



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY NAGPUR**  
(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)

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**FACULTY OF HOME SCIENCE**

**DIRECTION NO. 79 OF 2016**  
**DIRECTION GOVERNING THE EXAMINATION LEADING TO THE DEGREE OF**  
**MASTER OF TEXTILE DESIGN**  
**(CHOICE BASED CREDIT SYSTEM)**

**(Issued under section 14(8) of the Maharashtra University Act 1994)**

Whereas the Maharashtra Universities act No. XXXV of 1994 has come into force with effect from 22<sup>nd</sup> July, 1994 and was amended from time to time.

**AND**

WHEREAS, the University Grants Commission, New Delhi vide letter No.D.O.No.F-2/2008/(XI Plan), dated 31<sup>st</sup> January 2008 regarding new initiatives under the XI Plan – Academic reforms in the University has suggested for improving quality of higher education and to initiate the academic reform at the earliest,

**AND**

Whereas the Task Force in BFD/BTS/BPD in the Faculty of Home Science at its meeting held on 25/08/2016, have recommended for starting of semester pattern and prepared the syllabus and scheme of examination for Master of Textile Design, commensurate with the governing guidelines.

**AND**

Whereas the Coordinator, Faculty of Home Science concurred with the recommendations of the Task Force in BFD/BTS/BPD in the Faculty of Home science vide his observations dated 25/08/2016

**AND**

Whereas, the new draft direction and scheme of examination as per semester pattern is to be implemented from the academic session 2016-2017 for Master of Textile Design which is to be regulated by this direction and as such there is no existence and framing of an ordinance for the above examination,

**AND**

WHEREAS the Hon'ble Vice-Chancellor has accepted the syllabus along with draft direction on the behalf of Academic Council on 7-10- 2016 under section 14(7) of Maharashtra University Act 1994.

**AND**

WHEREAS the Hon'ble Vice-Chancellor has accepted the syllabus along with draft direction on the behalf of Management Council under section 14(7) of Maharashtra University Act 1994.

**AND**

Whereas, the framing of an ordinance as required under provision of Act is a time consuming process, now therefore, I, Dr. Siddharthavinayaka P. Kane, the Vice Chancellor of Rashtasant Tukadoji Maharaj Nagpur University, Nagpur in exercise of powers vested under Section 14(8) of the Act do hereby issue the following Direction.

This Direction may be called "Direction relating to examinations leading to the Degree of – Master of Textile Design in the Faculty of Home Science (Choice based Credit System).

1. The direction shall come into force from the date of its issue by Hon'ble Vice Chancellor and shall remain in force till the relevant ordinance comes into being in accordance with the provisions of the Act.
2. The duration of the Master of Textile Design course shall be of two academic years consisting of four semester with University examinations at the end of each semester namely:
  - a. Master of Textile Design, Semester I Exam.
  - b. Master of Textile Design , Semester II Exam.
  - c. Master of Textile Design, Semester III Exam.
  - d. Master of Textile Design Semester IV Exam.
3. The theory examination of Semester-I, II, III and IV shall be conducted by the University and shall be held separately at the end of each semester at such places and dates as may be decided and notified by the University and shall be held as per the schedule given in Table below.

Sr. No.	Name of the examination	Main Examination	Supplementary Examination
1	Semester I & III	Winter	Summer
2	Semester II & IV	Summer	Winter

4.The examinations shall be held at such places and dates which are notified by the University.

**ELIGIBILITY TO THE COURSE:**

5.Subject to the compliance of the provisions of this direction and any other ordinances in force from time to time, an applicant for admission to the examination shall have passed.

(a)In case of part one Examination, have passed the BTS Examination from RTM. Nagpur University or Bachelor degree in Textile Design/Textile Science or B.Tech in Textile Technology, or B.Design/ BFA/ Graduation in Textile, Knitwear or Fashion, B.Sc Home Science , Textile or Handloom Technology or Equivalent. {OR} Graduates in any discipline with one year relevant Textile industry experience) or any other equivalent examination from any recognized University by UGC or any other reputed organization like NIFT

**6(a)Master of Textile Design Semester-I Examination**

Students who have fulfilled the eligibility criteria as mentioned in Section 5 have been admitted to this course in Semester I.

b) The ATKT rules for admission for the Master of Textile Design Course (Theory and Practical as separate passing head) shall be as given in the following table-

Admission to Semester	Candidate should have passed in all the subjects of the following examination of R.T.M. Nagpur University	Candidate should have passed at least two third of the passing heads of the following examinations
Semester I	As provided in the para 6 of the direction	-----
Semester II	-----	-----
Semester III	For regular students  Lateral admission- Who have done PG Diploma in Textile Designing or Textile Technology/ or equivalent /MSc Home Science in Textile & Clothing or equivalent shall be eligible to take admission in semester III of the said course -----	Semester I and II taken together
Semester IV	-----	Semester I, II and III taken together

- 6(c) The duration of the course leading to the Master of Textile Design in the Faculty of Home Science shall be of iv semester (two years)The examination pattern will be as follows.
- i) **Semester Examination** The examination shall be held twice every year for Part I and Part II at the places and on the dates prescribed by the university.
  - ii) **Viva -Voce Examination**-The Viva-Voce shall be held at the end of part fourth semester on completion of Research Project for which external examiner shall be appointed for conduction of Viva –Voce on such date as fixed by the university.
  - iii) **Internship:-The internship of two week shall be completed after the completion of first year academic session during vacation** Evaluation of two week internship report will be conducted at the college level.
- 7) Without prejudice to other provisions of Ordinance no. 6 relating to the examination in general, provisions of Para 5, 8, 9, 10, 26, 31 and 32 of the said ordinance shall apply to every student admitted to this course.
  - 8) The fees for the tuition, examination, laboratory and other fees shall be as prescribed by the university from time to time.
  - 9)
    - (a) The scope of the subjects shall be as prescribed in the syllabus.
    - (b) The medium of instruction and examination shall be in English
    - (c) Examinee shall have option to write answer in English /Marathi/Hindi
  - 10) The number of papers and maximum marks assigned to each paper and minimum marks/grade, an examinee must obtain in order to pass the examination shall be as prescribed in Appendix-I, Appendix-II, Appendix-III and Appendix-IV appended with this direction.
  - 11) The examinee at each of the examination shall have option of not being declared successful at the examination in case he/she does not secure a minimum of grade equivalent to 55% marks at the examination. This option will have to be exercised every time the application is submitted to any of the examinations. Once this option is exercised, the option shall be binding on the examinee and it shall not be evoked in under any circumstances.
  - 12) The classification of the examinee successful at the semester and examinations and at the end of final semester examination shall be as per the rules and regulations of credit based semester pattern as prescribed in appendix, appended with this direction.
  - 13) The provisions of direction no. 3 of 2007 for the award of grace marks for passing an examination, securing higher grade in subject(s) as updated from time to time shall apply to the examination under this direction.

- 14) The names of the successful examinee passing the examination as a whole in the minimum prescribed period and obtaining prescribed number of places securing the grades equivalent to first and second division shall be arranged in order of merit as provided in ordinance 6 relating to examination in general.
- 15) The unsuccessful candidate failing in scoring passing marks in sessional/internal assessment shall be allowed to appear for internal/ sessional examination and college should send the marks to University before the commencement subsequent semester examination.
- 16) No candidate shall be admitted to an examination under this direction, if he/she has already passed the same examination of this university or of any other university.
- 17) Examinee successful at the final examination shall on payment of the prescribed fees, will be entitled for the award of the degree in the prescribed form signed by the Vice-Chancellor.
- 18) This course is based on Choice based credit System and therefore, it will be also regulated by guidelines and regulation given in appendices which are part of this direction.
- 19) With the issuance of the Direction, the Direction No. 34 of 2016 shall stand repealed.
- 20) I further direct that the aforesaid Direction shall come into force from the date of issuance and shall remain in force till the relevant ordinance comes into being, in accordance with the provisions of the Maharashtra Universities Act, 1994.

Sd/

Date :7-10-2016  
Nagpur

Dr. S.P.Kane  
Hon'ble Vice-Chancellor

**Examination leading to Master of Textile Design  
Scheme of teaching and examination under semester pattern**

**Choice Based Credit System (CBCS)**

**Appendix-I**

SEMESTER-I													MASTER OF TEXTILE DESIGN												
S. No	SUBJECT CODE	Theory/Practical	Teaching Scheme (Hrs/week)				Credits	Examination Scheme																	
			Theory	Practical	Total	Exam Duration		Max Marks		Total Marks	Minimum Passing marks														
								External Marks	Internal Marks		Th	Pr													
1	1T-1	Core I -Textile process	4	--	4	4	3	80	20	100	50	--													
2	1T-2	Core II -Colour and Design	4	--	4	4	3	80	20	100	50	--													
3	1T-3	Core III- World textile	4	--	4	4	3	80	20	100	50	--													
4	1T-4	Core IV Business communication skill	4	--	4	4	3	80	20	100	50	--													
5	1P-1	Core I Practical	---	8	8	4	6	80	20	100	--	50													
6	1P-2	Core II Practical	---	8	8	4	6	80	20	100	--	50													
7	1S-1	Communication Skills (seminar)1		2	2	1	--	--	25	25	---	13													
	<b>Total</b>		<b>16</b>	<b>18</b>	<b>34</b>	<b>25</b>		<b>480</b>	<b>145</b>	<b>625</b>	<b>200</b>	<b>113</b>													

**Note:**

1. Minimum passing marks in each head (Theory [External + Internal] will be 50 %.
2. Separate passing in Practical [External + Internal] and seminar will be 50 %.

## Appendix-II

SEMESTER-I I                      MASTER OF TEXTILE DESIGN												
S. N o	SUBJECT CODE	Theory/Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Theory	Practical	Total		Exam Duration	Max Marks		Total Marks	Minimum Passing marks	
								External Marks	Intern al Marks		T	P
1	2T-1	Core V - Advance fabric structure	4	--	4	4	3	80	20	100	50	--
2	2T-2	Core VI-Textile Finishing	4	--	4	4	3	80	20	100	50	--
3	2T-3	Core VII-Indian Textile Design	4	--	4	4	3	80	20	100	50	--
4	2T-4	Core VIII -Technical Textiles	4	--	4	4	3	80	20	100	50	--
5	2P-1	Core V Practical	---	8	8	4	6	80	20	100	--	50
6	2P-2	Core VI Practical	---	8	8	4	6	80	20	100	--	50
7	2S-1	(Portfolio) Photography Seminar-2		2	2	1	--	--	25	25	---	13
	<b>Total</b>		<b>16</b>	<b>18</b>	<b>34</b>	<b>25</b>		<b>480</b>	<b>145</b>	<b>625</b>	<b>200</b>	<b>113</b>

**Note:**

**1.Minimum passing marks in each head (Theory [External + Internal] will be 50 %.**

**2.Separate passing in Practical [External + Internal] and seminar will be 50 %.**

### Appendix-III

SEMESTER-I I I                      MASTER OF TEXTILE DESIGN													
S. N o	SUBJECT CODE	Theory/Practical	Teaching Scheme (Hrs/week)				Credits	Examination Scheme					
			Theory	Practical	Total	Exam		Max Marks		Total Marks	Minimum Passing marks		
								Exter nal Marks	Intern al Marks		T	P	
1	3T-1	Core IX- Dyeing technology	4	--	4	4	3	80	20	100	50	--	
2	3T-2	Core X- Research Methods & Statistics	4	--	4	4	3	80	20	100	50	--	
3	3T-3(a)  3T-3(b)	Elective I-Marketing& Merchandizing Or Elective II Garment manufacturing technology	4	--	4	4	3	80	20	100	50	--	
4	3T-4(a)  3T-4(b)  3T-4(c)	Foundation-I-(annexure) Or Core XI a)Advanced Knitting technology or b)Entrepreneurship Management &Retailing	4	--	4	4	3	80	20	100	50	--	
5	3-P-1	Core IX Practical	---	8	8	4	6	80	20	100	--	50	
6	3-S-2(a)  3-S-2(b)	Elective I Sessional  or Elective II Sessional	---	6	6	3	6	--	50	50	--	25	
7	3-P-2	Craft survey& Documentation Seminar-3	---	4	4	2	--	50	25	75	---	38	
	<b>Total</b>		<b>16</b>	<b>18</b>	<b>34</b>	<b>25</b>	<b>--</b>	<b>450</b>	<b>175</b>	<b>625</b>	<b>200</b>	<b>113</b>	

**Note:**

1. Minimum passing marks in each head (Theory [External + Internal] will be 50%
2. Separate passing in Practical [External + Internal] and seminar will be 50 %.



## Appendix-IV

SEMESTER-I V MASTER OF TEXTILE DESIGN													
S. N o	SUBJECT CODE	Theory/Practical	Teaching Scheme (Hrs/week)				Credits	Examination Scheme					
			Theory	Practical	Total	Exam Duration		Max Marks		Total Mark s	Minimum Passing marks		
								Exter nal Mark s	Internal Marks		T	P	
1	4T-1	Core XII - Printing technology	4	--	4	4	3	80	20	100	50	--	
2	4T-2	Core XIII – Quality analysis of textile	4	--	4	4	3	80	20	100	50	--	
3	4S-3(a)  4S-3(b)	Elective I Makeup & Styling  or Elective II Fashion Accessory Design		-		3		---	50	50	---	20	
4	4T-3(a)  4T-3(b)  4T-3(c)	Foundation II (annexure) or Core XIV Indian Art application or Visual Merchandising	4		4	4	3	80	20	100		50	
5	4P-1	Core XI Practical- Printing technology	---	8	8	4	6	80	20	100	--	50	
6	4P-2	Research Project  Viva  Internship		8	4	4	---	75 25 25	---	125	--	63	
7	4S-4	Research seminar-4	2		2	2	--	--	50	50	---	25	
--	<b>Total</b>		<b>14</b>	<b>22</b>	<b>36</b>	<b>25</b>	---	<b>445</b>	<b>180</b>	<b>625</b>	<b>100</b>	<b>213</b>	

**Note:**

**1. Minimum passing marks in each head (Theory [External + Internal] will be 50 %.**

**2. Separate passing in Practical [External + Internal] and seminar will be 50 %.**

**3.Four weeks Internship is compulsory  
FOUNDATION (ANNEXURE)**

**List of Foundation Subjects for P.G.**

Sr.No.	Subject	Board	4 <sup>th</sup> Papers of Semester- 3	4 <sup>th</sup> Papers of Semester-4
1	Mathematics	Mathematics	Mathematics-I	Mathematics-II
2	Physics	Physics	Physics-I	Physics-II
3	Chemistry	Chemistry	Chemistry-I	Chemistry-II
4	Bio-Technology (Ad-hoc)	Bio-Technology	Bio-Technology-I	Bio-Technology-II
5	Computer Science	Computer Science & Engineering	Computer Science-I	Computer Science-II
6	Environmental Science	Environmental Science	Environmental Science-I	Environmental Science-II
7	Botany	Botany	Botany-I	Botany-II
8	Zoology	Zoology	Zoology-I	Zoology-II
9	Statistic	Statistics	Statistics-I	Statistics-II
10	Business Management	Business Management	Business Management -I	Business Management -II
11	Accountancy	Account & Statistics	Account & Statistics-I	Account & Statistics-II
12	Managerial Skill	Business Administration & Business Management	Managerial Skills-I	Managerial Skills-II
13	Education Technology & Management Skills	Education Technology & Management Skills	Education Technology & Management Skills-I	Education Technology & Management Skills-II
14	Communication Skill	English	Communication Skills-I	Communication Skills-II
15	Sanskrit	Sanskrit	Sanskrit-I	Sanskrit-II
16	German	Other Foreign Languages	German-I	German-II
17	French	Other Foreign Languages	French-I	French-II
18	Law	Law	Law-I	Law-II
19	Pharmaceutical Sciences	Pharmaceutical Sciences	Pharmaceutical Sciences-I	Pharmaceutical Sciences-II
20	Life skills	Education	Life Skills-I	Life Skills-II
21	Economics	Economics	Economics-I	Economics-II
22	Political Science	Political Science	Political Science-I	Political Science-II

## ANNEXURE

23	Sociology	Sociology	Sociology-I	Sociology-II
24	Psychology	Psychology	Psychology-I	Psychology-II
25	Philosophy	Philosophy	Philosophy-I	Philosophy-II
26	History	History	History-I	History-II
27	Public Admn	Public Admn	Public Admn -I	Public Admn -II
28	Buddhist Studies	Buddhist Studies	Buddhist Studies-I	Buddhist Studies-II
29	Gandhian Thought	Gandhian Thought	Gandhian Thought-I	Gandhian Thought-II
30	Dr. Ambedkar Thought	Dr. Ambedkar Thought	Dr. Ambedkar Thought-I	Dr. Ambedkar Thought-II
31	Rashtrasant Tukdoji Maharaj Thought	Rashtrasant Tukdoji Maharaj Thought	Rashtrasant Tukdoji Maharaj Thought-I	Rashtrasant Tukdoji Maharaj Thought-II
32	Travel & Tourism	Travel & Tourism	Travel & Tourism-I	Travel & Tourism-II
33	Personality Development	Human Development	Personality Development-I	Personality Development-II
34	Cosmetic Technology	Cosmetic Technology	Cosmetic Technology-I	Cosmetic Technology-II
35	Hospitality Management	Hotel Mgt. & Cat. Tech.	Hospitality Mgt. -I	Hospitality Mgt. -II
36	Chemical Engineering	Chemical Engineering	Chemical Engineering-I	Chemical Engineering-II
37	Chemical Technology	Chemical Technology	Chemical Technology-I	Chemical Technology-II
38	Civil Engineering	Civil Engineering	Civil Engineering-I	Civil Engineering-II
39	Electrical Engineering	Electrical Engineering	Electrical Engineering-I	Electrical Engineering-II
40	Mechanical Engineering	Mechanical Engineering	Mechanical Engineering-I	Mechanical Engineering-II
41	Electronics Engineering	Electronics Engineering	Electronics Engineering-I	Electronics Engineering-II

42 Pali Prakarit Pali Prakarit Pali Prakarit I Pali Prakarit II

**Project Work Scheme**  
**Guidelines for the Students, Supervisors and Examiners**

Every student is required to carry out **Project Work** (semester IV) on a related research topic of the subject /course. It must be an original work. On the basis of this work, student must submit the Project Report (typed and properly bound) in two copies at least one month prior to commencement of the final Practical Examination of Semester IV. The project report shall comprise of Introduction, Review of literature and Methodology, Results, Discussion, Summary, Conclusions and References along with the declaration by the candidate that the work is original and not submitted to any University or Organization for award of the degree and certificate by the supervisor and forwarded through Head/Course-coordinator/Director of the Department/Centre or the Principal of the College.

The supervisors for the Experimental project work shall be from the following.

A person selected by the duly constituted selection committee in the relevant subject and approved by the University, exclusively for P. G. Course.

**OR**

A person selected by the duly constituted selection committee of the University approved by the University and appointed as a full time regular teacher with Masters Degree at U. G. Level in the relevant subject and having at least 10 years teaching experience.

**OR**

A person selected by the duly constituted selection committee of the University approved by the University and appointed as a full time regular teacher with Ph. D. Degree at U. G. Level in the relevant subject and having at least 5 years teaching experience.

## Appendix-V

### General Rules and Regulations

#### A) Pattern of Question Paper

1. There will be four units in each paper.
2. Question paper will consist of five questions.
3. Four questions will be on four units.
4. Fifth question will be from each of the four units having equal weightage.
5. Maximum marks of each paper will be 100.
6. Each paper will be of 3 hours duration.

#### B) Absorption scheme for failure students of the credit based semester pattern:

- a) While switching over to Choice Based Credit System, the failure students of credit based semester pattern will be given **Five** chances to clear the examination.
- b) The candidates who have cleared first and second semester of the Credit Based Semester Pattern examination in the concerned subject shall get admission to Third Semester of the Choice Based Credit System directly. However, candidates who are allowed to keep term will not be eligible for admission to Third Semester of the Choice Based Credit System unless they clear all the papers and practical of first and second semester of the Credit Based System Pattern examination as per the clause (a)

#### C) Absorption scheme for failure students of annual pattern:

The candidates who have cleared first year of annual pattern shall get admission to Semester III of the Choice Based Credit System directly. However, candidates who are allowed to keep term will not be eligible for admission to Third Semester of the Choice Based Credit System unless they clear all the papers and practical of First year of the annual pattern examination.

#### D)Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA)

- 1) On clearing a paper, based on cumulative score (out of 100) in that paper, a student will be given grade point average (GPA) (Maximum of 10 and minimum of 5) for that paper on the following basis.

Score (out of 100)	Grade	Grade Point Average (out of 10)
90 to 100	O: Outstanding	10
80 to 89	A: Very Good	09
70 to 79	B: Good	08
60 to 69	C:Average	07
55 to 59	D: Satisfactory	06
49 to 54	E: Pass	05
Below 49	F: Fail	00 or fail

- 2) On clearing all the papers in a semester, a student will be allotted a **Semester Grade Point Average (SGPA)** for that particular semester. As the pattern given particular semester will be the average of the GPA's for all the papers. above does not have differential weighs for papers, the SGPA of a student for a
- 3) A student will be allotted a **Cumulative Grade Point Average (CGPA)** after clearing all the

CGPA	Equivalent class / division
9.00 to 10.00	First class (out standing)
8.00 to 8.99	First class (excellent)
7.00 to 7.99	First class with distinction
6 to 6.99	First class
5 to 5.99	Higher Second class
Below 5.00	Fail

semesters. Again as there is no differential weight system for semesters, the CGPA of a student will be the average of the four SGPA's of that student.

The CGPA can be converted to the usual / conventional divisions in the following way.

- a. A student failed to score minimum 50% marks in each head of passing and in aggregate shall be given F grade.
  - b. Student with F grade in a course would be granted credit for that course but not the grade for that course.
  - c. Grade points earned in each paper shall be calculated as – Grade points obtained (vide above table) x Credits for the paper.
  - d. The formula for GPA will be based on Average. The final GPA will not be printed unless a student passes courses equivalent to minimum 100 Credits.
- 4) While declaring the result, the existing relevant ordinances are applicable. For verification and revaluation existing rules will be applicable.
  - 5) The candidate may take all the examinations as per the provisions of ATKT simultaneously but his/her result of final semester shall not be declared unless he/she is declared successful at lower examinations.
  - 6) If an examinee failed to pass the post graduate programme within five successive years (for four semesters degree) from the date of his / her first admission to particular post graduate programme he/ she shall be declared as “Not Fit for the Course (NFC)” and he/ she will not be allowed to appear further for any previous examination of the course.
  - 7) The final result of students admitted to semester III through lateral admission shall be based on result of III & IV semester together
  - 8) The computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) of an examinee shall be given below:
    - a. The marks will be given in all examinations which will include the college assessment marks, and the total marks for each Theory/ Practical shall be converted into Grades as per above table. SGPA shall be calculated based on Grade Points corresponding to Grade as given in above table and the credits allotted to respective Theory / Practical shown in the scheme for respective semester.
    - b. SGPA shall be computed for every semester and CGPA shall be computed only in IV semester (for four semester degree). The CGPA of IV shall be calculated based on SGPA of all four semesters as per following computation:

$$\text{SGPA} = C1 \times G1 + C2 \times G2 + \dots +$$

$$\frac{C_n G_n}{C_1 + C_2 + \dots + C_n}$$

Where C1 = Credit of individual Theory / Practical

G1 = Corresponding Grade Point obtained in the Respective Theory/  
Practical

$$\text{CGP} = \frac{(\text{SGPA}) \text{ I} \times (\text{Cr}) \text{ I} + (\text{SGPA}) \text{ II} \times (\text{Cr}) \text{ II} + (\text{SGPA}) \text{ III} \times (\text{Cr}) \text{ III} + (\text{SGPA}) \text{ IV} \times (\text{Cr}) \text{ IV}}{(\text{Cr}) \text{ I} + (\text{Cr}) \text{ II} + (\text{Cr}) \text{ III} + (\text{Cr}) \text{ IV}}$$

Where, (SGPA) I = SGPA of I Semester; (Cr) I = Total Credits for I Semester;  
(SGPA) II = SGPA of II Semester; (Cr) II = Total Credits for II Semester;  
(SGPA) III = SGPA of III Semester; (Cr) III = Total Credits for III  
Semester; (SGPA) IV = SGPA of IV Semester; (Cr) IV = Total Credits for  
IV Semester



**MASTER  
OF  
TEXTILE DESIGN  
SEMESTER-I**

**MASTER OF TEXTILE DESIGN SEMESTER I**  
**- CORE-1            TEXTILE PROCESS**

**1T-1**

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

**OBJECTIVES**

- 1.To understand the morphology of textile fibers and their relationship to physical properties
- 2.To become familiar with the types of yarns, their properties and usage
- 3.To understand various properties of fiber and their applications

**UNIT I**

- Introduction to textile fibres –Classification-General properties – Influence of fibre properties on yarn and fabric properties -Brief study on Cotton, Silk, Wool & Bast fibres (Flax & Jute
- Introduction – Filament spinning methods -Brief study on semi synthetic fibres: Viscose, fibres (Modal and Tencel) & Acetate fibres with their properties – Brief study on synthetic fibres (Polyester, Nylon, Polyacrylic & Spandex) and their properties
- Physical Structure and Properties of Fibres.

**UNIT II**

- Structure of textile natural and man-made fibres physical, Chemical and morphology.
- Investigation of Fiber structures:
- Moisture absorption study in fibers ,Hygroscopic nature of fibres-Effect of fibre structure and climate conditions..
- Mechanical Properties of fibers ,Tensile characteristics-stress-strain relation-influence of humidity and temperature on tensile characteristics.
- Elastic properties-Recovery-Elastic recovery and its relation to stress and strain; Mechanical conditioning advantages.Electrical and Thermal Properties

**UNIT III**

- Introduction to blended textiles and novelty yarns , Basic consideration for blended textiles
- Commercial blended yarns for garment industry – Types of novelty yarn. Double yarn and its properties – Cable yarn – Sewing thread types & properties
- Quality parameters of hosiery yarns. Quality requirements for hosiery yarn .
- Yarn and package defects – Study of basic quality norms for different hosiery yarn counts

#### **UNIT IV**

- Introduction to blended textiles and novelty yarns , Basic consideration for blended textiles .
- Commercial blended yarns for garment industry – Types of novelty yarn. Double yarn and its properties – Cable yarn – Sewing thread types & properties
- Quality parameters of hosiery yarns. Quality requirements for hosiery yarn .
- Yarn and package defects – Study of basic quality norms for different hosiery yarn counts

**Internal marks -will be based on assignments related to four units**

#### **Text Books:**

1. Trotman, E.R., " Dyeing and chemical Technology of Textile Fibres ", Charles Griffin and Co Ltd., London. 1990.

#### **References:**

- 1.. Hall A.J., " Textile Chemistry ", American Elsevier Publishing Co. Inc., New York , 1986.
2. Peters, R.H., " Textile Chemistry Vol.I, II and III ", Elsevier Publishing Co.Inc., New York, 1985.
3. Vaidya A.A. and Trivedi S.S., " Textile Auxilliaries and finishing chemicals ", ATIRA, Ahmedabad, 1985.
4. Shenai, V.A., " Textile Fibres ", Sevak Publications, Bombay, 1986.
5. Marsh J.T., " An Introduction to Textile Finishing ", B.I. Publication, Bombay, 1989.
6. Marsh J.T., " Mercerizing ", Chapman and Hall Ltd., London, 1041.
7. Menachem Lewin and Stephen B.Sello, " Handbook of fibre science and Technology; Vol.I, Fundamentals and preparation-Part A ", Marcel Dekker Inc., New York, 1983.
8. Shenai, V.A. " Technology of Bleaching and Mercerzing-Vol.III ", Sevak Publications Chennai, 1991.
9. Bhagwat R.S " Handbook of Textile Processing ", Colour Publication, Mumbai, 1999.:
10. Meredith. R and Hearle, J.W.S., " Physical methods of investigation of Textiles ", Wiley Publication, NY, 1989.

# MASTER OF TEXTILE DESIGN SEMESTER I

## CORE II -COLOUR AND DESIGN 1T-2

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

### **OBJECTIVES**

- To conceptualize design and its implementation
- To develop creative and technical skills in designing
- To design and develop structural and applied design for product development

### **UNIT I**

- Elements of design- dot, curves line, space, shape/form, composition, colour, texture shine, rough, silhouettes.
- Principles of design: Balance, rhythm, harmony, repetition, grading, unity, symmetry.
- Color Theory: Color wheel - primary, secondary, transparency.
- Techniques of color mixing.
- Color Contrast and Attributes: interaction, harmony, psychology, mood, culture and expression.
- Composition: Color, space, movement, balance, asymmetry, rhythm, shapes, proportion.

### **UNIT II**

- Basic color schemes- achromatic, analogues, monochromatic, complimentary, and neutral.
- Planning a colour story
- Rendering & its types.
- Define collage- types of collage.
- Textures-types of textures.
- Textural effects, using textures in designs.

### **UNIT III**

#### **Design Application**

**9**

#### **Structural designs**

Woven designs – concept of design repeat, translation in the form of peg plans and

drafts, understanding basic and decorative weaves, color ways, calculation of yarn requirement, sample development of woven fabrics  
Knitted designs – concept of design repeat, patterning in knits, sample development of knitted fabrics creating new textures

## **UNIT IV**

### **Applied design**

- Concept of design repeat, factors affecting design application Design and development of blocks, stencils and screens Saree borders of traditional sarees of different states etc.
- Illustration of designs- based on any five contemporary themes. Creating Classic and innovative designs details-for necklines, Skirts, Kurta

**Internal marks -will be based on assignments related to four units**

### **RECOMMENDED BOOKS**

- How to draw and paint by A Walter foster; published by E.D. Galgotia and sons.
- Flowers and still life by A Walter foster; published by E.D. Galgotia and sons.
- How to draw and paint textures of animals by A Walter foster; published by E.D. Galgotia and sons. 4 The Encyclopaedia of Patterns and Motifs by Dorothy Bosomworth; Studio London
- Designer's Guide to Colour 3 by Jeanne Alen; Chronicle Books, San Francisco
- Fabric Painting by Jill Kennedy and Jane Varsall; BT Batsford Ltd., London
- Designer's Guide to Japanese Patterns by Jeanne Allen; Chronicle Books, San
- Handwoven Fabrics of India by Jasleen Dhamija and Jyotindra Jain; Mapin Publishing Pvt. Ltd., Ahmedabad
- Impression - A Classic Collection of Textile Design by K Prakash; The Design Point, B-7, Shiv Krupa Apartments, Old Nagaradas Road, Andheri (E) Bombay 400 069 (India)

### **REFERENCES-**

- Textile Designs- Idea and Applications by Joel Sokoelov; PBC International, Inc., New York
- History of Textile Design by VA Shenai; Sevak Publications, Bombay 400 031
- Fabric Art Heritage of India by Sukla Dass; Abhinav Publications
- Fabric Painting Made Easy by Nancy Ward; Craft Kaleidoscope, Chilton Book Company, Radnor, Pennsylvania
- Watson's Textile Design and Colour by Z Grosicki; Universal Publishing Corporation, Bombay (India)
- Textile Designs- 200 years of Patterns for Printed Fabrics Arranged by Motifs, Colours, Period and Design by Susan Maller and Joost Elffers; Thames and Hudson
- English and American Textiles from 1790 to the Present by Mary Schoeser and Celia Rufey; Thames and Hudson
- Computer Colour-10,000 computer - Generated Process colours by Michael and

- Pat Rogondino; Angus and Robertson Publishers (Practical reference of colours)

## **MASTER OF TEXTILE DESIGN SEMESTER I**

### **CORE III - WORLD TEXTILES**

#### **1T-3**

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### **OBJECTIVES**

1. To study the textile traditions of the world
2. To study the important textile arts in their historical perspective
3. To appraise the role of Indian textiles vis-à-vis developments in the world textiles
4. To create awareness and foster appreciation of textile masterpieces of the world

#### **UNIT I**

- Men, & women costumes of difference states of Costumes
- of European countries – Egypt, Greece, Roman, Germany, .
- Costumes of Far Eastern Countries – Japan, Korea, Srilanka, Pakistan, Malaysia, China,
- Costumes of Africa –North, West, South & East
- American Costumes – North and central America –America.

#### **UNIT II:**

##### **Beginnings of the textile industry in ancient civilizations**

Mesopotamia

Egypt

Persia

Greece

Rome

China

India

#### **UNIT III: Study of masterpieces of world textiles Part I: Structural Designs**

(With respect to history, construction techniques, styles colors, motifs and centers of production)

- Brocades (China, India, Persia, Byzantium, Spain, Italy and France)
- Tapestries (Greece, Coptic, Europe, Peru)
- Carpets and Floor coverings (Middle and Far East)
- Shawls (India, England, France )
- Laces ( Europe )
- Linen damasks ( Ireland and Belgium )

#### **UNIT IV: Study of masterpieces of world textiles Part I: Applied Designs**

(With respect to history, construction techniques, styles colors, motifs and centers of production)

Resist dyed fabrics ( India, Indonesia and Japan)

Printed textiles ( India , France and England )

Embroideries (China, Persia and England)

Textiles of-

Pre-Hispanic, Latin and South America

Colonial North America

**Internal marks -will be based on assignments related to four units**

#### **RECOMMENDED READINGS**

Annemarie Seiler-Baldinger (1979) *Classification of Textile Techniques*

Ahmedabad, India, Calico Museum of India

Gillow John and Sentance Bryan (1999) *World Textiles*, London, Thames and Hudson

Ginsburg, Madeleine (Ed), (1993), *Illustrated History of Textiles*, London, Studio Edition.

Harris, Jennifer (Ed), (1993) *Textiles - 5000 Years*, London, British Museum Press.

# MASTER OF TEXTILE DESIGN SEMESTER I

## CORE IV- BUSINESS COMMUNICATION SKILLS

### 1T-4

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### **UNIT I**

##### **Communication:- Process and Elements**

- The Inwards of Communication - Communication as coding and decoding -roots of misunderstanding original message -reconstructed message -non verbal symbols -seven communication road blocks
- Non Verbal Communications, Written Communication - needs, functions and kinds of business letters, Effective Business letter- layout, planning the letter, enquiries and replies, orders and their execution.
- Objectives of communication in organization , Public relations and in context of Globalization

#### **UNIT II**

- Technological advancement. Means and media of communications. Effective communication process
- Communication Barriers. Consensus Process Language as Skill of communication .Listening skill, Memory technique. Types of communications in organization and business.
- Concept of Small talks and greetings and Dialogue
- Collection letters, circular letters, Sales letter, Bank correspondence, import and export correspondence.
- The Written Mode -The Body language of business letters. Business letters -the winning tone -smart e mail.

#### **UNIT III**

- Spoken Mode - telephonic and teleconferencing effective Business presentations, Meeting without yawns. Communicating Across Cultures.
- Business Communication - Writing business letter, Making effective power point and flash presentations ,
- Effective letter writing , reports, and internet based correspondence.



## **UNIT IV**

- **Interview techniques**
- Types of Interviews :- Personal interview, Group interview, Telephone interviews, Video interviews ,Sequential interviews .Preparing for Interview, behaviour-based questions, self analysis , career goals, knowledge of different culture. Job analysis and Research of organisation.
- Group Discussion technique. Its purpose and importance in manpower selection and organisation .Formal and informal group discussions. Skill of effective participation in group discussion. Leadership quality. Group value ,group prejudice and collective power

**Internal marks -will be based on assignments related to four units**

### **Oral presentations**

Using their colleagues as an audience, participants practise making presentations to small workplace meetings. Both this work and interview practice is videotaped and critiqued for oral presentation and also for Body language. Topics include summaries or commentaries on the recent topics and technical information related to textile industry and also on career experience. Group discussion on current topics and technical topics.

### **Teaching structure**

A typical day in the classroom might include theory and actual oral presentation practice.Discourse analysis and role plays. Interview and group discussion practice. Feedback on homework, such as an e-mail exercise. Guest lecture.

1. Acquaintance with 44 sounds of pronunciation related to textile design
2. Introducing self and others
3. Paper reading
4. Group Discussions
5. Seminar presentation on a given topic/theme
- 6 Report writing

### **Recommended Books:**

1. Essentials of Business Communication by Pal and Rorualling; Sultan Chand and Sons.
2. The Essence of Effective Communication, Ludlow and Panthon; Prentice Hall of India .
3. New Design English Grammar, Reading and Writing Skills by AL Kohli (Course A and course B), Kohli Publishers, 34 Industrial Area Phase-II, Chandigarh.
4. New Design English Reading and Advanced Writing Skills for Class XI and XII by MK Kohli and AL Kohli; Kohli Publishers, 34 Industrial Area Phase-II, Chandigarh.
6. Spoken English by V Sasikumar and PV Dhamija; Tata McGraw Hill.
7. English Conversation Practice by Grount Taylor; Tata McGraw Hill .
8. Developing Communication Skills by Krishna Mohan and Meera Banerji; MacMillan India Ltd., Delhi.
9. Business Correspondence and Report Writing by RC Sharma and Krishna Mohan; .

**MASTER OF TEXTILE DESIGN SEMESTER I**  
**CORE I PRACTICAL -TEXTILE PROCESS**  
**1P-1**

**External -80 marks( Practical)**

**Internal-20 marks**

- Identification of fibers – cotton, polyester,
- viscose, polyamide, silk, wool, jute, tencel and others. Use
- of burning, microscopic, chemical tests.
- Fiber Testing
- Fiber Fineness – using gravimetric method
  
- Yarn Testing
- Analysis of blend ratio of yarn
- Determination of yarn count
- Determination of yarn twist
- Determination of yarn strength
- Measuring linear density of yarn from yarn package (skein
- method), yarns from Fabric samples (short length)
- Yarn Crimp in woven fabrics
- Yarn evenness

**YARN CRAFT**

This project aims to:

- Expose the students to the various craft and textiles.
- Install appreciation for hand craftsmanship.
- Help the students in designing and product development, keeping in mind the skills and limitations of the craft.

Imparting knowledge of the following techniques for sample/product development

- Macrame
- Knotting
- Braiding
- Twining
- Tasselling
- Basic Knitting
- Crocheting
- Tatting
- Carpet-making
- Hook Weaving
- Ribbon Weaving

Exploration, Improvisation and adaptation of the above techniques towards innovative surfaces and forms while using a variety of material of like different kinds of yarns, vegetable fibres , thread and ropes ribbons, braids, trimmings, paper, wires, fabric, acrylics, polythene,

# MASTER OF TEXTILE DESIGN SEMESTER I

## CORE II -PRACTICAL-COLOUR AND DESIGN 1P-2

**External -80 marks (Practical)**

**Internal-20**

### **COURSE OBJECTIVES:**

The term CAD has found its way into all major discipline that have got anything to do with designing or drafting techniques. The major objective of this course is to expose the students to different software's available in the field of textile design industry so that they are able to use those software's in the design and construction of various textiles

1. Understand stages and components of design portfolio.
2. Explore product development techniques: Adobe Photoshop, Corel designer, Painter.
3. Instruct fellow students of proficiency in a computer technique; use of detailed handouts and drawings.

### **CAD IN TEXTILE DESIGN**

Principles of textile design.

- Pigment methodology.
- Development of repeat format designs for yardage production.
- Creation of artwork from various sources.
- Using CAD to create placement and repeat designs.
- Colour matching from samples to formula mixing methods.
- Sublistatic printing (heat transfer printing).
- Multiple colour separations.
- Fabric embellishment and fabric enhancement technique through CAD  
Portfolio samples of all techniques learnt in the course
- CAD for:creating original artwork, storyboards, photo montages  
manipulating a variety of media
- illustrations of clothing designs  
specification drawings/trade sketches  
textile designing -print designs, motifs, repeat prints and yardage prints  
creating dyed yarn for check stripes and multi-coloured weaves (plaids, hounds tooth, tartan) special weave effects  
printing and saving spot colour separations  
colour manipulation of fabrics print placement logos and swing tags.
- Understanding graphic representation, file conversion, drawing simple geometric
- and other related design, capturing a design using Scanner and modifying them

- Use of CAD in various end uses viz. dress material, upholstery, furnishing, label, embroidery
- Software packages like Textronics/Textstylers/Wonderweave/Scotweave/Techmen / Net Graphics
- Design systems may be adopted for following exercises (Any one may be chosen or any other latest software
- Working with Photoshop: scanning fabrics, designing textiles
- Preparation of woven, and printed design
  - Preparation of Printing and Dyeing on Fabric
    - Selection of design either by selecting printed fabric or by generating figures based on ideas
    - Selection of colour scheme
    - Finalizing the design on computer screen/paper
- Preparation of label design using any of the software Browsing and down loading of information from internet ,Sending and receiving e-mail
  - Creating a message
  - Creating an address book
  - Attaching a file with e-mail message
  - Receiving a message
  - Deleting a message

### **RECOMMENDED BOOKS**

CAD in clothing and textiles by W.Aldrich

- . A magazine on Computer in the world of textiles
- Fundamentals of Computer by V Rajaraman; Prentice Hall of India Pvt. Ltd.,
- New Delhi

**MASTER OF TEXTILE DESIGN SEMESTER I**  
**SEMINAR 1 –COMMUNICATION SKILL**  
**1S-1**

**Internal -25 marks**

- **Interview techniques**
- **1 Types of Interviews :-** Personal interview, Group interview, Telephone interviews, Video interviews ,Sequential interviews .Preparing for Interview, behaviour-based questions, self analysis , career goals, knowledge of different culture.
- **2.Job analysis and Research of organisation.**
- **3.Group Discussion technique.** Its purpose and importance in manpower selection and organisation .Formal and informal group discussions. Skill of effective participation in group discussion. Leadership quality. Group value ,group prejudice and collective power.
- **4.Business communication skill**
- Effective letter writing , reports, and internet based correspondence.
- Verbal communication skills like Technical presentation, Public speech ,Telephone conversation ,Video conferencing. Fluency of language ,its accent and intonation (Phonetics). Specific attention to opening and closing conversations, leaving messages, ways of finishing calls.
- Oral presentations Using their colleagues as an audience, participants practice making presentations to small workplace meetings. Both this work and interview practice is videotaped and critiqued for oral presentation and also for Body language. Topics include summaries or commentaries on the recent topics and technical information related to textile industry and also on career experience. Group discussion on current topics and technical topics.

**MASTER  
OF  
TEXTILE DESIGN  
SEMESTER- II**

# MASTER OF TEXTILE DESIGN SEMESTER II

## CORE V -ADVANCED FABRIC STRUCTURE

### 2T-1

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### **Objectives-**

The students of textile design are supposed to have knowledge and skill regarding various weaves and their construction. Hence, in this subject, students will learn different weaves, their method of employment to acquire competency for production of woven designs for different end use

#### **UNIT I**

- Introduction to fabric structure, explanation of woven structures and other fabric structures for example knitted, non-woven, bonded
- Construction of weaves on point or graph paper in relation of draft, design and peg plan (Mill visit)
- Construction of fundamental weaves and its derivatives in the form of simple designs.
- Variegated hopsack or matt weave designs with warp face, weft face and reversible effects. Ornamentation of plain weave by different methods

#### **UNIT II**

- Double Cloth: Construction of double and treble cloth on design paper, their beaming, drafting and pegging. Types of double structure (i) Tubular fabrics
- (ii) double faced fabrics (iii) fabrics opening to double the width (iv) concept of double equal plain fabrics, triple and four ply fabrics. Warp and weft tying principle.(This should be shown in a Textile Mill) (20 hrs)

#### **UNIT III**

- PREPARATION FOR HIGH SPEED WEAVING
- Yarns quality requirements for high speed automatic shuttle looms and shuttle less looms.
- Warp and weft Preparation for high speed looms.
- AUTOMATIC SHUTTLE LOOMS
- Automatic weft replenishment in shuttle looms-pirn changing and shuttle changing looms. Mechanisms involved in automatic weft replenishment-feelers, cutters, design of shuttle, three try motions. Warp stop motions, let off motions, Multi shuttle looms pile fabric weaving looms, tape looms.
- SHUTTLELESS LOOMS
- Principles of weft insertions in shuttle less looms, Weft accumulators and selvages used in shuttleless looms.
- Mechanisms of weft insertion by projectile, rapier air jet and water jet. Techno economics of shuttleless weft
- insertion systems. Multi phase weaving systems. Quick style change.

## **UNIT IV**

- WEAVING WITH DIFFERENT TYPES OF YARNS
- Preparation and weaving of open end yarns, blended yarns filament yarns, Data systems.
- BONDED FABRICS
- Web forming techniques for dry method of web preparation. Production of bonded fabrics by mechanical
- chemical and thermal methods. Production of spun bonded and melt blown fabrics. End uses of bonded fabrics.

### **INSTRUCTIONAL STRATEGY**

Student should be able to understand different weaves from fabric samples and by weaving. They must be taken to Textile Industries for showing above mentioned various processes.

**Internal marks -will be based on assignments related to four units**

### **References:**

1. Watson Textile Design and Colour– Grosicki, Z.J, Newness Butter Worths.
2. Advance Textile Design –William Watson , Longmans Green and Co. Ltd.
3. Grammar of Textile Design- Nisbet H., Taraporewale Sons and Co., Bombay.
4. Weaving Mechanisms – K.T. Aswani Mahajan Book Distributors, Ahmedabad.
5. Weaving Calculations – R. Sengupta, Taraporewale Sons and Co., Bombay
6. Woven Cloth Construction – Robinson and Mark, Butter Worth and Co.Ltd, London.
7. Elements of Weaving – Thorpe, Azaba, Doubleday and Co. New York
8. Modern Weaving – Singh R. H., Mahanjan Book Distributors, Ahmedabad

## **MASTER OF TEXTILE DESIGN SEMESTER II**

### **CORE VI- TEXTILE FINISHING**

#### **2T-2**

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

### **OBJECTIVES**

- To develop the holistic understanding of the finishing of fabric and garment used for the apparel industry
- To develop an understanding of the aesthetic & functional features of various types of finished fabrics and garments. To identify the effects of various types of finishes on the fabrics and the garments, changes occurring in their properties and their end uses in the apparel sector.
- To make the students understand the modern techniques of Garment and Fabric finishing in



relation to productivity, cost, quality and performance.

## **UNIT-I**

- Object of finishing & Considerations for finishing.
- Terms and definitions frequently used in finishing.
- Functional and aesthetic effects of finishes on fabrics and garments.
- Types of finishes -Temporary ,Semi permanent ,Permanent
- Detailed description of various mechanical finishing operations, e.g., 3 bowl, 7 bowl calendaring, decatizing, emerizing, Sanforizing, etc

## **UNIT-II**

- Resin finishing - with special mention on resin finish on cellulosic materials.
- Controlling factors in resin finishing
- Preparation for finishing of wool. Milling, felting of woolen fabrics. Various functional finishes : Water repellent, Fire repellent, Soil repellent, Anti static, Bacteriostat, etc.
- Moth proofing - antistatic finishing - Milling- decatizing - weighting of silk- anti felting - wool carbonizing - optical whitening of polyester - poplin finish- chiffon finish-de-lusturing of rayon.

## **UNIT-III**

- Finishing of Garments-Different types of finish- Durable press finish- Wash -n-wear finish
- Spotting and Washing of garments-Identification of stains, characteristics & history-Selection criteria of spotting chemicals-Factors for spotting
- Finishing of jeans with special emphasis on various types of jeans washing Denim finish- soil release finish- stone wash finish- anti pilling finish- fragrance finish- rubbery finish- burn out finish- UV protection finish- stain guards.

## **UNIT-IV**

- Evaluation of finishes - Basic concept of evaluation of different types of - finishes like, flame retardancy, crease resistant, - etc. through simple test methods.
- Environment pollution, eco friendliness in washing & finishing.
- Cost estimation of Finishing processes - Basic knowledge on the cost involvement of the various types of finishes.

**Internal marks -will be based on assignments related to four units**

## **REFERENCES**

Chemical Processing of fibres and fabrics, Vol-II (functional finishes, Part-B) Edited by

Menachem Lewin & Stephen B. Sello, Publisher Mercel Dekker, N.Y.

Textiles fibre to fabrics, By B.P.Corbman 6th Edition, Mcgraw Hills Intl. Publications

An Introduction to Textile Finishing By J.T. Marsh, second edition, Chapman & Hall Publishers

Understanding Textiles By Tortora & Collier, 5th Edition, Prentice Halls Publications

Textile progress by P.W.Harrison, The Textile Institute

Managing quality in the apparel industry by P.V.Mehta & S.K.Bhardwaj, New age international publishers

## MASTER OF TEXTILE DESIGN SEMESTER II

### CORE VII INDIAN TEXTILE DESIGN 2T-3

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### OBJECTIVES:

- The course imparts the knowledge about the Traditional fabric made using different materials and techniques which acts as an expression of the tradition and culture of India. The students acquire the knowledge about the significance and function of traditional textiles and embroideries
- The Students will acquire the knowledge about the characteristics of Indian traditional dyed, printed, painted, woven, and embroidered textiles and explore the constraints and benefits related to its application

#### UNIT I

1. Understanding Of Traditional Textiles For Process, Application And Design For The Following:
  - Dyed And Printed – Bandhej And Leheria, Block Printing Of Bagaru And Sangner, Dabu Printing, Kalamkari, Ajrakh, Ikat Batik
  - Painting – Phad Painting, Pichhwai, Madhubani Painting, Mata Ni Pachedi, Warli. Kalamkari,

#### UNIT II

- Woven – Mashroo, Paithani, Himroo, Maharashtra Shalu, Brocades Of Banaras, Chanderi , Maheshwari , Andra Cotton And Silk Sari, Bengal Cotton Sari, Ikkal, Kasavu, Kota, Orissa Cotton And Silk Sari, Tamil Nadu Cotton And Silk, Ikat of orissa, Gujrat, Andhra Pradesh Sambalpuri, Baluchari, Jamdani & Chanderi. Kanchipuram, Pochampalli, Patola, Paithani Banarasi Brocade,

#### UNIT III

- Traditional Indian Embroidery – ChambaRumal, Phulkari And Bagh, Gota Patti, Zardozi, Chikankari, Kasuti, Kutch, Appliqué., Kathiawadi, Kantha, Manipuri

## UNIT IV

- Traditional costumes of male and female - Punjab, Rajasthan Gujarat Madhya Pradesh, Uttar Pradesh, Maharashtra, west Bengal, North-East, Kerela, Tamilnadu, AndhraPradesh, Goa, Karnataka, Orisa, Bihar & Pahari.

### INTERNAL-

Illustrate 5 traditional motifs used in traditional textiles and embroideries of different states of India.

Prepare a swatch file of 25 fabrics each used in men's and women's wear.

Students should select any one area (Unit I,II,III) for designing to present traditional design in contemporary form.

It can be designed for household article/Gift etc.

Note: Students should be taken for field visits to various production centre to show the samples of the above mentioned textiles (embroidered, woven, printed and dyed)

They may also be taken for field visits to various places like art galleries/museums/religious places

Practically execute any one of the traditional designs in the contemporary form and prepare a file with replica or samples of the given topics

- Different themes picked from various sources (magazines, books, films, nature, surroundings, handicrafts, paintings, etc.) and presented using different presentation skills and mediums.
- A portfolio will be prepared by each student, in which he / she shall display his collection of themes, using different presentation skills.
- Each theme will be accompanied by a line of design using that particular theme as an inspiration.
- Different mediums and presentation skills should be used.
- The portfolio should have at least 20 types of design.

### RECOMMENDED BOOKS

1. Folk Embroidery of Himachal Pradesh by Subhashini Aryan
2. Ikat Textile of India by Chetna Desai
3. Indian Painted Textiles by Kamla Dev Chattopadya
4. Carpets of India by Marq
5. Fabric Art heritage of India by Sukla Das
6. Hand Woven Fabric of India by Jasleen Dhamija
7. Indian Sari by Kamla Dev Chattapodya
8. Tie Dyed Textile of India by veronica Muarphy
9. Hand Woven Fabrics of India by Jasleen Dhamija
10. Traditional Indian Textiles by John Gillow
11. Textile Art of India by Kyoto Shoin
12. Hand Painting Textile For the Home by Kaszz Ball and Valcrie

# MASTER OF TEXTILE DESIGN SEMESTER II

## CORE VIII-TECHNICAL TEXTILES

### 2T-4

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### **Objectives:**

1. To familiarise the students with technical textiles and its future prospects
2. To acquaint the students with technical fibers, yarns and fabric structure
3. To familiarise student with various application of technical textiles

#### **UNIT I**

Technical Textiles- Definition & Scope-Milestones-Types-Application , Development Chart-Processes, Applications, Globalizations, Future prospects of technical textile industry

Brief introduction to Technical fibers & Yarns

Technical Fibres – Conventional - Natural-Regenerated- Synthetic

Technical Yarns - Staple yarns - Types of yarns

Filament yarns- Definition- Types of yarns Conventional and New developed fibers and their applications

#### **UNIT II**

- Technical Fabric Structures
- Brief study of woven and knitted fabrics
- Knitted- Weft knitted and warp knitted structures
- Non Woven-Types of laying-Chemical bonding- Thermal bonding- Solvent bonding- Hydro entanglement
- Finishing of Technical Textiles- Introduction, Processes, Mechanical, Heat setting and Chemical process
- Coating of Technical textiles -Introduction, methods of coating, fusible interlining and laminating
- Brief introduction to Textile Reinforced – Composite Material

#### **UNIT III**

- Geo Textiles- Introduction- Geo synthetics- Types of geo textiles- Geo textile fiber forming polymers Geo textiles –properties of geo textiles, fibres used, engineering properties, soil strengthening, frictional resistance& applications
- Essential properties- Mechanical properties- Filtration properties- Chemical resistance- uses.

- Nano Technology in Textiles- Classification of nano technology- Nano fibres and new classification- Common Application- Healthcare- Biotechnology and Environmental Engineering applications- Energy generation- defense and security applications as filters

#### **UNIT IV**

- Application of Technical Textiles – - Medical textiles, Geo textiles, Defence textiles,
- Transport textiles, Automotive textiles and others
- Medical Textiles- Introduction-Fibers used- Non Implantable materials-Implantable materials- Healthcare/ Hygiene products
- Textiles in Defense- Introduction- Physical requirements for military textiles-Environmental requirements- Battlefield hazards-Flame, heat & flash protection.
- Textiles in Transport- Introduction-Application in Vehicles- Marine application
- Textiles in sports & recreation - space textiles

**Internal marks -will be based on assignments related to four units**

#### **References:**

1. Handbook of Technical Textiles – Edited by A R Horrocks and S C Anand
2. Technical Textiles – C Byrne, Textiles Marg issue 2.95, 1995
3. Specialty Fibers for Technical Textiles – J E McIntyre, Dept. of Textile Industry
4. University of Leeds
5. Handbook of Textile Fibers, Manmade Fibers – JG Cook, 5th edition, Merrow 1984
6. Woven Cloth Construction – AT Robinson and R Marsh, The Textile Institute
7. Manchester, 1973
6. Contribution of Knitting to Current & Future Developments in Technical Textiles –
8. S C Anand, Conference of Technical Textiles Group, The Textile Institute
9. Manchester, 1988
7. Production & Properties of Non – Woven – A Newton & J E Ford, Textile
10. Progression, 1973
8. Developments in Non – woven fabrics – A T Purdy, Textile Progression, 1980
9. Coated Fabrics – K Krishna J 1995

# MASTER OF TEXTILE DESIGN SEMESTER II

## CORE V- PRACTICAL -ADVANCED FABRIC STRUCTURE

### 2P-1

External -80 marks( Practical)

Internal- 20 marks

- **IDENTIFICATION AND ESTIMATION OF BLEND PROPORTION OF DIFFERENT FABRIC**

- The Following cloth samples are to be analyzed for design, structure and other quality particulars. ( Minimum 10 Experiments shall be offered)

1.Extra warp and extra weft 2. Gabardine 3.Quilts 4. Pile fabrics 5.Velvet andVelveteen Gauze 7.Leno 8.Double and triple cloth 9.Crepe 10.Long cloth and Mull Shirting 11. Canvas 12. Towelling Fabric. 13. Tapestry and Upholstery 14. Cord fabrics Denim  
Following weaves to be constructed on Graph Paper

Construction of Plain weave

- Rib weave - regular and irregular
- Cord weave - regular and irregular
- Construction of Twill weave
- Warp faced twill
- Weft faced twill
- Reversible twill
- Preparation of samples of plain and twill weave
- Napkin
- Theme combination of basic weaves
- Study of the fabrics regarding structure/weave and its end use:
- Analysis of different woven sample samples studied in theory for design, repeat, draft, peg plan and other details, on inch graph paper
- Creating stripes, checks and colour and weave effects on inch graph paper.
- End product tapestry/home furnishing range of woven fabricsJacquard /dobby
- To design a pattern using both technique
- To enlarge the design on graph paper
- Punching of the design on hard sheet
- Actual production of the design on fabric
- Creating suitable design repeat for dobby and jacquard looms on graph paper
- Setting of table loom / sample loom and weaving the following weave samples- plain, basket, rib, satin, twill and twill based, herringbone, diamond, honeycomb, mockleno.
- Color and weave effect designs, and any other fancy weave

# MASTER OF TEXTILE DESIGN SEMESTER II

## CORE VI- PRACTICAL-TEXTILE FINISHING

### 2P-2

**External-80marks (Practical)**

**Internal-20 marks**

#### EXPERIMENTS

- Scouring sizing and bleaching finishes
- Determination of Crease recovery of the given Fabric.
- Determination of Drape of the given Fabric.
- Determination of Color Fastness to light, washing, rubbing & perspiration
- Determination of Shrinkage of the given Fabric.
- Methods for measuring the water repellency of fabrics –
- Spray test, Bundesmann test, Drop penetration test, WIRA
- shower test, Hydrostatic head test
- Moisture Transport – Wicking Test – Vertical wicking and
- Transverse wicking Water Absorption of Fabrics –
- Static Immersion test
- Fabric wettability test
- Sinking time test. Water Repellency of fabrics – Spray Test
- Flammability Testing methods – forty five degree
- angle test, vertical flame test, mushroom apparel
- flammability test, carpet testing, cigarette test, blanket test
- Methods for measuring the water repellency of fabrics –
- Spray test, Bundesmann test, Drop penetration test, WIRA
- shower test, Hydrostatic head test
- Finishing of jeans with special emphasis on various types of jeans washing Denim finish- soil release finish- stone wash finish- anti pilling finish-

# MASTER OF TEXTILE DESIGN SEMESTER II

## PHOTOGRAPHY( Portfolio)

### SEMINAR-2

#### 2P-2

**Internal- 25 marks**

### PHOTOGRAPHY

- To introduce the CAMERA
- To understand Film, Use of various lenses
- To reproduce any master piece Contents
- Basic working of a DSLR camera.
- Assignments on various lights effects.
- Shooting a out door or any monument.
- Shooting ‘Textures’ or any kind of textile to get a feel.
- Shooting of a product by creativity ,appropriate background
- Introduction to Textile photography-The role of the Textile photographer Expressing yourself as a fashion photographer
- Applying the principles of photography
- Utilizing color
- Portraiture- The difference between studio and on-location portrait photography
- How lighting affects a portrait-What kind of gear you need to shoot portraits
- How to interact with your clients- How to handle fidgety children during a session How to lay out your studio
- Significance of styling-Developing a style-Shooting textile galleries- Techniques in photography- Marketing and branding yourself-Sourcing contacts Photographing models in the studio
- Texture and form

### ELEMENTS OF PHOTOGRAPHY

Lighting techniques-The different types of lighting-The reflection of light-Outdoor lighting – sunlight-Recommended equipment for outdoor lighting-

Introduction to indoor lighting- Photographing indoors – the technical issues

- Shoot a portfolio based on an appropriate theme with at least 5 photographs.



**MASTER  
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TEXTILE DESIGN  
SEMESTER- III**

# MASTER OF TEXTILE DESIGN-SEMESTER III

## CORE-IX - DYEING TECHNOLOGY

### 3T-1

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### OBJECTIVES

A student of textile design must have enough knowledge about principles and practices employed for Dyeing & Printing. He must be aware of various operation, materials, equipments and processes used for Dyeing & printing.

#### UNIT I

- Preparatory process in wet processing : sequence of process used in textile wet processing flow chart and process in brief
- Definition-Singeing--desizing-scouring -bleaching- Continuous scouring and peroxide bleaching mercerizing- method of mercerizing for yarn and fabric-comparison of woven and knitted cloth processing,

#### UNIT II

- Introduction to colour -Dyes and pigments The dye molecule (chromophores and auxochromes). Classification of dye molecules: Anionic, Cationic and Disperse. Configuration of the dye molecule. -Classification of dyes –Detail study of Natural and Synthetic dyes

#### UNIT III

- Phenomenon of Dyeing: The general theory of dyeing. Affinity of a dye. Dyeing aspects (Thermodynamic aspect and Kinetic aspect). The role of water, electrolytes, heat and dye auxiliaries in dyeing.
- Application of reactive, vat, direct Dyes: ,Basic dye, Acid dye, Sulphur dye,Disperse
- &Introduction to Properties , Methods of Application (cotton, wool, silk,Blends) After treatments
- Possible problems and remedies -Garment Dyeing. Introduction to Computer Colour matching

#### UNIT IV

- FINISHING
- Introduction, Calendering, starching, creping, softening, crease proofing, anti shrinking; felting, non-felting .
- TESTING
- Fastness properties of dyed and printed goods. Assessment of finishes imparted to textiles.

**Internal marks -will be based on assignments related to four units**

## REFERENCES

1. Trotman, E.R., " Dyeing and Chemical Technology of Textile fibres ", Charles Griffin and Co. Ltd. London 1990.

References :

1 Shenai, V.A., " Introduction to the chemistry of dyestufts ", Sevak Publications, Chennai, 1991.

2. Shenai, V.A., " Chemistry of dyes and principles of dyeing ", Sevak Publications, Bombay, 1995.

3. Cegerra, J., Puente, P. and Valladepears, J. " The Dyeing of Textile Materials ", Textile Institute, Manchester, 1993.

6. Hall, A.J., " Textile Finishing ", Elsevier Publishing Co, Ltd, 1986.

7. Marsh, J.T., " An Introduction to Textile Finishing ", Chapman and Hall Ltd., London, 1979.

8. Shenai, V.A., " Technology of Textile Finishing ", Sevak Publications, Bombay, 1995.

Page 18 . Shenai V.A 'Technology of Textile processing' Vol III,V,VII,&VIII Shevak Publications 1981

9. Datya K.V.,Vaidya AA 'Chemical processing of synthetic fibres and blends'' John Wiley&Sons,Newyork,1984

10. Peter R.H.'textile chemistry' Vol I & Vol II extile institute,Manchester 1970

11. Roy Choudhury A./K. "Textile Preparation and Dyeing" Science Publishers USA and Oxfor

## MASTER OF TEXTILE DESIGN-SEMESTER III

### CORE X -RESEARCH METHOD & STATISTICS

#### 3T-2

**External : 80 Marks(Theory)**

**Internal: 20Marks**

#### UNIT I :

Research Methodology

- Introduction: Meaning & Objectives of research, types of research, basic, applied action, approaches to research, research methods, research process.
- Criteria for good research, common problem, nature and significance of research problems, qualitative & quantitative research methods.
- Selection of Research Topic, selection of research problem, literature review, evaluation of research problem.
- Research design- meaning, concept & features of research design, experimental design, plan of research work.

#### UNIT II :

Methods & Tools of Research

- Reliability and validity of research tool.
- Qualitative and quantitative studies, Primary& Secondary data collection method.

- Preparing questionnaire and opinionnaire, identification of sources of information, searching and classifying information, organization of data collection.
- Processing & analyzing of data & information, limitation.

### UNIT III:

Preparing a research report proposal

- Format of research proposals, finding related literature.
- Individual & Institutional research proposals.
- Format of research report and style of report writing.
- The thesis or dissertation, style of writing, typing the report, reference form, tables, figures, evaluating a research report, summary, references.

### UNIT IV :

#### Applied Statistics

- Descriptive Statistics- Classification of variable.
- Measures of central tendency inter-quartile range & standard deviation.
- Estimation and Hypothesis testing-statistical hypothesis & Null Hypothesis, interval estimation.
- Concept of hypothesis testing & types of error, student 't' test, Chi-Square test, F test.

**Internal marks -will be based on assignments related to four units**

#### References :

1. B.D. John, A.L. Brown and R.R. Cocking, 1999. "How People Learn: brain, mind, experience and school". Washington, DC: National Academy Press.
2. A.R. Fraenkel, N.E. Wallen, 2008. "How to Design and Evaluate Research in Education", *ih Ed.* Boston: McGraw-Hill.
3. K.E. David, 2009. Curriculum Development for Medical Education: *A Six-Step Approach*, 2nd Ed. The John Hopkins University Press. ISBN 0-8018-9367-4.
4. N. Peter, 2009. "Leadership: Theory and Practice." *3rd Ed* Thousand Oaks: Sage Publications.
5. G. Bordage, B. Dawson, 2003. Experimental study design and grant writing in eight steps and 28 questions. *Medical Education*, 37(4): 376-385.

## MASTER OF TEXTILE DESIGN-SEMESTER III

### ELECTIVE I- MARKETING & MERCHANDISING

#### 3T-3(a)

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### UNIT-I

- Organizational structure of export house, buying house and domestic companies.
- Buyer classification and buying network in export.
- Marketing channels
- Planning and direction

#### UNIT-II

- Retail organization structure, buying and selling, line and staff Function, Role and Responsibility of retail fashion buyer.
- Customer identification and role of buyer.
- Retail Fashion Promotion
  - Fashion advertising, classification of retail advertising: IT application for retailing, electronic data exchange
  - Visual merchandising
  - Relationship marketing

### **UNIT-III**

- Role and responsibilities of Merchandiser.
- Time Flow management: Order Execution-Sampling to packaging time management, time estimation at every stage of order execution, maintain time scheduling chart, Case study to understand time scheduling

Vendor Management: Vendor Relations, Vendor Matrix

### **UNIT-IV**

- Brands and Labels
- Purchase term: Discount, Purchase, Order, Payment Terms
- Sourcing and Global sourcing
- Range development, Fashion calendar, Market Research.

**Internal marks -will be based on assignments related to four units**

### **References:**

1. “Fashion Marketing” By Essey Mike, Publisher Blackwell
2. “Consumer Behavior in Fashion” By Soloman, Michale R, Publisher Pearson.
3. “Fashion Marketing and Merchandising” By Mary, Publisher Goodheart-Willcox
4. “Fashion Marketing and Merchandising” By Pooja Chatley, Publisher Kalyani

## **MASTER OF TEXTILE DESIGN-SEMESTER III**

### **ELECTIVE II - GARMENT MANUFACTURING TECHNOLOGY**

**3T-3 (b)**

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

### **OBJECTIVES**

- To be able to co- relate design and manufacturing interface
- To understand different manufacturing processes
- Co-relation between design and production
- Production logistics ,Technological nuances in apparel production

### **Unit- I**

- Organization structure of a garment manufacturing unit. Work flow in a garment-manufacturing unit (Fabric Inspection to Finishing).
- Designers role in producing functional and production friendly designs - Process involved in designing a design sheet - Analysis and evaluation of counter sample

## **Unit- II**

- Pre Production Process - Various types of fabrics used - Development of Fabric. Analysis of desk loom and strike offs - Placement of orders - Co-relation of all processes before placement of orders
- Trims - Complete trim details-types, significance of each, sourcing, etc. - Types of trim - shoulder pads, buttons, thread, labels, hang tags, size disc, hanger, hook and bar, zippers, pocketing etc. - Trim calculation based on cutting tickets.
- Interlinings/ Lining - Types/Uses/Methods of Application - Various types of resins used and their Wash instructions - Equipment used for Fusing/ Operation of Fusing machine - Quality Problems associated with fusible interlinings

## **Unit- III**

Fabric & Cutting Room - Inspection of fabric and it's control-4 point fabric inspection system - Various methods of spreading fabric-requirements of spreading process, different type of fabric spreads. Concept of Splicing and Stepped Lay - Different Types of Spreading Equipment.

- Use and importance of marker-calculation of marker efficiency. Advantages of CAD marker vs manual marker. - Understanding of pattern & methods if laying patterns.
- Cutting- Types of cutting machines and advantage of each-Straight Knife, Round Knife, Band Knife, Die Cutter, End cutters, Notches. Different types of blades of cutting knives. Reasons for Quality problems in cutting.

## **Unit- IV**

- Sewing room - Machines-Types, uses and applications - Use of attachments - Sewing-Stitch types and Properties - Various techniques of production in sewing room - Make through - Modular manufacturing - Assembly Line - Advantages and disadvantages of each
- Finishing Room - Equipment-Form Finisher, Steam Press, Steam Tunnel, Dolly press, heat Chamber - Processes involved-Under pressing, Top pressing – Packing
- Quality Control & Garment Costing - Fabric to Ware house- Definition of Quality, Importance of testing in quality, Stages of QC in Apparel manufacturing company, Purpose of Pilot, Mid and final inspections.

## REFERENCES

- Technology of Clothing Manufacture Carr and Latham
- Garment Technology for Fashion Designers Gerry Cooklin
- Apparel Sewn Product Analysis Glock and kunz

## MASTER OF TEXTILE DESIGN-SEMESTER III FOUNDATION I (see Annexure) 3MTDT-4 (a)

or

## MASTER OF TEXTILE DESIGN-SEMESTER III ADVANCED KNITTING TECHNOLOGY 3T-4 (b)

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

### UNIT I:

- Basic Knitting Technology: Principles and comparison of weaving and Knitting, Introduction to
- weft and warp knitting – Classification of weft knitting machines -Terms and definitions of weft knitting
- -Study of basic weft knit structures and their characteristics -Knitting cycle of single jersey, rib and interlock structures

### UNIT II

- Modern Knitting Machines: Salient features of modern knitting machines -Ornamentation of
- basic weft knit structures -Different types of cams & needles -Formation of derived stitches
- Characteristics of tuck & Float Adjustments & setting of GSM -Modern double jersey machines and
- structures -Identification of various single and double jersey structures. :

### UNIT III

- Knitting Calculations: Count-gauge relationship -Production & GSM calculations – Influence of stitch length and tightness factor on fabric characteristics. Fabric faults, causes and remedies.
- Warp knitting: Comparison of warp and weft knitting – Classification of warp knitting machines – Terms and definitions – Study, Knitting cycle & comparison of Tricot and Raschel machines – Study of warp knit structures. Seamless Knitting: Basic principles & concepts–
- Advantages & Limitations – Applications.

### UNIT IV

- CIRCULAR KNITTING
- Basic knitted structures and their production i.e.,
- plain, rib , interlock and purl. Quality of yarn required for knitting. Yarn preparation for knitting. Circular knitting

- mechanics used for the production of basic structure. various machine elements. production of various weft knitted structures needle control in circular knitting machines. Factors affecting the formation of loop. Effect of loop length and shape on fabric properties. Faults in knitted fabrics, causes and remedies. Production calculation.
- **FLAT KNITTING**
- Basic principles; Elements of flat knitting machines. different types of flat knitting machines- manual , mechanical and computer controlled knitting machines. Production of various fabric designs with flat knitting machines.

### **Internal-**

1. Calculate the speed of single jersey knitting machine through gearing diagram.
- 2 Trace the diagram of different cams in the conventional knitting machine with measurements. Also mention the importance of each cam.
- 3 Develop a pattern for circular knitting and set the machine accordingly.
- 4 Develop a pattern for flat knitting and set the machine accordingly.

Minor Experiments:

5 Identify and analyse the given swatch for the following particulars:

- A) Courses and Wales per cm B) Loop length C) Technical graph  
D) Cam order E) Needle order

### **Samples:**

1. Pique 2. Thick Pique 3. Lacoste (Honey Comb)
4. Pearl 5. Cross miss 6. Twill
7. Cellular Blister 8. 2/3 Thread Fleece 9. Jacquard Design
10. Waffle 11. Flat Back Rib 12. Ottoman rib
13. Swiss double pique 14. French double pique

(Any 10 samples shall be given)

Note: Each student shall be asked to do one major and one minor (Sample swatch) experiment in the practical examination.

### **TEXT BOOK:**

1. D.B.Ajgoankar -Knitting Technology – Universal Publishing Corporation – Mumbai.

### **REFERENCES:**

1. David.J Spencer -Knitting Technology – Wood head Publishing Ltd. – Second Edition
2. Chandrasekara Iyer-Circular Knitting -Melsenvech GmbH Bomberg (German) – 1992.
3. J.E.Booth -Textiles Mathematics – The Textile Institute Manchester – I Edition 1997 :
4. D.J.Spencer., " Knitting Technology ", Textile Institute, Manchester, 1989, ISBN:1855733137.
5. Samuel Raz., " Flat Knitting ; The new generation ", Meisenbach GmbH, Bamberg, ISBN:3-87525-054-0.
6. Samuel Raz., " Warp Knitting Production ", Melliand Textilberichte GmbH, Rohrbacher, 1987.

**OR**

## **MASTER OF TEXTILE DESIGN SEMESTER III ENTREPRENEURSHIP**

### **MANAGEMENT AND RETAILING**

**3T-4(c)**



**External: 80 Marks(Theory)**

**Internal: 20 Marks**

## **OBJECTIVES**

- To give an in-depth knowledge about retailing and boutique management.

### **UNIT I :**

- Introduction to Retailing – Definition – Functions performed by retailers
- Multi channel Retailing – Store channel – Catalog channel – Internet channel
- Customer Buying Behavior – The buying process – Types of buying decisions – Social factors influencing the buying process –Family, Reference groups, Culture

### **UNIT II**

Retail locations – Types of locations –Free standing sites, City or Town locations

- Evaluating a site for locating a retail store – Traffic flow and accessibility – location characteristics
- Negotiating a lease – types of Leases – Terms of Lease

### **UNIT III**

- Customer Relationship Management – Collecting customer data – Analyzing customer data and identifying target customers – converting good customers into best customers – dealing with unprofitable customers
- Retail Pricing – Considerations in setting retail prices – Price adjustments – Markdowns, Variable pricing and price discrimination – Pricing Strategies – High / Low Pricing, Everyday low pricing – Pricing Techniques for increasing sales –Leader pricing, Price lining, Odd pricing

### **UNIT IV**

- Managing the Boutique– Store management responsibilities – Controlling costs – Labour scheduling, store maintenance – Reducing inventory shrinkage
- Boutique Design – Layouts – signage and Graphics – Feature Areas – Space management –

Visual Merchandising –Fixtures, Presentation techniques

- Customer Service strategies – Service recovery –Listening to customers, Providing a fair solution, Resolving problems quickly

### References

- Retailing Management by Michael Levy, Barton A Weitz, Ajay Pandit
- The Business of Fashion designing, Manufacturing and Marketing by Leslie Davis Burns, Nancy O Bryant
- Inside fashion Business by Dickerson Kitty G

## MASTER OF TEXTILE DESIGN-SEMESTER III

### CORE IX- PRACTICAL -DYEING TECHNOLOGY 3P-1

**External: 80 Marks(Practical)**

**Internal: 20 Marks**

#### DYEING

- Scouring of Cotton
- Cotton bleaching with hypochlorites &hydrogen peroxide
- Dyeing of cotton yarn/fabric using direct dye and Reactive
- Dyeing of cotton yarn/fabric using Vat and sulphur dyes
- Dyeing of silk fabric using acid and basic dyes
- Dyeing of wool using Metal complex and Reactive dyes
- Dyeing of blended fabrics-P/C, /P/V
- Finishing of cotton fabric by a few temporary and durable method
- Dyeing of cotton with direct dye by  
exhaust method •
- Dyeing of wool and silk with acid dye by exhaust method
- Dyeing of polyester with disperse dye by HTHP method
- Use of natural dyes and mordants (Synthetic & natural) to dye cotton, silk and wool
- Identification of dyes, direct, reactive, azo, vat, sulphur acid and disperse dyes on fabrics.
- Use of Colorimeter /  
Spectrophotometer for
- determination of dye content on fabrics through

optical

- density measurement  
calibration curve

## **MASTER OF TEXTILE DESIGN-SEMESTER III**

### **ELECTIVE I -SESSIONAL- MARKETING & MERCHANDISING**

#### **3S-1(a)**

#### **Internal-50 marks**

#### **Assignments on following topics**

- Study of different Brands and Labels
- Fashion calendar
- Order Execution-Sampling to packaging time management, time estimation at every stage of order execution, maintain time scheduling chart, Case study to understand time scheduling
- Visual merchandising
- Market Research of different shopping malls regarding the sale of Fashion and Textile product
- Interview members of your market segment  
Interview members of your consumer group and write Summary of interviews for each team member.

## **MASTER OF TEXTILE DESIGN-SEMESTER III**

### **ELECTIVE II SESSIONAL-GARMENT MANUFACTURING TECHNOLOGY**

#### **3S-1 (b)**

#### **Internal-50 marks**

- Machine Exercise, Control and safety parameters Paper Exercise Introduction to Seams and seam allowance (Woven and Knit Fabrics) - Plain, Press open, Felt / Edge stitch, Welt Seam (Feed of Arm) Double Top stitch, Tuck seam, Slot, French, Lapped, Piped, Cord, Fagotted.
- Seam and Hem Finish (Woven and Knit Fabrics) - Over-lock, Stitch and cut, fold and stitch, Bound seam, Hemming ( Visible and Invisible)
- Facings – Fused, Un-fused and Bias.

- Waistband- Fused, Un-fused, Elasticized
- Seam types – Class 1, 2, 3, 4, 5, 6. Their basic diagrams and usages
- Plackets / Openings - Slit, Blouse, Continuous and Shirt Placket (fused un-fused and concealed, T shirt and Kurta plackets).
- Pockets – Patch (square , round, notched, three Point), Flap, Box, Inseam Pocket (side, cross) Slash Pocket (single welt and Double welt)
- Fasteners – Zippers (Visible, Invisible), Button and Button Hole, Hook And Eye, Press button, Rivets, Eyelets and Draw Strings, Velcro

● **ASSIGNMENT DETAILS:**

- 1) Submission of Paper Exercise In line form minimum six samples (Size 8’’x8’’)
- 2) Submission of all seams on muslin (12 samples) and also on suitable fabrics (12 Samples)
- 3) Submission of Seams and Hem Finish (7samples on muslin) and on knitted fabric minimum 3 samples (Hem fold on 5 thread flat lock, Plain seam on 4 thread over lock -Bound seam on 5 thread flat lock with folder attachment)
- 4) Submission of Necklines and armhole facings. Minimum 3 samples 5) Submission of Waist bands Minimum 3 samples
- 6) Submission of plackets (Slit, Blouse, Continuous, Shirt Placket (fused, un-fused and concealed, T shirt and Kurta plackets).
- 7) Submission of pockets Patch (square , round, notched, three Point), Flap, Box, Inseam Pocket (side, cross), Slash Pocket (single welt and Double welt)
- 8) Submission of various fasteners (Zippers (Visible, Invisible), Button and Button Hole, Hook And Eye, Press button, Rivets, Eyelets and Draw Strings, Velcro).
- 9) Submission of Cuffs (Square, Round, Notched and French)
- 10) Submission of Collars (Shirt Collar and Mandarin collar)

**MASTER OF TEXTILE DESIGN-SEMESTER III  
CRAFT SURVEY AND DOCUMENTATION  
SEMINAR-3  
3P-2-**

**External-50  
Internal -25**

**Objectives**

- Expose the students to the variegated crafts and textiles.

- Install appreciation for hand craftsmanship.
- Expose the students to actual environment of the origin & sustenance of the textile crafts.
- Teach effective information gathering, communication, data collection and finally documentation.

## **Contents**

Survey and documentation of the selected craft situation as it exists and how it has evolved.

Students will visit the chosen craft area and will study the textile craft and handicrafts of the area in detail: the technicalities as well as the present status of the craft, role of textile designer to uplift the craft, study the consumer choice, the marketing channels and outlet; they will make a detailed documentation of the process, implements, materials used

- Students would travel to a place and stay with artisans and explore designing of the craft from them and develop an end product with them.
- Different themes picked from various sources (magazines, books, films, nature, surroundings, handicrafts, paintings, etc.) and presented using different presentation skills and mediums.
- A portfolio will be prepared by each student, in which he / she shall display his collection of themes, using different presentation skills.
- Each theme will be accompanied by a line of textile product designed using that particular theme as an inspiration.
- Different mediums and presentation skills should be used.

**MASTER  
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SEMESTER- IV**

# MASTER OF TEXTILE DESIGN-SEMESTER IV

## CORE-XI - PRINTING TECHNOLOGY

### 4T-1

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### UNIT I

- Difference between dyeing and printing. The general theory of printing; Introduction to printing and its Historical Background
- Thickeners and Ingredients used in printing. Preparation of grey fabric for printing –desizing – scouring – bleaching - mercerization. Degumming of silk.
- Essential constituents of printing paste and their importance . Preparation of printing Paste and its importance Auxiliaries used for Printing

#### UNIT II

Classification of textile printing - the method of printing and the style of printing.

Methods of printing , merits and demerits

- Block printing Screen printing - preparation of design and screen - table screen printing. Block printing - preparation of blocks - preparation of colour pads - printing process.
- Stencil printing - preparation of stencils - printing process. Printing styles- positive – negative – spraying –sponging - brushing.

#### UNIT III

- Methods of Printing, merits and demerits; Roller Printing - Roller Printing Machine and its main parts. its advantages and disadvantages. Screen Printing- Automatic flat-bed screen printing machine. Rotary Screen Printing. Transfer Printing. Foam Printing
- Faults in Roller Printing and Screen Printing and their rectification.

#### UNIT IV

Styles of printing .

- Direct with process details  
Resist Tie and dye techniques- method of tying- dyeing method. Batik types of waxes – waxing – dyeing – de-waxing.
- Discharge Printing, Mordant/dyed Non-conventional -
- After treatment of printed material :- -, Washing off Colour fixation and after treatments – Drying ,steaming – curing - thermal fixing ageing

#### REFERENCES-

- Technology of Printing by VA Shenai
- Technology of Printing by Kalley
- A glimpse of Chemical Technology of Fibrous Materials by RR Chakravorty
- Dyeing and Printing by Varke
- Dyeing and Printing by Jyoce storey
- Introduction to Textile Printing by Clark
- Screen Printing Designs and Technique by Biegelesien and Cohn
- Manual of Textile Printing by Story, Technology of Textile Printing R. S. Pra

## MASTER OF TEXTILE DESIGN-SEMESTER IV

### CORE XII - QUALITY ANALYSIS OF TEXTILE

#### 4 T-2

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### **OBJECTIVES:**

1. To develop an understanding of methods and techniques used to analyse textile fibers, yarns and fabrics for end use performance
2. To acquire knowledge and understanding of various structural properties of textiles and relate them to end use fabric performance and product
3. To familiarize students with the different testing equipments, their underlying principles and the international accepted standards, test methods and the language of measurement
4. To be able to analyse and interpret the results and predict the general textile behavior performance
5. To develop understanding of the importance of quality control in textile testing

#### **UNIT I**

##### **. INTRODUCTION**

- The aims of quality assessment. Online and off line testing techniques
  - Importance of inspection and quality control
  - Definition of quality control, quality control organisation and its functions  
Importance of keeping standards and various factors responsible for deviation from standards.
  - Curative and preventive measures as quality control

#### **UNIT II**

- THE THEORY OF QUALITY CONTROL SYSTEMS
- The design of experiments. Statistical tools for quality control. Testing according to end use. Quality control systems for the shop floor.
- ISO-9000, Total Quality Management
- Routine tests performed in the textile industries- standards and specification used in textile industries – control chart concepts, control limits. Types of Chart - X and R Chart.

#### **UNIT III**

- FIBRE TESTING
- Fibre testing-Length & Length Uniformity-Fineness-Strength-Maturity-Trash content-Moisture content.
- Yarn Testing – yarn numbering – simple calculations, yarn strength, twist, and evenness, neps, crimp, hairiness and yarn appearance. Aspects of Uster evenness tester.



## UNIT IV

- Fabric testing – fabric particulars – length, width, crimp, threads / inch, thread count, weight. Fabric strength – tensile, tearing & bursting. Abrasion resistance, pilling resistance, crease recovery, stiffness, drapability, air permeability and water permeability Determination of- Construction parameter-Fabric strength-Comfort properties & durability. Determination and control of weaving defects. Objective evaluation of fabrics.
- Common faults in fabric and their analysis
- Colour fastness in textiles – washing, light rubbing, perspiration bleaching and dry cleaning. Colour matching cabinets shade matching.

**Internal marks -will be based on assignments related to four units**

### Text Books :

1. Booth J.E., " Principles of Textiles Testing ", Butterworth, London, 1989.
2. Kothari, V.K, Progress in Textile Technology, Vol.I, Testing and Quality Management, IAFL Publications, New Delhi, 1999.

### References:

1. Skinkle J., " Textile Testing ", Taraporevala & Sons, Bombay, 1987.
2. Cassidy . C and Bishop D., " Characterisation and evaluation of sensory and mechanical properties of fabrics ", T.P. Vol.26, No.4, Textile Inst. 1995.
- 3.Slater K. " Physical testing and Quality control ", TP vol.23, No.1/2/3, Textile Inst.1993.

## MASTER OF TEXTILE DESIGN SEMESTER IV

### ELECTIVE I– FASHION ACCESSORY DESIGN

4S-3(a)

**Marks – 50 internal**

### Objectives:

- To impart knowledge of fashion Accessories
- To provide opportunity and to design and to develop fashion accessories

### Unit I

**Fashion accessories-** Introduction, definition. History, Classification and types of Fashion accessories.Importance of Fashion accessories How To Choose The Right Fashion Accessories How To Use Accessories With Outfits Types Of Accessories For Men and Women

### Unit II

**Accessory types-** detail study of types of Head gears, Foot wear, Bows, neckties and belts, Hand bags, Gloves, Scarves, Stoles, Shawls,Eyewear,handkerchief types of hosiery for men and women.

- History of Sandals
- History of Women's Shoes
- Masks in Fashion

- Men's Hosiery
- Muffs
- Pointed Shoes
- Shoes
- Sneakers
- Sport Shoes
- Sunglasses
- Turban
- Umbrellas and Parasols
- Veils
- Watches and Fashion
- Women's Stockings and Fashion

### Unit III

#### Detail study of following accessory

- Belts and Buckles
- Beret
- Brooches and Pins
- Canes and Walking Sticks
- Children's Shoes
- Codpiece
- Crowns and Tiaras
- Cuff Links and Studs

Materials and processes-leather, straw, fur, wood. Materials required. Material sourcing. Design development & production.

Trends and Marketing- Fashion trends and marketing of accessories. Study of any 4 accessory designers. (two Indian and two international)

### Unit IV

- **An introduction to jewellery making:-** Various types of jewellery, materials used for making jewellery, metals and stones, History of jewellery Egypt, Sumerians, Greek, Rome and Indian jewellery.
- Jewellery- Jewellery Design and production, Types of Jewellery – precious, costume, bridge. Traditional Indian jeweler – temple, kundan, minakari, thewa, filigree, terracotta. History of Necklaces and Pendants □ Earrings, □ Bracelets rings, hair ornaments.
- Costume Jewelry

#### Internals

Creation of accessories and ornaments for the following

Head Gears

Foot wears

Hand Bags

Earning / Necklaces / Bangles

Pendants / Bracelets / Ankelets

Belts / Gloves

Purses

**Reference:**

1. Claire Billcocks, " Century of Bags", Chartwell Books, New Jersey 1997
2. John Peacock, " Fashion Accessories- Men", Thames and Hudson, London, 1996
3. John Peacock, " The complete 20th Century Source Book", Thames and Hudson, London, 2000
4. Malolow Blahnik- Co Collin Mac dolw, " Shoes -Fashion and Fantasies", Thames and Hudson, 1989

**MASTER OF TEXTILE DESIGN SEMESTER IV  
ELECTIVE II-MAKEUP & STYLING  
4S-3(b)**

**Internal-50marks****UNIT I :**

- Makeup Tools / Categories of Cosmetics
- Creating a Flawless Base
- Perfecting Foundation, working with Different Product Textures
- Contouring Techniques / Shading & Highlighting
- Camouflage Makeup Techniques, Waterproof Makeup
- Bridal Makeup Looks / Techniques for Day, Evening & Studio
- Eye / Cheek / Lip Makeup Techniques

**UNIT II :**

- Fashion & Glamour Makeup Techniques
- Fashion Catwalk Looks, Smoky Eyes, Nude Look, Retro Looks, Eyelash
- Theatre Makeup Techniques-Character Makeup, eg Clown, Opera, Horror, Fantasy Face Painting, Body Art, Henna Art ,Creating Wounds, Burns, Scars , Wrinkles etc
- Fashion Hairstyling Techniques- Creating Up-do Hairstyles, Bunning, Plaits etc

**UNIT III :****Styling**

- Use magazine picture & insert images to create presentation
  - 20<sup>th</sup> century men's /women's style
  - Vintage style
  - Classic style
  - Explain style detailing
  - Make P.P.T

**UNIT IV :**

- Select any 3 National & 3 International designer's collection showcased during past fashion show. Collect pictures or videos for the same.
- Explain the themes, stories and write overall review
- Styling according to personality

- Change style according to human figure, occupation, income, society
  - Specification
  - Tribal women / men
  - Middle class
  - High Class
  - As consultant of designer

## **MASTER OF TEXTILE DESIGN SEMESTER IV**

### **FOUNDATION I ( See Annexure) 4T-3(a)**

**or**

## **MASTER OF TEXTILE DESIGN SEMESTER IV**

### **Indian Art application 4T-3(b)**

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

#### **Unit – I Indian Painting**

- Formal and stylistic aspects of pre – historic, Ajanta, Bagh and later mural tradition, Manuscript painting ( Eastern Indian and Western Indian ), Sultanate ( Mandu ) Chourapanchasika style and other pre – Mughal schools, Mughal ( Akbar to Shahjahan ), Rajasthani ( Mewar, Bundi, Kotah, Bikaner, Jaipur, Kishangarh, etc. ), Malwa, Pahari ( Basholi, Guler, Kangra ) and Murals
- Miniature Rajasthani paintings,
- Tribal paintings , Mughal painting ,
- Rajput painting, Mysore painting
- Tanjore painting etc

#### **Unit – II**

- Pata painting ( Rajasthan, Bengal, Orissa ), Madhubani, Warii, Pithoro painting. Dokra bronzes, terracotta horses ( Gujarat, U.P., Bengal, M.P., Tamil Nadu ), wood carving ( Kondappalli, Karnataka ( Bhuta ), Bengal, M.P. ), Indian traditional and modern design and functional arts :
- An overview of textiles
- textile design, symbolic motifs of various culture from ancient to modern day
- woven textile design
- Brocades of Banaras , Baluchuri, Chanderi, Tanchoi, Kanjivaram,
- Himru, Amru, Mashru & Dacca muslin, Dyed tie & dye, Ikat, double Ikat, Bandini, Printed block, screen, applied dyed & painted textiles

#### **Unit – III**

- Study of various phases of Indian Art History from Pre – Historic times to 18th century ( including the history of advertisement ) from the point of view of general formal and stylistic

features and development of ideology, materials technique and themes.

- History of modern Western art
- History of modern Indian art
- History of far eastern art

#### Unit – IV

- Advertising theory Indian aesthetics
- Advertising and Society – Advertising business offers, employment.
- Influences of Art trends and trends in design and Art direction.
- Campaign planning, Selling methods, Role of Appeal in campaign planning.
- Advertising- Creative brief, Message execution, Print, Newspaper, Magazine Advt.
- Layout stages & principles, Science & Creativity, Radio/T.V. Advt; Creative thinking
- Adaptation of techniques in theme designing
- Inspiration board
- Mood board
  
- **INTERNAL**
  - Making samples of any three paintings
  - State wise textile printing and paintings – Madhubani, kalamkari, bandhani, batik, Miniature Rajasthani paintings, Tribal paintings, Mughal painting , Rajput painting, Mysore painting i Tanjore painting etc
  - Adaptation of techniques in theme designing - Inspiration board
  - Mood board -Work on textures
  - Collect swatches & making the detailing board
  - Perfection of Design – Toil making of a theme, Co-ordinate Accessories Mechanics of building ads.
  - Layout-purpose and qualities
  - Logo, headlines, typography
  - Ornamentation by experimenting
  - Design development sheets
  - (Make a swatch through surface ornamentation & mixing in many ways)
  - Ornamentation with texture ,Fabric swatches
  - Different kinds of Ad's brochure, catalogue , billboard, magazine Advertisements

#### References

- .JamilaBrijBhusan Master piece of Indian jewellery Taraporevala
- Bombay1979.
- .JamilaBrijBhusanTheCostumes and textiles of India Taraporevala
- Bombay.1958
- .ParulBhatnagar,Traditional Indian costumes & textiles||, Abhishek Publication.2004
- 4.Phyllis Tortora, Keith Eubank Survey of historical costumes, A History of western dress||, , Fairchild Publication 2009
- **The Art of Ancient India**, by Susan Huntington (Weatherhill, 1985, third printing 1999).

- Havell, E. B. (1920). A Handbook of Indian Art. *John Murray, London*.
- Indian Painting, by Percy Brown. Published by Y. M. C. A. publishing house, 1960.
- Indian Painting, by Philip S. Rawson. Published by P. Tisné, 1961.
- Indian Painting: The Scene, Themes, and Legends, by Mohindar Singh Randhawa, John Kenneth Galbraith. Published by Houghton Mifflin, 1968.
- Indian Painting, by Douglas E. Barrett, Basil Gray. Published by Skira, 1978. ISBN 0-8478-0160-8

## **MASTER OF TEXTILE DESIGN SEMESTER IV**

### **FOUNDATION II- VISUAL MERCHANDISING**

#### **4T-3(c)**

**External: 80 Marks(Theory)**

**Internal: 20 Marks**

### **OBJECTIVES**

To sensitize /orient the textile and clothing SME's to the concept of visual merchandising

To provide the basic working tools and skills related to visual merchandising

### **UNIT I**

Visual merchandising and Display Basics

- Purpose of Display
- Colour and Texture
- Line and Composition
- Light and Lightings
- Type of Display and Display settings

### **UNIT II**

Display Locations

- Store Exterior
- Window Display
- Store Interior

Display Equipments

- Mannequins
- Alternative to the Mannequins
- Dressing the three dimensional form

- Fixtures
- Visual Merchandising and Dressing Fixtures
- Furniture as props

### **UNIT III**

#### Visual Merchandising and Display Techniques

- Attention getting devices
- Familiar symbols
- Masking and proscenia
- Sale ideas
- Fashion Accessories
- Graphics and Signage

### **UNIT IV**

#### Visual Merchandising & Planning

- Visual Merchandising and Planning
- Setting up a Display shop
- Store Planning and Design
- Visual Merchandising and Changing face of Retail

#### Related Ares of Visual Merchandising and Display

- Point of Purchase Display
- Exhibit and Trade show Display, Industrial Display
- Trade Organizations and Sources

### **INTERNAL- PRACTICAL EXPERIENCE**

Present a theme based window display for a retail Textile and fashion outlet.

**Fixtures and Fittings:** how to suit them to the product; custom built or readymade

**Mannequins:** suitability; how to dress them

**Use of Props:** where to get props; how to use them

**Graphics:** as a prop/visual aid; as information

**Lighting:** its importance; best uses

**Merchandising:** general tips; visual awareness; customer relations/communication

### **REFERENCES**

- Visual Merchandising and Display / Edition 5 by Martin M. Pegler , Fairchild Publication.
- Contemporary Visual Merchandising and Environmental Design by Jay Diamond, Ellen Diamond in Books
- Visual Merchandising and Store Design Workbook by Greg M. Gorman - ST Publications (1996)
- Visual Merchandising by ST Media Group International, Incorporated

**MASTER OF TEXTILE DESIGN-SEMESTER IV**  
**CORE-XI PRACTICAL -PRINTING TECHNOLOGY**  
**P-1**

**External -80 marks (Practical )**

**Internal-20 marks**

**PRINTING EXPERIMENTS**

- Printing of cotton by following dyes with block/screen/stencil/roller on cotton
- Pigment colours, reactive dyes , -Vat dyes
- Printing of wool and silk by following dyes by block/screen/stencil
- Acid dyes -Basic dyes -Metal complex dyes
- Printing of synthetic fabric by following dyes with Block/Stencil/Screen/Roller
- Pigment colours -Disperse dyes -Acid dyes -Basic dyes
- Discharge Printing ,tie and dye,Batik printing
- Stencil printing on curtains ,wall hangings etc
- Experimental use of mix media and various techniques to develop concepts including hand printing on fabrics
- Developing a collection of prints and putting the designs in repeats ready for Printing
- present a collection of print design in repeats.
- Illustrate the chosen print design collection in an interior or show its use when the collection is for fashion textiles
- Printing on cotton fabric with reactive dyes and pigment,
- Printing on silk with acid dyes, polyester with disperse dye
- and cotton/polyester blend with disperse and reactive dyes.
- Post Treatment of dyed, printed and finished fabrics. (Soaping, rinsing, washing and fixation).



**MASTER OF TEXTILE DESIGN-SEMESTER IV**  
**RESEARCH PROJECT**  
**4P-2**

Project-75 marks  
Viva—25 marks  
Internship-25 marks  
Total 125(External)

Major project work is meant for solving open ended problems by applying the knowledge and skills gained through various subject areas. It is expected that students will be sent to various textile industry for about 5 weeks at a stretch and they will be asked to take live problems from the field as project work.

Identification of textile industry and project activities which can be taken in them should begin well in advance . Students should also be asked to identify suitable textile industry and project activities which can be taken by them. One teacher is expected to guide, supervise and evaluate the project work of 5 - 7 students.

The Research Project will be made and presented with the following outline.

Chapter 1 – Introduction(Aims, Objectives, Need & Scope of the study)

Chapter 2 – Review of Literature

Chapter 3 – Methodology

- Inspiration Board
- Mood Board
- Client board

Design Development Process – Garment – 1,2,3 & 4

- Illustration Sheet
- Selected design (colour illustration with details)
- Garment Flats
- Swatch Board
- Garment details
- Cost Sheet
- Story Board
- Photograph
- Embellishment Board

Chapter 4 – Result and discussion with Interpretation

References & Webliography

## **INTERNSHIP**

- One month internship in the Textile Industry, EOU textile mill , textile and garment printing unit, cottage industry, boutique, studio or production unit of a Textile designer, a retail outlet for Textile or a brand of a garment or a embroidery unit, or weaver service center
- The organization can be government, Semi government, Government Limited, public sector or a private firm.
- Detailed report of the internship along with organizations working nature, different departments its personnel , job undertaken, reference, observation, precaution, the products being manufactured, marketing, raw material and clients etc.
- The report should also include the work done by the student during her internship with special emphasis on skills learnt during the period
- The report should be accompanied with photographs and a certificate from the head of the organization.

## **MASTER OF TEXTILE DESIGN SEMESTER IV**

### **Research Seminar-4**

#### **4S-2**

#### **Internal : 50**

The student will give seminar on current researches related to different areas of Fashion.

The students are expected to research and find suitable topics for the seminar. These will be presented to and approved by the department faculty. Only token guidance will be provided to the students to ensure that it remains primarily each student's own piece of work. The selection of topics must be guided by current trends in theory, research and application of appropriate design and technology. The student will be expected to collect the material, analyze and organize the information and present a critical review of the topic before the faculty for evaluation. The presentations will be followed by discussions. Subsequent to this, the student is expected to submit a final report on the seminar topic along with references.











