Tort
49. 50.	Processing of Fibres in Yarn	V. Usenko
51.	Textile Fibres	V. A. Shenai
51. 52.	Textile Fibres Textile Fibrics and Their Selection	
		Sabel B. Winta
53.		Marjory L. Jes
	Household Textiles and Laundary Work	Durga Dwelkar
	Colour Source Book For Graphic Designers	Sadao Nokamnar
56.	Designer : Guide to Colour	Sadao Nokamnar
57.	1	Hideaki Chijiw
	Colour Trends In	Two Volume Pro
59.	Roopprad Kala Ke Mooladjar	Sharma/Agarwal

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60. Repeat Pattern

Phippips & Peter

79 Approved and Corrected by BTE on Dated 16.06.2017