

MAHATMA GANDHI UNIVERSITY

PRIYADARSHINI HILLS, KOTTAYAM – 686 560



CHOICE BASED COURSE CREDIT SEMESTER SYSTEM AND GRADING

Scheme & Syllabi

For

**BACHELOR OF FASHION TECHNOLOGY
PROGRAMME**

2016

Acknowledgement:

As per Order No.Ac AIX/2/CBCS Revision (UG/PG)/2016 of the MG University, the expert committee in Bachelor of Fashion Technology was constituted with the task of syllabus revision for 2016 admission onwards. As instructed by the university, a workshop was convened including the expert committee members and teachers handling subjects from different Colleges. The members carefully examined the syllabi of various universities during the workshop and made the necessary changes to the existing curriculum. The participants worked in groups on each specialization under the guidance of the committee members. The views, ideas and suggestions of under graduate students were also taken in to consideration during the curriculum designing and updating processes.

I gratefully acknowledge, at this juncture, the unstained support and guidance extended by the expert committee members and all the teachers who cooperated most willingly for the successful completion of the work.

For the Expert Committee in BFT,

Kottayam
5-5-16

Prof. Manjulin Jacob
(Convener)

MAHATMA GANDHI UNIVERSITY KOTTAYAM

The members of the Expert Committee:

1. Ms.Manjulin Jacob, Head, Dept. of Home Science, Assumption College, Changanasserry (**Convener, Expert Committee**)
2. Smt. Anu Anna Koshy, Head, Dept. of Fashion Technology, Assumption College, Changanasserry.
3. Dr. Susan Paul, Head, Dept. of Fashion Technology, Yeldo Mar Baselios College, Kothamangalam.
4. Smt. Lekha Sreenivas, Head, Dept. of Fashion Design, St. Teresa's College, Ernakulam.
5. Dr.Leena Leon, Asst. Professor, Dept. of Home Science St. Teresa's College, Ernakulam.

The teachers attended the Workshop:

1. Smt. Liz Thankom Mathew, Assistant Professor, Dept. of Fashion Technology, Assumption College.
2. Ms. Anna Mary Scaria, Assistant Professor, Dept. of Fashion Technology, Assumption College.
3. Ms. Anu Mary Augustine, Assistant Professor, Dept. of Fashion Technology, Assumption College.
4. Ms. Neelima R. Thomas, Assistant Professor, Dept. of Fashion Technology, Assumption College.
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MAHATMA GANDHI UNIVERSITY KOTTAYAM
PROGRAMME IN BACHELOR OF FASHION TECHNOLOGY
UNDER
COURSE-CREDIT-SEMESTER SYSTEM & GRADING
(2016 admissions onwards)

AIMS AND OBJECTIVES OF THE PROGRAMME

Aim:

BFT is a six semester full-time programme, which employs the best methods to equip the students with the tools and techniques balanced with theory in the modern fashion/textiles, which has today taken the shape of fashion industry.

India, which has always been a centre for the traditional textile and garment trade, has in the past decade become a centre of innovation in garment and fashion design. As one of the major players in the global apparel market, the need for professionals in the field of fashion is increasing tremendously in India.

This programme equips students to pursue a wide range of career prospects as designers in apparel manufacturing, merchandising, marketing management, quality assurance, production planning & control and product engineering. The course also tunes student's entrepreneurial skills to set up their own manufacturing units and export start-ups.

Objectives:

- To develop students' aesthetic, intellectual and technological abilities through programs that integrates theory and practice.
- To offers students a rigorous and innovative curriculum taught by faculty with outstanding academic and industry experience.
- To promotes students' growth and self-development through internships, guest lectures, industry-sponsored projects, and opportunities for experiential learning.

Eligibility:

- i) A pass in plus two or equivalent examinations recognized by the university, irrespective of the streams/subjects.

Duration of the Course:

The BFT shall be a six semester full time programme extending to three academic years consisting of 90 working days of instruction through each semester.

There shall be two Semesters in an academic year, the 'ODD' semester commences in June and on completion, the 'EVEN' Semester commences after a semester-break of three days with two months' vacation during April and May.

The student may be permitted to complete the Programme, on valid reasons, within a period of 12 continuous semesters from the date of commencement of the first semester of the programme.

Programme:

Bachelor of Fashion Technology programme- is grouped under the Model III- New Generation Courses.

Scheme and Syllabus:

The Bachelor of Fashion Technology programme shall include (a) Common Course, (b) Core Courses (c) Complementary courses,(d) Generic Elective course (e) Project and (f) Field work. There shall be one choice based course; in the sixth semester with a choice of one out of three elective courses.

Courses:

The programme gives ample weightage to English as a communication medium. Students must develop the basic skills in English through **Common courses** (2) in the first and second semester. The **core course** includes **Fashion Design& Technology** (24 courses), two **Complementary courses**. **Textiles** (6 courses) **ii. ApparelMerchandising** (5 Courses), **Generic Elective**(1 out of 3 courses)and **Choice based course**(1out of 3 courses). The programme gives impetus to practical trainingthroughout the semesters. The students get a better understanding on the related topics through the complementary courses of the entire semesters. They are required to do a fieldwork in the form of **Craft Documentation** during **the vacation time after II semester**.

The programme lays greater emphasis on interaction with the relevantindustry in the form of an **Internship (Project) and a Knit Wear module** after the **IV semester**.

COURSE SUMMARY

COMMON COURSE

1. English I
2. English II

CORE COURSE: FASHION DESIGN & TECHNOLOGY

- 1 FT1CRP01 - Introduction to Fashion Art [**P**]
- 2 FT1CRP02 - Sewing Fundamentals [**P**]
- 3 FT1CRP03 - Surface Ornamentation [**P**]
- 4 FT2CRP06 - Elements of Fashion and Advanced Drawing [**P**]
- 5 FT2CRP07 - Garment Construction [**P**]
- 6 FT2CRP08 - Fundamentals of Flat Pattern Making [**P**]
- 7 FT2CRT09 - Elements of Design and its Application [**T**]
- 8 FT3CRP11 - Fashion Stylization and Designing [**P**]
- 9 FT3CRP12 - Advanced Garment Construction [**P**]
- 10 FT3CRP13 - Pattern Manipulation [**P**]
- 11 FT3CRT14 - World Costume [**T**]
- 12 FT3CRP15 - World Art Appreciation [**P**]
- 13 FT3CRP16 - Draping [**P**]
- 14 FT4CRP18 - Advanced Fashion Illustration [**P**]
- 15 FT4CRP19 - Garment Assembling [**P**]
- 16 FT4CRP20 - Advanced Pattern Making and Grading [**P**]
- 17 FT4CRP21 - Computer Graphics [**P**]
- 18 FT5CRP24 - Theatre Costume Designing [**P**]
- 19 FT5CRP25 - Kids Wear and Men's Wear [**P**]
- 20 FT6CRP30 - Final Collection [**P**]***
- 21 FT6CRP31 - Accessory Designing [**P**]
- 22 FT6CRP32 - Portfolio Making [**P**]****
- 23 FT6CRP34 - **Craft Documentation***

COMPLEMENTARY-I: TEXTILES

1. FT1CMT04 - Textile Science [**T**]
2. FT2CMT10 - Traditional Indian Textiles & Costumes [**T**]
3. FT5CMP26 - Textile Design [**P**]
4. FT5CMP27 - Computer Aided Textile Designing (Vision Fashion Studio) [**P**]
5. FT5CMT28 - Textile Processing and Ornamentation [**T**]
6. FT6CMP35 - **Knit Wear Module** [**T**]**

COMPLEMENTARY-II: APPAREL MERCHANDISING

- 1 FT1CMT05 - Introduction to Fashion Business[T]
- 2 FT3CMT17 - Fashion Marketing [T]
- 3 FT4CMT22 - Fundamentals of Apparel Production[T]
- 4 FT4CMT23 - Export Merchandising[T]

PROJECT

1. FT6PRP36 - **Internship [Project]****

GENERIC ELECTIVES

- 1 FT5GET01 - Sustainability in Textiles [T]
- 2 FT5GET02 -Textile and Apparel quality evaluation[T]
- 3 FT5GET03 -Garment Finishing and Clothing Care.[T]

CHOICE BASED COURSES

- 1 FT6CBP01 - Computer Aided Pattern Making And Grading[P]
- 2 FT6CBP02 - Apparel Machinery and Quality Control[T]
- 3 FT6CBP03 - Entrepreneurship Development& Management[T]

BACHELOR OF FASHION TECHNOLOGY PROGRAMME

SCHEME OF COURSES

Model III Fashion Technology Courses and its number are as the following:

Type of programme	Course	Number
Model III	Common	2
	Core + Complementary	35
	Choice based Course	1
	Generic Elective	1

Courses with credits:

The programme of Fashion Technology consist of common courses with 8 credits, core plus complementary courses with 106 credits, choice based courses with 3 credits and generic elective with 3 credits. Since the students are engaged in this significant work which leads to the culmination of the whole programme, the Final Collection carries 6 credits as compared to 4 or 3 credits given to other courses in the entire programme.

Model III

a	Programme Duration	6 Semesters
b	Total Credits required for successful completion of the Programme	120
c	Credits required from Common Course I	8
d	Credits required from Core + Complementary + Vocational Courses including Project	109
e	Generic Elective (GE)	3
f	Minimum attendance required	75%

Type of programme	Course	Credits	Total credits
Model III	Common	08	120
	Core + complementary	106	
	Choice based Course	03	
	Generic Elective	03	

BFT COURSES WITH HOURS PER WEEK AND DISTRIBUTION OF CREDITS

Sl.No	Title of the Course	Hr/week	Credits
1	English-I	5	4
2	FT1CRP01- Introduction to Fashion Art [P]	4	3
3	FT1CRP02 - Sewing Fundamentals [P]	4	3
4	FT1CRP03- Surface Ornamentation [P]	4	3
5	FT1CMT04- Textile Science [T]	4	4
6	FT1CMT05 - Introduction to Fashion Business [T]	4	4
7	English-II	5	4
8	FT2CRP06 - Elements of Fashion and Advanced Drawing [P]	4	3
9	FT2CRP07 - Garment Construction [P]	4	3
10	FT2CRP08 - Fundamentals of Flat Pattern Making [P]	4	3
11	FT2CRT09- Elements of Design and its Application [T]	4	4
12	FT2CMT10 - Traditional Indian Textiles and Costumes [T]	4	4
13	FT3CRP11 - Fashion Stylization and Designing [P]	4	3
14	FT3CRP12 - Advanced Garment Construction [P]	4	3
15	FT3CRP13 - Pattern Manipulation [P]	4	3
16	FT3CRT14 - World Costume [T]	3	3
17	FT3CRP15 - World Art Appreciation [P]	2	1
18	FT3CRP16 - Draping [P]	4	3
19	FT3CMT17 - Fashion Marketing [T]	4	4
20	FT4CRP18 - Advanced Fashion Illustration [P]	4	3
21	FT4CRP19 - Garment Assembling [P]	4	3
22	FT4CRP20 - Advanced Pattern Making and Grading [P]	5	3
23	FT4CRP21 - Computer Graphics [P]	4	3
24	FT4CMT22 - Fundamentals of Apparel Production [T]	4	4
25	FT4CMT23 - Export Merchandising [T]	4	4
26	FT5CRP24 - Theatre Costume Designing [P]	4	3
27	FT5CRP25 - Kids Wear and Men's Wear [P]	5	3
28	FT5CMP26 - Textile Design [P]	4	3
29	FT5CMP27 - Computer Aided Textile Designing [P]	4	3
30	FT5CMT28 - Textile Processing and Ornamentation [T]	5	3
31	Generic Elective	3	3
31	FT6CRP30 - Final Collection [P]****	13	6
32	FT6CRP31- Accessory Designing [P]	4	2
33	FT6CRP32- Portfolio Making [P]*****	4	3
34	Choice Based Core	4	3
35	FT6CRP34- Craft Documentation*	0	3
36	FT6CMP35 - Knit Wear Module**	0	1
37	FT6PRP36 - Internship (Project)***	0	2
Total		150	120

COURSE DETAILS

I. Zero Hour Courses

Zero hour courses are courses done during vacation and which therefore do not take up semester hours. There are three such courses in the programme (**Craft Documentation*** (after II semester) and **Knit wear Module and Internship** [project]** (after IV semester) A separate statement of grades will be issued on these courses along with the VI semester score card.

- **Craft Documentation***

All students shall do a field trip for a week during vacation time after second semester. The students are sent in groups of minimum five to a specific region and are required to study and document the traditional craft of that region. Each group has to derive and construct a collection of minimum 5 garments (one garment per student) inspired from the craft in contemporary styling. The illustrative report, a power point about the craft studied and the collection of garments have to be presented before an internal jury during the III semester. This course will have only internal assessment based on viva-voce examination and the marks awarded will be submitted to the University along with the internal marks of the courses of the VI Semester.

- **Knit Wear Module** and Internship Project*****

After the completion of the IV semester, the students are sent on a 1 week Knit wear module and a 30 days industry training programme (**Project**) for gaining substantial hands on experience in the apparel industry. The internship can be done individually or as a group of maximum 5 students. However the Viva on these is to be conducted individually. The report of the knit wear module and the project report of internship in duplicate should be submitted to the department and are to be produced before the external examiners during the oral examination in the VI semester.

II. Final Collection****

Each student will conceptualize and develop a collection of at least five ensembles in the VI semester, which demonstrate the student's creativity and understanding of the market. The collection can be displayed as a fashion show finale. A viva based on the collection of garments will be conducted at the end of the VI semester by an external examiner.

III. Portfolio Making*****

The students have to document all their best presentable work done through all the semesters and those that portray the student's area of interest. The portfolio can be an effective means of communicating the capacities and capabilities of the students to anyone who seeks their skills and talent. A viva based on their presentation will be conducted at the end of the VI semester by an external examiner.

EXAMINATIONS

The evaluation of each course shall contain two parts such as Internal or In-Semester Assessment (ISA) and External or End-Semester Assessment (ESA). The ratio between internal and external examinations shall be 1:4. There shall be a maximum of 80 marks for external evaluation and a maximum of 20 marks for internal evaluation. Both Internal and External mark are to be mathematically rounded to the nearest integer.

For all papers (theory and practical) grades are given on a 10 point scale based on the total percentage of marks (ISA + ESA) as given below.

Percentage of Marks	Grade	Grade Point
95 and above	S Outstanding	10
85 to below 95	A ⁺ Excellent	9
75 to below 85	A Very Good	8
65 to below 75	B ⁺ Good	7
55 to below 65	B Above Average	6
45 to below 55	C Satisfactory	5
40 to below 45	D Pass	4
Below 40	F Failure	0
	Ab Absent	0

Grades for the different courses, semesters and overall programme are

given based on the corresponding CPA as shown below.

GPA	GRADE
9.5 and Above	S - Outstanding
8.5 to below 9.5	A⁺ - Excellent
7.5 to below 8.5	A - Very Good
6.5 to below 7.5	B⁺ - Good
5.5 to below 6.5	B - Above Average
4.5 to below 5.5	C - Satisfactory
4.0 to below 4.5	D - Pass
Below 4.0	F - Failure

A separate minimum of 30% marks each for internal and external (for both theory and practical) and aggregate minimum of 40% marks are required for a pass for each paper. For a pass in a programme, a separate minimum of Grade **D** is required for all the individual papers. If a candidate secures Grade **F** for any one of the papers offered in a Semester/ Programme only Grade **F** will be awarded for that Semester/ Programme until he/she improves this to Grade **D** or above within the permitted period.

Students who complete the programme with 'D' grade in the "Regulations for Under Graduate Programmes under Choice Based Credit System 2016" will have one betterment chance within 12 months, immediately after the publication of the result of the whole programme.

Students discontinued from previous regulations, CBCSS 2013, can pursue their studies in "Regulations for Under Graduate Programmes under Choice Based Credit System 2016" after obtaining readmission. These students have to complete the programme as per "Regulations for Under Graduate Programmes under Choice Based Credit System 2016".

MARK DISTRIBUTION FOR EXTERNAL AND INTERNAL VALUATION

The external theory examination of all semesters shall be conducted by the University at the end of each semester. Internal evaluation is to be done by continuous assessments on the following components. For all (theory and practical) total marks of external examination is **80** and total marks of internal evaluation is **20**.

Marks distribution for external and internal assessments and the components for internal evaluation with their marks are shown below.

For all theory papers

- a) **Marks of External Examination** : **80**
b) **Marks of Internal Evaluation** : **20**

All the three components of the internal assessment are mandatory

Components of Theory Internal Evaluation	Marks
Attendance	5
Assignment/ Seminar/Viva-Voce	5
Test paper(s) (1 or 2) (1 x 10 =10; 2 x 5 =10)	10
Total	20

For all practical papers (conducted at the end of each semester).

- a) **Marks of External Examination** : **80**
b) **Marks of Internal Evaluation** : **20**

All the three components of the internal assessment are mandatory

Components of Practical Internal Evaluation	Marks
Attendance	5
Test paper	5
Record*	5
Lab Involvement	5
Total	20

*Marks awarded for Record should be related to number of experiments recorded and duly signed by the concerned teacher in charge.

For Internship Project

a) **Marks of External Examination** : **80**

b) **Marks of Internal Evaluation** : **20**

Components of Project-External Evaluation	Marks
Internship Report	50
Viva-Voce	30
Total	80

All the four components of the internal assessment are mandatory

Components Internal Evaluation of project	Marks
Punctuality	5
Experimentation/Data collection	5
Knowledge	5
Report	5
Total	20

Attendance Evaluation

% of Attendance	Marks
90 and above	5
85 - 89	4
80 – 84	3
76-79	2
75	1

(Decimals are to be rounded to the next higher whole number)

Assignments/ Seminar/ Viva:

Assignments are to be done from 1st to 4th Semesters. At least one assignment should be done in each semester for all papers.

A student shall present a seminar in the 5th semester for each paper and appear for Viva-voce in the 6th semester for each paper.

Different components for the evaluation of **Assignment**

Components	Marks
Punctuality	1
Content	2
Conclusion	1
Reference	1
Total	5

Different components for the evaluation of **Seminar**

Components	Marks
Research	1
Content	1
Conclusion	1
Presentation	2
Total	5

Different components for the evaluation of **Viva- Voce**

Components	Marks
Knowledge of Subject Matter	3
Communication Skill	1
General Poise	1
Total	5

Internal Assessment Test Papers

At least one internal test-paper is to be attended in each semester for each paper. The evaluations of all components are to be published and are to be acknowledged by the candidates. All documents of internal assessments are to be kept in the college for two years and shall be made available for verification by the University. The responsibility of evaluating the internal assessment is vested on the teacher(s), who teach the paper.

Craft Documentation*

For craft documentation there is no external evaluation. The break up for internal evaluation of craft documentation is as follows.

Components	Marks
Depth of Research	25
Garment Construction	40
Design Boards & PPT	20
Presentation	15
Total	100

Knitwear Module**

The break up for internal evaluation of knitwear module is as follows.

Components	Marks
Attendance	5
Test/ Seminar	15
Total	20

Internship (Project) ***

The break up for internal evaluation of internship is as follows.

Components	Marks
Attendance	5
Practical Skill	10
Laboratory Involvement	5
Total	20

Final Collection****

The break up for internal evaluation of final collection is as follows.

Component	Marks
Attendance	5
Designing	5
Pattern Making	5
Garment Construction	5
Total	20

Accessory Designing

The break up for internal evaluation of accessory designing is as follows.

Component	Marks
Attendance	5
Designs	5
Products	5
Term Submission	5
Total	20

Portfolio Making

The break up for internal evaluation of portfolio making is as follows.

Component	Marks
Attendance	5
Punctuality	5
Design Assignment	10
Total	20

External Examination

The external theory examination of all semesters shall be conducted by the University at the end of each semester.

Students having a minimum of 75% average attendance for all the courses only can register for the examination. Condonation of shortage of attendance to a maximum of 10 days in a semester subject to a maximum of 2 times during the whole period of the programme may be granted by the University on valid grounds. This condonation shall not be counted for internal assessment. Benefit of attendance may be granted to students attending University/College union/Co-curricular activities by treating them as present for the days of absence, on production of participation/attendance certificates, within one week, from competent authorities and endorsed by the Head of the institution. This is limited to a maximum of 10 days per semester and this benefit shall be considered for internal assessment also. Those students who are not eligible even with condonation of shortage of attendance shall repeat the **semester** along with the next batch after obtaining readmission.

All students are to do a **project in the area of core course**. This project can be done individually or in groups (not more than five students) for all subjects which

may be carried out in or outside the campus. Special sanction shall be obtained from the Vice-Chancellor to those **new generation programmes** and programmes on **performing arts** where students have to take projects which involve larger groups. The projects are to be identified during the II semester of the programme with the help of the supervising teacher. The report of the project in duplicate is to be submitted to the department at the sixth semester and are to be produced before the examiners appointed by the University. External Project evaluation and Viva / Presentation is compulsory for all subjects and will be conducted at the end of the programme.

There will be no supplementary exams. For reappearance/ improvement, the students can appear along with the next batch.

A student who registers his/her name for the external exam for a semester will be eligible for promotion to the next semester.

A student who has completed the entire curriculum requirement, but could not register for the Semester examination can register notionally, for getting eligibility for promotion to the next semester. A candidate who has not secured minimum marks/credits in internal examinations can re-do the same registering along with the University examination for the same semester, subsequently.

Pattern of Questions

Questions shall be set to assess knowledge acquired, standard application of knowledge, application of knowledge in new situations, critical evaluation of knowledge and the ability to synthesize knowledge. The question setter shall ensure that questions covering all skills are set. He or she shall also submit a detailed scheme of evaluation along with the question paper.

A question paper shall be a judicious mix of objective type, short answer type, short essay type/problem solving type and long essay type questions.

Pattern of questions for external examination for theory paper

Pattern	Marks	Choice of questions	Total marks
Short Answer	2	9/12	18
Paragraph answer	4	6/9	24
Problem/ Short Essay	6	3/5	18
Long Essay	10	2/4	20
		20/30	80

MARK CUM GRADE CARD

The University under its seal shall issue to the students a MARK CUM GRADE CARD on completion of each semester, which shall contain the following information:

- a) Name of the University.
- b) Name of the College.
- c) Title & Model of the Undergraduate Programme.
- d) Name of the Semester.
- e) Name and Register Number of the student.
- f) Date of publication of result.
- g) Code, Title, Credits and Maximum Marks (Internal, External & Total) of each paper opted in the semester.
- h) Internal, External and Total Marks awarded, Grade, Grade point and Credit point in each paper opted in the semester.
- i) Institutional average (IA) of the marks of all papers and University Average (UA) of the marks of all papers.
- j) The total credits, total marks (Maximum & Awarded) and total credit points in the semester.
- k) Semester Grade Point Average (SGPA) and corresponding Grade.
- l) Cumulative Grade Point Average (CGPA), GPA corresponding to Common Courses I and II, Core Course, Complementary Courses, Vocational Courses and Generic Elective paper.
- m) The final Mark cum Grade Card issued at the end of the final semester shall contain the details of all papers taken during the final semester examination and shall include the final Grade/Marks (SGPA) scored by

the candidate from 1st to 5th semesters, and the overall Grade/Marks for the total programme.

Knit Wear Module **

The break up for external evaluation of Knit wear module is as follows.

Component	Marks
Record	40
Viva	40
Total	80

Internship (Project) ***

The break up for external evaluation of internship is as follows.

Component	Marks
Project Report	40
Viva	40
Total	80

Final Collection***

The break up for external evaluation of final collection is as follows.

Component	Marks
Theme	10
Interpretation	20
Choice of fabric	10
Garment Construction	30
Presentation	10
Total	80

Portfolio Making****

The break up for external evaluation of portfolio making is as follows.

Component	Marks
Layout and Presentation	20
Design Assignments	40
Creativity	20
Total	80

Evaluation of practical examinations:

The examinations for the practical core courses and complementary courses shall be conducted at the end of each semester by the external and internal examiners appointed by the university.

The Board of examiners constituted by the university shall have the freedom for formulating the scheme of evaluation of the concerned practical examination.

Student strength for Practical

There shall be at least one teacher to supervise a batch of not more than 15 students in each laboratory session

Final Grade Card:

The final Grade Card issued at the end of the final semester shall contain the CGPA of the Core courses and allied courses of the entire Programme. The CGPA shall contain the awarded GRADE LETTER and the corresponding GRADE POINT in two decimal places.

INFRASTRUCTURE REQUIREMENT FOR THE PROGRAMME

1. The Fashion Art Room with one drawing table per student.
2. Theory Class rooms with Audio Visual aids like OHP/LCD/TV/DVD etc.
3. The Garment Construction Lab with
 - One Industrial single needle lock stitch machine per student.
 - Vacuum Suction ironing table and steam iron.
 - Industrial Five- Thread Over lock M/c.
 - Button Holing M/c.
4. The Pattern Making Lab with

- One Dress form per student with size UK-12.
 - One Leg- form, men's form-2, kids form-2, dress form UK10-1& dress form Uk14-1
 - One Cork Topped Pattern making table per student.
5. Well- equipped Library & resource center with regular subscription of Indian & International fashion magazines.
 6. Advanced Textile Designing software.
 7. Advanced Pattern Making and Grading software.
 8. Light Tables.
 9. Dyeing/Printing Lab.

Semester wise distribution of Credits of Different Courses, Contact Hours, Exam Duration, Internal and External Assessment Ratio of Bachelor of Fashion Technology Programme

Semester	Title of the Course	Number of hours per week	Number of Credits	Total Credits	Hours/semester	UTY Exam duration	Marks	
							IA	EA
I	English-I	5	4	4	90	3	20	80
	FT1CRP01-Introduction to Fashion Art [P]	4	3	3	72	3	20	80
	FT1CRP02 -Sewing Fundamentals [P]	4	3	3	72	3	20	80
	FT1CRP03- Surface Ornamentation [P]	4	3	3	72	3	20	80
	FT1CMT04-Textile Science [T]	4	4	4	72	3	20	80
	FT1CMT05-Introduction to Fashion Business [T]	4	4	4	72	3	20	80
	Total	25		21				

Semester	Title of the Course	Number of hours per week	Number of Credits	Total Credits	Hours/semester	UTY Exam duration	Marks	
							IA	EA
II	English-II	5	4	4	90	3	20	80
	FT2CRP06-Elements of Fashion and Advanced Drawing [P]	4	3	3	72	4	20	80
	FT2CRP07 –Garment Construction [P]	4	3	3	72	3	20	80
	FT2CRP08-Fundamentals of Flat Pattern making [P]	4	3	3	72	3	20	80
	FT2CRT09-Elements of Design and its Application [T]	4	4	4	72	3	20	80
	FT2CMT10-Traditional Indian Textiles and Costumes[T]	4	4	4	72	3	20	80
	Total	25		21				

Semester	Title of the Course	Number of hours per week	Number of Credits	Total Credits	Hours/semester	UTY Exam duration	Marks	
							IA	EA
III	FT3CRP11-Fashion Stylization and Designing[P]	4	3	3	72	3	20	80
	FT3CRP12-Advanced Garment Construction [P]	4	3	3	72	4	20	80
	FT3CRP13-Pattern Manipulation[P]	4	3	3	72	4	20	80
	FT3CRT14- World Costume [T]	3	3	3	54	3	20	80
	FT3CRP15-World Art Appreciation [P]	2	1	1	36	4	20	80
	FT3CRP16–Draping [P]	4	3	3	72	3	20	80
	FT3CMP17-Fashion Marketing [T]	4	4	4	72	3	20	80
	Total	25		20				

Semester	Title of the Course	Number of hours per week	Number of Credits	Total Credits	Hours/semester	UTY Exam duration	Marks	
							IA	EA
IV	FT4CRP18–Advanced Fashion Illustration [P]	4	3	3	72	3	20	80
	FT4CRP19-Garment Assembling [P]	4	3	3	72	5	20	80
	FT4CRP20 - Advanced Pattern Making and Grading [P]	5	3	3	90	4	20	80
	FT4CRP21-Computer Graphics[P]	4	3	3	72	2	20	80
	FT4CMT22-Fundamentals of Apparel Production[T]	4	4	4	72	3	20	80
	FT4CMT23-Export Merchandising [T]	4	4	4	72	3	20	80
	Total	25		20			20	80

Semester	Title of the Course	Number of hours per week	Number of Credits	Total Credits	Hours/semester	UTY Exam duration	Marks	
							IA	EA
V	FT5CRP24- Theatre Costume Designing [P]	4	3	3	72	3	20	80
	FT5CRP25- Kids Wear and Men's Wear [P]	5	3	3	90	5	20	80
	FT5CMP26 - Textile Design [P]	4	3	3	72	4	20	80
	FT5CMP27-Computer Aided Textile Designing[P]	4	3	3	72	2	20	80
	FT5CMT28-Textile Processing and Ornamentation[T]	5	3	3	90	3	20	80
	Generic Elective	3	3	3	72	3	20	80
	Total	25		18				

Semester	Title of the Course	Number of hours per week	Number of Credits	Total Credits	Hours/semester	UTY Exam duration	Marks	
							IA	EA
VI	FT6CRP30- Final Collection [P]	13	6	6	234	Viva - Voce	20	80
	FT6CRP31-Accessory Designing[P]	4	2	2	72	Viva - Voce	20	80
	FT6CRP32-Portfolio Making [P]	4	3	3	72	Viva - Voce	20	80
	Choice Based Course	4	3	3	72	2	20	80
	Total	25		14				

'0' Hour Courses	FT6CRP34-Craft Documentation*	0	3	3	One Week During Vacation after II Semester	Viva-Voce	100	-
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	FT6CMP35- Knit Wear Module **	0	1	1	One Week During Vacation after IV Semester	Viva-Voce	20	80
	FT6PRP36 - Internship(Project)***	0	2	2	40 days During Vacation after IV Semester	Viva-Voce	20	80

**SEMESTER WISE
SYLLABI**

SEMESTER I
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT1CRP01- INTRODUCTION TO FASHION ART [P]

Credits-3 (Practical 4)

No. of Contact hours-72

Objectives

To introduce students to

- Basic sketching techniques.
- Aspects of human anatomy & importance of fashion illustration.
- Drawing a fashion figure or a croqui with proportion & body movements.
Various poses required for fashion illustration.
- Various mediums for sketching and rendering life forms.

Contents

Module 1

10 hrs

- Different types of Lines-vertical, horizontal, diagonal, wavy, zigzag, dotted, dashed, spiral etc.
- Free hand drawing techniques & related exercises.
- Free hand practice of brush & pencil.

Module II

14 hrs

- Two & three dimensional forms, its composition, perspective & Object shading.
- Still life drawings
- Introduction to poster paints, watercolors, colour pencils, dry chalks & rotoring ink or Indian ink.

Module III

12 hrs

- Basic 8 head croqui.
- Basic 10 head croqui.
- $\frac{3}{4}$ pose, side pose & back poses.

Module IV

18 hrs

- Face block – Front, Side and 3/4 view
- Fashion face-eyes, ears, nose, mouth & head.

Module V

18 hrs

- Croqui analysis-analyzing figures from fashion magazines & life.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- John H Vanderpoel, (1958), *Human Figure*, New York, Dover Publications Inc.
- George Brant Bridgeman,(1920), *Book of Hundred Hands*, New York, Dover Publications
- George Brant Bridgeman, (1972), *Human Machine-The Anatomical Structure & Mechanism of the Human Body*, New York, Dover Publications.
- Bina Abling, (2001), *Fashion Rendering with Color*, United States, Prentice Hall.
- Julian Seaman, (1996), *Fashion Illustration Basic Techniques*, London Batsford.
- Colin Barnes, (1988), *Fashion Illustration*, New York, Little Brown and Co.
- Erte, (1982), *Erte's Fashion Designs: 218 Illustrations from 'Harper's Bazar' 1918-1932*, New York, Dover Publications Inc.
- Julian Seaman, (2003), *Foundation in Fashion Design and Illustration*, London, Batsford.
- Janet Boyes, (1998) *Essential Fashion Design*, London, Batsford.

SEMESTER I
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT1CRP02- SEWING FUNDAMENTALS [P]

Credits-3 (Practical 4)

No. of Contact hours-72)

Objectives:

- To introduce students to various Industrial Machineries.
- To acquire basic skills of operating industrial sewing machines. To understand basic sewing techniques.

Contents

Module I

23 hrs

- Introduction to Industrial Sewing machine – machine parts, terminology, safety rules, care and maintenance.
- Survey on different sewing machines.
- Industrial Machine practice – stitching on executive bond paper – parallel lines, broken lines, cornered lines and waves.
- Pressing Equipment – application, machine parts and terminology, safety rules, care and maintenance.
- Over lock Machine –its application.

Module II

20 hrs

- Study of different types of needles and threads. (Can be given as self-study assignment to students).
- Threading the machine, setting the needle, adjusting stitch length regulator, thread tension, adjusting knee lift, presser foot and functions of all machine parts.
- Cutting muslin rectangles (10” X 12” size), Stitching practice on muslin - Straight lines, broken lines, cornered lines and waves.

Module III**5 hrs**

- Basic hand stitches and their classifications :- (i) Temporary stitches: basting-even, uneven and diagonal. (ii) Permanent stitches: hemming, slip stitching, blanket, and fagoting.

Module IV**11 hrs**

- Different types of seams: super imposed, lapped, bound, self-enclosed-French seam, mock French, flat felled, self-bound seam and decorative seams.
- Seam finishes- pinked seam, hand overcast, over locked, bias bound, and edge stitch.

Module V**5 hrs**

- Hem Finishes: Hand hemming- visible and invisible hemming, decorative hem-piped, faced hem and ruffled hem.

Module VI**8 hrs**

- Introducing fullness: - Tucks -blind, spaced and pin tucks, Pleats - knife, box, inverted, pleat with separate underlay, gathering, shirring, Ruffles -straight and circular ruffle, and godets.

The Record should be submitted at the time of External Evaluation.

Suggested readings:

- Reader's Digest, (1997), *Complete Guide to Sewing and Knitting*, New York, Reader's Digest Association.
- Claire Shaeffer, (1997), *Sewing for the Apparel Industry*, United States, Prentice Hall.
- John Mcloughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.
- NurieRelis and Gayle Strauss, (1996), *Sewing for Fashion Design*, United States, Prentice Hall Publications

SEMESTER I
CORE COURSE - FASHION DESIGN AND TECHNOLOGY
FT1CRP03 - SURFACE ORNAMENTATION [P]

Credits-3(Practical 4)

No. of Contact hours-72

Objectives

- To teach the basic hand embroidery techniques, surface designing and other ornamentation techniques.
- To introduce them to various traditional embroidery techniques of India.

Contents

Module I

4 hrs

- Embroidery-Embroidery tools and techniques, embroidery threads and their classification, selection of threads, needle and cloth, tracing techniques, ironing and finishing of embroidered articles.

Module II

25 hrs

- Basic Hand Embroidery - Basic and four variations of running stitch, back stitch, stem stitch, chain stitch, lazy daisy stitch, buttonhole stitch, feather stitch, herringbone stitch, knot stitch, satin stitch and cross stitch.

Module III

23 hrs

- Traditional Embroidery and its origin, application & colours - Kantha, Chikan, Kasuti, Zardosi (Four variations), Kutch and Mirror work (Two variations), Applique and Reverse Applique.

Module IV

20 hrs

- Quilting (two variations), Smocking (Chinese and Honey comb), Fagotting, Ribbon Embroidery, Fabric Painting (Hand, Stencil-dabbing and spraying).

Term Submission:

- Embroidery folder which contains work of entire semester.

- Submission of one or two articles (Yoke, Dupatta, Table Cloth, Bed Cover, Pillow cover or Cushion cover, Handkerchief, Kurta, Short top or Saree) using embroidery or other surface embellishment technique.

The Record and the article should be submitted at the time of External Evaluation.

Suggested readings:

- Richard M Proctor and Jennifer F Lew, (1995), *Surface Design for Fabric*, Washington, University of Washington Press.
- Lanto Synge, (2010), *Art of Embroidery: History of Style and Technique*, Woodbridge, UK, Antique Collectors Club.
- Helen M, David & Charles, (1998), *The Timeless Art of Embroidery*, New York, Sterling Pub Co Inc.
- Readers Digest,(1993), *Complete guide to Sewing*, New York, Reader's Digest Association.
- Barbara Snook, (1972), *Creative Art of Embroidery*, London, Little Hampton Book Services Ltd Publications.
- Shailaja D. Naik, (1997),*Traditional Embroideries of India*, Mumbai, APH Publishings.

SEMESTER I
COMPLEMENTARY COURSE I - TEXTILES
FT1CMT04- TEXTILE SCIENCE [T]

Credits-4(Theory 4)

No. of Contact hours-72

Objectives

- To gain knowledge about textile fibers and their uses.
- To develop an understanding about various kinds of fabrics, their structure and the utility.
- To impart knowledge about Textile dyeing and printing.
- To develop skill in understanding textiles available in the market.

Contents

Module I **20hrs**

- Introduction to Textiles and classification of fibres according to source – Natural and Man-made.
- Processing and properties of natural fibres: Cotton, Wool, Silk and Flax.
- Manufacturing process and properties of man-made fibres: Rayon, acetate, nylon, polyester and acrylic
- Identification of textile fibres: Burning, Microscopic and Solubility tests

Module II **18 hrs**

- Process of yarn formation: Hand spinning and Mechanical Spinning (Ring spinning and open end spinning).
- Yarn classification, characteristics, properties and uses – Blends & Mixtures (fabric) and Simple & Novelty yarns.

Module III **20 hrs**
Method of fabric construction:

- **Weaving** - Basic weaves and their variations - Plain, Twill and Satin. Fancy weaves- Pile, Dobby, Jacquard, Extra warp and weft figure, Leno, Crepe and Double cloth.

Module IV **14hrs**

- **Knitting** – Terminologies, types of knits, basic stitches and types of needles.
- Braiding, Lace, Felts and Non-wovens.

Related Experience

- Study of fabric count using a pick glass.
- Identification of fibres- cotton, wool, silk, rayon, polyester, acrylic and blends through visual, microscopic burning and chemical.
- Swatch folder- Collection of samples for fibres, yarns, weaves and finishes.

Suggested Readings:

- Bernard P. Corbman, (1975), *Textiles Fiber To Fabric*, New York, McGraw-Hill Publications.
- Harriet Hargrave, (1997), *From Fiber To Fabrics*, United States, C & T Publishing.
- Judith Jerde, (1992), *Encyclopedia of Textiles*, New York, Facts on File Inc.
- Hollen N., (1990), *Textiles, USA*, Macmillan publishing company.

SEMESTER- 1

COMPLEMENTARY COURSE II-APPAREL MERCHANDISING

FT1CMT05 - INTRODUCTION TO FASHION BUSINESS [T]

Credits-4 (Theory 4)

No. of Contact hours-72

Objectives

- To introduce students to growth of fashion industry.
- To familiarize students with all major international and Indian Fashion designers and their styles of work.
- To create awareness amongst students about the domestic and export garment industries and the various career opportunities and diversification possibilities in the field of fashion.

Contents

Module I 12 hrs

- Purpose of clothing-protection, communication and decoration.
- Fashion Terminologies-accessories, advertising, altamoda, apparel, balance, boutique, classic, collection, CAD, CAM, CIM, consumer, couture, custom made, designer, fad, fashion, fashion retailing, grading, market, silhouette and texture.
- Fashion Cycles.
- Adoption Theories of fashion.

Module II 22 hrs

- Growth of Couture- Evolution of the international fashion industry, designers of the 20th century, factors leading to mass production of clothing and development of Ready to wear industry.
- Factors affecting fashion – effects of social, cultural, political, artistic, economic, global and technological changes on fashion. Industrial revolution, growth of middle class, growth of leisure activities, women at work.
- World War I, great depression, Hollywood influence on fashion, World War II, ethnic fashion, physical fitness, globalization, recession etc.

- Indian & international trendsetting fashion designers (To be covered as presentations by individual students).

Module III

18 hrs

- Fashion Forecasting.
- Seasons of Fashion.
- Fashion services and resources.
- Design Sources.
- International Fashion centers.
- Fashion Markets.

Module IV

10 hrs

- Fashion Advertising - Kinds & Medias of Advertising.
- Special events-fashion shows, exhibitions, trade fairs.
- World Trade Organizations
- Eco Standards
- Consumer buying behavior.

Module V

10 hrs

- Clothing categories in Men's wear, Women's wear & Kids wear.
- Fashion Accessories-footwear, handbags, belts, gloves, hats, scarves, hosiery, jewelry, watches (To be covered as presentations by student groups).

Suggested Readings

- Gini Stephens Frings, (2007), *Fashion From Concept To Consumer*, United States, Prentice Hall Publishers.
- Kitty G. Dickerson, (2003), *Inside the Fashion Business*, Singapore, Pearson Education.
- Helen Gowork, (2007), *Fashion Buying*, United States, Wiley – Blackwel Publishers.
- MeherCastelino, (1994),*Fashion Kaleidoscope*, India, BPI India Pvt. Ltd.
- Harold Carr and John Pomerot, (1992), *Fashion Design and Product Development*, United States, Blackwell Science Inc.
- Suzanne Marshall, Hazel Jackson and M. Sue Stanley, (2011), *Individuality in Clothing Selection and Personal Appearance*, Unite

SEMESTER II

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT2CRP06 -ELEMENTS OF FASHION AND ADVANCED DRAWING [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To strengthen the croqui & drawing skills.
- To familiarize students with various fashion poses required for fashion illustration.
- Give inputs in clothing details & terminology as a universal vocabulary for communication about garments.

Contents

Module I	25 hrs
<ul style="list-style-type: none">• Different fashion poses.• Fashion faces	
Module II	15 hrs
<ul style="list-style-type: none">• Various Hair styles & foot wear.	
Module III	10 hrs
<ul style="list-style-type: none">• Principles of draping garments on croquis	
Module IV	12 hrs
<ul style="list-style-type: none">• Lingerie drawings on fashion figures.	
Module V	10 hrs
<ul style="list-style-type: none">• Introduction to fashion details-various silhouettes.• Construction Details: Necklines, collars, sleeves, waists& hemlines, tops, skirts, pants, coats, dresses and lingerie/lounge wears.	

The Record should be submitted at the time of External Evaluation.

Suggested Readings

- ElizabettaDrudi&TizianaPaci, (2010), *Figure Drawing For Fashion Design*, Netherlands, Pepin Press.
- Kathryn McKelvey, (2006), *Fashion Source Book*, United States, Wiley – Blackwel Publishers.
- Patrick John Ireland, (2003), *Encyclopedia of fashion details*, London, Batsford Publishers.
- Alferd.D. D’ortennzio, (1997), *Fashion Sketching*, New York, Delmer Publishers.
- Bina Abling, (2008), *Fashion Sketch Book, 4th edition*, New York, Fairchild Publications Inc.

SEMESTER II

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT2CRP07- GARMENT CONSTRUCTION [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objective

- To teach students the construction methods of different neck lines, sleeves, collars, cuffs and finishes.

Contents

Module I	16 hrs
<ul style="list-style-type: none">• Neck lines:-round and jewel, scoop, square and glass, ‘V’ shaped, straight and curved, scalloped , sweet heart, key hole, boat neck and asymmetrical.• Neck line finishes:-shaped facing, corded or piped neck line, bias facing-single layer binding, double layer binding, banded neckline and placket bands.	
Module II	18 hrs
<ul style="list-style-type: none">• Plackets: Inseam placket, Hemmed placket, Continuous placket, Bound placket, Face placket, Kurtha placket, Zipper placket	
Module III	18 hrs
<ul style="list-style-type: none">• Sleeves:-sleeveless - with facing, set-in-sleeve, half sleeve, puff sleeve, flared sleeve, full sleeve, petal sleeve, leg-o-mutton sleeve, bishop sleeve, cap sleeve raglan sleeve and kimono sleeve.	
Module IV	10 hrs
<ul style="list-style-type: none">• Sleeve finishes:-self hem, faced hem, double binding and casing.	
Module V	10 hrs
<ul style="list-style-type: none">• Cuff application;-basic shirt cuff, French cuff and continuous cuff.	

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Reader's Digest, (1997), *Complete Guide to Sewing and Knitting*, New York, Reader's Digest Association.
- Claire Shaeffer, (1997), *Sewing for the Apparel Industry*, United States, Prentice Hall.
- John Mcloughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.
- NurieRelis and Gayle Strauss, (1996), *Sewing for Fashion Design*, United States, Prentice Hall Publications.

SEMESTER II

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT2CRP08- FUNDAMENTALS OF FLAT PATTERN MAKING [P]

Credits-3 (Practical- 4)

No. of contact hours-72

Objectives

- To familiarize students with tools and methodologies of pattern making.
- To understand the language of pattern making and develop the ability to create designs through the flat pattern method.
- To enable the students to draft basic bodice block, skirt block and sleeve block.

Contents

Module I

12 hrs

- Introduction to pattern making
- Methods of Pattern Making
- Principles of Pattern Making
- Tools, Workroom terms and Definitions.
- How to take body measurements.
- Dart – Definition, Rules of Dart

Module II

25 hrs

- Draft basic bodice blocks- front and back.
- Charting of Dart Location.
- Dart Manipulation - Single and Double dart series.

Module III

25 hrs

- Draft basic sleeve block
- Fitting sleeve into the armhole.
- Variations of the basic sleeve- set-in-sleeve, cap sleeve, puff sleeves & variations, circular sleeve, petal sleeve, lantern sleeve, leg-o-mutton sleeve, cowl sleeve, shirt sleeve, bishop sleeve, kimono sleeve, raglan sleeve and sleeve cuffs.

Module IV

10 hrs

- Draft basic skirt block – A-Line front and back.

The Record should be submitted at the time of External Evaluation.

Suggested Readings

- Helen Joseph & Armstrong, (1995), *Pattern Making For Fashion Design*, United States, Prentice Hall Publications.
- Vittorina Rolfo, Ernestine Kopp, Lee Gross & Beatrice Zelin, (1991), *Designing Apparel Through the Flat Pattern*, New York, Fairchild Books.
- Vittorina Rolfo, Ernestine Kopp, Lee Gross & Beatrice Zelin, (1975), *How to Draft Basic Patterns*, New York, Fairchild Books.
- John McLoughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.

SEMESTER II

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT2CRT09- ELEMENTS OF DESIGN AND ITS APPLICATION [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objectives

- To familiarize students with the design elements and principles and its application in fashion designing.
- To induce an organized methodology in developing a successful collection / line of garments.

Contents

Module I 15 hrs

- Types of Design-structural and decorative.
- Design elements-form, shape, space, line, color and texture.
- Principles of design-balance-formal, informal and radial, proportion, emphasis, rhythm and harmony.

Module II 20 hrs

- Silhouettes – Definition and Types.
- Texture – Components, Selection and Combination

Module III 27 hrs

- Colour theory- Prang color system & Munsell.
- Colour wheel- Primary, Secondary and Tertiary.
- Colour Dimensions-Hue, Value and Chroma.
- Colour harmony- Related & Contrasting Colour harmonies & its sub divisions.
- Application of Colour in clothing.
- Seasonal colours.

Module IV 10 hrs

- Trimmings & Decorations.

Related Experiences

A creative Non textile Exhibition should be conducted in which the students are supposed to make a garment using the textures developed from the non-textile materials.(E.g. wire, paper, clay ,metal, glass etc.)

OR

A project based on exploration of textures & design development.

Suggested Readings:

- Suzanne Marshall, Hazel Jackson and M. Sue Stanley, (2011), *Individuality in Clothing Selection and Personal Appearance*, United States, Prentice Hall Publishers.
- Sumathy. G, (2002), *Elements Of Fashion And Apparel Design*, New Delhi, Oscar Publications.
- Harriet Tilden & McJimsey, (1973), *Art and Fashion in Clothing Selection*, New York, Lova State Press.

SEMESTER II

COMPLEMENTARY COURSE I –TEXTILES

FT2CMT10- TRADITIONAL INDIAN TEXTILES AND COSTUMES [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objectives

- To study the different traditional textiles and their origin.
- To study costumes through the ages in relation to art, fabric, footwear, head dress & other accessories during different periods.

Traditional Indian Textiles

Module I

12 hrs

- History of Indian textile production.

Module II

15 hrs

- Textiles of Western region: Brocade weave, embroidery styles, Mochi, Kutch work, appliqué, bead work, block Printing, Screen Printing, Tie & Die-bandini and Laharia, Patola, Himrus, Amrus, Pithani, Pitabar.
- Textiles of Southern region: Pochampalli, Kalamkari, Banjara Embroidery Kancheepuram silk, ErezhaThorthu, BalaramapuramSarees, ChendamangalamSarees, KuthampullySarees, Kannur Handloom Home Furnishings , Kasuti, Mysore silk and KunbiSarees.

Module III

15 hrs

- Textiles of Eastern region- Dacca sarees and its types, Balucharbuttedar, and Kantha and its types.
- Textiles of Northern region- Brocades of Varanasi & its types, phulkari& its types, Kashmiri Embroidery-carpet & shawl weaving, Kullu Shawls, ChambaRoomals, Chickan work & its types and Block Printing of Uttar Pradesh.

History of Indian Costumes

Module IV

15 hrs

- Costumes and accessories during-Indus valley, Vedic period, Mauryan&Sunga Period and Satavahana period

Module-V

15 hrs

- Costumes and accessories during-Kushan period, Guptha period, Mugal Period and British Period.

Suggested Readings:

- Buhler, Alfred, Eberhard Fischer & Marie – Louise Nabholz, (1980), *Historic Textiles of India . Vol.4: Indian Tie-Dyed Fabrics*, Ahmedabad, Calico Museum of Textiles.
- John Gillow&Nicholas Barnard, (1993), *Traditional Indian Textiles*, United kingdom, Thames & Hudson.
- SachidhanandSahay, (1998), *Indian Costume, Coiffure And Ornament*, New Delhi , MunshiramManoharlal Publishers.
- R. P. Mohapatra, (2003), *Fashion Styles of Ancient India*, New Delhi, B. R. Publishing Corporation.
- Pushpa Rani Mathur, (1994), *Costumes Of The Rulers Of Mewar*, New Delhi, Abhinav Publications.
- K P Sharma & S M Sethi, (1998), *Costumes and Ornaments of Chamba*, New Delhi, Indus Publishing Co.
- G. S.Ghurye, (1951), *Indian Costume*, Bombay, ThePopular Book Depot.
- O. C.Handa , (1998), *Textiles, Costumes And Ornaments Of The Western Himalaya*, New Delhi, Indus Publishing Co.

SEMESTER III

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT3CRP11-FASHION STYLIZATION AND DESIGNING [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- Refining the student's illustration skills with special emphasis on developing a signature style of sketching by providing appropriate inputs through exposure to various artists' styles of illustration.
- Introduction to various medium for stylization of croquis.
- To train students in color rendering in different media keeping fabric qualities.

Contents

Module I 18 hrs

- Stylization of croquis using different kinds of paper for different assignments

Module II 18 hrs

- Stylization of croquis using different kinds of media for different assignments.

(Each student is encouraged to explore his/her own individual style of illustration)

Module III 18 hrs

- Introducing color rendering for the following: Solids, Prints, Checks, Stripes, Florals

Module IV 18 hrs

- Color rendering for the following fabrics: Denim, Fabric with sheen-Satin, Napped fabrics-Velvet, Leather, Suede, Chiffon and Lace.

Suggested Readings:

- Colin Barnes, (1988), *The Complete Guide to Fashion Illustration*, United States, Northlight Books.
- Linda Tain, (1998), *Portfolio Presentation for Fashion Designers*, New York, Fairchild Publications.
- Julian Seaman, (2001), *Foundation in Fashion Design and Illustration*, London, Batsford Ltd.
- Bina Abling, (2001), *Fashion Rendering with Color*, United States, Prentice Hall Publications.

SEMESTER III

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT3CRP12-ADVANCED GARMENT CONSTRUCTION [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To teach students various techniques and application of plackets, fasteners, zippers and pockets
- To enable students to learn the aspects of garment construction and to know the concept of garment making.

Contents

Module I 10 hrs

- **Collars:-**How to assemble a collar, Types of collars-flat collar, rolled collar, stand collar, tie collar, turtle neck collar, shirt collar, peter-pan collar, one piece convertible collar and shawl collar.

Module II 12 hrs

- **Fasteners:** Hooks and eyes-hand & metal, Press studs, Touch and close, Positioning buttons and button holes – Handmade & Bound button hole.

Module III 12 hrs

- **Fasteners:** Fly zipper, Centre standard zipper, Lapped zipper, Concealed zipper, .Open ended zipper.

Module IV 22 hrs

- Pocket making and application of outside pockets: Patch pocket -Unlined patch pocket, Curved patch pocket, Lined patch pocket, Patch pocket with separate flap, Patch pocket with self-flap, Patch pocket with pleats, pouched patch pocket.

Module V 16 hrs

- Pocket making and application of inside pockets: Inseam pocket-Hip pocket, Slashed pockets, Welt pocket, Welt pocket with separate flap, Welt pocket with flap, Bound pocket, Bound pocket with flap.

Record submission: Submit the above articles for external exam as a record.

Suggested Readings:

- Reader's Digest, (1997), *Complete Guide to Sewing and Knitting*, New York, Reader's Digest Association.
- Claire Shaeffer, (1997), *Sewing for the Apparel Industry*, United States, Prentice Hall.
- John McLoughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.
- Claire Shaeffer, (2001), *High Fashion Sewing Secrets*, Rodale Books

SEMESTER III

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT3CRP13 -PATTERN MANIPULATION [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objective

- To teach the students more advanced methods of pattern making.

Contents

Module I

15 hrs

Darts

- Dart into – pleats, flares, gathers, tuck.
- Darts into style lines –classic and armhole princess line.
- Dart into fullness – blouson, yokes, pleat, tucks.

Module II

18 hrs

Skirts

- Skirt variations :- A- line flared skirt, Basic flared skirt, One dart skirt, added flare skirt, Flared skirt with gathered waist line, Gored skirt- 4 gore and 6 gore, Pegged skirt with pleats, Skirt with yoke. Circular skirts: Full circle skirt, Warp skirt with side seam.

Module III

16 hrs

Pleats

- Types of pleats – knife pleats, box pleats, inverted pleats.
- Types of Godets – Basic Godet, Circular Godet

Module IV

10 hrs

Collar

- Collar – Basic shirt collar. Flat collars: Peter pan, Sailor, Mandarin collar/ Chinese. Roll collar: Turtle neck.

Module V

13 hrs

Pants

- Pants foundation: Culotte, Trouser. Design variations – pleated trouser, baggy pant, pant with flares, shorts- Bermudas.

Prepare a pattern for end semester garment.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Helen Joseph & Armstrong, (1995), *Pattern Making For Fashion Design*, United States, Prentice Hall Publications.
- Vittorina Rolfo, Ernestine Kopp, Lee Gross & Beatrice Zelin, (1991), *Designing Apparel Through the Flat Pattern*, New York, Fairchild Books.
- Vittorina Rolfo, Ernestine Kopp, Lee Gross & Beatrice Zelin, (1975), *How to Draft Basic Patterns*, New York, Fairchild Books.
- John Mcloughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.

SEMESTER III

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT3CRT14 – WORLD COSTUME [T]

Credits-3 (Theory- 3)

No. of contact hours-54

Objectives

- To help the students to trace the evolution of clothing, right from the obscure beginnings of the Paleolithic Age right to the modern age, with cross references in clothing between diverse civilizations in different centuries.
- To teach the students the creative use of research and inspirational library sources to co-ordinate the artwork in the development of current designs based on historic period.

Contents

Module I

10 hrs

- Beginning of costumes- Body decoration, Body ornamentation, Dress for Protection, Invention of the needle.
- Costumes and Accessories of Primitive and Aboriginal People,

Module II

10 hrs

- Costumes and Accessories of Mesopotamian, Sumerian, Assyrian, Babylonian Periods
- Ancient Egyptian Costumes and Accessories.

Module III

10 hrs

- Ancient Greek Costumes and Accessories.
- Ancient Roman Costumes and Accessories.

Module IV

10 hrs

- Costumes and Accessories of Byzantium
- Costumes of Qin & Han and Tang Dynasties
- Traditional Garments of China - Pien-Fu/ Chang-Pao/ Shen-i/Qi-Robe.
- Traditional Garments and Accessories of Japan.

Module V

14 hrs

- Medieval Costumes – Romanesque and Gothic.
- Renaissance - French Costumes - Farthingale.
- Twentieth Century (1950 to till present)

Project:

Students do an individual research study on any designer and a group study on each decade starting from 1930. This is presented on the last class. The objective is to familiarize the students with fashion in the 20th century with particular focus on designers and design houses, which influence global fashion today.

Suggested Readings:

- Doreen Yarwood, (1993), *Fashion In The Western World*, London, Batsford Ltd.
- Carolyn G. Bradley, (2001), *Western World Costume-An outline history*, New York, Dover Publications.
- Tom Tierney, (2003), *Historic Costume-From Ancient Times to Renaissance*, New York, Dover Publications.
- Wolfgang Brune & Max Tilke, (2004), *A Pictorial History of Costume from Ancient Times to the Nineteenth Century*, New York, Dover Publications.

SEMESTER III

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT3CRP15- WORLD ART APPRECIATION [P]

Credits-1 (Practical- 2)

No. of contact hours-36

Objectives

- To induce the students an appreciation of art through ages & its impact upon lifestyle & fashion.
- To create innovative paintings inspired by the characteristics of world art & application of art in fashion.

Contents

Module I

9 hrs

Ancient World

- Pre Historic art-Paleolithic age
- Egyptian art
- Greece & Roman-Classical Art.

Module II

9 hrs

Middle Ages

- Early Christian & Byzantine Art.
- Medieval European art-Gothic.
- Renaissance.

Module III

9 hrs

Modern Art

- Neo- Classicism & Romanticism
- Realism
- Impressionism
- Post impressionism
- Pointillism

- Cubism
- Surrealism

Module IV

9hrs

- Pop art
- Op art
- Abstract art
- Fauvism & Expressionism.
- Contemporary art.

Select a painting or a photograph of any object & render the same object according to the attributes (Rendering style, colour palette, concept & characteristics)of the above world arts.

Exhibition of the innovative paintings should be conducted at the end of the semester.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- H.W. Janson& Anthony. F. Janson Abrams, (2010), *History of ArtVIII Edition*, New York, Pearson Publication.
- Gustav Klimt, (1972), *One Hundred Drawings*, United States, Dover Publications.
- Peter Murray, (1985), *Art of the Renaissance*, London, Thames & Hudson Publications..

SEMESTER III

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT3CRP16- DRAPING [P]

Credits-3 (Practical- 4)

No. of contact hours-72

Objectives

- To teach the basic principles of draping.
- To train the students eye to see proportion and design detail in relation to the human body.
- To interpret and analyze more complex drapes.

Contents

Module I

5 hrs

- Introduction to draping and dress forms.
- Tools used for Draping.
- Principles and Techniques of Draping
- Preparation of fabrics.

Module II

16 hrs

- Basic Bodice – Marking and Trueing
- Dart manipulation – Mid neck dart, French dart, Double French dart and any one variation (Conversion of darts into pleats/ tucks/ gathers).

Module III

15 hrs

- Bodice variations- Surplice front, halter
- Classic Princess Bodice.

Module IV

15 hrs

- Basic front cowl, Butterfly twist.
- Yokes and midriffs- bodices yoke, hip yoke, fitted midriff.

Module V

15 hrs

- Basic skirt and variations – flared skirt, peg skirt.
- Princess dresses – joining skirt to the bodice.

Module VI

6 hrs

- Design and construct a final garment applying draping method.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- NurieRelis, Hilde Jaffe& Rose Mary Torre, (2012),*Draping For Fashion Design, V Edition*, United States, Pearson Prentice Hall Publications.
- Helen Joseph &Amstrong, (2013), *Draping for Apparel Design, III Edition*, India, Bloomsbury Publications India Ltd.
- Connie Ameden& Crawford, (2005), *The Art of Fashion Draping*, New York, Fairchild Publications

SEMESTER III

COMPLEMENTARY COURSE – APPAREL MERCHANDISING

FT3CMT17- FASHION MARKETING [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objective

- To introduce students to aspects of Domestic Marketing & Retail Merchandising

Contents

Module I

15 hrs

- Retailing-Retail Strategies, Store based retailers, Retail organization Multiple unit stores, Types of ownership, Non store retailing

Module II

20 hrs

- Role of a fashion buyer, Fabric sourcing, Garment sourcing, Local sourcing, National sourcing & International sourcing. Range Planning

Module III

15 hrs

- Marketing- Functions of marketing, Marketing calendar, Marketing Mix- Product, Price ,Promotion & transportation, Strategy planning

Module IV

22 hrs

- Consumer Behavior, Costumer Profile Defining the consumer by: Sex, Age, Size, Season, Economic Status, Location and others
- Market research- Methods & data analysis
- Visual Merchandising-Store planning, Seasonal visual merchandising, Windows, Interior and exterior visual merchandising, Departments

Suggested Readings:

- Helen Goworek, (2007), *Fashion Buying*, United Kingdom, John Wiley and Sons Ltd.
- Jay Diamond & Gerald Pintel, (2013), *Retail Buying*, New York, Prentice Hall Publications.
- Valerie Steele, (2012), *Fashion Theory-The Journal of Dress, Body and Culture*, England, Berg Publishers.
- Nicola White & Ian Griffiths, (2000), *The Fashion Business-Theory, Practice, Image*, United Kingdom, Blooms bury Academic Publishers.

SEMESTER IV

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT4CRP18- ADVANCED FASHION ILLUSTRATION [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To teach the students to explore the components that form the cohesiveness of a collection as well as elements that introduce individual creativity & diversity.
- To familiarize the students to design on full figure croquis to detailed specification drawings with swatches, trimmings & stitch details on the basis of research & innovative experiment on fabric & function for any specialized apparel category.
- To enable the students to work outward from a point of focus or inspiration to develop a complete collection.

Contents

Module I	15 hrs
<ul style="list-style-type: none">• Introduction to male figure• Men's casual /formal wear designs.	
Module II	15 hrs
<ul style="list-style-type: none">• Development of kid's figure,• Kid's play wear/school uniform designs.	
Module III	10 hrs
<ul style="list-style-type: none">• Introduction to flat sketches	
Module IV	12 hrs
<ul style="list-style-type: none">• Women's wear designs (Formal, Casual & Ethnic with special emphasis on innovative surface ornamentation techniques.)	
Module II	20 hrs
<ul style="list-style-type: none">• Using an inspiration to conceptualize & design a collection.	

- Introduction to design development-Inspiration board, mood board, colour board and swatch board.
- Art plates-collection of croqui /fashion plates

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Bina Abling, (2001), *Fashion Rendering with Color*, United States, Prentice Hall.
- Bina Abling, (2008), *Fashion Sketch Book, 4th edition*, New York, Fairchild Publications Inc.
- Kathryn Mckelvey& Janie Munslow, (2007), *Illustrating Fashion*, United States, Wiley-Blackwell Publishers.

SEMESTER IV

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT4CRP19 - GARMENT ASSEMBLING [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To develop the skill of designing fashionable garments.
- To enable the student to execute complete garments.
- To teach various methods by which Indian garments are manufactured.

Contents

Module I	4 hrs
<ul style="list-style-type: none">• An introduction to Layout marking, spreading, cutting the fabric and Finishing- trimming & ironing.	
Module II	8 hrs
<ul style="list-style-type: none">• Assembling a Shirt	
Module III	8 hrs
<ul style="list-style-type: none">• Assembling a Trouser	
Module III	20 hrs
<ul style="list-style-type: none">• Assembling a Jacket	
Module III	32 hrs
<ul style="list-style-type: none">• Construction of Indian garments:• SalwarKurtha• KalidharKurtha• Choli• Churidhar.	

Term Garment –Design and construct a variation of any one garment mentioned except jacket as an assignment.

**The Record and the article should be submitted at the time of
External Evaluation.**

Suggested Readings:

- Reader's Digest, (1997), *Complete Guide to Sewing and Knitting*, New York, Reader's Digest Association.
- Claire Shaeffer, (1997), *Sewing for the Apparel Industry*, United States, Prentice Hall.
- John Mcloughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.
- NurieRelis and Gayle Strauss, (1996), *Sewing for Fashion Design*, United States, Prentice Hall Publication

SEMESTER IV

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT4CRP20- ADVANCED PATTERN MAKING AND GRADING [P]

Credits-3 (Practical 5)

No. of contact hours-90

Objectives

- To provide more advanced and complex concepts to the pattern-making discipline.
- To enable the students to produce marker patterns for any garment.
- To make student proficient at grading the pattern to different sizes using nested grading.
- To teach industrial methods of pattern grading.

Contents

Module- I

18 hrs

Principle II - Added fullness - Types, methods of identifying added fullness

- Fullness along princess line, Fullness with yoke and neck band, Added fullness To a dart leg, Gathers on style dart, Added fullness design variation
- Contour guide pattern, Basic Torso Foundation.
- Dress categories: The three basic dress foundation, Princess-line foundation, A- line princess, Panel dress Foundation, Tent Foundation, and Oversized Dress.

Module- II

18 hrs

- Hoods & Capes: A- line cape foundation, Flared cape foundation, Contoured Hood foundation, Loose hood foundation, The Classic Empire, Surplice or Wrap design, Off-shoulder designs, Halter.

Module-III

18 hrs

- Cowls: Front cowl-High relaxed cowl, mid- depth cowl,
- Back cowl-High back cowl, mid back cowl

Prepare Pattern for end semester garment.

Section II-Grading

Module IV

16 hrs

- History of Grading, sizing survey of the market (Anthropometrical Research), body analysis, grading terminology.
- Principles of Grading, Introduction to Nested & Track grade, Grading Applications, Basic Bodice Grading-Back & Front.

Module V

20 hrs

- Grading the Basic sleeve, grading the Basic collar, Grading skirts & Trousers.

Note:The above mentioned patterns should be done for 2 sizes up to 1 size down.

Accuracy of pattern and neatness of execution are of great importance.

The Record and the End semester garment should be submitted at the time of External Evaluation.

Suggested Readings:

- Patrick J. Taylor & Martin Shobhen, (2004), *Grading for the fashion Industry: Theory and Practice*, London, LCFS Fashion Media Publications.
- Gerry Cooklin,(1991), *Pattern Grading For Women's Clothes*, United States, Black well Publications.
- Gerry Cooklin,(1992), *Pattern Grading For Men's Clothes*, United States, Black well Publications.
- Gerry Cooklin,(1991), *Pattern Grading For Children's Clothes*, United States, Black well Publications.
- Helen Joseph & Armstrong, (1995), *Pattern Making For Fashion Design*, United States, Prentice Hall Publications.

SEMESTER IV

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT4CRP21- COMPUTER GRAPHICS [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objective

- To teach the students graphic software that can prove useful and essential for design needs.

Contents

Module I **16 hrs**

Windows Office 2000

- **Microsoft Word**-Introduction to Microsoft Word, Familiarizing with
- Microsoft word-Typing, editing & designing the document.

Module II **18 hrs**

- **Microsoft PowerPoint**-Working in Microsoft PowerPoint, Creating presentation using Auto content wizard, Creating presentation using Design Template, Adding animation in slides

Module III **12 hrs**

- **Learning the Internet**-Internet & its scope, Connecting to internet, Opening an Email account, sending & receiving Emails, Browsing the WWW

Module IV **26 hrs**

- **Adobe Photoshop:** Getting started with Adobe Photoshop, working with Adobe Photoshop to create Mood & Trend Presentation Boards, Creating textile patterns with Photoshop, Creating women's wear, kids wear & men's wear illustrations using pen tool, Creating invitation card, visiting cards and greeting cards.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Adobe Systems, (2002), *Adobe Photoshop 7*, Adobe Press.
- Michelle Perkins, (2006), *Beginner's Guide to Adobe Photoshop*, United States, Amherst Media.
- Amy Philips, (2015), *Photoshop: Absolute Beginner's Guide*, Amazon Company, CreateSpace Independent Publishing Platform.

SEMESTER IV

COMPLEMENTARY COURSE – APPAREL MERCHANDISING

FT4CMT22- FUNDAMENTALS OF APPAREL PRODUCTION [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objective

- To enable the students to familiarize with the functions and procedures within an apparel production unit.

Contents

Module I

10 hrs

The Clothing Industry

- History, growth and structure of the clothing industry
- Product categories, different sectors of the industry
- Infrastructure and profile of a clothing factory.

Module II

14 hrs

Pre-production sampling

- Importance of design in production
- Process involved in making a design sheet and development of a collection for each season.
- Development of fabric - Analysis of desk-loom and strike off.
- Sample analysis and approvals – Counter samples

Module III

14 hrs

Production process

- Fabric inspection and cutting room – inspection of fabric and its control, various methods of spreading fabric, use and importance of marker, understanding of pattern and methods of laying patterns, yardage control in cutting room, types of cutting machine.
- Types of fusing, operation of fusing machine, quality aspects in fusing.
- Method of bundling and ticketing.

Module IV

10 hrs

Sewing room

- Machines – types, uses and application
- Use of attachments
- Sewing – stitch type, uses ,type and application
- Thread types

Module V

12 hrs

Trims

- Details of various types of trims used (interlining, shoulder pads, buttons, thread, labels, hang tags, size disc, hanger, hook and bar, zippers, lining, pocketing).
- Various techniques machine embroidery – satin stitch, chain stitch, eyelets, schiffli

Module VI

12 hrs

- Finishing room
- Pressing equipment.
- Trimmings, packing, warehousing and shipping.
- Quality control – from fabric to warehousing stage.

Suggested Readings:

- Gerry Cooklin, (1991), *Introduction to Clothing Manufacture*, United States, Blackwell Science Publishers.
- Sharon Lee Tate, (2004), *Inside Fashion Design*, United States, Pearson/Prentice Hall.
- Ruth E Glock, (2005), *Apparel Manufacturing: Sewn product analysis*, New Delhi, Pearson Education India Publishers.
- Jay Diamond & Ellen Diamond, (1994), *Fashion Apparel and Accessories*, United States, Delmar Cengage Learning.
- Frederick H. Abernathy, John T. Dunlop, Janice H. Hammond, and David Weil, (1999), *Stitch in Time: Learn Retailing & the Transformation of Manufacturing - Lessons from the Apparel and Textile Industry USA*, Oxford University Press.

SEMESTER IV
COMPLEMENTARY COURSE – APPAREL MERCHANDISING
FT4CMT23- EXPORT MERCHANDISING [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objectives

- To develop an understanding of the definition and role of the merchandiser, and merchandising department in the apparel industry.
- Understanding the potential and limitations of textile industry from a fashion designers point of view.
- Developing the expertise for appropriate selection of fabrics, trims and other materials keeping the design/style/market in perspective.

Contents

Module I

12 hrs

- Introduction to merchandising-definition and objectives of merchandising, role of a merchandiser, requirements of a merchandiser, responsibilities of a merchandiser
- communication skills-communication with buyer and coordination with different departments of a factory

Module II

15 hrs

- Organizational structure & functions of various departments of a manufacturer Export house
- Buying house-store owned buying house & independent buying house.
- An overview of textile industry
- Different sectors of Indian textile industry-mill sector/organized sector, power loom sector/semi organized sector, hand loom sector/unorganized sector /co-operatives

Module III

15 hrs

- Forecasting and significance in product planning, sampling, specification sheet, order sheet, line development, lead time , line presentation, minimum length and width
- Costing-techniques of costing-forward costing and backward costing, cost control, cost sheet.

Module IV

15 hrs

- Organizing the showroom, showroom vocabulary
- Eco friendly textiles and significance of green labeling
- Quality control of garments
- Care labeling of garments and its types.

Module V

15 hrs

- Export, trade procedures & documentation.
- Mode of shipments.
- Transport documents.
- Made of payment-Letter of Credit & Bill of Exchange.
- Globalization and its impacts on Indian textile industry.

Suggested Readings:

- Brad Jackson, (2001), *Management Gurus and Management Fashions*, London, Routeledge Publications.
- Jeanette Jarnow, (1968), *Inside the Fashion Business*, New York, Rizzoli International Publications.
- MichealEasey, Thompson, Sharon, Willans and John, (2008), *Fashion Marketing*, London , Blackwell Scientific Publications.
- Marian H. Jernigan, Easterling, & Cynthia R, (1990), *Fashion Merchandising & Marketing*, US, Prentice Hall Publications.
- Gary, Pekarsky,Ulasewicz& Connie, (1998), *Made in America : The Business of Apparel and Sewn Products Manufacturing*, US,Garmento Speak Publications.

SEMESTER V
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT5CRP24- THEATRE COSTUME DESIGNING [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To enable the students to take up costume for the movie, theater and advertisement industry.
- Prominent costume designers from the movie and theatre industry are invited for providing training for the students.

Contents

Module I **15 hrs**

- Introduction to evolution of theatre costumes

Module II **15 hrs**

- Sketch and colour: Costume (male & female), Mask, Footwear's, Accessories and Jewelry of the following theatres - Greek, Egypt, (One each)

Module III **16 hrs**

- Sketch and colour: Costume (male & female), Mask, Footwear's, Accessories and Jewelry of the following theatres - Roman, Chinese, Japanese and 19th century (One each).

Module IV **10 hrs**

- The difference in theatre costume from that of everyday costume/ Fashion costume.

Module V **16 hrs**

- Study and preparation of any one variety of theatre costume with suitable accessories based on a movie or a book.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Bronwyn Cosgrave, (2001), *The complete History of costume and Fashion: from Ancient Egypt to the Present Day*, New York, Checkmark Books.
- Regine Engelmeier, Peter.W. Engelmeier, *Fashion in Film*, New York, Prestel Publishings.
- Mary Kid, (1996), *Stage costume: Step - By Step: The complete guide to designing and making stage*, Betterway Books

SEMESTER V

CORE COURSE - FASHION DESIGN AND TECHNOLOGY

FT5CRP25 – KID’S WEAR AND MEN’S WEAR [P]

Credits-3 (Practical 5)

No: of contact hours – 90

Objectives

- To teach the students basic fundamentals of kid’s wear and men’s wear
- The students are required to make a collection of any 3 garments in kid’s and men’s wear and make a presentation of it. And construct one complete garment for each
- To enable students to do the proper layout of paper drafts on the fabric and to make maximum usage of fabric with minimum wastage.

Contents

Module I

36 hrs

- Pattern making for kid’s wear
 - a. Boys and girls block**
 - i. Flat body block
 - ii. Flat shirt block
 - iii. Flat sleeveless block
 - iv. Flat over garment block
 - v. Flat Trouser Block – one piece & two piece
 - vi. Flat Pyjama block
 - vii. Skirt block
 - viii. Classic Bodice Block
 - ix. Classic dress block
 - x. Sleeveless Dress Block

Module II

- Pattern making for men’s wear.
 - b. Men’s block**
 - i. Basic over garment block
 - ii. Basic one piece sleeve block

30 hrs

- iii. Classic shirt block
- iv. Casual shirt block
- v. Trouser blocks-one piece, two piece
- vi. Pyjama block-jacket, trouser

Module III

12hrs

- Construction of one stylized kid's wear and men's wear according to recent trends
Pattern alteration (kid's wear and men's wear)

Module IV

12 hrs

- Garment construction (kid's wear and men's wear)

Submit above articles during external evaluation along with the record.

Suggested Readings:

- E. Olive pounds, (2004), *Creative Sewing*, USA, Thomas Nelson and Sons Pvt. Ltd.
- Ernestine Kopp, VittorinaRolfo& Beatrice Zelin, (1975), *How to Draft Basic Patterns*, USA, Fairchild Publications.
- Nancy Zieman, (2011), *Sewing A to Z: Your Source for Sewing and Quilting Tips and Techniques*, USA, Krause Publishers.
- Winifred Aldrich, (2009), *Metric Pattern Cutting for Children's Wear And Baby Wear, 4th Edition*, USA, John Wiley and Sons.
- Winifred Aldrich, (2011), *Metric Pattern Cutting for Men's Wear And Baby Wear, 4th Edition*, USA, John Wiley and Sons.

SEMESTER V

COMPLIMENTARY COURSE- TEXTILE SCIENCE

FT5CMP26 -- TEXTILE DESIGN (P)

Credits – 3 (Practical-4)

No. of contact hours – 72

Objectives

- To develop originality and creative design sensibilities.
- To teach the students to develop commercially successful textile products.

Contents

Module I	12 hrs
<ul style="list-style-type: none">• Learning motifs, layouts and styles.	
Module II	16 hrs
<ul style="list-style-type: none">• Exploring designs from nature, geometry, floral, marine, juvenile, paisley, contemporary, conversational, Provencal and botanical themes.	
Module III	16 hrs
<ul style="list-style-type: none">• Techniques of repeats- straight, box, half drop, five star and random.• Color chart preparation.	
Module IV	16 hrs
<ul style="list-style-type: none">• Theme based textile designing for- kids, women's and men's.	
Module V	12 hrs
<ul style="list-style-type: none">• Color combinations and color ways.• Presentation of designs.	

Submit a record in the time of external evaluation.

Suggested Readings:

- Marypaul Yates, (1995), *Textiles: A Handbook for Designers*, New York, W.W. Norton and Company.
- Federick L. Chipkin,(2012), *Adobe Photoshop for textile design*, Origin Inc.
- Carol Joyce,(1997), *Textile Design: The Complete Guide to Printed Textile for Apparel & Home Furnishings*, New York, Watson-Guptill.
- Susan Meller&JoostElffers, (2002), *Textile Designers*, London, Thomas & Hudson Ltd.

SEMESTER V

COMPLIMENTARY COURSE- TEXTILE SCIENCE

FT5CMP27- COMPUTER AIDED TEXTILE DESIGNING (P)

Credits – 3 (Practical-4)

No. Of contact hours – 72

Objective

- To teach the students the use of advanced computer aided textile designing and presentation software's.

Contents

Module I	12 hrs
<ul style="list-style-type: none">• Motif design, color reduction and cleaning.	
Module II	16 hrs
<ul style="list-style-type: none">• Manipulation of motifs to layouts and patterns.• Creating designs-traditional, floral, conversational and abstract.	
Module III	16 hrs
<ul style="list-style-type: none">• Horizontal stripes, vertical stripes and plaids.• One-way, two-way, half-drop and tossed lay outs.	
Module IV	16 hrs
<ul style="list-style-type: none">• Dobby designing – Stripes, Checks, twills, satins and diamond weaves.	
Module V	12 hrs
<ul style="list-style-type: none">• Color combinations and color ways.• Presentation of designs.	

Submit a record in the time of external evaluation.

Suggested Readings:

- Renee Weiss Chase, (1996), *CAD for Fashion Design*, USA, Prentice Hall Publishers.
- Winifred Aldrich, (1994), *CAD in Clothing and Textiles 2nd Edition*, New Jersey ,Wiley – Blackwell Publishers.

SEMESTER V

COMPLIMENTARY COURSE- TEXTILE SCIENCE

FT5CMT28- TEXTILE PROCESSING AND ORNAMENTATION (T)

Credits-3(Theory 5)

No. of contact hours-90

Objectives

- To study the various textile wet processes and finishes.
- To impart knowledge about Textile dyeing and printing.

Contents

Module I

25hrs

- Preparatory Finishes: Sizing, Singeing, De-sizing, Scouring, Bleaching, Mercerization, Calendaring, Tendering.
- Aesthetic Finishes: Brushing, Crabbing, Fulling, Heat Setting, Shearing, Napping and Emerizing.

Module II

20hrs

- Functional Finishes: Water repellent and Water proof finishes, Antistatic finish, Anti-slip finish, Flame retardant finishes, Crease resistant finishes, Durable press and Shrink resistant finishes.

Module III

25 hrs

- Dyeing- Stages of dyeing- fiber stage, yarn dyeing, fabric, cross, union dyeing and product stage. Method of dyeing- batch dyeing, reel dyeing, jig dyeing and package dyeing.
- Printing- Direct roller printing, block printing, duplex printing, discharge printing, screen printing- flat and rotary, resist, batik and tie-dye.

Module IV

20 hrs

- Special embellishment techniques: Batik - splash, t-janting, crackled, Tie and dye - lehariya, bandini ,shibori, sunray and marbling, Block printing - vegetable block and wooden blocks, Fabric painting, Stencil-dabbing and

spraying.

Suggested Readings:

- Murphy.W.S.(2007), *Textile Finishing*, Chandigarh , Abhishek Publications,.
- Billie J. Collier, Martin Bide & Phyllis G. Tortora, (2008), *Understanding Textiles 7th Edition*, USA, Prentice Hall Publishers.
- Susan Bosence, (1993), *Hand Block Printing and Resist Dyeing*, UK, David & Charles Publishers.
- Francis J. Kafka,(1973), *Batik, Tie Dyeing, Stenciling, Silk Screen, Block Printing: The Hand Decoration of Fabrics*, USA, Dover Publications

SEMESTER V
GENERIC ELECTIVE
FT5GET01 -SUSTAINABILITY IN TEXTILES [T]

Credits-3(Theory 3)

No. of contact hours-54

Objectives

- To gain knowledge about the elements involved in sustainability in textiles and clothing sector.
- To understand the regulatory aspects and sustainability standards applicable to the field.
- To introduce the various certification schemes available.

Contents

Module I

12hrs

Sustainability Impacts on Environment:

- Impacts on Air- Oil & Acid mists, Solvent Vapors, Odor, Dust& Lint.
- Impacts on Water – Hard to treat wastes, Hazardous & Toxic wastes, Dispersible wasted and High volume wastes.

Module II

16 hrs

- Pollution Control Strategies- Cleaner Production Techniques and processes, End of pipe treatments, sludge treatment & dispersal and air emission control

Module III

12hrs

- Introduction to Ecofriendly textiles – Definition & features.
- Types – Organic Cotton, Bamboo, Hemp, Soy Silk, Tencel, Ramie
- Eco labeling – Definition & Importance
- Types of eco labels- Oekotex standards, CRI Greenlabel, Better Cotton Initiative, Blue Science standard, Ecomark India

Module IV

14 hrs

- Importance of Recycling and Safe disposal of textiles– Textile Recycling Process
- Recycling of Natural Fabrics – Cotton, Wool, Jute, Leather
- Recycling of Man-made Fabrics – Polyester, Nylon

Suggested Readings:

- Subramanian SenthilkannanMuthu, (2015), *Roadmap to Sustainable Textiles and Clothing*, New York, Springer Publishers.
- Richard Blackburn, (2009), *Sustainable Textiles-Lifecycle and Environmental Impacts*, UK, Woodhead Publishers.
- Youjiang Wang, (2006), *Recycling in Textiles*, UK, Woodhead Publishers.

SEMESTER V

GENERIC ELECTIVE

FT5GET02 -TEXTILE AND APPAREL QUALITY EVALUATION[T]

Credits-3(Theory 3)

No. of contact hours-54

Objectives

- To infuse understanding of yarn, fabric and apparel testing methods

Module I

10 hrs

- SAMPLING TECHNIQUES - Definition – random- biased techniques for fibre, yarns and fabrics.
- Standard conditions - RH and temperature for testing.
- Moisture – measurement.

Module II

14 hrs

- YARN TESTING -Twist direction – Twist multipliers. Twist testers. Tension type – Take-up -ATIRA Direct type testers, Yarn Hairiness Testing - Methods – Optical – Singeing.
- Yarn count – Instruments – analytical balance – Knowles balance – quadrant balance – Beesley balance- electronic yarn count and yarn diameter. Methods of measuring evenness – Black board – ASTM standards – 49 Cutting and weighing methods –
- Electronic capacitance – Uster evenness tester – Uster standards – Yarn faults – classification – UsterClassimat.

Module III

10 hrs

- FABRIC TESTING - Crimp – Influence on fabric properties – Shirley crimp tester,
- Fabric tensile strength tester – ravelled strip method –grab methods. Elmendorf tear tester, Ballistic tester – Hydraulic bursting strength tester.
- Fabric abrasion resistance – handle- serviceability assessment, Martindale abrasion tester, Fabric pilling I.C.I Pillbox tester.

Module IV

10 hrs

- DRAPE MEASUREMENT - Fabrics drape measurement – Drape meter.
- Fabrics stiffness - Shirley stiffness tester, fabric crease resistance and crease recovery measurements.
- Fabric permeability - Shirley air permeability tester – Fabric water permeability tester – Friction measuring instruments.

Module V

10 hrs

- APPAREL TESTING - Seam strength testing – Seam severance testing.
- Evaluation of interlinings quality Colour fastness testing
- Apparel dimensional stability testing.
- Objective evaluation of fabric tailorability.

Suggested Readings:

- Booth J.E.,(1989), *“Principle of Textile Testing”*, London, Butterworth Publications.
- Kothari V. K., (1999), *“Testing and Quality Management”*, Progress in Textile Technology Vol.1, New Delhi, IAFL Publications.
- Sara J. Kadolph., (1998), *“Quality Assurance for Textiles and Apparels”*, New York, Fair Child Publications.

SEMESTER V

GENERIC ELECTIVE

FT5GET03 -GARMENT FINISHING AND CLOTHING CARE[T]

Credits-3(Theory 3)

No. of contact hours-54

Objectives

- To educate the students in techniques and machinery for dyeing and finishing of garments and to impart knowledge on different garment care techniques.

Module I

10 hrs

- Water –soft water –hard water – methods of softening water.
- Washing: Stone washing, acid washing, enzyme washing, bio polishing, mercerization, bleaching, laser fading and ozone fading.

Module II

12hrs

- Study of laundry equipment and reagents – soaps – detergents – cleaning action of soaps, study of modern and industrial cleaning agents.

Module III

16 hrs

- Principles of laundering – stain removal – various solvents for stain removing blood, tea, rust, oil/grease etc. – different methods of washing – application of friction by hand rubbing – scribing – tumble wash

ModuleIV

16hrs

- Stain removal – Oil, colour matter, chemicals.
- Garment laundering equipment and procedures. Study of different types of house hold/industrial washing machines- rotary –swirling – pressure – tumble wash etc.

Suggested Readings:

- Dantyagi S., (1980), “*Fundamentals of Textile and their care*”, New Delhi, Oriental longmans Ltd.
- Denlkar, (1993), “*Household Textiles & laundry work*”, Delhi, Atma Ram & Sons.
- Harrison. P (Editor), (1988), “*Garment Dyeing: Ready to wear fashion from the dye house*”, U.K, The Textile Institute.
- Noemia D’ Souza., (1998), “*Fabric Care*”, Chennai, New Age International (P) Ltd. Publisher.

SEMESTER VI
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT6CRP30-FINAL COLLECTION [P]

Credits – 6 (Practical-17)

No. Of contact hours – 306

Objectives

- To develop creative designing sensibilities among students for developing ensembles through thematic presentations and interpretations.
- To introduce the students as fashion designers.

Presentation and Evaluation

- Each student will conceptualize and develop a collection of at least five ensembles which demonstrate the student creativity and understanding of the market.
- The collection will be displayed as a fashion show finale.

**Submit a record based on the theme and interpretation of the collection at the
time of external evaluation**

SEMESTER VI

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT6CRP31 - ACCESSORY DESIGNING [P]

Credits –3 (Practical-4)

No. Of contact hours – 72

Objective

- To teach the students the art of accessory designing so that they can complement their garment designs with appropriate accessories.

Contents

Module I 14 hrs

- An introduction to Fashion Accessories.
- Type of Fashion Accessories: -Jewellery (neck lace, earrings, rings, hair ornaments) hats, belts, bags, footwear's and hair accessories.

Module II 16hrs

- Designing fashion accessories on the basis of a selective theme: Traditional style, ethnic style, contemporary style, fusion of any above styles.

Module III 16 hrs

- Material exploration- Develop any accessory from the above mentioned

Module IV 14 hrs

- Material exploration- Develop a set of Jewellery with any material and a set of ecofriendly material.

Module V 12 hrs

- Prepare fashion accessories based on final collection theme.

Submit the above articles during external evaluation along with the record.

Suggested Readings:

- Joan Evans, (1989), *History of Jewellery*, New York, Dover Publications.
- Steven Thomas, (2012), *Drawing Fashion Accessories*, London, Laurence King Publishings.
- Leonor D'orey, (1996), *Five Centuries of Jewellery: National Mueum of Ancient Art*, London, Zwemmet Publishers.
- Tracey Tolkien & Henrietta Wilkinson, (1997), *A collector's Guide to Costume Jewellery*, Canada, Firefly Books Ltd.

SEMESTER VI
CORE COURSE - FASHION DESIGN AND TECHNOLOGY
FT6CRP32 - PORTFOLIO MAKING [P]

Credits –3 (Practical- 4)

No. of contact hours – 72

Objectives

- The students document all their presentable work done through all semesters and those that portray the student's areas of interest. The portfolio can be an effective means of communicating the capacities and capabilities of the students to anyone who seeks their skills and talents.

Presentation & Evaluation

The portfolio would be done using the art software's of which the student have undergone training.

Students should use computer aided backdrops and various innovative layouts. Appropriate selection of designer display folders & different design options are possible for showcasing their creative works.

Submit the portfolio as a record in the time of external evaluation.

SEMESTER VI

CHOICE BASED COURSE- 1 – FASHION DESIGN AND TECHNOLOGY

FT6CBP01-COMPUTER AIDED PATTERN MAKING AND GRADING [P]

Credits-3 (Practical 4)

No: of contact hours - 72

Objective

- To teach the students basics of computerized pattern making and grading which is useful in industrial garment production.

Contents

Module I	10 hrs
<ul style="list-style-type: none">• Introduction to computerized pattern making and grading.	
Module II	18 hrs
<ul style="list-style-type: none">• Pattern Preparation – The Basic Pattern Set<ol style="list-style-type: none">1. Basic Front Bodice2. Basic Back Bodice3. Basic Sleeve4. Basic Front Skirt5. Basic Back Skirt	
Module III	18 hrs
<ul style="list-style-type: none">• Pattern Preparation – Garments<ol style="list-style-type: none">1. Bib2. A-Line Frock3. T-Shirt	
Module IV	26 hrs
<ul style="list-style-type: none">• Pattern Grading<ol style="list-style-type: none">1. Basic Front Bodice2. Basic Back Bodice3. Basic Sleeve4. Basic Front Skirt5. Basic Back Skirt	

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Alison Beazley and Terry Bond , (2003), *Computer-Aided Pattern Design and Product Development*, United States, Wiley - Blackwell Publishings.
- Sorabji M. Rutnagur, (2003), *The Indian Textile Journal*, Vol.114, Boston, Harvard Business Press.
- Clothing and Footwear Institute, (1998), *Apparel International: The Journal of the Clothing and Footwear Institute*, Great Britain.

SEMESTER VI

CHOICE BASED COURSE-2 – FASHION DESIGN AND TECHNOLOGY

FT6CBP02-APPAREL MACHINERY AND QUALITY CONTROL [T]

Credits-3 (Theory- 4)

No: of contact hours - 72

Objectives

- To develop an understanding of the definition latest technological developments in the apparel industry.
- Understanding the quality control parameters of apparel industry.

Contents

Module I

10 hrs

- Introduction to quality -Key aspects of quality system, objectives of a quality system, Total Quality Management, Role of ISO in quality assurance.

Module II

20 hrs

- Quality control:- principles of quality control -SQC, Quality department, Quality audit, quality monitor, Quality circles, Quality control for exports, operation of quality control systems, design, Standard, levels of standard. Functions of Quality Assurance department, quality check and final inspection, methods of checking, and consignment at final inspection and measurement tolerances in garments.

Module III

15 hrs

- Introduction to Apparel testing and quality control:-
- Apparel testing equipment- GSM, Tensile tester, Bursting strength tester, Tear strength tester, fabric stiffness tester, crock meter, colour matching cabinet.

Module IV

15 hrs

- Quality parameters – (Defects found in yarns, grey fabric, dyeing, printing,

bleaching, shearing, mercerization...)

- Components of quality parameters- (Placket, Collar, pocket, vent, Label attachment)
- Terminologies- C.M.T, Defect, Minor Defect, Major Defect, Critical Defect, AQL, 4 point system, DIA, G.S.M, Shrinkage, Breaking strength, Color bleeding,
- Puckering, Pilling. Pilling resistance, Grain seam, batching up, Color smear, patches

Module V

12 hrs

- Technological advancements: -Introduction to CAD & CAM systems, -
- Computer controlled fabric checking machine & laying machines, advanced cutting machines, water jet cutting machines, air jet cutting machines and lasercutting machines, computer controlled sewing machines, advanced embroidery& sequence fixing machines.

Suggested Readings:

- Sara J.Kadolf, *Quality assurance for Textile and Apparel*, New York, Fairchild publications.
- Gerry Cooklin, Steven George Hayes and John McLoughlin, (2006), *Introduction to Clothing Manufacture*, New Jersey, Wiley-Blackwell.
- Joseph M. Juran and A. Blandon Godfrey, (1999), *Juran's Quality Handbook*, USA, Mc Graw Hill Publishers,

SEMESTER VI

CHOICE BASED COURSE-3 – FASHION DESIGN AND TECHNOLOGY FT6CBP03-ENTREPRENEURSHIP DEVELOPMENT& MANAGEMENT [T]

Credits-3 (Theory- 4)

No: of contact hours - 72

Objectives

- To enable the students to develop entrepreneurial aptitude.
- Analyze the environment related to small scale industry and business.
- Understand the process and procedures of setting up small enterprises.
- Develop Management skills for entrepreneurship development.

Contents

Module I

8 hrs

- Entrepreneurship - Entrepreneur, Enterprise and Entrepreneurship - meaning, need, transition from income generation to self employment and entrepreneurship, qualities of a good entrepreneur, problems of entrepreneurs.

Module II

6 hrs

- Factors influencing entrepreneurial development - Economic, Legal, Socioeconomic, Psychological and Environmental factors.

Module III

18hrs

- Agencies supporting entrepreneurial development programme - SIDC, SSI, SIDECO, DIC, SIDO IDBI, KITCO, EDII and. THIC.
- Schemes for assistance- current schemes and programme for individual and group support.

Module IV

20 hrs

- Small scale industries:- Definition, types, procedure for setting a small scale unit, training facilities for small scale units, problems of small scale units, steps to overcome problems.
- 6 M's of an industry-Management, money, manpower, materials, machines and marketing

- Project identification and classification - Meaning of Projects, Project identification, Project Classification, internal and external constraints, Project objectives. Elements of project formulation.

Module V

20 hrs

- Project proposal - Proposal format and content - steps in its preparation, feasibility, testing, SWOT analysis.
- Organization and Management:-Definition and types of organization, Definition, Functions and tools of management, techniques of effective management, energy and time management and its application in garment units

Related Experience:

Visit to SIDCO, DIC or TIIC.

Case study of an enterprise and two entrepreneurs. Preparation of a project proposal for funding.

Suggested Readings:

- Gupta C.B, and Srinivasan N.P, (2004), *Entrepreneurship Development in India*, New Delhi, Sultan Chand & Sons.
- Chunawalla S.A, (1991), *Sales Management*, New Delhi, Himalayan Publishing House.
- Vasant Desai, (2000), *Project Management and Entrepreneurship*, New Delhi, Himalaya Publishing House.
- David H.Moll, (1999), *Entrepreneurship*, New Delhi, Prentice Hall of India.