



# **SYLLABUS**

## **DIPLOMA IN APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN)**

Course code: 1226

**2015-2016**

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**M- SCHEME**



**DIRECTORATE OF TECHNICAL EDUCATION  
GOVERNMENT OF TAMILNADU**

**NEW SYLLABUS FOR FULLTIME  
DIPLOMA IN APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN)  
'M' SCHEME  
FROM 2015 – 2016 BATCH ONWARDS**

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**DIPLOMA COURSES IN ENGINEERING/TECHNOLOGY**  
**(SEMESTER SYSTEM)**  
**(Implemented from 2015- 2016)**  
**M – SCHEME**  
**REGULATIONS\***

\* *Applicable to the Diploma Courses other than Diploma in Hotel Management & Catering Technology and the Diploma Courses offered through MGR Film Institute, Chennai.*

**1. Description of the Course:**

**a. Full Time (3 years)**

The Course for the full Time Diploma in Engineering shall extend over a period of three academic years, consisting of 6 semesters\* and the First Year is common to all Engineering Branches.

**b. Sandwich (3½ years)**

The Course for the Diploma in Engineering (sandwich) shall extend over a period of three and half academic years, consisting of 7 semesters\* and the First Year is common to all Engineering Branches. The subjects of three years full time diploma course being regrouped for academic convenience.

During 4<sup>th</sup> and/or during 7<sup>th</sup> semester the students undergo industrial training for six months/ one year. Industrial training examination will be conducted after completion of every 6 months of industrial training

**c. Part Time (4 years)**

The course for the diploma in Engineering shall extend over a period of 4 academic years containing of 8 semesters\*, the subjects of 3 year full time diploma courses being regrouped for academic convenience.

\* Each Semester will have 15 weeks duration of study with 35 hrs. /Week for Regular Diploma Programme and 18hrs/ week (21 hrs. / Week | year) for Part-Time Diploma Programmes.

The Curriculum for all the 6 Semesters of Diploma courses (Engineering & Special Diploma Courses viz. Textile Technology, Leather Technology, Printing Technology, Chemical Technology etc.) have been revised and revised curriculum is applicable for the candidates admitted from 2015 – 2016 academic year onwards.

## 2. Condition for Admission:

Condition for admission to the diploma courses shall be required to have passed in

The S.S.L.C Examination of the Board of Secondary Education, TamilNadu.

(Or)

The Anglo Indian High School Examination with eligibility for Higher Secondary Course in TamilNadu.

(Or)

The Matriculation Examination of Tamil Nadu.

(Or)

Any other Examination recognized as equivalent to the above by the Board of Secondary Education, TamilNadu.

Note: In addition, at the time of admission the candidate will have to satisfy certain minimum requirements, which may be prescribed from time to time.

## 3. Admission to Second year (Lateral Entry):

A pass in HSC ( Academic ) or ( Vocational ) courses mentioned in the Higher Secondary Schools in TamilNadu affiliated to the TamilNadu Higher Secondary Board with eligibility for university Courses of study or equivalent examination, & Should have studied the following subjects.

Sl. No	Courses	H.Sc Academic	H.Sc Vocational	
		Subjects Studied	Subjects Studied	
			Related subjects	Vocational subjects
1.	All the Regular and Sandwich Diploma Courses	Maths, Physics & Chemistry	Maths / Physics / Chemistry	Related Vocational Subjects Theory & Practical
2.	Diploma course in Modern Office Practice	English & Accountancy English & Elements of Economics English & Elements of Commerce	English & Accountancy, English & Elements of Economics, English & Management Principles & Techniques, English & Typewriting	Accountancy & Auditing, Banking, Business Management, Co-operative Management, International Trade, Marketing & Salesmanship, Insurance & Material Management, Office Secretaryship.

- For the diploma Courses related with Engineering/Technology, the related / equivalent subjects prescribed along with Practical may also be taken for arriving the eligibility.
- Branch will be allotted according to merit through counseling by the respective Principal as per communal reservation.
- For admission to the Textile Technology, Leather Technology, Printing Technology, Chemical Technology and Modern Office Practice Diploma courses the candidates studied the related subjects will be given first preference.
- *Candidates who have studied Commerce Subjects are not eligible for Engineering Diploma Courses.*

**4. Age Limit: No Age limit.**

**5. Medium of Instruction: English**

**6. Eligibility for the Award of Diploma:**

No candidate shall be eligible for the Diploma unless he/she has undergone the prescribed course of study for a period of not less than 3 academic years in any institution affiliated to the State Board of Technical Education and Training, TamilNadu, when joined in First Year and two years if joined under Lateral Entry scheme in the second year and passed the prescribed examination.

The minimum and maximum period for completion of Diploma Courses are as given below:

<b>Diploma Course</b>	<b>Minimum Period</b>	<b>Maximum Period</b>
Full Time	3 Years	6 Years
Full Time(Lateral Entry)	2 Years	5 Years
Sandwich	3½ Years	6½ Years
Part Time	4 Years	7 Years

**7. Subjects of Study and Curriculum outline:**

The subjects of study shall be in accordance with the syllabus prescribed from time to time, both in theory and practical. The curriculum outline is given in Annexure - I

**8. Examinations:**

Board Examinations in all subjects of all the semesters under the scheme of examinations will be conducted at the end of each semester.

The Internal assessment marks for all the subjects will be awarded on the basis of continuous internal assessment earned during the semester concerned. For each subject 25 marks are allotted for internal assessment and 75 marks are allotted for Board Examination.

**9. Continuous Internal Assessment:**

**A . For Theory Subjects:**

The Internal Assessment marks for a total of 25 marks, which are to be distributed as follows:

**i. Subject Attendance**

**5 Marks**

(Award of marks for subject attendance to each subject theory/practical will as per the range given below)

80% - 83%	}	1 Mark
84% - 87%		2 Marks
88% - 91%		3 Marks
92% - 95%		4 Marks
96% - 100%		5 Marks

**ii) Test #**

**10 Marks**

2 Tests each of 2 hours duration for a total of 50 marks are to be conducted. Out of which the best one will be taken and the marks to be reduced to: 05 marks

The Test – III is to be the Model test covering all the five units and the marks so obtained will be reduced to : 05 marks

Total **10 marks**

TEST	UNITS	WHEN TO CONDUCT	MARKS	DURATION
Test I	Unit – I & II	End of 6 <sup>th</sup> week	50	2 Hrs
Test II	Unit – III & IV	End of 12 <sup>th</sup> week	50	2 Hrs
Test III	<b>Model Examination - Compulsory</b> Covering all the 5 Units. (Board Examination-question paper-pattern).	End of 15 <sup>th</sup> week	75	3 Hrs

**# - From the Academic year 2015-2016 onwards.**

Question Paper Pattern for the Periodical Test :( Test - I & Test- II)

With no choice:

PART A type questions:	4 Questions X 2 mark	... ..	8 marks
PART B type questions:	4 Questions X 3 marks	... ..	12 marks
PART C type questions:	3 Questions X 10 marks	... ..	30 marks
		-----	
	<b>Total</b>		<b>50 marks</b>
		-----	

**iii) Assignment**

**10 Marks**

For each subject Three Assignments are to be given each for 20 marks and the average marks scored should be reduced for 10 marks

All Test Papers and assignment notebooks after getting the signature with date from the students must be kept in the safe custody in the Department for verification and audit. It should be preserved for 2 Semesters and produced to the flying squad and the inspection team at the time of inspection/verification.

**B. For Practical Subjects:**

The internal assessment mark for a total of 25 marks which are to be distributed as follows:-

a)	Attendance	:	<b>5 Marks</b>
	(Award of marks as same as Theory subjects)		
b)	Procedure/ observation and tabulation/ Other Practical related Work	:	<b>10 Marks</b>
c)	Record writing	:	<b>10 Marks</b>
		-----	
	<b>TOTAL</b>	:	<b>25 Marks</b>
		-----	

- *All the Experiments/exercises indicated in the syllabus should be completed and the same to be given for final board examinations.*
- The Record for every completed exercise should be submitted in the subsequent Practical classes and marks should be awarded for 20 for each exercise as per the above allocation.
- At the end of the Semester, the average marks of all the exercises should be calculated for 20 marks and the marks awarded for attendance is to be added to arrive at the internal assessment mark for Practical. (20+5=25 marks)

- The students have to submit the duly signed bonafide record note book/file during the Practical Board Examinations.
- *All the marks awarded for assignment, Test and attendance should be entered in the Personal Log Book of the staff, who is handling the subject. This is applicable to both Theory and Practical subjects.*

**10. Life and Employability Skill Practical:**

The Life and Employability Skill Practical with more emphasis is being introduced in IV Semester for Circuit Branches and in V Semester for other branches of Engineering.

Much Stress is given to increase the employability of the students:

Internal assessment Mark ..... **25 Marks**

**11. Project Work:**

The students of all the Diploma Programmes (**except Diploma in Modern Office Practice**) have to do a Project Work as part of the Curriculum and in partial fulfillment for the award of Diploma by the State Board of Technical Education and Training, Tamilnadu. In order to encourage students to do worthwhile and innovative projects, every year prizes are awarded for the best three projects i.e. institution wise, region wise and state wise. **The Project work must be reviewed twice in the same semester.**

**a) Internal assessment mark for Project Work & Viva Voce:**

Project Review I	...	<b>10 marks</b>
Project Review II	...	<b>10 marks</b>
Attendance	...	<b>05 marks</b> (award of marks same as theory subjects pattern)

Total ... **25 marks**

Proper record to be maintained for the two Project Reviews, and It should be preserved for 2 Semesters and produced to the flying squad and the inspection team at the time of inspection/verification.

**b) Allocation of Mark for Project Work & Viva Voce in Board Examination:**

Viva Voce	...	<b>30 marks</b>
Marks for Report Preparation, Demo	...	<b>35 marks</b>
Total		<b>65 marks</b>

**c) Written Test Mark (from 2 topics for 30 minutes duration):** \$

i) Environment Management	2 questions X 2 ½ marks	= <b>5 marks</b>
ii) Disaster Management	2 questions X 2 ½ marks	= <b>5 marks</b>
		<b>10marks</b>



\$ - Selection of Questions should be from Question Bank, by the External Examiner.

No choice need be given to the candidates.

Project Work & Viva Voce in Board Examination	--	<b>65 Marks</b>
Written Test Mark (from 2 topics for 30 minutes duration)	--	<b>10 Marks</b>
TOTAL	--	<b>75 Marks</b>

**A neatly prepared PROJECT REPORT as per the format has to be submitted by individual during the Project Work & Viva Voce Board examination.**

**12. Scheme of Examinations:**

The Scheme of examinations for subjects is given in **Annexure - II**.

**13. Criteria for Pass:**

1. No candidate shall be eligible for the award of Diploma unless he/she has undergone the prescribed course of study successfully in an institution approved by AICTE and affiliated to the State Board of Technical Education & Training, Tamil Nadu and pass all the subjects prescribed in the curriculum.
2. A candidate shall be declared to have passed the examination in a subject if he/she secures not less than *40% in theory subjects* and *50% in practical subject* out of the total prescribed maximum marks including both the internal assessment and the Board Examination marks put together, subject to the condition that he/she secures at least a minimum of *30 marks out of 75 marks in the Board's Theory examinations* and *a minimum of 35 marks out of 75 marks in the Board Practical Examinations*.

**14. Classification of successful candidates:**

Classification of candidates who will pass out the final examinations from April 2018 onwards (Joined in first year in 2015-2016) will be done as specified below.

**First Class with Superlative Distinction:**

A candidate will be declared to have passed in **First Class with Superlative Distinction** if he/she secures not less than 75% of the marks in all the subjects and passes all the semesters in the first appearance itself and passes all

subjects within the stipulated period of study 3/ 3½/ 4 years (Full Time/Sandwich/Part Time) without any break in study.

**First Class with Distinction:**

A candidate will be declared to have passed in **First Class with Distinction** if he/she secures not less than 75% of the aggregate of marks in all the semesters put together and passes all the semesters except the I and II semesters in the first appearance itself and passes all the subjects within the stipulated period of study 3/ 3½/ 4 years (Full Time/Sandwich/Part Time) without any break in study.

**First Class:**

A candidate will be declared to have passed in **First Class** if he/she secures not less than 60% of the aggregate marks in all semesters put together and passes all the subjects within the stipulated period of study 3/ 3½ / 4 years (Full Time/Sandwich/Part Time) without any break in study.

**Second Class:**

All other successful candidates will be declared to have passed in **Second Class**.

The above mentioned classifications are also applicable for the Sandwich / Part-Time students who pass out Final Examination from October 2018 /April 2019 onwards (both joined in First Year in 2015-2016)

**15. Duration of a period in the Class Time Table:**

The duration of each period of instruction is 1 hour and the total period of instruction hours excluding interval and Lunch break in a day should be uniformly maintained as 7 hours corresponding to 7 periods of instruction (Theory & Practical).

**16. Seminar:**

For seminar the total seminar 15 hours(15 weeks x 1hour) should be distributed equally to total theory subject per semester(i.e 15 hours divided by 3/4 subject). A topic from subject or current scenario is given to students. During the seminar hour students have to present the paper and submit seminar material to the respective staff member, who is handling the subject. It should be preserved for 2 Semesters and produced to the flying squad and the inspection team at the time of inspection/verification.

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## **DIPLOMA IN APPLIED ARTS AND CRAFTS**

### **(FASHION AND APPAREL DESIGN)**

#### **Significance of the course**

The objective of this course is obtaining professional theatrical costume designers. It is very important for the students to gain specific knowledge on sketching techniques, anatomy, color rendering and collections. At the beginning the student approaches notions about the basis of drawing then he starts to deepen his knowledge on famous costumes' stage, in addition to a deep study of fashion history and fabrics. Applied art is dedicated to the design of clothing and lifestyle accessories created within the cultural and social influences of a specific time.

The Indian fashion market has become more pronounced and energized with global players. The fashion industry's prospects are extremely encouraging and provide attractive openings at various levels not only to professionals but also to talented and skilled technicians. This course offers a creative, inspirational and yet realistic education for creating the successful fashion design professional. The emphasis is on personal design philosophy. While negotiating the design elements appropriate for commercial fashion retailing or exploring the individual conceptual practice of the designer, students are critically challenged to extend their creativity.

Fashion Industry is not only the fourth largest in the world; it has grown increasingly over the last decade. The industry offers a whole lot of new careers and is not limited to designing clothes as believed. There is dearth of opportunities as this industry is growing constantly and integrates creativity, design, business and technology in the areas of art, design, communication and presentation. There are tremendous opportunities for Indian garments and textile exporters in the global market. Fashion Design is a highly specialized field and the types of jobs available are diverse. Today, fashion houses, manufacturers and retailers are expanding, diversifying and taking advantage of new technology thereby creating bright prospects for the new entrants who wish to make a career in the creative industry.

Students who study this course will immense scope for self-employment and employment in Fashion Industry. Topics like Art of sketching and drawing, Fashion concepts and designs, Fashion illustration, Fashion CAD & accessories etc., are included in the syllabus to make itself sufficient. This will enable the students to complete this course to the expectations of Fashion industry. Sufficient practical subjects are also included for supporting theory subjects. The expectation from the students is that, after completing the course, they should be in a position to select goods suitable for garment making, designing fashionable garments and finally, stitch them to make the finished product. Industrial visits, In-plant training, Guest lecture, Seminars, Study tours and Project work/Project report gives students scope for working individually and this to a greater extent improves the self reliance of the students.

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**DIPLOMA IN APPLIED ARTS AND CRAFTS  
(FASHION AND APPAREL DESIGN)**

Course code: 1226

M Scheme

**CURRICULUM OUTLINE**

**THIRD SEMESTER**

S.No	Subject Code	SUBJECT	HOURS PER WEEK			
			Theory Hours	Tutorial / Drawing	Practical hours	Total Hours
3.1	36631	FIBRE SCIENCE AND YARN MANUFACTURE @	5	-	-	5
3.2	37832	ART OF SKETCHING AND DRAWING \$	5	-	-	5
3.3	36633	APPAREL DESIGNING @	5	-	-	5
3.4	36534	FASHION SKETCHING AND DRAWING PRACTICAL	-	-	5	5
3.5	36535	EMBROIDERY PRACTICAL @	-	-	5	5
3.6	36536	APPAREL DESIGNING PRACTICAL@	-	-	5	5
3.7	30001	COMPUTER APPLICATIONS PRACTICAL**	-	-	4	4
	SEMINAR		1	-	-	1
	TOTAL		16	-	19	35

**FOURTH SEMESTER**

S.No.	Subject Code	SUBJECT	HOURS PER WEEK			
			Theory Hours	Tutorial / Drawing	Practical hours	Total Hours
4.1	36641	HOME TEXTILES@	5	-	-	5
4.2	36142	TECHNOLOGY OF FABRIC MANUFACTURE#	5	-	-	5
4.3	36643	CLOTHING MACHINERY AND EQUIPMENT@	5	-	-	5
4.4	36644	PATTERN DRAFTING AND CONSTRUCTION-I @	5	-	-	5
4.5	36545	HOME TEXTILES PRACTICAL	-	-	5	5
4.6	36546	PATTERN DRAFTING AND CONSTRUCTION- I PRACTICAL	-	-	5	5
4.7	30002	LIFE AND EMPLOYABILITY SKILLS PRACTICAL**	-	-	4	4
	SEMINAR		1	-	-	1
	TOTAL		21	-	14	35

**FIFTH SEMESTER**

S.No	Subject Code	SUBJECT	HOURS PER WEEK			
			Theory Hours	Tutorial / Drawing	Practical hours	Total Hours
5.1	37851	CHEMICAL PROCESSING AND TESTING OF TEXTILES \$	5	-	-	5
5.2	37852	APPAREL PRODUCTION AND QUALITY CONTROL \$	5	-	-	5
5.3	36653	PATTERN DRAFTING AND CONSTRUCTION- II <sup>@</sup>	5	-	-	5
5.4	<b>Elective – I-</b>					
5.4.1	36671	APPAREL MERCHANDISING <sup>@</sup>	5	-	-	5
5.4.2	36672	INDIAN AND WESTERN COSTUMES <sup>@</sup>				
5.5	36555	CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL	-	-	4	4
5.6	36556	FASHION ILLUSTRATION AND ACCESSORIES PRACTICAL	-	-	5	5
5.7	36557	PATTERN DRAFTING AND CONSTRUCTION- II PRACTICAL	-	-	5	5
	SEMINAR		1	-	-	1
	TOTAL		21	-	14	35

## SIXTH SEMESTER

S.No.	Subject Code	SUBJECT	HOURS PER WEEK			
			Theory Hours	Tutorial / Drawing	Practical hours	Total Hours
6.1	36061	TEXTILE MANAGEMENT*	5	-	-	5
6.2	37862	FASHION CONCEPTS AND DESIGN TECHNIQUE \$	5	-	-	5
<b>6.3</b>	<b>Elective-II</b>					
6.3.1	37881	INTERIOR DECORATION \$	5	-	-	5
6.3.2	36682	FASHION DRAPING@				
6.4	36564	FASHION CAD PRACTICAL	-	-	5	5
6.5	36565	FASHION CONCEPTS AND DESIGN PRACTICAL	-	-	5	5
6.6	36566	HANDICRAFTS PRACTICAL@	-	-	5	5
6.7	36567	PROJECT WORK	-	-	4	4
	SEMINAR		1	-	-	1
	TOTAL		16	-	19	35

\* Common subject with Diploma in Textile Technology

@ Common subject with Diploma in Garment Technology

\$ Common with Diploma in Fashion Technology

# Common subject with Diploma in Textile Processing

@ Common subject with Diploma in Garment Technology

\*\* Common subject with Circuit Branches

**DIPLOMA IN APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN)**Course code: 1226L Scheme**SCHEME OF EXAMINATION****THIRD SEMESTER**

S.No.	Subject Code	SUBJECT	Examination Marks			Minimum for pass	Duration of Exam Hours
			Internal assessment Marks	Board Exam. Marks	Total Mark		
3.1	36631	FIBRE SCIENCE AND YARN MANUFACTURE @	25	75	100	40	3
3.2	37832	ART OF SKETCHING AND DRAWING \$	25	75	100	40	3
3.3	36633	APPAREL DESIGNING @	25	75	100	40	3
3.4	36534	FASHION SKETCHING AND DRAWING PRACTICAL	25	75	100	50	3
3.5	36535	EMBROIDERY PRACTICAL @	25	75	100	50	3
3.6	36536	APPAREL DESIGNING PRACTICAL@	25	75	100	50	3
3.7	30001	COMPUTER APPLICATIONS PRACTICAL**	25	75	100	50	3
TOTAL			175	525	700		

**FOURTH SEMESTER**

S.No.	Subject Code	SUBJECT	Examination Marks			Minimum for pass	Duration of Exam Hours
			Internal assessment Marks	Board Exam Marks	Total Mark		
4.1	36681	HOME TEXTILES®	25	75	100	40	3
4.2	36142	TECHNOLOGY OF FABRIC MANUFACTURE#	25	75	100	40	3
4.3	36643	CLOTHING MACHINERY AND EQUIPMENT@	25	75	100	40	3
4.4	36644	PATTERN DRAFTING AND CONSTRUCTION-I @	25	75	100	40	3
4.5	36545	HOME TEXTILES PRACTICAL	25	75	100	50	3
4.6	36546	PATTERN DRAFTING AND CONSTRUCTION- I PRACTICAL	25	75	100	50	3
4.7	30002	LIFE AND EMPLOYABILITY SKILL PRACTICAL**	25	75	100	50	3
TOTAL			175	525	700		

# Common subject with Diploma in Textile Processing

@ Common subject with Diploma in Garment Technology

\*\* Common subject with Circuit Branches



## FIFTH SEMESTER

S.No	Subject Code	SUBJECT	Examination Marks			Minimum for pass	Duration of Exam Hours
			Internal assessment Marks	Board Exam. Marks	Total Mark		
5.1	37851	CHEMICAL PROCESSING AND TESTING OF TEXTILES \$	25	75	100	40	3
5.2	37852	APPAREL PRODUCTION AND QUALITY CONTROL \$	25	75	100	40	3
5.3	36653	PATTERN DRAFTING AND CONSTRUCTION- II <sup>@</sup>	25	75	100	40	3
5.4	<b>ELECTIVE I</b>						
5.4.1	36671	APPAREL MERCHANDISING <sup>@</sup>	25	75	100	40	3
5.4.2	36672	INDIAN AND WESTERN COSTUMES <sup>@</sup>					
5.5	36555	CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL	25	75	100	50	3
5.6	36556	FASHION ILLUSTRATION AND ACCESSORIES PRACTICAL	25	75	100	50	3
5.7	36557	PATTERN DRAFTING AND CONSTRUCTION- II PRACTICAL	25	75	100	50	3
	TOTAL		175	525	700		

@ Common subject with Diploma in Garment Technology

\$ Common with Diploma in Fashion Technology

## SIXTH SEMESTER

S.No.	Subject Code	SUBJECT	Examination Marks			Minimum for pass	Duration of Exam Hours
			Internal assessment Marks	Board Exam Marks	Total Mark		
6.1	36061	TEXTILE MANAGEMENT*	25	75	100	40	3
6.2	37862	FASHION CONCEPTS AND DESIGN TECHNIQUE \$	25	75	100	40	3
6.3	ELECTIVE II						
6.3.1	37881	INTERIOR DECORATION \$	25	75	100	40	3
6.3.2	36682	FASHION DRAPING@					
6.4	36564	FASHION CAD PRACTICAL	25	75	100	50	3
6.5	36565	FASHION CONCEPTS AND DESIGN PRACTICAL	25	75	100	50	3
6.6	36566	HANDICRAFTS PRACTICAL@	25	75	100	50	3
6.7	36567	PROJECT WORK	25	75	100	50	3
		TOTAL	175	525	700		

\* Common subject with Diploma in Textile Technology

@ Common subject with Diploma in Garment Technology

\$ Common with Diploma in Fashion Technology

## DIPLOMA IN APPLIED ARTS AND CRAFTS (FASHION & APPAREL DESIGN)

### ALTERNATIVE SUBJECT

#### ‘L’ SCHEME TO ‘M’ SCHEME

Sub. code	SUBJECTS IN THE L – SCHEME	PROPOSED SUBJECTS ( M - SCHEME)
<b>III SEMESTER W.E.F. OCT ‘16</b>		
26631	FIBRE SCIENCE AND YARN MANUFACTURE @	36631 FIBRE SCIENCE AND YARN MANUFACTURE @
27832	ART OF SKETCHING AND DRAWING \$	37832 ART OF SKETCHING AND DRAWING \$
26633	APPAREL DESIGNING @	36633 APPAREL DESIGNING @
26534	FASHION SKETCHING AND DRAWING PRACTICAL	36534 FASHION SKETCHING AND DRAWING PRACTICAL
26535	EMBROIDERY PRACTICAL @	36535 EMBROIDERY PRACTICAL @
26536	APPAREL DESIGNING PRACTICAL @	36536 APPAREL DESIGNING PRACTICAL @
20001	COMPUTER APPLICATIONS PRACTICAL**	30001 COMPUTER APPLICATIONS PRACTICAL**
<b>IV SEMESTER – W.E.F. APR ‘17</b>		
26641	HOME TEXTILES @	36681 HOME TEXTILES @
26142	TECHNOLOGY OF FABRIC MANUFACTURE#	36142 TECHNOLOGY OF FABRIC MANUFACTURE#
26643	CLOTHING MACHINERY AND EQUIPMENT @	36643 CLOTHING MACHINERY AND EQUIPMENT @
26644	PATTERN DRAFTING AND CONSTRUCTION-I @	36644 PATTERN DRAFTING AND CONSTRUCTION-I @
26545	HOME TEXTILES PRACTICAL	36545 HOME TEXTILES PRACTICAL
26546	PATTERN DRAFTING AND CONSTRUCTION- I PRACTICAL	36546 PATTERN DRAFTING AND CONSTRUCTION- I PRACTICAL
20002	COMMUNICATION AND LIFE SKILLS PRACTICAL**	30002 LIFE AND EMPLOYABILTY SKILL PRACTICAL**
<b>V SEMESTER W.E.F OCT ‘17</b>		
27851	CHEMICAL PROCESSING AND TESTING OF TEXTILES \$	37851 CHEMICAL PROCESSING AND TESTING OF TEXTILES \$
27852	APPAREL PRODUCTION AND QUALITY CONTROL \$	37852 APPAREL PRODUCTION AND QUALITY

		CONTROL \$
26653	PATTERN DRAFTING AND CONSTRUCTION- II <sup>@</sup>	36653 PATTERN DRAFTING AND CONSTRUCTION- II <sup>@</sup>
26671	APPAREL MERCHANDISING <sup>@</sup>	36671 APPAREL MERCHANDISING <sup>@</sup>
26672	INDIAN AND WESTERN COSTUMES <sup>@</sup>	36672 INDIAN AND WESTERN COSTUMES <sup>@</sup>
26555	CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL	36555 CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL
26556	FASHION ILLUSTRATION AND ACCESSORIES PRACTICAL	36556 FASHION ILLUSTRATION AND ACCESSORIES PRACTICAL
26557	PATTERN DRAFTING AND CONSTRUCTION- II PRACTICAL	36557 PATTERN DRAFTING AND CONSTRUCTION- II PRACTICAL
<b>VI SEMESTER W.E.F. APR '18</b>		
26061	TEXTILE MANAGEMENT*	36061 TEXTILE MANAGEMENT*
27862	FASHION CONCEPTS AND DESIGN TECHNIQUE \$	37862 FASHION CONCEPTS AND DESIGN TECHNIQUE \$
27881	INTERIOR DECORATION \$	37881 INTERIOR DECORATION \$
26682	FASHION DRAPING <sup>@</sup>	36682 FASHION DRAPING <sup>@</sup>
26564	FASHION CAD PRACTICAL	36564 FASHION CAD PRACTICAL
26565	FASHION CONCEPTS AND DESIGN PRACTICAL	36565 FASHION CONCEPTS AND DESIGN PRACTICAL
26566	HANDICRAFTS PRACTICAL <sup>@</sup>	36566 HANDICRAFTS PRACTICAL <sup>@</sup>
26567	PROJECT WORK	36567 PROJECT WORK

**Board Examination - Question paper pattern**

**Common for all theory subjects**

***PART A - (1 to 8) 5 Questions are to be answered out of 8 questions for 2 marks each. (Question No. 8 will be the compulsory question and can be asked from any one of the units) (From each unit maximum of two 2 marks questions alone can be asked)***

***PART B - (9 to 16) 5 Questions are to be answered out of 8 questions for 3 marks each. (Question No. 16 will be the compulsory question and can be asked from any one of the units) (From each unit maximum of two 3 marks questions alone can be asked)***

***PART C - (17 to 21) Five Questions will be in the Either OR Pattern. Students have to answer these five questions. Each question carries 10 marks. (Based on the discretion of the question setter, he/she can ask two five mark questions (with sub division A & sub division B) instead of one ten marks question if required)***

**Any additional requirement, if necessary, should be mentioned in the question pattern. Graph sheet, Inch graph for design etc..**

**III SEMESTER**

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

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M – SCHEME

III SEMESTER

2015 – 2016 ONWARDS

**FIBRE SCIENCE AND YARN  
MANUFACTURE**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU  
DIPLOMA IN APPLIED ARTS AND CRAFTS  
M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name :DIPLOMA IN APPLIED ARTS AND CRAFTS  
(FASHION AND APPAREL DESIGN)

Course Code : 1226

Subject Code : 36631

Semester : III Semester

Subject Title : FIBRE SCIENCE AND YARN MANUFACTURE

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours/Week	Hours/Semester	Marks			
36631 FIBRE SCIENCE AND YARN MANUFACTURE	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	INTRODUCTION AND NATURAL FIBRES	14
II	SYNTHETIC FIBRES	14
III	YARN MANUFACTURING PROCESS	14
IV	POST SPINNING AND MAN MADE FILAMENT PROCESSING	13
V	COMMERCIAL YARNS	13
	TEST & REVISION	7
Total		75

**RATIONALE:**

Textile begins with Fibres. The introduction to Fibre science is the basics for all Textiles and Garment related manufacturing. The application of fibre science makes the industries to produce right kind of products with required properties and end usage. The yarn



manufacture part of this section provides a basic knowledge on the manufacturing of different types of yarn in the textile industry. This will make the students to select the appropriate raw material for Garment production.

The various divisions of Fibre science and Yarn Manufacture like Introduction and Natural Fibres, Synthetic Fibres, Yarn Manufacturing Process, Post Spinning and Man Made Filament Processing, Commercial yarns provide the foundation by enlightening the **Type of Fibres that dominates the Textile products, the basic production processes of yarn manufacturing and the different types of commercial yarns available in the markets.**

#### **OBJECTIVES:**

At the end of the study of III Semester the student will be able to

- Understand the classification & importance of Textile fibres.
- Acquire knowledge on properties and uses of Natural, Man-made, Synthetic fibres
- Study the manufacturing processes of Viscose Rayon, Polyester and Nylon 6 & 66
- Know the production sequence of Combed & Carded yarns.
- Gain knowledge on the latest spun yarn production systems.
- Understand the Post spinning process sequence.
- Learn about Texturisation, its types and manufacturing.
- Understand the types, properties and uses of fancy yarns.
- Study the manufacturing details of sewing thread.
- Understand the properties & uses of specialty fibres.

## 36631 FIBRE SCIENCE AND YARN MANUFACTURE

### DETAILED SYLLABUS

Contents: Theory

Unit	Name of the Topics	Hours
I	<b>INTRODUCTION AND NATURAL FIBRES</b> Textile Fibres – Definition – Classification – Important properties of an ideal Textile Fibre. Identification of Textile Fibres (Cotton, Silk, Wool, Polyester, Nylon and Acrylic) - Burning test, Solvent test and Microscopic appearance. Cotton fibres – Content – Indian varieties - Physical and Chemical properties – uses. Linen and Flax fibres - uses. Silk Fibre – Varieties - degumming of silk – Weighting of silk - Properties - Uses. Wool fibre – Varieties based on fleece – Properties and uses.	14 Hrs
II	<b>SYNTHETIC FIBRES</b> Manmade fibre spinning techniques - Wet, Melt, Dry spinning system. Viscose rayon – Manufacturing flow chart - Properties and uses. Properties uses of Lyocel, Modal and Bamboo. Polyester fibre (PET) – Manufacture flow chart - Properties and uses. Nylon 6-6 fibre – Manufacturing flow chart – Properties and uses. Acrylic fibre – Manufacturing flow chart – Properties and uses. Properties and uses of Nomex and Kevlar.	14 Hrs
III	<b>YARN MANUFACTURING PROCESS</b> Ginning – definition- Objects of Mixing and Blending – Sequence of processes involved in Carded and Combed yarn manufacturing- Objects of blow room , carding, drawing, comber, simplex & ring frame – Brief study of open end spinning – Differences between carded and combed yarn – Differences between ring yarn and OE yarn - Brief study of Compact, Friction and Air-jet spun yarn production systems.	14 Hrs
IV	<b>POST SPINNING AND MAN-MADE FILAMENTS PROCESSING</b> Doubling – Objects – Passage of material through doubling. Two for One Twister – Objects – Passage of material through Two for One Twister. Brief study of Reeling and Bundling processes. Filament yarn and Staple fibre manufacturing process. Texturisation - Definition – Objects – Study of texturing of yarn by Stuffer box, Flase twist and Air Texturisation methods.	13 Hrs

<b>V</b>	<p><b>COMMERCIAL YARNS</b></p> <p>Definition of – Slub yarns – Flock or Flake yarns – Boucle yarn – Gimp yarn – Spot and Knot yarns – Loop or Curl yarn – Grandrelle yarns – Spiral or Cork screw yarns – Chenille yarn – Covered yarn – Core yarn – Faciated yarn – mélange yarns- Elastomeric yarns – Metallic yarns– (No method of production details).</p> <p>Sewing threads – Manufacturing flow chart for cotton and spun polyester sewing thread manufacture, 2 ply &amp; 3 ply yarns, Embroidery threads – Properties of Viscose Rayon and Trilobal polyester thread.</p>	<b>13 Hrs</b>
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**Text Book :**

Title	Author	Publisher	Year
A Text book of Fibre science and Technology	S.P.Mishra	New Age International Pvt. Ltd, Delhi- 110002	2005
Yarn Preparation	Sengupta	The Textile Institute, Manchester, UK	1970
Textiles Fibre to Fabric	Corbman	Mc Graw-Hill international editions, Singapore	1983
Textile Science	E.P.G. Gohl, L.D.Vilensky	CBS Publishers & Distributers, Delhi.	1990
Textile Terms and definitions	The Textile Institute, UK	The Textile Institute, UK	1975
Man-Made fibres	William Moncrieff	Butter worth & Co. Ltd., London	1975

**Reference:**

Title	Author	Publisher	Year
Manual of cotton Spinning	Shirley. C	The Textile Institute, Manchester, UK	1965
Practical guide to opening & Carding	Klein.W	The Textile Institute, Manchester, UK	1987
Open End Spinning	Rohlana	Elsavier Scientific Publishing Co.,	1974
Handbook of Textile fibres Vol I & II- Natural Fibres	J.Gardon Cook	Wood Head Publishing Ltd	2005
Spinning of Man-mades and Blends on Cotton	Salhotra K R	Textile Association(India), Mumbai	-



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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III SEMESTER

2015 – 2016 ONWARDS

**ART OF SKETCHING AND  
DRAWING**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU  
DIPLOMA IN APPLIED ARTS AND CRAFTS  
M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
(FASHION AND APPAREL DESIGN)  
Course Code : 1226  
Subject Code : 37832  
Semester : III Semester  
Subject Title : ART OF SKETCHING AND DRAWING

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours/W eek	Hours/Seme ster	Marks			
37832 ART OF SKETCHING AND DRAWING	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	TOOLS AND EQUIPMENT	14
II	HUMAN FIGURE DRAWING	14
III	TEXTURE EFFECTS	14
IV	DRAWING AND PAINTING TECHNIQUES	13
V	DESIGN DEVELOPMENT	13
	TEST & REVISION	7
TOTAL		75

**RATIONALE:**

Fashion designing is the very important work for design development process. For developing fashion designing the basic fundamental of freehand drawing and the

brush using technique knowing is very important. The Art of sketching and Drawing subject provides in depth knowledge on sketching, drawing, colouring, creation of styles, illusions and fashion industry work nature.

**OBJECTIVES:**

At the end of the study of III Semester the student will be able to

- Know about different tools & equipments used for drawing.
- Understand the normal figure into fashion figure.
- Know the proportionate drawing of human figure.
- Know the method of drawing human parts.
- Know about tendering colour drawing techniques.
- Understand to create variety of texture effect.
- Know the fabric painting technique.
- Understand knowledge on using of poster colour on paper.
- Understand the design development process.
- Know the drawing techniques of transparent effect.

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**37832 ART OF SKETCHING & DRAWING**  
**DETAILED SYLLABUS**

Contents: Theory

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<p><b>TOOLS AND EQUIPMENT.</b></p> <p>Tools and equipment for drawing – Pencil types and uses, Brushes types and uses, Crayons types and uses.</p> <p>Object drawing modelling – Plane and solid geometry – Perspective – Vanishing Point. Introduction to Indoor and Outdoor Sketching – Line Sketches and Shadow sketches – Using various directions of lights sources of object. Analyzing normal figure into fashion figure.</p>	<b>14 Hrs</b>
<b>II</b>	<p><b>HUMAN FIGURE DRAWING.</b></p> <p>Figure Proportions of Male, Female and Child – Mechanical Principles of the human frame – Relative proportions of Bones by Head – Method of Drawing figure – Drawing of different postures – Brief study of method of drawing human parts – Head –Neck –Mouth – Nose – Arms – Hands – Legs – Foot - Sectional Drawing of Male &amp; Female torso. Instruction in drawing the male and female fashion figure.</p>	<b>14Hrs</b>
<b>III</b>	<p><b>DEVELOPMENT OF TEXTURE EFFECTS.</b></p> <p>Textures – Use of different textures on surfaces- flat rendering Techniques, Wax Resist, Wax Crayon, Sponged and Collage.</p> <p>Fabric Presentation – Rendering work drawing of Quilting, Satin, Faux fur, Wool, Lace, Fringing, Knitted Velvet and Viscose.</p>	<b>14Hrs</b>



<b>IV</b>	<p><b>DRAWING AND PAINTING TECHNIQUES.</b></p> <p>Knowledge of Tools &amp; Materials for fabric Painting – Application on Fabric – Study of Painting Techniques – Spray– Dry Brush– Wet Brush-Thread –Water colour Painting on Paper – Methods – Application – Poster colour Painting on paper – Methods – Applications. Brief study on Drawing techniques using soft pencils – Ink – Oil Pastel – Acrylic- Fundamentals of quick sketching to communicate design ideas. Simple methods for making quick sketches to illustrate style information.</p>	<b>13 Hrs.</b>
<b>V</b>	<p><b>DESIGN DEVELOPMENT</b></p> <p>Basic body types - clothing silhouettes- Stylized Drawing from imagination. Developing a range of fashionable garment from basic silhouette. Drawing forms – Using water colour for Transparent effect – Drawing opacity effect with poster colour – Colour Pencil for Transparent effect. Design Development from Photography- the use of line movement, proportion and color to achieve flattering marketable fashion design.</p>	<b>13Hrs</b>

**Text Book:**

Title	Author	Publisher	Year
Art in everyday life	Goldstein and Goldstein		
Elements of Design & Apparel Design	Sumathi.G.J	New Age International, Delhi	2002
Illustrating Fashion	Kathryn McKelvey & Janine Munslow	Blackwell Publishing	2005
Fashion Design Process, Innovation & Practice	Kathryn McKelvey & Janine Munslow	Blackwell Publishing	2003

**Reference:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
The Psychology of dress	Frank Alvah	Double day Page & Co. Newyork.	1999
The arts of costume & Personal appearance	Grace Margarit Morton	John wiley&Sons London.	2001
How you look and dress	Byrta Carson	Megraw - Hill Book co.London.	1998
Fabrics and dress	Ruthtone and Tarplay	Houghton Mifflin London	1995
Elementry Costume design	Harisonfeather	JohnWileyandSons Stone Dorothy	
Individuality and Cloths	Margaret story	Funle&WsanallsLippio ncott.	2004
Essential of Design	Degrmo Winslow	MacillionCo.New York.	
Men's wardrobe	Thames and Hudson	London	2006
Fashion The Century Of The Designer	Charlotte Seeling		
Type &Color	Alton cook & Robert Fleury	RockPort Publishers	1989
Art & Fashion	Dr.AliceMackrell	Batsford Publication	2005

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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III SEMESTER

2015 – 2016 ONWARDS

**APPAREL DESIGNING**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPAREL ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN)  
 Course Code : 1226  
 Subject Code : 36633  
 Semester : III Semester  
 Subject Title : APPAREL DESIGNING

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours/Week	Hours/Semester	Marks			
36633 APPAREL DESIGNING	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	BASICS OF APPAREL DESIGN	14
II	PATTERN LAYOUT	14
III	SEAM, SEAM FINISHES AND PLACKETS	14
IV	YOKE, COLLARS AND SLEEVES	13
V	CUFF, POCKETS AND FULLNESS.	13
	TEST & REVISION	7
Total		75

**RATIONALE:**

Style of every garment needs various design techniques for improvising the garment. The garment construction includes various types of stitches, seams, collars, cuffs, plackets, pockets, neckline finishes and fullness effect. Each and every item is used depending on the

style, the personality of the wearer, the occasions and the aesthetics. This subject enriches the knowledge on the design techniques of the various parts of the garment so as to make it perfect and beautiful.

**OBJECTIVES:**

At the end of the study of III Semester the student will be able to

- Understand the importance of Human Anatomy.
- Learn the basics of Measurements, Fabric Details and Garment construction.
- Learn different types of Seams.
- Understand the types of Plackets.
- Understand the types of Yokes.
- Study the selection of Collars and Neckline finishes.
- Know about Sleeves and its types.
- Learn different types of Pockets.
- Understand the types of Darts, Pleats and Tucks.
- Understand the types of Gathers Shirrs, Flares, Godets and Frills.

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## 36633 APPAREL DESIGNING

### DETAILED SYLLABUS

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>BASICS OF APPAREL DESIGN</b> Eight head theory and its importance in apparel manufacturing, Garment Construction Tools & Equipment – Measuring, Marking, Cutting, Pressing and General tools. Measurements – Importance, Procedure for taking measurements and Various body measurements for Kid's, Lady's & Gent's. Pattern – Definition and importance of paper patterns, Types and its merits and demerits of patterns. Fabric Details – Kinds of fabrics for Garment Constructions- Plain, Striped, Checked, Napped, Pile, one way, Printed designs.	14 Hrs
II	<b>PATTERN LAYOUT</b> Fabric grains – types of grain and its importance. Principles in pattern making – Pattern layout and its importance – Principles in pattern layout – Different types fabric folding for layout – Special types of Layout – Procedure for economical layout- Insufficient fabric layout – Marshdan layout for bulk production and its importance –Type of Lays – Lay length and marker – Marker efficacy – Lay efficiency.	14 Hrs
III	<b>SEAMS, SEAM FINISHES &amp; PLACKETS</b> Seams – Definition- Different types of seams- Plain, French, Welt seam, Top stitch seam. Seam finishes- Piped, crossed, Bound and Pinked. Hems – definition – types of hems – Slip, Catch stitch, Invisible, Herring bone. Plackets & Openings – definition- characteristics of good plackets. Types of plackets – One piece, Two pieces, Tailored and Zipper plackets.	14 Hrs
IV	<b>YOKE, COLLARS AND SLEEVES</b> Yoke – definition- selection of yoke design. Different types of yokes – Partial, Midriff, and Yoke with fullness. Collars – Types of collar like Shirt, Stand, Ruffle, Roll, Shawl, Peter pan, Square and Neck line finishes. Sleeves – types of sleeves such as Plain, Puff, Bell, Circular, Leg-O-mutton, Magyar, and Raglan sleeves.	13 Hrs.

<b>V</b>	<p><b>CUFFS, POCKETS AND FULLNESS</b></p> <p>Types of cuffs - Round, Gauntlet and pointed. Pockets - Different types of pockets such as Patch, Welt, front Hip and Set in pocket. Fullness – definition, Single and double pointed darts, Relocation of dart by slash and spread method. Types of tucks like pin tuck, cross tuck, piped tuck, shell tuck and importance, Types of pleats like Knife pleat, Box pleat, Kick pleat, Cartridge pleat, Pinch pleat and its importance. Gathers and Frills.</p>	<b>13 Hrs</b>
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**Text Book:**

Title	Author	Publisher	Year
Practical clothing construction Part I & II	Mary Mathews	Bhattarans Reprographics (P) Ltd., Chennai.	<b>1974</b>
The Art of Sewing	Anna Jacob Thomas	UBS Publisher, Delhi	<b>2001</b>
Practical dress Design	Enwin, M.D.	The MacMillan Comp., New York.	<b>1982</b>

**Reference:**

Title	Author	Publisher	Year
Complete guide to sewing	Reader's digest sewing guide	The reader's digest Association, Inc. New York.	<b>1976</b>



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(FASHION AND APPAREL DESIGN)

II YEAR

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M – SCHEME

III SEMESTER

2015 – 2016 ONWARDS

**FASHION SKETCHING AND  
DRAWING PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE



**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name :DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN)  
 Course Code : 1226  
 Subject Code : **36534**  
 Semester : III Semester  
 Subject Title : FASHION SKETCHING AND DRAWING PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject	Instruction		Examination			Duration	
	Hours/ Week	Hours/ Semester	Assessment Marks				
36534  FASHION SKETCHING AND DRAWING (PRACTICAL)	5	75	Internal Marks			Board Exam	Total
			10	10	5		
			25	75	100	3 Hrs	

**RATIONALE:**

In Diploma level engineering education skill development plays a vital role. The skill development can be achieved by providing practical experience in creating sketches and drawings of fashionable styles of garment for various purposes. The colour aspects and illusion effects are also understood through drawings.

**GUIDELINES:**

- All the twelve experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate drawing table for exposing the skills in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than three students while examining a batch of 30 students during Board Examinations.

**ALLOCATION OF MARKS**

Drawing Experiment	60 marks
Write up	10 marks
Viva	05 marks
Total	75 Marks

## THIRD SEMESTER

### 36534 FASHION SKETCHING AND DRAWING PRACTICAL

#### EXPERIMENTS OBJECTIVES:

##### HUMAN ANATOMY

To draw an Object - Modeling – Plane and solid geometry – perspective – Vanishing point.

To draw an object using various directions of light sources of objects.

To Draw a human anatomy (men & Women) based on 8 head theory.

To Draw a human anatomy shape / sizes / and movements.

Draw a proportionate figure for child / men / Women.

##### FASHION FIGURE DRAWING

To Draw a stick figure for both normal and the fashion figure.

To Draw forms – using water colour for transparent effect.

To Analyse the normal figure in to the fashion figure front pose to be done using pictures from the magazines.

Analyzing the profile of a normal figure into a fashion figure to be done using pictures from the magazines.

##### DRAWING WITH COLOURS

To Draw an object using acrylic paint.

To Draw a design with rendering print combination with checks.

To Draw a design with rendering print combination with checks.

To Draw a design with rendering print combination with stripes.

To Draw a garment design from a photograph.

## 36534 FASHION SKETCHING AND DRAWING PRACTICAL

### LIST OF EQUIPMENT

Drawing table- 30 nos.

### Materials required :

Chart paper- A4/ A3 size- 30 nos. / expt./ batch of 30 students.

Drawing tools & colouring tools- 30nos./expt./ batch of 30 students.

Pencil (HB,2B)

Poster Color

Water color

Color pencil

Paint

Brushes ( Different sizes)

Scale

Palette

Crayons

### Material required :

Drawing Sheet, Leather Board.

## THIRD SEMESTER

### 36534 FASHION SKETCHING AND DRAWING PRACTICAL

#### List Of Experiments:

1. Objects drawing - Modelling – Plane and solid geometry – perspective – Vanishing point.
2. Indoor sketching like – line sketches and shadow sketches – using various directions of light sources of objects.
3. Draw a human anatomy (men) based on 8 head theory.
4. Draw a human anatomy (women) based on 8 head theory.
5. Draw a human anatomy shape / sizes / and movements.
6. Draw a proportionate figure for child / men / Women.
7. Draw a stick figure for both normal and the fashion figure.
8. Drawing forms – using water colour for transparent effect.
9. Analyzing the normal figure in to the fashion figure front pose to be done using pictures from the magazines.
10. Analyzing the profile of a normal figure into a fashion figure to be done using pictures from the magazines.
11. Draw an object using acrylic paint.
12. Draw a design of various dress forms.

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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III SEMESTER

2015 – 2016 ONWARDS

**EMBROIDERY PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name: DIPLOMA IN APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN)

Course Code :1226

Subject Code :36535

Semester :III Semester

Subject Title : EMBROIDERY PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION :**

No of weeks per semester: 15 weeks

Subject	Instruction		Examination					
			Assessment Marks					
36535 EMBROIDERY PRACTICAL	Hours/Week	Hours/Semester	Internal Marks			Board Exam	Total	Duration
			10	10	5			
	5	75	25			75	100	3 Hrs.

**RATIONALE:**

Value addition to garment and made-ups are achieved through enriching the products with decorative items. Embroidery is one of the decorative techniques and is made either through Hand or Machine embroidery. Now a days both domestic and international market demand is towards embroidered textile and garment materials.

This practical subject provides hands on experience on the types of embroidery techniques, the stitches and the type of tools and equipment used in garment industry.

**GUIDELINES:**

- All the sixteen experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate sewing machines with embroidery frame and threads for exposing the skills in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than two students while examining a batch of 30 students during Board Examinations.

### **ALLOCATION OF MARKS**

Experiment	50 marks
Write up	20 marks
Viva	05 marks
Total	<u>75 Marks</u>

### **THIRD SEMESTER 36535 EMBROIDERY PRACTICAL**

#### **EXPERIMENTS OBJECTIVES:**

##### **HAND EMBROIDERY**

- Prepare Embroidery Design using Running & Double running stitches.
- Prepare Embroidery Design using Stem & Back stitches.
- Prepare Embroidery Design using Chain Stitch & three of its variations.
- Prepare Embroidery Design using Lazy Daisy Stitch & three of its Variations.
- Prepare Embroidery Design using Button hole Stitch & three of its Variations.
- Prepare Embroidery Design using Blanket stitch.
- Prepare Embroidery Design using Fly Stitch.
- Prepare Embroidery Design using Fish-Bone & herring bone stitches.
- Prepare Embroidery Design using Feather & three of its Variations.
- Prepare Embroidery Design using Knot & three of its Variations.
- Prepare Embroidery Design using Satin Stitch
- Prepare Embroidery Design using Zardoshi work.
- Prepare Embroidery Design using Stone work.

##### **Machine Embroidery.**

- Prepare Embroidery Design using Running Stitch
- Prepare Embroidery Design using Cording stitch.
- Prepare Embroidery Design using Satin stitch.

**THIRD SEMESTER  
36535 EMBROIDERY PRACTICAL**

**LIST OF EQUIPMENT**

**Hand / Machine embroidery tools & machineries:-**

Embroidery frame- 30 nos.  
Hand needles- 30 nos.  
Tracing wheel- 30 nos.  
Thimbles- 30 nos.

**Embroidery machines:**

Lock stitch sewing or embroidery machine- 30 nos.  
Zig -Zag machine\*  
Fashion Maker\*  
Multi head multi needle embroidery machine\*

\*- **Optional**

**Materials required:**

2 meter fabric/ expt/ batch of 30 students  
1 meter Non-woven or Sponge sheet/ expt/ batch of 30 students  
10 sheets of tracing paper/expt/batch of 30 students  
Embroidery threads- 30skeins of assorted colors/expt/ batch of 30 students

**THIRD SEMESTER  
36535 EMBROIDERY PRACTICAL**

**LIST OF EXPREIMENTS**

1. Prepare Embroidery Design using Running Stitch & Double running.
2. Prepare Embroidery Design using Stem Stitch & Back stitch.
3. Prepare Embroidery Design using Chain Stitch.
4. Prepare Embroidery Design using Lazy Daisy Stitch.
5. Prepare Embroidery Design using Button hole Stitch.
7. Prepare Embroidery Design using Fly Stitch.
8. Prepare Embroidery Design using Fish-Bone or Herring bone.
9. Prepare Embroidery Design using Knot.
10. Prepare Embroidery Design using Satin Stitch.
11. Prepare Embroidery Design using Zardoshi and stone work.
12. Prepare Machine Embroidery Design using satin stitch.

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

www.binils.com

III SEMESTER

2015 – 2016 ONWARDS

**APPAREL DESIGNING PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU  
DIPLOMA IN APPLIED ARTS AND CRAFTS  
M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Code : 1226

Subject Code : **36536**

Semester : III Semester

Subject Title : APPAREL DESIGNING PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION:**

**No of weeks per semester: 15 weeks**

Subject	Instruction		Examination					
	Hours/Week	Hours/Semester	Assessment Marks			Duration		
36536  APPAREL DESIGNING PRACTICAL			Internal Marks			Board Exam	Total	Duration
			10	10	5			
	5	75	25			75	100	3 Hrs.

**RATIONALE:**

Style of every garment needs various design techniques for the parts of the garment. The garment construction includes various types of stitches, seams, collars, cuffs, plackets, pockets, neckline finishes and fullness effect. This practical subject provides hands on experience on the preparation of stitches, seams, collars, cuffs, plackets, pockets, neckline finishes and fullness effect that are major items of garment construction.

**GUIDELINES:**

- All the sixteen experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate sewing machines and required attachments for exposing the skills in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than two students while examining a batch of 30 students during Board Examinations.

**ALLOCATION OF MARKS**

Experiment	50 marks
Write up	20 marks
Viva	05 marks
Total	<u>75 Marks</u>

**THIRD SEMESTER  
36536 APPAREL DESIGNING PRACTICAL**

**EXPERIMENTS OBJECTIVES:**

**Seams, Seam finishes & Hems**

- To Construct Seams – Plain, French, Welt seam- Top stitch seam,
- To Construct seam finishes- Piped, crossed, Bound, Pinked
- To Construct Hems– Slip, Catch stitch, Invisible, Herring bone.

**Plackets & Pockets**

- To Construct Plackets– One piece, Two piece, Tailored, Zipper.
- To Construct Pockets– Patch, Welt, Bound, front Hip and Pocket in seam pockets..

**Sleeves**

- To Prepare patterns and Construct Plain sleeve.
- To Prepare patterns and Construct Puff sleeve
- To Prepare patterns and Construct Bell sleeve.

**Collars**

- To Prepare patterns and Construct Shirt collar.
- To Prepare patterns and Construct Peter pan collar.
- To Prepare patterns and Construct Shawl collar.

**Darts, Pleats and Tucks**

- To Construct different types of Darts and Godets.
- To Relocate darts by slash and spread method in the given bodice block.
- To Construct Knife, Box, Cartridge and Pinch pleats.
- To Construct Tucks– pin tuck, cross tuck, piped tuck, shell tuck.

**Frills, Gathers & Neck line finishes**

- To Construct different types of Frills and Gathers.
- To Construct Neck Line Finishes–facings and bindings.

**THIRD SEMESTER  
36536 APPAREL DESIGNING PRACTICAL**

**LIST OF EQUIPMENT**

**Equipment required:**

Measuring tools

Pattern making tools

Construction tools

General tools

Sewing machines:- Lock stitch- 15 m/cs.  
Over lock- 2 m/c.  
Flat lock- 1 m/c  
Button hole- 1 m/c  
Button stitch- 1 m/c

**Materials required:**

3- 5 meters of fabric/ expt./ batch of 30 students.

Sewing threads:- white and assorted – 30 nos..

**THIRD SEMESTER  
36536 APPAREL DESIGNING PRACTICAL**

**LIST OF EXPERIMENTS**

1. Construct different types of Seams – any three.
2. Construct different types of Hems– any three.
3. Construct different types of Plackets– any three.
4. Construct different types of Pockets– any three.
5. Prepare patterns and Construct Plain sleeve.
6. Prepare patterns and Construct Puff sleeve
7. Prepare patterns and Construct Bell sleeve.
8. Prepare patterns and Construct Shirt collar.
9. Construct different types of Darts.
10. Construct Knife, Box, Cartridge and Pinch pleats.
11. Construct different types of Tucks– any three.
12. Construct different types of Frills and Gathers.
13. Construct different types of Neck Line Finishes– any two

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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III SEMESTER

2015 – 2016 ONWARDS

**COMPUTER APPLICATION  
PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

# STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU.

## M- SCHEME

(Implemented from the academic year 2016-2017 onwards)

Course Name : For All Branches

Subject Code : 30001

Semester : III

Subject title : COMPUTER APPLICATIONS PRACTICAL

### TEACHING & SCHEME OF EXAMINATION:

No. of weeks per Semester: 15 Weeks

Course	Instruction		Examination			Duration
			Max.			
	Hours/ week	Hours/ Semester	Internal Assessment	Board Examination	Total	
COMPUTER APPLICATIONS PRACTICAL	4Hrs	60 Hrs	25	75	100	3Hrs

#### RATIONALE:

The application of Computer knowledge is essential the students of all disciplines of Engineering in addition to their respective branch of study. The Computer Application Practical course facilitates the necessary knowledge and skills regarding creating, working and maintaining the documents and presentation of documents with audio visual effects in a computer and produces necessary skills in E- Learning and Chatting tools..

#### OBJECTIVES:

On completion of the following exercises, the students will be able to

- Use the GUI operating systems
- Familiarize and customize the desktop
- Use the different facilities available in the word processor
- Prepare Power Point presentation with different formats
- Expose E-learning tools and chatting tools
- Analyze the datasheet
- Create and manipulate the database
- Create different types of charts
- Prepare PowerPoint presentation

- Understand Internet concepts and usage of e-mail

#### **GUIDELINES:**

- All the experiments given in the list of experiments should be completed and all the experiments should include for the end semester practical examination.
- The computer systems should be 1:1 ratio for practical classes

## **SYLLABUS LAB EXERCISES SECTION – A**

### **GRAPHICAL OPERATING SYSTEM**

Introduction to GUI OS; Features and various versions of GUI OS & its use; Working with GUI OS; My Computer & Recycle bin ; Desktop, Icons and Explorer; Screen description & working styles of GUI OS; Dialog Boxes & Toolbars; Working with Files & Folders; simple operations like copy, delete, moving of files and folders from one drive to another, Shortcuts & Autostart; Accessories and Windows Settings using Control Panel- setting common devices using control panel, modem, printers, audio, network, fonts, creating users, internet settings, Start button & Program lists; Installing and Uninstalling new Hard ware & Software program on your computer - Copying in CD/DVD settings – Recording Audio files.

#### **Exercises**

1.
  - a. Installing screen saver and change the monitor resolution by 1280X960
  - b. Setting wall papers
  - c. Creating, moving, deleting and renaming a folder
  - d. Copy, paste and cut a folder/file
  - e. Displaying the properties for a file or folder
2.
  - a. Restoring files and folders from Recycle bin
  - b. Creating short cuts for folder/file
  - c. Finding a file or folder by name
  - d. Selecting and moving two or more files/folders using mouse
  - e. Sorting folders/files.

### **WORD PROCESSING**

Introduction to Word Processing – Examples- Creation of new documents, opening document, insert a document into another document. Page setup, margins, gutters, font properties, Alignment, page breaks, header footer deleting, moving, replace, editing text in document. Saving a document, spell checker.

Printing a document. Creating a table, entering and editing, Text in tables. Changing format of table, height width of row or column. Editing, deleting Rows, columns in table. Borders,

shading, Templates, wizards, drawing objects, mail merge.

### Exercises

3. Create the following table and perform the operations given below

DAYS	1	2	3	4	5	6	7	8
MON	←TEST→		A: JPP			CA	RDBMS	TUT
	B: RDBMS							
TUE	CA	OOP	CN	RDBMS	A: RDBMS			
					B: JPP			
WED	CN	RDBMS	OOP	RDBMS	COMMUNICATION		CN	CA
THU	OOP	A: JPP			CA	RDBMS	CN	OOP
		B: RDBMS						
FRI	COMMUNICATION		A: RDBMS		OOP	CN	RDBMS	CA
			B: JPP					
SAT	OOPS	RDBMS	CN	CA	-----			

4. Create a standard covering letter and use mail merge to generate the customized letters for applying to a job in various organizations. Also, create a database and generate labels for the applying organizations.
5. Create a news letter of three pages with two columns text. The first page contains some formatting bullets and numbers. Set the document background colour and add 'confidential' as the watermark. Give the document a title which should be displayed in the header. The header/ footer of the first page should be different from other two pages. Also, add author name and date/ time in the header. The footer should have the page number.

### SPREADSHEET

Introduction to Analysis Package – Examples - Concepts of Workbook & Worksheets; Using Wizards; Various Data Types; Using different features with Data, Cell and Texts; Inserting, Removing & Resizing of Columns & Rows; Working with Data & Ranges; Different Views of Worksheets; Column Freezing, Labels, Hiding, Splitting etc.; Using different features with Data and Text; Use of Formulas, Calculations & Functions; Cell Formatting including Borders & Shading; Working with Different Chart Types; Printing of Workbook & Worksheets with various options.

### Exercises



6. Create a result sheet containing Candidate's Register No., Name, Marks for six subjects. Calculate the total and result. The result must be calculated as below and failed candidates should be turned to red.

Result is Distinction if Total  $\geq 70\%$

First Class if Total  $\geq 60\%$  and  $< 70\%$

Second Class if Total  $\geq 50\%$  and  $< 60\%$

Pass if Total  $\geq 35\%$  and  $< 50\%$

Fail otherwise

Create a separate table based on class by using auto filter feature.

7. Create a table of records with columns as Name and Donation Amount. Donation amount should be formatted with two decimal places. There should be at least twenty records in the table. Create a conditional format to highlight the highest donation with blue color and lowest donation with red colour. The table should have a heading.

8. Create line and bar chart to highlight the sales of the company for three different periods for the following data.

**SALES BAR CHART**

Period	Product1	Product2	Product3	Total
JAN	35	40	50	125
FEB	46	56	40	142
MAR	70	50	40	160

## SECTION – B

### DATABASE

Introduction – Menus – Tool bar – Create – Edit – Save – Data types – Insert – Delete – Update – View – Sorting and filtering – Queries – Report – Page setup – Print.

#### Exercises

9. Create Database to maintain at least 10 addresses of your class mates with the following constraints

- Roll no. should be the primary key.
- Name should be not null

10. create a students table with the following fields: Sr.No, Reg. No, Name, Marks in 5 subjects. Calculate total and percentage of 10 students. Perform the following queries.

- To find the details of distinction student
- To find the details of first class students
- To find the details of second class students

11. Design a report for the above exercise to print the consolidated result sheet and mark card for the student.

## **PRESENTATION**

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Introduction - Opening new presentation, Parts of PowerPoint window – Opening -Saving and closing presentations - Features of PowerPoint, Background design, Word art, Clip art, Drawings,3D settings - Animations, Sound, Views, types of views - Inserting and deleting slides, arranging slides, slides show, rehearsal, setup show, custom show - Creating custom presentations, action setting, auto content wizard, working with auto content wizard

### **Exercises**

12. Make a marketing presentation of any consumer product with at least 10 slides.  
Use different customized animation effects on pictures and clip art on any four of the ten slides.
13. Create a Presentation about our institution or any subject with different slide transition with sound effect.

## **INTERNET**

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Introduction – Getting acquainted with Internet Connection - Browsers – Website URL - Open a website – Net Browsing - Email: Creating E-mail id – Sending , receiving and deleting E-mail - Email with Attachments – CC and BCC - Chatting – Creating Group mail - Google docs – Search Engines – Searching topics .

**Most Popular Social Networking Sites** : History – Features – Services – Usage of Face book , Twitter and Linkdn.

Transferring data through wifi / bluetooth among different devices.

**Introduction to cybercrime** – Software Piracy – Viruses – Antivirus Software

### **Exercises**

14. Create an e-mail id and perform the following
- Write an e-mail inviting your friends to your Birthday Party.
  - Make your own signature and add it to the e-mail message.
  - Add a word attachment of the venue route
  - Send the e-mail to at least 5 of your friends.
15. Create a presentation on Google docs. Ask your friend to review it and comment on it. Use “Discussion” option for your discussions on the presentation.

## Hardware and Software Requirements

### Hardware Requirements:

- Computers – 36Nos
  - Intel Core i3 Processor
  - 500 GB Hard Disk, 2 MB RAM
  - 14" Monitor
- Projector – 1 Nos
- Laser Printer – 1 No
- Internet Connection – Minimum of 512 KB

### Software Requirement

- Any GUI Operating System
- Open Source Software / MS- Office

#### 1. SemesterEndExamination–75 Marks

Content	Max.Marks
Writing Procedure – One Question from Section A	15
Demonstration	15
Results with Printout	5
Writing Procedure – One Question from Section B	15
Demonstration	15
Results with Printout	5
Viva voce	5
Total	<b>75MARK</b>

**IV SEMESTER**

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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IV SEMESTER

2015 – 2016 ONWARDS

**HOME TEXTILES**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

Course Code : 1226

Subject Code : 36681

Semester : IV Semester

Subject Title : HOME TEXTILES

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours/Week	Hours/Semester	Marks			
36681 HOME TEXTILES	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	INTRODUCTION, WALL & FLOOR COVERINGS	14
II	FURNITURE COVERINGS	14
III	KITCHEN & BATH LINEN	14
IV	PACKING AND PRODUCT CARE	13
V	INTERIOR DECORATION	13
	TEST & REVISION	7
Total		75

**RATIONALE:**

Home Textile exports in India are in boom now a day. Karur is the major Home textile centre in Tamil nadu. Variety of Made-ups are produced in India and are being exported to Europe, UK, USA, Australia, Canada etc and which fetches a good amount of foreign exchange to our country.

This subject deals with the variety of Home Textile items like wall, floor, furniture, kitchen, bath coverings. Its production process, decorative materials, packing methods, product care and costing are part of the subject. Knowing all these one can able to handle the production and export of these items in a better manner.

**OBJECTIVES:**

At the end of the study of III Semester the student will be able to

- Study about domestic and International needs.
- Understand the Various types of Floor & Wall coverings.
- Know about the Furniture coverings.
- Understand the quality parameters of the products.
- Know the types of Kitchen & bath articles.
- Have knowledge of decorating things.
- Understand the packing materials and procedures.
- Learn about types of Care Labeling and its contents.
- Study the various components of cost.
- Understand the cost calculations of various products.

## 36681 HOME TEXTILES

### DETAILED SYLLABUS

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>INTRODUCTION, WALL &amp; FLOOR COVERINGS</b>  Home textiles- definition, Classification- Domestic and international market needs- India's home textile exports. Wall coverings:- Draperies & Curtains- Plain, with Loop, Loop with Button, Tier curtain, valance, window panel, Tab top curtain, Eyelid, Rod Pocket Panel (RPP)- Brief study of Front and back Curtains, Day and night curtains. Floor coverings- Mats, Carpets, Rugs- types- features- Different types of surface, appearance and Texture used in Floor coverings- Study of decorative methods, quality parameters and costing of the above products.	14 Hrs
II	<b>FURNITURE COVERINGS</b>  Chair Linen: - Chair Pad, Chair Cushion, Chair cover, Seat pad (Sutton), Arm cap. Cushions: - Classification-Types -with tassels, piping and border, Bolsters. Cushion Filling:- Types, properties. Upholstery - Types- Sofa cover, Automobile Seat Cover. Bed Linen: - Bed Spread, Duvet, Flat sheet, Fitted sheet, Pillow Shan, Quilt, Bed ruffle- Classification of Mattresses and pillows, Comforters and Blankets- Study of decorative methods, quality parameters and costing of the above products	14 Hrs
III	<b>KITCHEN &amp; BATH LINEN</b>  Kitchen articles: - Apron, Mitten, Pot Holders, Kitchen Towel, Bread basket, Tea cozy- Table cloth, Napkin, Mat, Runner Bath Linen: -Shower curtains, Bath rope, Bath Towel, Pool / Beach Towel, Bath Mat, Bath Sheet-Study of decorative methods, quality parameters and costing of the above products.	14 Hrs



<b>IV</b>	<p><b>PACKING &amp; PRODUCT CARE</b></p> <p>Folding and Packing- importance- materials used- specification- folding machines used- Types of Folding and Packing –Wall Covering, Curtains, Chair Linen, Floor Covering, Upholstery, Kitchen Articles, Table Linen and Bed Linen.</p> <p>Care labelling- Washing, Bleaching, Drying, Ironing and Dry Cleaning Instructions- Placement of labels on Home textiles- Consumer care guide to home textiles- Practices in storage of house hold linen- Pressing and Airing, Storing.</p>	<b>13 Hrs</b>
<b>V</b>	<p><b>INTERIOR DECORATION</b></p> <p>Definition- factors affecting the selection of Home furnishing- Role of colours in interior decoration- lighting arrangements in living room- furniture selection- dining room- decorative methods- pictures for interior decoration- types- flower arrangements- types- interior decoration for Hotel &amp; marriage hall- recommendation for good interior decoration.</p>	<b>13 Hrs</b>

**Text Book:**

Title	Author	Publisher	Year
Textiles – Fibre to Fabric	P.Corbaman	TATA Mcgraw Hill	1983
Textile fabrics and their selection	Isabel.B.Wingate	Prentice Hall – Englewood Cliffs, New Jersey	1976
Easy bazaar crafts	Gerald.M.Knox	Meredith Corporation	1990
Furniture Upholstery	Michal Scofield Sudha Irwin Holly Lyman Antolini	Lane Publishing Co. Monlo Park, California	1980
The Complete Home Decorator	Conran’s habitat	Caroline Clifton – Mogg Portland House, New York	1991
Fashion Apparel Accessories & Home Furnishing	Jay Diamond & Ellen Diamond	Dorling Kindrsley Ind. Pvt. Ltd., New Delhi- 110092	2008

**Reference:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
ASTM Standards related to stitches and seams	Robert.F.Allen	ASTM, 100 Barr Harbour drive West Conshohocken	1998
Hand woven carpets oriental and European	A.F.Kendrick	Dover Publicaions,INC, New York	1973
Oriental carpet Designs in Full color	Saraf Friedrich Trenkwano	Dover Publications INC, New York	1979
The mccalls Book of Quilts	John Murray	Mcall's Needle work The mccall pattern company	1964
Hand Woven fabric of India	Jasteen Dhamija & Jyotindra Jain	Mapin Publishing Pvt. Ltd., Ahmedabad.	1989
Designs and Pattern of North African Carpets and Textiles	Jacquar Rovailt	Dover Pulbication, New York	

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**DIRECTORATE OF TECHNICAL EDUCATION**

**DIPLOMA IN APPLIED ARTS AND CRAFTS**

**(FASHION AND APPAREL DESIGN)**

**II YEAR**

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**M – SCHEME**

**IV SEMESTER**

**2015 – 2016 ONWARDS**

**TECHNOLOGY OF FABRIC  
MANUFACTURE**

**CURRICULUM DEVELOPMENT CENTRE**

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN)  
 Course Code : 1226  
 Subject Code : 36142  
 Semester : IV Semester  
 Subject Title : TECHNOLOGY OF FABRIC MANUFACTURE

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours/Week	Hours/Semester	Marks			
36142 TECHNOLOGY OF FABRIC MANUFACTURE	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
25			75	100		

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	Preparatory Process	14
II	Woven Fabric Formation	14
III	Knitted Fabric Formation	14
IV	Fabric Structures	13
V	Non woven & Special Fabrics	13
	TEST & REVISION	7
Total		75

**RATIONALE:**

Fabrics are the raw material for garment construction. Knowing the construction particulars, the weaves, method of manufacturing of fabrics are the most needed one for a garment technologist. In this subject types of looms/ knitting machines employed in fabric manufacture, the basic weaves of garmenting fabrics, the quality parameters, the defects of woven and knitted fabrics are dealt with. Apart from that detailed structural analysis of the fabrics, basics of nonwoven, lace and braided fabrics are also covered.

**OBJECTIVES:**

At the end of the study of III Semester the student will be able to

- Study about the preparatory processes in weaving.
- Learn the different types of knotting equipment.
- Know the fundamentals on looms.
- Understand the features of shuttleless looms.
- Understand the basic terms & elements in knitting
- Know the basic principles & working of plain weft knitting machines.
- Know and analyze the different types of woven structure.
- Understand the defects in woven fabric.
- Know and analyze the different types of knit structure.
- Have knowledge on special fabrics and its applications.

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**36142 TECHNOLOGY OF FABRIC MANUFACTURE**  
**DETAILED SYLLABUS**

**Contents: Theory**

Unit	Name of the Topic	Hours
I	<p><b>Weaving Preparatory Process :</b></p> <p>Sequence of processes involved in Weaving preparatory with objectives- winding, warping, sizing - Passage of material in Autoconer- Features of Autoconer- Functions of Tensioners, Slub catchers, Electronic Clearers and Splicer – Comparison between Knotting and Splicing – Advantages of splicing. – Object of Sectional Warping and its salient features - Passage of material in Beam warping - Passage of material in Sizing machine.</p>	14Hrs
II	<p><b>Woven Fabric Formation</b></p> <p>Looms- types- Features of Tappet, Dobby, Jacquard looms – Object of Drawing-In and Denting - Passage of Warp in a conventional Plain loom – Objects of Primary, Secondary &amp; Auxiliary motions in a Plain loom – Features of Automatic Shuttle Loom and Shuttleless Loom - Shuttleless looms Classification (Flexible Rapier, Projectile, Air jet and Water jet) and its advantages - Defects in Woven fabrics - Missing ends, Warp &amp; weft streaks, Floats, Temple marks and Stains.</p>	14Hrs
III	<p><b>Knitted Fabric Formation</b></p> <p>Knitting – Definition, Classification – Uses- Comparison between knitting and weaving - Important Knitting terms - Course, Wales, Texture, Gauge, Loop length, Loop density, Face loop, Back loop- Knitting elements -. Needles (Latch, Beard and Compound), Sinker, Cam- Passage of material in a Circular plain Weft knitting machine - Knitting cycle of Latch needle in plain weft knitting machine- Uses of Double Jersey, Flat and Warp knitting machine.</p> <p>Defects in Weft knit fabrics - Vertical lines, Horizontal lines, Drop stitches, Distorted stitches and Press off - Comparison between woven and knitted fabrics.</p>	14Hrs
IV	<p><b>Fabric Structures</b></p> <p><b>Woven Structures:</b> Definition of Design, Draft, Peg plan – Design, Draft &amp; Peg plan for Plain weave– 4x4 Matt weave– 2/1, 3/1 Twill weave – 5 end Satin weave and Sateen weave – End uses of above fabrics.</p>	13Hrs

	<b>Knit Structures:</b> Knit, Tuck and Miss Stitches – Drawing of Graphical and Needle (Diagrammatic) notation of single jersey Plain, purl and Double jersey Rib. Drawing of Needle (Diagrammatic) notation of Interlock and Lacoste fabrics.	
V	<b>Non Woven and Special Fabrics</b> Non-Woven fabrics – definition - uses - classification of Non Woven Fabrics. Web Formation Techniques – Staple Fibre Webs – Wet laid webs, Dry laid webs, Parallel, Cross and Random laid webs – Continuous Filament webs – Spun laid webs and Melt blown webs. Non Woven Fabric Formations Techniques – Adhesive bonding, Thermal Bonding, Needle punching and bonding of spun laid webs. Definition of Lace fabrics and Braided fabrics.	<b>13Hrs</b>

Title	Author	Publisher	Year
<b>Text books:</b>			
Principles of weaving	R Marks ATC Robinson	The Textile Institute, Manchester, UK	1976
The Motivate Series	Andrea Wynne	MacMillan Education Ltd, London and Basingstoke.	1997
Cotton Yarn Weaving	Kanungo R.N	Textile Association India, Ahmedabad	1980
Weaving machines, Mechanisms & Management	M K Talukdar P K Sriramulu D.B Ajgaonkar	Mahajan Publications Pvt Ltd, Ahmadabad-9	1998
Modern Weaving Technology	J K Arora	Abhisek Publications, Chandigarh- 17	2008
Principles of Knitting	D B Ajgaonkar	Universal Publishing Corporation	1988
Knitting Technology	David J Spencer	Pergamon Press Oxford	1988
<b>Reference books:</b>			
Warp Knitting	D G B Thomas	Merro Pub. Co. ISA Buld. UK	1976
Textile Fibre to Fabric	Bernard P. Corbman	McGraw –Hill Book co.,Singapore.	1983
Yarns and Technical Textiles	K.P.Chellamani	SITRA, Coimbatore	1999
High speed Weaving	Jeyachandran.K	P.S.G.Tech,Coimbatore.	1990



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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IV SEMESTER

2015 – 2016 ONWARDS

**CLOTHING MACHINERY AND  
EQUIPMENTS**

CURRICULUM DEVELOPMENT CENTRE



**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name: DIPLOMA IN APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN )

Course Code : 1226  
 Subject Code : 36643  
 Semester : IV Semester  
 Subject Title : CLOTHING MACHINERY AND EQUIPMENT

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours/Week	Hours/Semester	Marks			
36643 CLOTHING MACHINERY AND EQUIPMENT	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	BASIC MECHANICAL ENGINEERING	14
II	BASIC ELECTRICAL & ELECTRONICS ENGINEERING	14
III	BASIC SEWING MACHINES	14
IV	SPECIAL MACHINES & ATTACHMENTS	13
V	FINISHING MACHINES & MAINTENANCE OF MACHINES	13
	TEST & REVISION	7
	Total	75

**RATIONALE:**

Machineries are The important section of garment construction. The quality of the product is determined to certain extent by the construction quality. Even the wright kind of sewing machines and the attachments play a vital role in deciding the quality of the end product. To achieve the required quality, it is imperative to understand the type of sewing machines, its parts and functions, the maintenance part, the attachments along with various special machines that generally used in garment manufacturing.

**OBJECTIVES:**

At the end of the study of III Semester the student will be able to

- Understand the functions of belts, gears, cams, clutch and bearings.
- Learn the various system of lubrication.
- Understand the basics of dc motor.
- Learn the basics of electronic items.
- Learn the functions of LCD &LED
- Understand the functions of lock stitch, over lock and zig zag sewing machines.
- Learn the various defects in sewing.
- Understand the functions of special sewing machines.
- Learn the functions of guides and attachments.
- Understand the functions of finishing machines.
- Learn the maintenance of sewing and other machines.

## 36643 CLOTHING MACHINERY AND EQUIPMENT

### DETAILED SYLLABUS

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>BASIC MECHANICAL ENGINEERING</b> Transmission of Motion and Power: Types of belt drives and its advantages. Gear drive – Classification of Gear drives and its advantages. (Spur, Bevel, Helical and Worm Gear) Cams – definition – Types of Cams. Clutch – Functions of clutch – Principle and working of single plate friction Clutch with diagram. Brakes – Principle & working of Hydraulic Brake with diagram. Bearings – Type and importance. Lubrications – Purpose – types such as Liquid, Semi-liquid & Solid. Lubrication Systems – Gravity circulation System, Pressure circulating systems with diagram.	14 Hrs
II	<b>BASIC ELECTRICAL &amp; ELECTRONICS ENGINEERING.</b> Fundamentals of AC and DC. Terminologies such as Voltage, Current, Resistance, Watts, Power, Power factor. Difference between AC and DC. AC Generator- Working Principle with diagram. AC Motor- Principle & Construction with diagram. Features of Stepper motor and Servo motor. Objectives of devices such as Limit Switch, Push Button Switch, Sensors, Resistors and its Colour code, Inductor, and Transistor. Brief study of LCD and LED.	14 Hrs
III	<b>BASIC SEWING MACHINES</b> Single needle Lock stitch machines – Parts and Functions, Timed sequence in stitch formation in single needle lock stitch machine, Needle bar mechanism with diagram. Brief study of Shuttle and Hook mechanism with diagram. Study of thread tension variation and its adjustment in needle and Bobbin. Different types of needles and Needle Number. Threading procedure of 3 threads over lock. Causes and remedies for sewing defects. Merits of Computerized sewing machine.	14 Hrs
IV	<b>SPECIAL MACHINES &amp; ATTACHMENTS</b> Different types of Feed mechanism in sewing machine. Flat lock Machine (5 Thread) – Threading Procedures with diagram Brief Study of Button hole & Button Stitch Machines – Elastic tape Stitch Machine – Collar turner- Feed-Off-Arm machine – Chain Stitch Machine – Bar Tacking machine – Blind stitch Machine – Zig Zag machines – Computerized embroidery machine. Brief study of Hemmer Foot, Cording Foot, Piping Foot, Quilter & Guide Foot with diagram. Brief study of special attachments and uses – Folders, Binders & Guides.	13 Hrs

<b>V</b>	<p><b>CUTTING, FINISHING MACHINES &amp; MAINTENANCE</b></p> <p>Objectives of Spreading – Brief study of manual and automatic machine. Types of Cutting machines – Straight Knife, Band Knife, Die Cutting and Laser Cutting. Brief study about Computerized cutting machine.</p> <p>Fusing – Elements of fusing, Types of Fusing machine and working of continuous fusing machine with diagram. Brief Study of Thread Sucking Equipment with diagram – Brief study of needle detector.</p> <p>Pressing – types of pressing system. Finishing – form finishers, tunnel finishers.</p> <p>Maintenance of Machines – Importance – Maintenance Schedule in Garment Units</p>	<b>13 Hrs</b>
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**Text Book:**

Title	Author	Publisher	Year
Mechanical Technology	V Sivarajan	V K Pub. Bangalore	
Theory of Machines	S S Rattan	Tata Mc GRAW – Hill Pub. Co .Ltd. New Delhi-110033	1996
Text book of Electrical Technology	B L Theraja A K Theraja	S. Chand & Co. New Delhi	2002
Essentials of Electricity	K C Graham	D B Tarapore wala Mumbai	
Technology of Clothing Manufacture	Carr & Lathem	Blackwell Sci.Pub New ork	2004
Introduction to Clothing Manufacture	Gerry Cooklin	Blackwell Sci.Pub New ork	2005

**Reference:**

Title	Author	Publisher	Year
Theory of Machines	P L Ballaney	Kanna Pub., Delhi.	1980
Complete Guide to Sewing		Readers Digest.	1999
The complete book of sewing	Dorling Kindersley	London	1999
A Text book of Machine Design	R S Khurmi J K Gupta	Eurasia Pub., New Delhi	1998



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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IV SEMESTER

2015 – 2016 ONWARDS

**PATTERN DRAFTING AND  
CONSTRUCTION - I**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN )  
 Course Code : 1226  
 Subject Code : 36644  
 Semester : IV Semester  
 Subject Title : PATTERN DRAFTING AND CONSTRUCTION- I

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours/Week	Hours/Se mester	Marks			
36644 PATTERN DRAFTING AND CONSTRUCTION- I	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	PATTERN DRAFTING FOR INFANTS WEAR	14
II	PATTERN DRAFTING FOR CHILDREN'S WEAR	14
III	PATTERN DRAFTING FOR GIRLS WEAR	14
IV	PATTERN DRAFTING FOR BOYS' WEAR	13
V	PATTERN DRAFTING FOR LADIES ` WEAR	13
	TEST & REVISION	7
Total		75

**RATIONALE:**

Pattern drafting is the nerve centre of garment making. Every garment parts are draft to its size for lateral assembling into a garment. This procedure helps to make perfect garment to various sizes. Any alteration is also made within the pattern. The patterns can also be stored for ever and repeated orders are carried out at ease. From the patterns layout is made simple and better marker efficiency is achieved for minimum consumption of fabrics.

**OBJECTIVES:**

At the end of the study of IV Semester the student will be able to

- Understand the drafting procedure for infants' style.
- Learn the layout and construction procedure for infants' style.
- Understand the drafting procedure for children's style.
- Learn the layout and construction procedure for children's style.
- Understand the drafting procedure for girls' style.
- Learn the layout and construction procedure for girls' style.
- Understand the drafting procedure for boys' style.
- Learn the layout and construction procedure for boys' style.
- Understand the drafting procedure for ladies style.
- Learn the layout and construction procedure for ladies style.

## **36644 PATTERN DRAFTING AND CONSTRUCTION- I**

### DETAILED SYLLABUS

Contents: Theory

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>PATTERN DRAFTING FOR INFANTS WEAR</b> Pattern making for Bib, Pilch Knicker, Zabra, Bloomer, Body suit (One piece baby cloth) – with styles description – suitable fabrics - Layout, fabric consumption calculation and construction procedure.	<b>14 Hrs</b>
<b>II</b>	<b>PATTERN DRAFTING FOR CHILDREN'S WEAR</b> Pattern making for A line Frock, Yoke Frock, Umbrella Frock, Sun suit- with style description – suitable fabrics - Lay out, Fabric Consumption Calculation and Construction procedure.	<b>14 Hrs</b>
<b>III</b>	<b>PATTERN DRAFTING FOR GIRLS WEAR</b> Pattern making for Pleated Skirt, Pinafore, Skirt blouse, Peddle Pusher- with style description- suitable fabrics – Lay out, Fabric Consumption Calculation and construction procedure.	<b>14 Hrs</b>
<b>IV</b>	<b>PATTERN DRAFTING FOR BOYS WEAR.</b> Pattern making for Boys shorts, Bermuda shorts, Pyjama, Slack shirt - with style description – suitable fabrics- Lay out, Fabric Consumption Calculation and Construction procedure.	<b>13 Hrs</b>
<b>V</b>	<b>PATTERN DRAFTING FOR LADIES WEAR.</b> Pattern making for, Modern Salwar, Chudidar, Kameez, Ladies skirt shorts - with style description – suitable fabrics - Lay out, Fabric Consumption Calculation and Construction procedure.	<b>13 Hrs</b>



**Text Book:**

Title	Author	Publisher	Year
The Art Of Sewing	Anna Jacob Thomas.	Ubs Publishers, Delhi.	2001
Practical Clothing Constructions Part I & II	Mary Mathews	Paprinpack Printers, Chennai.	1985
Zarapkar System Of Cutting.	K.R.Zarapkar	Navneet Publications (I) Ltd., Dantali. Gujarat.	2005

**Reference:**

Title	Author	Publisher	Year
Sew It Yourself.	Lippman (Gidon)	Prentice Hall Inc New Jersey	2002
Metric Pattern Cutting For Children's Wear	Winfred Aldrich	Blackwell science	1991
Pattern Design For Children's Clothes	Gloria Mortimer-Dunn	BT Batsford Ltd, London	1996
Clothing For Moderns	Erwine	Macmillan Pub.Co., New York.	1992
Comparative Clothing Construction Techniques	Virginn Stolpe Lewis	Surjeetpublications Delhi.	
Scientific Garments Cutting	K.M.Hegde	K.M.Hegde & Sons, Poona	1989
Art In Everyday Life	Harriet Goldstein Vetta Goldstein	Oxford & IBH Publishing	1982



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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IV SEMESTER

2015 – 2016 ONWARDS

**HOME TEXTILES PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU  
DIPLOMA IN APPLIED ARTS AND CRAFTS  
M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name           DIPLOMA IN APPLIED ARTS AND CRAFTS  
                                  (FASHION AND APPAREL DESIGN )

Course Code           : 1226

Subject Code         : **36545**

Semester             : IV Semester

Subject Title         : HOME TEXTILES PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject	Instruction		Examination			Duration		
	Hours/Week	Hours/Semester	Assessment Marks					
36545 HOME TEXTILES PRACTICAL			Internal Marks			Board Exam	Total	
			10	10	5			
	5	75	25			75	100	3 Hrs

**RATIONALE:**

Style of Home Textiles products and its various design techniques. The Home textile products construction includes various types of Pillow cover, curtains, Mattress, Blankets and with some Structural effect. This practical subject provides hands on experience on the preparation of the above products with decorative material & accessories.

**GUIDELINES:**

- All the sixteen experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate sewing machines and required attachments for exposing the skills in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than two students while examining a batch of 30 students during Board Examinations.

### **ALLOCATION OF MARKS**

Experiment	50 marks
Write up	20 marks
Viva	05 marks
Total	<u>75 Marks</u>

### **FOURTH SEMESTER 36545 HOME TEXTILES PRACTICAL**

#### **EXPERIMENTS OBJECTIVES:**

##### **Pillow cover& Cushion cover**

- To Construct different types of Pillow cover – any two.
- To Construct different types of Cushion cover
- To Construct different types of Cushion cover with Frills.

##### **Quilt cover& Bed spread**

- To Construct different types of Quilt cover.
- To Construct Bed spread with decorative details& embroidery.

##### **Kitchen**

- To Construct Apron, Mitten, Table cover, Tea cozy cover, pot cover and Napkins.

##### **Window**

- To construct window curtains and hangers.

##### **Furniture covers**

- To construct chair cover, sofa cover and pelmets

### **FOURTH SEMESTER 36545 HOME TEXTILES PRACTICAL**

#### **LIST OF EQUIPMENT**

##### **Equipment required:**

Measuring tools

Pattern making tools

Construction tools

General tools

Sewing machines:- Lock stitch- 15 m/cs.

Over lock- 2 m/c.

Flat lock- 1 m/c

Button hole- 1 m/c

Button stitch- 1 m/c

**Materials required:**

3- 5 meters of fabric/ expt./ batch of 30 students.

Sewing threads:- white and assorted – 30 nos..

**FOURTH SEMESTER  
36545HOME TEXTILES PRACTICAL**

**List of experiments.**

1. Cut, stitch and finish any two types of pillow covers.
2. Cut, stitch and finish round cushion covers.
3. Cut, stitch and finish square cushion covers with frills.
4. Cut, stitch and finish Quilt cover.
5. Cut, stitch and finish Bed sheet.
6. Cut, stitch and finish Apron.
7. Cut, stitch and finish Mitten.
8. Cut, stitch and finish Table cover.
9. Cut, stitch and finish Tea cozy cover.
10. Cut, stitch and finish any two types of Window curtain.
11. Cut, stitch and finish Sofa cover.
12. Cut, stitch and finish Pelmet
13. Cut stitch and finish Wall hangings with decoration.



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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IV SEMESTER

2015 – 2016 ONWARDS

**PATTERN DRAFTING AND  
CONSTRUCTION – I PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name DIPLOMA IN APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN )

Course Code :1226

Subject Code :**36546**

Semester :IV Semester

Subject Title : PATTERN DRAFTING AND CONSTRUCTION- I PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject	Instruction		Examination					
	Hours/Week	Hours/Semester	Assessment Marks			Duration		
36546  PATTERN DRAFTING AND CONSTRUCTION- I PRACTICAL	5	75	Internal Marks			Board Exam	Total	Duration
			10	10	5			
			25			75	100	3 Hrs

**RATIONALE:**

Garment production starts with drafting of patterns of various parts of the garment. This technique helps the manufacturers in assembling the parts perfectly in the next process. Further it assists to calculate the requirement of fabric for garment construction and subsequently reduced fabric consumption and increased profits. This practical subject provides hands on experience on the method of drafting and constructing each and every part of garment like front, back, yoke, collar, cuff, skirt panels etc., for various styles.

**GUIDELINES:**

- All the sixteen experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate drafting table, drafting tools for creating patterns and sewing machines of various types in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than two students while examining a batch of 30 students during Board Examinations.

## **ALLOCATION OF MARKS**

Pattern preparation and construction	50 marks
Drafting procedure	20 marks
Viva	05 marks
Total	<u>75 Marks</u>

## **FOURTH SEMESTER 36546 PATTERN DRAFTING AND CONSTRUCTION- I PRACTICAL**

### **EXPERIMENTS OBJECTIVES:**

#### **Infants' wears.**

To prepare the paper pattern and construct the Garment - Pilch Knicker

To prepare the paper pattern and construct the Garment - Zabala

To prepare the paper patter for the Garment – Bloomer

#### **Children's wears.**

To prepare the paper pattern for the Garment --A line Chemise

To prepare the paper pattern for the Garment -Umbrella Frock

To prepare the paper pattern for the Garment – Pleated Skirt

To cut, stitch and finish the Garment -Yoke Frock

To cut, stitch and finish the Garment -Umbrella Frock

To prepare the paper pattern and construct the Garment – Pinna fore

To prepare the paper pattern and construct the Garment – Peddle Pusher

#### **Boys' wears.**

To prepare the paper pattern and construct the Garment – Shorts

#### **Ladies' wears.**

To prepare the paper pattern for the Garment – Salwar

To prepare the paper pattern for the Garment – Kameez

To cut, stitch and finish the Garment – Salwar

To cut, stitch and finish the Garment – kameez



**FOURTH SEMESTER  
36546 PATTERN DRAFTING AND CONSTRUCTION-I PRACTICAL**

**LIST OF EQUIPMENT**

**Equipment required:**

Patterntable- 8'x4' table- 4 nos.

**Sewing machines-**

Lock stitch- 15 m/cs.  
Over lock- 2 m/cs  
Flat lock- 1 m/c  
Button hole- 1 m/c  
Button stitch- 1 m/c  
4- Needle trimmer\*- 1 m/c  
Chain stitch\*- 1 m/c  
Feed- off-arm\*- 1 m/c  
Iron press- 1m/c  
\*Optional

**Material required:**

1.5 – 2 meters of fabric/ expt. / batch of 30 students.  
Sewing threads- white, assorted  
Decorative materials

Pattern paper-30 nos./expt /batch of 30 students  
Measuring, drafting & general tools-30/ batch of 30 students

**FOURTH SEMESTER**  
**36546 PATTERN DRAFTING AND CONSTRUCTION- I PRACTICAL**

**LIST OF EXPERIMENTS**

1. Prepare the paper pattern and construct the Garment - Pilch Knicker
2. Prepare the paper pattern and construct the Garment - Zabala
3. Prepare the paper pattern for the Garment – Bloomer
4. Prepare the paper pattern for the Garment – Body suit
5. Prepare the paper pattern for the Garment – A line frock
6. Prepare the paper pattern for the Garment - Yoke Frock
7. Using the paper pattern, cut, stitch and finish the Garment -Yoke Frock
8. Using the paper pattern, cut, stitch and finish the Garment – Pleated skirt
9. Prepare the paper pattern, cut, stitch and finish the Garment – Pinna fore
10. Prepare the paper pattern, cut, stitch and finish the Garment – Skirt blouse
11. Prepare the paper pattern, cut, stitch and finish the Garment– Shorts
12. Prepare the paper pattern, cut, stitch and finish the Garment -Salwar
13. Prepare the paper pattern, cut, stitch and finish the Garment -Kameez

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

II YEAR

M – SCHEME

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IV SEMESTER

2015 – 2016 ONWARDS

**LIFE AND EMPLOYABILITY SKILLS  
PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**

**DIPLOMA IN ENGINEERING – SYLLABUS – M Scheme**

(Being implemented from the Academic Year 2016-2017 onwards)

Course Name : **All Branches of Diploma in Engineering and Technology and Special Programmes**

Subject Code : **30002**

Semester : **IV**

Subject Title : **LIFE AND EMPLOYABILITY SKILLS PRACTICAL**

**Teaching and Scheme of Examination: No. of Weeks per Semester: 15 Weeks**

Subject	Instruction		Examination			
	Hours/Week	Hours/Semester	Internal assessment	Marks Board Examination	Total	Duration
Life and Employability Skills	4 Hours	60 Hours	25	75	100	3 Hours

**Topics and Allocation of Hours:**

Sl. No.	Section	No. of Hours
1	Part – A Communication	30
2	Part – B Entrepreneurship, Project Preparation, Productivity, Occupational Safety, Health, Hazard, Quality Tools & Labour Welfare	20
3	Part – C Environment, Global Warming, Pollution	10
<b>TOTAL</b>		<b>60</b>

**RATIONALE**

Against the backdrop of the needs of the Industries, as well as based on fulfilling the expectations of the Industries, the Diploma Level students have to be trained directly and indirectly in toning up their competency levels. Proficiency in Communication only, equips them with confidence and capacity to cope with the employment. Hence, there is a necessity to focus on these in the curriculum. At the end of the Course, the student is better equipped to express himself in oral and written communication effectively.

**SPECIFIC INSTRUCTIONAL OBJECTIVES**

1. Emphasize and Enhance Speaking Skills
2. Increase Ability to Express Views & Opinions
3. Develop and Enhance Employability Skills
4. Induce Entrepreneurship and Plan for the Future
5. Expose & Induce Life Skills for Effective Managerial Ability

**LIFE AND EMPLOYABILITY SKILLS PRACTICAL**

**SYLLABUS**

Unit	Topics	Activity	Hours
<b>I</b>	<b>Communication, Listening, Training, Facing Interviews, Behavioural Skills</b>	<ul style="list-style-type: none"> <li>-- instant sentence making</li> <li>– say expressions/phrases-- self- introduction/another higher official in company</li> <li>– describe/explain product</li> <li>– frame questions based on patterns</li> <li>– make sentences based on patterns</li> </ul>	<b>30</b>
<b>II</b>	<b>Entrepreneurship, Project Preparation, Marketing Analysis, Support &amp; Procurement</b>	<ul style="list-style-type: none"> <li>-- prepare an outline of a project to obtain loan from bank in becoming an entrepreneur</li> <li>– prepare a resume</li> </ul>	<b>10</b>
<b>III</b>	<b>Productivity – comparison with developed countries, Quality Tools, Circles, Consciousness, Management, House Keeping</b>	<ul style="list-style-type: none"> <li>-- search in the website</li> <li>-- prepare a presentation</li> <li>– discuss &amp; interact</li> </ul>	<b>05</b>
<b>IV</b>	<b>Occupational Safety, Health Hazard, Accident &amp; Safety, First-Aid, Labour Welfare Legislation, Welfare Acts</b>	<ul style="list-style-type: none"> <li>-- search in the website</li> <li>-- prepare a presentation</li> <li>– discuss &amp; interact</li> </ul>	<b>05</b>

<b>V</b>	<b>Environment, Global Warming, Pollution</b>	-- taking down notes / hints – answering questions  -- fill in blanks the exact words heard	<b>10</b>
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**LEARNING STRUCTURE****100 Marks**

- Focus more on Speaking & Listening Skills
- Attention less on Reading & Writing Skills
- Apply the skills in fulfilling the Objectives on Focused Topics

**a) Listening****25 Marks**

1. Deductive Reasoning Skills (taking down notes/hints) **10**
2. Cognitive Skills (answering questions) **10**
3. Retention Skills (filling in blanks with exact words heard) **05**

**b) Speaking Extempore/ Prepared****30 Marks**

1. Personality/Psychological Skills (instant sentence making) **05**
2. Pleasing & Amiable Skills (say in phrases/expressions) **05**
3. Assertive Skills (introducing oneself/others) **05**
4. Expressive Skills (describe/explain things) **05**
5. Fluency/Compatibility Skills (dialogue) **05**
6. Leadership/Team Spirit Skills (group discussion) **05**

**c) Writing & Reading****20 Marks**

1. Creative & Reasoning Skills (frame questions on patterns) **05**
2. Creative & Composing Skills (make sentences on patterns) **05**
3. Attitude & Aim Skills (prepare resume) **05**
4. Entrepreneurship Skills (prepare outline of a project) **05**

**d) Continuous Assessment (Internal Marks)****25 Marks**

(search,read, write down, speak, listen, interact &amp; discuss)

1. Cognitive Skills (Google search on focused topics)
2. Presentation Skills& Interactive Skills (after listening, discuss)

**Note down and present in the Record Note on any 5 topics** **10 Marks****Other activities recorded in the Record note** **10 Marks****Attendance** **05 Marks****INTERNAL MARKS****25 MARKS****EXTERNAL MARKS AT END EXAMINATION****75 MARKS**



## MODEL QUESTION

Time: 3 Hours

Maximum Marks: 75

### A. LISTENING

25 Marks

1. Listen to the content and take down notes/hints 10
2. Listen to the content and answer the following questions. 10
3. Listen to the content and fill in the blanks the exact words heard. 05

### B. SPEAKING

30 Marks

1. Say in a sentence instantly on hearing the word(5 words, one after another). 05
2. Say any five expressions commonly used in communication. 05
3. Imagine, a consultant has come to your department.  
Introduce him to your subordinates. 05
4. Explain/describe the product you are about to launch in the market. 05
5. Speak with your immediate boss about the progress you have made. 05
6. Discuss within the group on the topic of focus in the syllabus. 05

### C. WRITING & READING

20 Marks

1. Frame new questions from the pattern given by changing sets of words with your own. 05

a.	When	do	you	return?
b.	How	is	his performance?	
c.	Where	has	the manager	gone?
d.	What	is	the progress	today?
e.	Why	are	the machines	not functioning?

2. Make sentences from the pattern given by changing sets of words with your own. 05

a.	The workers	are	on strike		
b.	The labourers	are paid	well	in this factory	
c.	There	is	a rest room	for the workers	

d.	These	are	the new products	launched	by our company
e.	Almost everyone	come	to the company	on motorbikes	

3. Prepare a resume for the post of Department Manager. 05

4. Prepare an outline of a project to obtain a loan. (Provide headings and subheadings) 05

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### I. Guidelines for setting the question paper:

#### A. LISTENING :

ONLY TOPICS related to  
POLLUTION /  
ENVIRONMENT /  
GLOBAL WARMING are to be taken.

These topics are common for all the three types of evaluation.

#### B. SPEAKING :

1. WORDS of common usage
2. Fragments – expression of politeness, courtesy, cordiality
3. Introduce yourself as an engineer with designation or  
Introduce the official visiting your company/department
4. Describe/Explain the product/machine/department
5. Dialogue must be with someone in the place of work.
6. Group of six/eight  
Discuss the focused topic prescribed in syllabus

#### C. WRITING & READING:

1. Provide five different structures.  
Students are to substitute at least one with some other word/words
2. Provide five different structures.  
Students are to substitute at least one with some other word/words
3. Provide some post related to industries.
4. Outline of the project (skeleton/structure)  
Only the various headings and subheadings  
Content is not needed

## II. Guidelines for recording the material on the Focused Topics in the Record note.

Write in the record note, **on any five topics**, from the list of topics given below. **10 Marks**  
(5 topics x 10 marks = 50 marks. Thus, the **Average of 5 topics is 10 Marks**)

1. Productivity in Industries – Comparison with developed countries
2. Quality Tools, Quality Circles and Quality Consciousness
3. Effective Management
4. House Keeping in Industries
5. Occupational Safety and Hazard
6. Occupational Accident and First Aid
7. Labour Welfare Legislations
8. Labour Welfare Acts and Rights
9. Entrepreneurship
10. Marketing Analysis, Support and Procurement

### **LABORATORY REQUIREMENT:**

1. An echo-free room
2. Necessary furniture and comfortable chairs
3. A minimum of two Computers with internet access
4. A minimum of two different English dailies
5. A minimum of Three Mikes with and without cords
6. Colour Television (minimum size – 29")
7. DVD/VCD Player with Home Theatre speakers
8. Smart board
9. Projector

### **Suggested Reading:**

1. Production and Operations Management by S.N. Chary, TMH
2. Essentials of Management by Koontz & Wehrich, TMH
3. Modern Production / Operations Management by E.S. Buffa and R.K. Sarin, John Wiley & Sons
4. Production Systems: Planning, Analysis and Control by J.L. Riggs, 3rd ed., Wiley.
5. Production and Operations Management by A. Muhlemann, J. Oakland and K. Lockyer, Macmillan
6. Operations Research - An Introduction by H.A. Taha, Prentice Hall of India
7. Operations Research by J.K. Sharma, Macmillan
8. Business Correspondence & Report Writing by R.C. Sharma and K. Mohan, TMH
9. How to prepare for Group Discussion & Interview (With Audio Cassette) by Prasad, TMH
10. Spoken English – A self-learning guide to conversation practice (with Cassette)
11. Introduction to Environmental Engineering by Mackenzie, L. Davis and A. David, Cornwell, McGrawHill, 3rd Ed.
12. Environmental Engineering by Peary, Rowe and Tchobanoglous, McGrawHill
13. Total Quality Management – An Introductory Text by Paul James, Prentice Hall
14. Quality Control and Applications by Housen & Ghose
15. Industrial Engineering Management by O.P. Khanna

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**V SEMESTER**



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

M – SCHEME

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V SEMESTER

2015 – 2016 ONWARDS

**CHEMICAL PROCESSING AND  
TESTING OF TEXTILES**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

Course Code : 1226

Subject Code : **37851**

Semester : V Semester

Subject Title : CHEMICAL PROCESSING AND TESTING OF TEXTILES

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours/Week	Hours/Semester	Marks			
37851 CHEMICAL PROCESSING AND TESTING OF TEXTILES	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	PREPARATORY PROCESS IN WET PROCESSING	14
II	DYEING OF TEXTILES	14
III	PRINTING OF TEXTILES	14
IV	FINISHING OF TEXTILES	13
V	TESTING OF YARN AND FABRICS	13
	TEST & REVISION	7
Total		75

**RATIONALE:**

The introduction to chemical Processing includes the de-sizing, scouring, bleaching are the Preparatory process to any kind of Textiles. The Dyeing of different fabrics with the suitable dyes and dyeing techniques are included to understand the wet processing treatment carried out for Textiles colouration. The Printing of Textiles covers various printing method to produce various surface effects on fabric. The finishing is to produce required properties and end usage. The Testing part of this section provides a basic knowledge on the Testing methods of different types of yarn and fabric .

**OBJECTIVES:**

At the end of the study of V Semester the student will be able to

- To understand the basics of wet processing sequence.
- To study the singeing, scouring, desizing & Bleaching processes.
- To learn the classifications of dyes.
- To understand the various dyeing techniques.
- To understand the methods of printing.
- To study the various printing techniques.
- To know about finishing processes.
- To learn different types of finishing methods in detail.
- To understand the basics of numbering systems.
- To learn yarn and fabric testing procedures.

## 37851 CHEMICAL PROCESSING AND TESTING OF TEXTILES

### DETAILED SYLLABUS

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>PREPARATORY PROCESS IN WET PROCESSING</b>  Sequence of process used in wet processing– Object of Singeing – Gas singeing Machine. De-sizing – Objects of de-sizing – Enzyme De-sizing - Merits of Continuous de-sizing and Scouring – Objects of scouring – Scouring of cotton fabric uses Kiers.  Bleaching – objects of bleaching – Conventional bleaching process (using hypo chloride)  Continuous method of scouring and bleaching using Hydrogen peroxide in J Box with line diagram – Comparison of woven and knitted cloth processing.	14 Hrs
II	<b>DYEING OF TEXTILES</b>  Dyes used for natural, Manmade and synthetic fibres – Dyeing of cellulosic fibre with Vat, Reactive dyes using Jigger – Dyeing of knitted fabric with reactive dyes using soft flow machine – Dyeing method of protein fibre with acid dyes – Dyeing of polyester with disperse dyes – HTHP Beam dyeing machine.  Garment Dyeing – Sancowad process, Rotary dyeing, , Denim Processing	14 Hrs
III	<b>PRINTING OF TEXTILES</b>  Comparison between dyeing and printing - Styles and methods of printing. Direct style of printing with pigments on cotton - Direct style of Printing with reactive dyes on cotton - Direct style of printing with Disperse dyes on polyester -Brief style of Batik style, tie & dye, and Ikkat on cotton.  Steps in Screen preparation – Brief study of printing techniques such as Flat bed, Rotary, Digital ink jet printing-	14Hrs



	Curing machine – steamer.	
<b>IV</b>	<p><b>FINISHING OF TEXTILES</b></p> <p>Mercerisation – Objects of mercerization – Mercerisation of cotton fabric using chainless machine – Sanforisation process – Objects of Compacting and Calendaring. Finishing – Type of finishes (Functional and Novelty finish), Finishing procedure and Chemicals - Silicone finish, Marble (Acid) finish, Stone wash, Water repellent and Water resistance finish, Flame retardant and Anti microbial finish.</p>	<b>13Hrs</b>
<b>V</b>	<p><b>TESTING OF YARNS AND FABRICS</b></p> <p>Definition of yarn count – Definition of English and Tex system of yarn numbering - Method of count determination by Beesley balance – Yarn strength by Lea tester – Yarn Twist – Double yarn twist Estimation – Yarn Appearance test as per ASTM standards.</p> <p>Fabrics –Tensile, Tear, Bursting strength – Abrasion Testing by Martindale abrasion tester. Drape – Definition – Testing of fastness– Wash, light, rub fastness for garments</p> <p>Definition of Fabric Air Permeability and Fabric Air Resistance and its importance.</p>	<b>13 Hrs</b>

**Text Book :**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
The Bleaching Dying of Cotton material.	Prayog R S	Weaver's service centre, Mumbai	2000
Technology of Textile Printing	Prayog R S	-do-	1998
Principles of Textile Testing	J.E. BOOTH	Butterworth Scientific, London	1999

**Reference:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
Tech. of Textile Processing all series	SHENAI.V.A.	Shevak Publications Bombay	1999
Mercerising	MARSH.J.T.	BT Publications, Mumbai	1979
An Introduction to Textile finishing	MARSH.J.T.	-do-	1979
Textile Printing	MILLER.W.C	Society of Dyers	1994

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

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M – SCHEME

V SEMESTER

2015 – 2016 ONWARDS

**APPAREL PRODUCTION AND  
QUALITY CONTROL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN )  
 Course Code : 1226  
 Subject Code : **37852**  
 Semester : V Semester  
 Subject Title : APPAREL PRODUCTION AND QUALITY CONTROL

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours /Week	Hours/ Semester	Marks			
			Internal Assessment	Board Examination	Total	
37852 APPAREL PRODUCTION AND QUALITY CONTROL	5 Hrs	75 Hrs	25	75	100	3 Hrs

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	APPAREL ENGINEERING	14
II	PLANT MANAGEMENT	14
III	INSPECTION & QUALITY CONTROL	14
IV	PACKING & CARE LABELLING	13
V	GARMENT DEFECTS & QUALITY MANAGEMENT	13
	TSET & REVISION	7
	Total	75

**RATIONALE:**

The introduction to apparel production and quality control is the basics for all Textiles and Garment related manufacturing. The application of quality control makes the industries to produce right kind of products with required qualities and production target. The plant management part of this section provides a basic knowledge on controlling overall process in the manufacturing plant. The quality inspection and defects controlling is very important activity in garment industries to produce quality products to the export standards. This topics gives enough inputs to the students on industrial engineering concepts.

**OBJECTIVES:**

At the end of the study of V Semester the student will be able to

- To know about Industrial Engineering approach.
- To understand the apparel Production systems.
- To know the basic concepts of Production Management.
- To know about the MRP and Sourcing strategies.
- To understand the inspection methods.
- To learn the sampling procedure and quality audit.
- To learn the different types of care labeling systems..
- To learn the various packing accessories in garment industries
- To understand the packing procedure
- To learn the quality control programs
- To understand the concept of TQM
- To learn the various defects in Garments and analyzing the reasons for them.

## 37852 APPAREL PRODUCTION AND QUALITY CONTROL

### DETAILED SYLLABUS

Contents: Theory

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>APPAREL ENGINEERING</b> Basic concept of Apparel engineering- Flexible Manufacturing- Throughput- Work flow- Plant layout- materials handling- Production systems- Progressive Bundle system- Unit Production system- Modular Production system- Combination of Production system – Mass and Lean production system – Comparison between lean and mass production system - Ergonomics- Industrial engineering concepts- steps involved – Balancing of sewing machine – advantages.	<b>16Hrs</b>
<b>II</b>	<b>PLANT MANAGEMENT</b> Production planning- Plant capacity- Committed Capacity- Available capacity- Potential capacity- Required capacity- Individual operation capacity- Excess capacity- Productivity- Productivity of Direct labour- Selection of Raw materials - Principles of purchasing- Purchasing system based on contracts- Purchasing system based on Sales plan- Economic order quantity-Scheduling of machines- Balancing of work force- Principles of Manufacturing Resource Planning	<b>16Hrs</b>
<b>III</b>	<b>INSPECTION &amp; QUALITY CONTROL</b> Quality control - Definition - Importance of quality - Raw material Inspection - Fabric Inspection - 4 point System - 10 point System - Inspection of Sewing Thread - Zippers - Button, Buckles, Snap Fasteners. In process Inspection - Spreading, Cutting, Sewing, Pressing/Finishing - Final Inspection - AQL random sampling inspection - Sampling Plans - Acceptance Sampling – Quality control system (7 tools of quality control) - Product Quality Audit - Comparability checks - documents required before inspection.	<b>16Hrs</b>

<p><b>IV</b></p>	<p><b>PACKING &amp; CARE LABELLING</b></p> <p>Classification of Packing - Stand up pack - Flat pack - Hanger pack - Hanger with sandwich pack - Dead man pack - its importance.</p> <p>Mass packing – Ratio pack – size wise pack – colour wise pack – assorted pack – un-assorted pack.</p> <p>Different types of packing materials and its Quality parameters - Poly bag – plain / gazetted pack - Back support board - Window board - Plain board - Inner collar patty – PVC - Outer patty - Butterfly - Plastic clips - plain and gripper - Pins - plain and ball head - Hang tags - Price ticket - Fabric tag - Tissue paper -Size sticker - Warning sticker- Cello tape – Cartons.</p> <p>Introduction to Care labels - its importance - Different systems of Care labelling - American - British - Canadian - Japanese - and International labelling – Eco-labelling.</p>	<p><b>16Hrs</b></p>
<p><b>V</b></p>	<p><b>GARMENT DEFECTS &amp; QUALITY MANAGEMENT</b></p> <p>Defects in garments - pattern defects, spreading defects, cutting defects, stitching defects- broken stitch, unravelling seams, re-stitched seams, rolling pockets, skipped stitch, wavy seams - puckering -ways to minimize defects in garments</p> <p>Classification of Garment defects – Major, Minor and Critical defect.</p> <p>Total Quality Management- Phases of TQM- ISO Standards - WRAP certification principles and Procedure – SA 8000 - GOTS certification procedure – Green leaf mark certification.</p>	<p><b>16Hrs</b></p>

**Text Book:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
ISO 9000 Series Manual		New Delhi.	-
Int. to Clothing Production Management	Chuter AJ	Blackwell Science	1995
Materials Management In Clothing Production	David J Taylor	BSP Professional Books London	1991
An Introduction to Quality control for The Apparel Industry	Pradip V Mehta	ASQC Quality press., New York.	2007

**Reference:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
Apparel manufacturing	Ruth E Glock Grace I Kunz	Prentice hall New Jersey	1995





DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

M – SCHEME

V SEMESTER

2015 – 2016 ONWARDS

**PATTERN DRAFTING AND  
CONSTRUCTION - II**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN )

Course Code : 1226  
 Subject Code : 36653  
 Semester : V Semester  
 Subject Title : PATTERN DRAFTING AND CONSTRUCTION- II

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours /Week	Hours /Semester	Marks			
36653 PATTERN DRAFTING AND CONSTRUCTION- II	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	PATTERN DRAFTING FOR MEN'S WEAR – I	14
II	PATTERN DRAFTING FOR MEN'S WEAR – II	14
III	PATTERN DRAFTING FOR LADIES' WEAR-I	14
IV	PATTERN DRAFTING FOR LADIES' WEAR-II	13
V	PATTERN GRADING, FITTING & ALTERATION	13
	TEST & REVISION	7
Total		75

**RATIONALE:**

Pattern drafting is the nerve centre of garment making. Every garment parts are draft to its size for lateral assembling into a garment. This procedure helps to make perfect garment to various sizes. Any alteration is also made within the pattern. The patterns can also be stored for ever and repeated orders are carried out at ease. From the patterns layout is made simple and better marker efficiency is achieved for minimum consumption of fabrics. This part of the subject deals with the complex styles of garments, their pattern drafting, laying & construction.

**OBJECTIVES:**

At the end of the study of V Semester the student will be able to

- Understand the drafting procedure for children's' style.
- Learn the layout and construction procedure for children's style.
- Understand the drafting procedure for ladies' style.
- Learn the layout and construction procedure for ladies' style.
- Learn about pattern grading, fitting and pattern alterations.
- Understand the drafting procedure for men's style.
- Learn the layout and construction procedure for men's style.

**36653 PATTERN DRAFTING AND CONSTRUCTION- II**  
**DETAILED SYLLABUS**

Contents: Theory

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>PATTERN DRAFTING FOR MEN'S WEAR I</b> Pattern drafting procedure for Full sleeve shirt - Pleated trousers - Nehru's Kurta with chinese mandarin collar – Jeans - Pattern layout - Calculation of material consumption - Construction procedure	<b>14 Hrs</b>
<b>II</b>	<b>PATTERN DRAFTING FOR MEN'S WEAR II</b> Pattern drafting procedure for SB Waist Coat – Nehru Jakit - Sherwani – Dressing Gown - Pattern layout - Calculation of material consumption – Construction procedure.	<b>14 Hrs</b>
<b>III</b>	<b>PATTERN DRAFTING FOR LADY'S WEAR I</b> Pattern drafting procedure for 6 panels Sari petticoat - Garara skirt - Cut Choli – Ladies shirt - Straight jacket with front open and Leg-o-mutton sleeve-Pattern layout-Calculation of material consumption - Construction procedure.	<b>14 Hrs</b>
<b>IV</b>	<b>PATTERN DRAFTING FOR LADY'S WEAR II</b> Pattern drafting procedure for Night dress with Front full opening and shawl collar - Survar on bias cutting - Full Maxi with Magyar sleeve – Culottes (Divided skirt) - Pattern layout-Calculation of material consumption - Construction procedure.	<b>13 Hrs</b>
<b>V</b>	<b>PATTERN GRADING, FITTING &amp; ALTERATIONS</b> Define pattern grading - Pattern grading procedure for bodice front, back & sleeve-Variables for fitting-Importance of altering patterns- General principles for pattern alteration- Study of fitting problems and alterations in the following parts- Bust line- Neckline- Shoulder line- Armhole- Bodice back- Sleeves- Study of fitting problems and alterations in Trousers	<b>13 Hrs</b>

**Text Book:**

Title	Author	Publisher	Year
The Art Of Sewing	Anna Jacob Thomas.	Ubs Publishers, Delhi.	2001
Practical Clothing Constructions Part I & II	Mary Mathews	Paprinpack Printers, Chennai.	1982
Zarapkar System Of Cutting.	K.R.Zarapkar	Navneet Publications (I) Ltd., Dantali. Gujarat.	2005
Sew it Yourself	Lippman (Gidon)	Prentice Hall Inc New Jersey	2002

**Reference:**

Comparative Clothing Construction Techniques	Virginn Stolpe Lewis	Surjeet Publications, Delhi	1985
Scientific Garments Cutting	K.M. Hedge	K.M. Hedge & Sons., Poona	1998
Pattern Cutting For Women's Outer Wear	Gerry Cooklin	Blackwell Science Publication, London	2001
Metric Pattern Cutting	Winfred Aldrich	Blackwell Science Publication, London	2003
Metric Pattern Cutting For Children's Wear	Winfred Aldrich	Blackwell Science Publication, London	2004
Pattern grading for Mens' Clothes	Gerry Cooklin	Blackwell Science Publication, London	2000
Pattern grading for Children's Clothes	Gerry Cooklin	Blackwell Science Publication, London	1991
Pattern Grading for womens' Clothiing	Gerry Cooklin	Blackwell Science Publication, London	2004
Step by Step Dress Making course	Leela Aitken	BBC Books, London	1992



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(FASHION AND APPAREL DESIGN)

III YEAR

M – SCHEME

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V SEMESTER

2015 – 2016 ONWARDS

**APPAREL MERCHANDISING**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN )  
 Course Code : 1226  
 Subject Code : 36671  
 Semester : V Semester  
 Subject Title : APPAREL MERCHANDISING

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours /Week	Hours /Semester	Marks			
36671 APPAREL MERCHANDISING	5Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	INTRODUCTION TO MERCHANDISING	14
II	RETAIL MERCHANDISING	14
III	VISUAL MERCHANDISING	14
IV	MERCHANDISE PLANNING	13
V	MARKETING TECHNIQUES & SALES PROMOTION	13
	TEST & REVISION	7
	Total	75

**RATIONALE:**

Apparel merchandising is the common word prevailing in the Garment Industry. Every export unit is having merchandising wing. The officials in this wing are responsible for the execution of orders right from receiving orders to despatching of goods. This subject gives an indepth knowledge on various type of merchandising, the planning, the nature of work of an merchandiser alongwith the marketing techniques and sale promotion activities.

**OBJECTIVES:**

At the end of the study of V Semester the student will be able to

- Understand the merchandising procedures.
- Learn the functions of merchandiser.
- Understand the retail merchandising procedures.
- Learn the prizing procedures.
- Understand the visual merchandising procedures.
- Learn the trends in visual merchandising.
- Understand the merchandising plan.
- Learn to prepare merchandising calendar and activities.
- Learn the marketing techniques.
- Understand the advertising techniques.
- Learn the sales promotion techniques.

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## **36671 APPAREL MERCHANDISING**

### DETAILED SYLLABUS

Contents: Theory

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>INTRODUCTION TO MERCHANDISING</b> Merchandising – Definition – Principles & Techniques – Role of merchandiser – Skills of Merchandiser - Functions of Merchandiser – Types of approval - Sampling – Types of samples- development sample, salesman sample, Approval sample, Preproduction sample, Production sample, shipment sample – Check points for a proper approval – Approving sewing operations and various processes. Product Research – Product Development – Planning – Presentation.	<b>14 Hrs</b>
<b>II</b>	<b>RETAIL MERCHANDISING</b> Introduction to Retail Merchandising – Types of retail merchandising- Department stores – Discounters – Off-price retailers – Outlet source – Close out - Warehouse clubs. Garment Costing – Fabric consumption – Sewing thread consumption - CMT charges for various styles – Costing of woven garment full Sleeve shirt and Trouser– Costing of Knitted garment - T shirt, night gown. Retail pricing – Mark up – Price point – Markdown – Promotional pricing – Deceptive pricing – Non-store retailing – Mail order Merchants – E Tailing – Tele shopping.	<b>14 Hrs</b>
<b>III</b>	<b>VISUAL MERCHANDISING</b> Definition – Elements of Visual Merchandising – Displays – Principles of Displays – Window display – Interior Display – Mannequins – Department displays – Signs – Lighting – Fixtures. Special events –The Environments of visual presentation– Trends in visual merchandising – Small store applications – Boutique - Assessment of Visual Merchandising Programme	<b>14 Hrs</b>

<b>IV</b>	<p><b>MERCHANDISE PLANNING</b></p> <p>Merchandising plan – Planning sales goals –Buying plan – Assortment Planning – Open to buy – Purpose of a six months plan, Elements of a six month plan – Analysis of previous merchandising plan and developing a new plan - Planning components - Merchandising calendar and scheduling.</p> <p>Direct order - Merchant order - CMT order - Vendor and sub-contractor - Requirement of a purchase order – Amendment sheet – Types of Buyer and buying offices- Buyer seller meet.</p>	<b>13 Hrs.</b>
<b>V</b>	<p><b>MARKETING TECHNIQUES &amp; SALES PROMOTION</b></p> <p>Marketing – definition - principles – objectives - strategies – Advertisement Techniques – Broadcast Advertising – Radio advertising – Television Advertising – Advantages &amp; Disadvantages – Magazines – Out-of-home advertising – Direct mail. Advertisement effectiveness. Brief study of E marketing. Sales promotion approaches, effectiveness -Distribution channels – Consumer behaviour in fashion.</p>	<b>13 Hrs</b>

**Text Book:**

Title	Author	Publisher	Year
Marketing Management	Philip . Kotler Kevin Lane Keller	Prentice Hall	2006
Fashion Marketing & Merchandising	Manmeet Sodhia	Kalyani Publishers	
Fashion buying & Merchandising Management	Tim Jackson & David Shaw	Palgrave Master Series	2001
Apparel Manufacturing	Ruth E. Glock Grace I. Kunz	A Simson & Schuster company, Singapore	1995

**Reference:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
Export management	Balagopal.T.A.S	Himalaya Publishing House, Bombay.	1984
Inside the fashion business	Kitty G. Dicerson	Dorling Kindsley(India) Pvt Ltd., New Delhi	2007
Fashion Retailing	Ellen Diamond	Dorling Kindsley(India) Pvt Ltd., New Delhi	2007
Foundations of advertising Theory & Practice	Chunnawala Sethia	Himalaya Publishing House, Bombay	1985
Retail Merchandising	Ernest H Rich	Merrill Publishing company	
Fashion Sales Promotion	Pamela M.Phillips	A Simson & Schuster company , New Jersy	1985
Fashion Marketing	Mike Easey	Blackwell Publishing	2005
Fashion Marketing	Hines & Bruce	Butter worth - Heinemann	2006
Merchandise Buying and Management	Donnellecen John	Fairchild Publication Inc., NY	1999



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

M – SCHEME

V SEMESTER

2015 – 2016 ONWARDS

**INDIAN AND WESTERN COSTUMES**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN)  
 Course Code : 1226  
 Subject Code : 36672  
 Semester : V Semester  
 Subject Title : INDIAN AND WESTERN COSTUMES

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours /Week	Hours /Semester	Marks			
36672 INDIAN AND WESTERN COSTUMES	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	ORIGIN & NEED OF CLOTHING	14
II	COSTUMES OF ANCIENT WORLD	14
III	COSTUMES OF ANCIENT WESTERN CIVILIZATION	14
IV	TRADITIONAL COSTUMES OF INDIA	13
V	COSTUMES OF MODERN WORLD	13
	TEST & REVISION	7
	Total	75

**RATIONALE:**

Fashion begins with historic costumes. In other words it cycles around. All the designers still create designs through inspirations derived from historic costumes. Such a vast complex style of garments exists in this field and one should know the details of costumes of India and Western part of the world to become a master of fashion. This subject provides rich knowledge about various costumes of the world.

**OBJECTIVES:**

At the end of the study of V Semester the student will be able to

- Study about the origin & need of clothing.
- Study about the factors that influence costume changes in ancient period.
- Study about the costumes of pre-historic period.
- Study about the ancient western costumes.
- Know about the history of Indian costumes.
- Study about the traditional costumes & prints of India.
- Study about the costume changes of the modern world.
- Study about the different types of costumes for various purposes.

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## 36672 INDIAN AND WESTERN COSTUMES

### DETAILED SYLLABUS

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>INTRODUCTION TO COSTUMES</b> Origin of clothing –dress out of painting, cutting and other methods- Growth of dress, Need for clothing- factors influencing costume changes- role of costumes as a status symbol, sex appeal, fashion and seasons.	14 Hrs
II	<b>COSTUMES OF ANCIENT WORLD</b> Pre-historic period- discussions on costumes- Sumerian costumes- Cloak- Kaunakas- outer garments- Roman costumes- Tunic- Toga- Stola- Palla- Byzantine costumes- Cloaks- Hose- Pallium- Brief study of costumes on Socio-political and economic point of view- study on colour combinations- view on society reflections.	14 Hrs
III	<b>COSTUMES OF WESTERN COUNTRIES</b> Costumes of Ancient Western Civilization – Egypt, Roman, English, French empires during Renaissance 1500 – 1600 A.D. Jewellery of the period – color combination- Materials – Accessories. Brief study of costumes on Socio-political and economic point of view	14 Hrs
IV	<b>TRADITIONAL COSTUMES OF INDIA</b> Costumes of India, History of Indian Costumes upto Mughal Period, Traditional Costumes of different states in India. Accessories and Garments used in India. Study of Dacca Muslin, Jandhani, Himrus & Amrus Carpets, Kashmir Shawls, Kanchipuram & Baluchari Sarees, Paithani sarees, Bandhani, Patola, Ikat, Kalamkari and other styles of Printing & Dyeing Textiles.	13 Hrs
V	<b>COSTUMES OF MODERN WORLD</b> Costumes of 20 <sup>th</sup> century-factors influencing on costume changes – Study on Business Wears- Evening dress- Sleep wear- Religious wear- Seasonal wear - Specialized wears- Bridal wear – Sportswear- Industrial wear- Party wear- Brief study of costumes on Socio-political and economic point of view- study on colour combinations.	13 Hrs

**Text Book:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
Historic Costumes	Lester K.I.	Chas A Bennet & Co	<b>1991</b>
Costume & Fashion	Laver J	Thames & Hudson	<b>1997</b>
Costume & Fashion	Jack Cassin - Scott	Brockhampton press, London	<b>1999</b>
Costumes of India & Pakistan	Das S N		<b>1984</b>
Indian Costume	G.S Ghurye	Popular Prakasham	<b>1987</b>
History of Fashion	Garland		<b>2001</b>

**Reference:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
The encyclopaedia of Fashion	Georgina 'O' Hara		<b>2002</b>
Fashion in western world	Yarwood Doreep		<b>2002</b>
Costume, Textiles and Jewellery of India	Vandana Bhenderi	Prakash Books, New Delhi, 2004.	

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

M – SCHEME

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V SEMESTER

2015 – 2016 ONWARDS

**CHEMICAL PROCESSING AND  
TESTING OF TEXTILES PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name            DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN )

Course Code            : 1226

Subject Code            : **36555**

Semester                : V Semester

Subject Title            : CHEMICAL PROCESSING AND TESTING OF TEXTILES  
PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject	Instruction		Examination			Duration
	Hours/ Week	Hours/ Semester	Assessment Marks			
36555  CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL	6	90	Internal Marks	Board Exam	Total	3 Hrs
			10			
			25	75	100	

**RATIONALE:**

In Diploma level engineering education skill development plays a vital role. The skill Development can be achieved by providing practical experience in all Pre treatment like de-sizing, scouring & Bleaching and dyeing of fabric with suitable dyes, styles of Printing on various fabric ground. The Testing aspects of all yarn & fabric is also well so understood through proper testing procedure.

**GUIDELINES:**

- All the sixteen experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate Dye bath and testing equipment for exposing the skills in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than three students while examining a batch of 30 students during Board Examinations.

## ALLOCATION OF MARKS

Experiment	60 marks
Write up	10 marks
Viva	05 marks
	_____
Total	75 Marks
	_____

## **FIFTH SEMESTER 36555 CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL**

### **EXPERIMENTS OBJECTIVES:**

To learn desizing, scouring & bleaching of fabrics.

- Desize of woven fabrics.
- Scouring with Alkali - woven and knitted fabrics.
- Bleaching of cotton fabrics with Hydrogen peroxide.

To practice Dyeing of reactive, vat, acid, disperse dyes on relevant fabrics

- Dyeing of Cellulosic fabric with Reactive dyes.
- Dyeing of Silk with Acid dyes.
- Dyeing of Polyester with Disperse dyes - HTHP Dyeing machine.

To learn different printing techniques

- Printing of cotton fabrics with Reactive dyes.
- Printing of fabrics with Pigment dyes.

To understand the properties of yarn & fabrics through testing.

- Determination of wash /rub fastness of the given fabrics/garments.
- Determination of Yarn Count using Physical balance and Beesely balance.
- Yarn Appearance testing - Using Block board and ASTM Grades.
- Determination of tearing strength of fabrics using Tearing strength tester
- Determination of bursting strength of the fabric using Bursting tester.
- Determination of Lea strength using Lea tester.
- Determination of Twist per Inch of Single yarn using Twist testers.

## FIFTH SEMESTER

### 36555 CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL

#### LIST OF EQUIPMENT

Beaker  
Glass rod  
Steel tumbler  
Dye bath  
Physical balance  
Electronic balance\*  
Burners  
HTHP dyeing machine  
Screens  
Squeezer

Printing table  
Padding mangles\*  
Crock meter  
Appearance tester  
Tensile strength tester- fabric  
Tearing strength tester  
Bursting strength tester  
Yarn Lea strength tester  
Twist tester- single yarn  
Twist tester-double yarn

#### Materials required :

20mts of fabric- 30 nos. / expt./ batch of 30 students.

Dye powder ,auxillaries 50 gm- 30nos./expt./ batch of 30 students.

## FIFTH SEMESTER

### 36555 CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL

#### List of Experiments:

1. Desize the given woven fabrics.
2. Scouring the cotton woven fabric using Alkali.
3. Bleach the cotton fabrics with Hydrogen peroxide.
4. Dye the Cellulosic fabric with Reactive dyes.
5. Dye the Silk material with Acid dyes.
6. Print the cotton fabrics with Pigment dyes.
7. Determine the wash /rub fastnesss of the given fabrics/garments.
8. Determine the Yarn Count using Physical balance and Beesely balance.
9. Determine the tearing strength of fabrics using Tearing strength tester.
10. Determine the bursting strength of the fabric using Bursting tester.
11. Determine the Lea strength of a given sample using Lea tester.
12. Determine Twist per Inch of Doubled yarn using Twist testers.

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

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M – SCHEME

V SEMESTER

2015 – 2016 ONWARDS

**FASHION ILLUSTRATION AND  
ACCESSORIES- PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name            DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN )

Course Code            : 1226

Subject Code            : **36556**

Semester                : V Semester

Subject Title            : FASHION ILLUSTRATION AND ACCESSORIES- PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION :**

No of weeks per semester: 15 weeks

Subject	Instruction		Examination Assessment Marks			Duration		
	Hours/ Week	Hours/ Semester	Internal Marks				Board Exam	Total
36556  FASHION ILLUSTRATION AND ACCESSORIES PRACTICAL			10	10	5			
	5	75	25			75	100	3 Hrs

**RATIONALE:**

In Diploma level engineering education skill development plays a vital role. The skill development can be achieved by providing practical experience in creating sketches and drawings of fashionable styles of garment and Accessories for various purposes. The colour aspects and illusion effects are also understood through drawings.

**GUIDELINES:**

- All the twelve experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate drawing table for exposing the skills in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than three students while examining a batch of 30 students during Board Examinations.

### ALLOCATION OF MARKS

Drawing Experiment	60 marks
Write up	10 marks
Viva	05 marks
	—————
Total	75 Marks
	—————

### **FIFTH SEMESTER 36556 FASHION ILLUSTRATION AND ACCESSORIES- PRACTICAL**

#### **EXPERIMENTS OBJECTIVES:**

To get Practical knowledge on development colours based on schemes

- Drawing of color charts – 12 color wheel
- Drawing of color charts – 18 color wheel.
- Drawing of different tint & shade
- Drawing of Related color scheme
- Drawing of contrasting color scheme

To get Practical knowledge on Designing of Garments for various season

- Design a Summer Wear with suitable colour combination
- Design a Winter Wear with suitable colour combination

To get Practical knowledge on designing of Fashion accessories

- Design a Ladies handbag with suitable decoration
- Design footwear suitable for men and women
- Design a hat for different occasion
- Design a ear ring and necklace ornament with suitable decoration
- Design a Waist belt for ladies and Gents



**FIFTH SEMESTER**  
**36556 FASHION ILLUSTRATION AND ACCESSORIES- PRACTICAL**

**LIST OF EQUIPMENT**

**Equipments required:**

Pencil  
Poster Color  
Paint  
Brushes (Different sizes)  
Scale  
Palette  
Crayons

**Material required :**

Drawing Sheet, Leather Board

Drawing table- 30 nos.

**Materials required :**

Chart paper- A4/ A3 size- 30 nos. / expt./ batch of 30 students.

Drawing tools & colouring tools- 30nos./expt./ batch of 30 students.

**FIFTH SEMESTER**  
**36556 FASHION ILLUSTRATION AND ACCESSORIES- PRACTICAL**

**List of Experiments:**

1. Draw a colour charts – Pigment theory(Primary, Secondary & Tertiary)
2. Draw a colour charts – 12 colour wheel
3. Draw a different tint & shade
4. Draw a Related colour scheme
5. Draw a contrasting colour scheme
6. Design a Summer Wear with suitable colour combination
7. Design a Winter Wear with suitable colour combination
8. Design a Ladies handbag with suitable decoration
9. Design footwear suitable for men and women
10. Design a ear rings and necklace ornament with suitable decoration
11. Design a Bracelet for ladies and gents
12. Design a Waist belt for ladies and Gents.



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

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M – SCHEME

V SEMESTER

2015 – 2016 ONWARDS

**PATTERN DRAFTING AND  
CONSTRUCTION - II PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN )

Course Code : 1226

Subject Code : **36557**

Semester : V Semester

Subject Title : PATTERN DRAFTING AND CONSTRUCTION- II PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION:**

**No of weeks per semester: 15 weeks**

Subject	Instruction		Examination Assessment Marks			Duration
	Hours/Week	Hours/Semester	Internal Marks			
36557 PATTERN DRAFTING AND CONSTRUCTION - II PRACTICAL			10	10	5	
	5	75	25			75
						100
						3 Hrs

**RATIONALE:**

Garment production starts with drafting of patterns of various parts of the garment. This technique helps the manufacturers in assembling the parts perfectly in the next process. Further it assists to calculate the requirement of fabric for garment construction and subsequently reduced fabric consumption and increased profits. This practical subject provides hands on experience on the method of drafting and constructing each and every part of complex styled garments with variety of front, back, yoke, collar, cuff, skirt panels etc.

**GUIDELINES:**

- All the twelve experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate drafting table, drafting tools for creating patterns and sewing machines of various types in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than three students while examining a batch of 30 students during Board Examinations.

### **ALLOCATION OF MARKS**

Pattern preparation	50 marks
Drafting procedure	20 marks
Viva	05 marks
	_____
Total	75 Marks
	_____

### **FIFTH SEMESTER 36557 PATTERN DRAFTING AND CONSTRUCTION - II PRACTICAL**

#### **EXPERIMENTS OBJECTIVES:**

##### **Children's wears.**

To prepare the paper pattern and construct the Garment - Party dress - Frock with Peter Pan collar, Puff sleeve & Frilled skirt

To prepare the paper pattern and construct the Garment - Garara Skirt

To prepare the paper pattern and construct the Garment - Divided skirt ( culottes)

##### **Ladies' wears.**

To prepare the paper pattern and construct the Garment – Sari petti-coat - 6 panels

To prepare the paper pattern and construct the Garment – Night dress -Front full opening

To prepare the paper pattern and construct the Garment – Cut choli

To prepare the paper pattern for the Garment – Magyar choli

##### **Gents' wears.**

To prepare the paper pattern and construct the Garment – Full sleeve shirt

To prepare the paper pattern for the Garment – Pleated trouser

**FIFTH SEMESTER  
36557 PATTERN DRAFTING AND CONSTRUCTION- II PRACTICAL**

**LIST OF EQUIPMENT**

**Equipment required:**

Pattern table- 8'x4' table- 4 nos.

**Sewing machines-**

Lock stitch- 15 m/cs.  
Over lock- 2 m/cs  
Flat lock- 1 m/c  
Button hole- 1 m/c  
Button stitch- 1 m/c  
4- Needle trimmer\*- 1 m/c  
Chain stitch\*- 1 m/c  
Feed- off-arm\*- 1 m/c  
Iron press- 1m/c  
\*Optional

**Materials required:**

Pattern paper-30 nos./expt /batch of 30 students  
Measuring, drafting & general tools-30/ batch of 30 students

1.5 – 2 meters of fabric/ expt. / batch of 30 students.  
Sewing threads- white, assorted  
Decorative materials

**FIFTH SEMESTER**  
**36557 PATTERN DRAFTING AND CONSTRUCTION- II PRACTICAL**

**LIST OF EXPERIMENTS**

1. Prepare the paper pattern for Men's f/s shirt.
2. Using given paper pattern cut, stitch and finish the Garment – Men's f/s shirt.
3. Prepare the paper pattern, cut, stitch and finish the Garment - Garara Skirt
4. Prepare the paper pattern, cut, stitch and finish the Garment - Divided skirt ( culottes)
5. Prepare the paper pattern, cut, stitch and finish the Garment – Sari petti-coat - 6 panels
6. Prepare the paper pattern for Night dress -Front full opening
7. Using given paper pattern cut, stitch and finish the Garment - Night dress -Front full opening
8. Prepare the paper pattern cut, stitch and finish the Garment - Survar – bias cutting
9. Prepare the paper pattern – Nehru's Kurta with chinese mandarin collar
10. Prepare the paper pattern – Maxi
11. Prepare the paper pattern, cut, stitch and finish the Garment – Cut choli
12. Prepare the paper pattern – Straight jacket.
13. Prepare the paper pattern – Pleated trouser

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**VI SEMESTER**

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

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M – SCHEME

VI SEMESTER

2015 – 2016 ONWARDS

**TEXTILE MANAGEMENT**

CURRICULUM DEVELOPMENT CENTRE



**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN )  
 Course Code :  
 Subject Code : 36061  
 Semester : VI Semester  
 Subject Title : TEXTILE MANAGEMENT

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours /Week	Hours /Semester	Marks			
TEXTILE MANAGEMENT	5	75	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and allocation of hours:**

Sl.No.	Topic	Time (hrs.)
I.	FUNDAMENTALS AND PERSONNEL MANAGEMENT	14
II.	PRODUCTION MANAGEMENT	14
III.	SUPERVISORY AND SAFETY MANAGEMENT	14
IV.	INVENTORY CONTROL AND FINANCIAL MANAGEMENT	13
V.	EXPORT MARKETING MANAGEMENT	13
	TEST & REVISION	7
<b>Total</b>		<b>75</b>

**RATIONALE:**

- To study the fundamental concept in personal management , production management and export marketing management .
- To enhance the knowledge for the supervisory job in textile mills , their authority and responsibility will be taught to the students.
- To improve the knowledge in inventory control in stores and also financial management techniques will be taught to the students.

**Objectives**

- To know about the fundamentals of management and the various functions of personnel management.
- To have knowledge about components and systems of wage payment.
- To know about the various labour welfare activities.in a textile mill.
- To know about the layouts and industrial buildings, factors influencing selection of site.
- To know about productivity, labour and machine productivity and the factors affecting them.
- To know about the role of supervisor in a textile unit, causes and precautions and prevention of industrial accidents and safety devices used in textile mills..
- To know about inventory control and the methods adopted, material handling in textile mills.
- To know about financial management, cost and its components, calculation of Ex mill price and break even analysis.
- To know about export policy of India, export promoting agencies and their functions, export order processing and export pricing methods.

## 36061 - TEXTILE MANAGEMENT

### DETAILED SYLLABUS

UNIT	NAME OF TOPICS	Hours
1	<p><b><u>INTRODUCTION TO MANAGEMENT, SITE SELECTION, PLANT LAY OUTS</u></b></p> <p>Definition of Management. Functions of management – Organising, Staffing, Directing, and Controlling. Organisation structure-line, staff, line and staff, committee organisation. Selection of site-advantage and disadvantages and various factors of site selection for various textile industries. Importance and types industrial buildings, lightings, ventilations and humidification. Control of air, water and land pollution in textile industry. Plant layout-process, product, combined and fixed layouts-their merits and demerits. Type of layout suitable for spinning, weaving, textile processing and garment industries</p>	13
2	<p><b><u>PRODUCTION AND FINANCIAL MANAGEMENT</u></b></p> <p>Factors affecting production. Productivity- Factors affecting productivity. Labour productivity and machine productivity. Work Study–Method Study and Work Measurement. Procedures of method study and work measurement. Importance of Material handling and various machineries of it in textile industry. Production Planning and Control (PPC) – Functions of PP&amp;C. Inventory control - Economic Order Quantity (EOQ), ABC and VED Analysis. Financial Management – Capital Cost and Working Capital - Sources of Finance. Elements of Cost - Method of calculating Ex Mill Price. Break even analysis. Depreciation. Enterprise Resource Planning (ERP)</p>	14
3	<p><b><u>HUMAN RESOURCE MANAGEMENT</u></b></p> <p>Importance of Human Resource management in an industry. Man power planning –Definition of job analysis and job description – methods of job description and job analysis. Recruitment – Sources, merits and demerits. Selection process in recruitment. Training of Employees – advantages and types</p>	14

	of training. Wages and its Components-Basic pay, DA, HRA, bonus, incentive. Method of wage payment- time rate, piece rate, combination of time and piece rate. Incentives – types and their merits and demerits. Labour Welfare activities – Role of Labour Welfare Officer. Labour grievances - causes and effects of grievances. Grievance handling procedures. Grievance handling mechanisms.	
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4	<p><b><u>SUPERVISORY AND SAFETY MANAGEMENT</u></b></p> <p>Define Supervision-Role of supervisor, characteristics of effective supervision. Role and characteristics of leadership. Difference between leader and manager. Motivation- need, importance and types of motivation-Maslow's theory, XYZ theory in motivation. Communication- Principle of effective communication - types of communication - barriers of communication. Labour welfare activities with respect to factories act. Industrial safety- Causes for accidents, preventive measures. Guards and safety devices in textile mill. Types of fire and fire prevention. Application of 5 S and Kaizen principles for effective supervision.</p>	13
5	<p><b><u>EXPORT AND CONTEMPORARY MANAGEMENT</u></b></p> <p>Importance and benefits of international marketing. World Trade Organisation (WTO) – functions of WTO. Various export promotion measures by government of India. Functions of TEXPROCIL, AEPC, PEDEXIL, HEPC, Textile committee, Textile commissioner's office. Export procedure-receipt of confirmed order-export production-export documentation - Export incentives. Importance of Shipping bill and bill of lading. Export finance –pre shipment finance and post shipment finance. Letter of Credit. Export price composition. Export pricing-Ex factory, Free Along Side (FAS), Free On Board (FOB), Cost Insurance Freight (CIF) and Franco pricing. Management Information System (MIS),Just In Time (JIT),Total Quality Management (TQM),</p>	14

**TEXT BOOKS:**

S.NO	TITLE	AUTHOR	PUBLISHERS	YEAR
1	Principles Of Management	P.C.Tripathi	Tata Mcgrow Publishing Compny Ltd, New Delhi	2001
2	Management Of Textiles	DudegA.V.D	Trade Press, Textile Indistry ,Ahemadabad	1981

**REFERENCE:**

S.NO	TITLE	AUTHOR	PUBLISHERS	YEAR
1	Industrial Eng. And Management	Balasundaram.K	Sri. Ramalingasowdeswari Publications, Coimbatore.	2005
2	Personnel Management Of Humoun Resoures	MamoriA.C.B	Himalaya Pubishingh House, Mumbai	1999
3	Orgisation Theory&Behaviour	Luthans.F	Printece Hall Of India	2001
4	Management Of Textile	Ormerod.A	Butter Worth &Company	1979
5	Industeial Eng. &Management Science	BaugA.T.R;Etal	Khanna Publisher New Delhi	1996
6	Business Management Theory	SingA. J.C & Mugali.V.N	Edition (5) R.Chand & Co, New Delhi	2002
7	Costing In Textle Mills	Sitra	Sitra, Coimbatore	2002



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

M – SCHEME

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VI SEMESTER

2015 – 2016 ONWARDS

**FASHION CONCEPTS AND DESIGN  
TECHNIQUE**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN)  
 Course Code :  
 Subject Code : 37862  
 Semester : VI Semester  
 Subject Title : FASHION CONCEPTS AND DESIGN TECHNIQUE

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours/Week	Hours/Semester	Marks			
			Internal Assessment	Board Examination	Total	
37862 FASHION CONCEPTS AND DESIGN TECHNIQUE	5 Hrs	75 Hrs	25	75	100	3 Hrs

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	PRINCIPLES AND ELEMENTS OF DESIGN	14
II	COLOR ASPECTS	14
III	DESIGN PATTERN IN FABRICS	14
IV	DESIGN ASPECTS & PORTFOLIO	13
V	WARDROBE PLANNING AND FASHION INDUSTRY	13
	TEST & REVISION	7
Total		75

**RATIONALE:**

Garments are the value added products of Textiles, which improves the economy of our country. Fashion concepts & design technique is part of the subject which enhances the value of the products further. The fashion designing subject provides in depth knowledge on elements of design, colouring, creation of styles, illusions, wardrobe planning and fashion industry work nature.

**OBJECTIVES:**

At the end of the study of VI Semester the student will be able to

- To understand the principles & basics of design
- To study the various elements used in design.
- To learn the various color system.
- To understand the Fashions & fashion concepts.
- To study various fashion designers & their styles.
- To understand the different pattern in fabrics.
- To study the developments of different pattern on fabrics.
- To know about the ingredients of fashion design.
- To learn about the fashion design development.
- To understand the wardrobe planning.
- To learn about the fashion industry and its contribution.



## 37862 FASHION CONCEPTS & DESIGN TECHNIQUE

### DETAILED SYLLABUS

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>PRINCIPLES AND ELEMENTS OF DESIGN</b> Introduction to Elements of Design - Different types of lines and Shapes on dresses - Light and Shade effects on dresses. Illusion created by Lines, Shapes, Texture and Colour. Introduction to Principles of Design – Unity, Emphasis, Balance, Proportion and Rhythm on dress. Harmony on dress. Study of Structural and Decorative Design - Different types of Structural design on dress - Study of Decorative items - Different types of decorative design on dress - Characteristics of a good decorative design.	14 Hrs
II	<b>COLOR ASPECTS</b> Colour theory – Introduction to Light Colour Theory and Pigment Colour Theory - Study of Pigment theory Primary - Secondary - Tertiary colours – Study of 12 colour wheel- Study of Colour Scheme –Related colour scheme and Contrast colour scheme. Study of colour dimension - Psychology of colour on dress - Application of colour on dress - Application of colour on different seasons – Warm and cool colours - Colour combinations – Brief Study of Munshell systems - Brief Study of Colour harmony.	14Hrs
III	<b>DESIGN DEVELOPMENT</b> Study of Pattern in fabrics - Naturalistic abstract - Conventional – Geometric - floral - Animate - Stylized - Traditional - Spot design - All over design- Unit repeating design - Half drop design - Diamond base design - Drop reverse design - Rectangular base design - Vertical wave line design - Striped - Checked – Border designs - Selecting patterned fabrics- Motif development -Types - placing on	14Hrs

	Garments- Introducing repeats on fabrics & garments.	
<b>IV</b>	<p><b>DESIGN ASPECTS&amp; PORTFOLIO</b></p> <p>Concepts of Design – Background to the world of Fashion Design – Definition of Fashion Designing – Initial steps of fashion designing – Ingredients of Fashion Designing – Designing Development – Source of Inspirations – Drawing Fashion Details – Design Development from Pictures and photographs – Computer Aided Designing - Portfolio development and its importance.</p>	<b>13 Hrs.</b>
<b>V</b>	<p><b>WARDROBE PLANNING AND FASHION INDUSTRY</b></p> <p>Characteristics of well dressed person – Factors influencing personality – Wardrobe planning for different ages – Economy in dress - Dress for occasions – Dress for seasons. Fashion industry- Fashion Director, Fashion Designer – Study of American, French, Italian and Indian Designers – Fashion capital - Study of Fashion Shows and Fashion magazines / Videos.</p>	<b>13Hrs</b>

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**Text Book:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
Elements of Design & Apparel Design	Sumathi.G.J	New Age International, Delhi	2002
Illustrating Fashion	Kathryn McKelvey& Janine Munslow	Blackwell Publishing	2005
Fashion Design Process, Innovation& Practice	Kathryn McKelvey& Janine Munslow	Blackwell Publishing	2003

**Reference:**

<b>Title</b>	<b>Author</b>	<b>Publisher</b>	<b>Year</b>
The arts of costume & Personal appearance	Grace Margarit Morton	John wiley&Sons London.	1998
How you look and dress	Byrta Carson	Megraw - Hill Book co.London.	2001
Fabrics and dress	Ruthtone and Tarplay	Houghton Mifflin London	1996
Elementry Costume design	Harisonfeather	JohnWileyandSons Stone Dorothy	
Dress Designing	H.F.Kepworth	The English Univ.PressLtd., London	2003
Essential of Design	Degrmo Winslow	MacillionCo.New York.	2002
Men's wardrobe	Thames and Hudson	London	2006
Fashion The Century Of The Designer	Charlotte Seeling		2004

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DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

M – SCHEME

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VI SEMESTER

2015 – 2016 ONWARDS

**INTERIOR DECORATION**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN)  
 Course Code : 1226  
 Subject Code : 37881  
 Semester : VI Semester  
 Subject Title : INTERIOR DECORATION

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours /Week	Hours /Semester	Marks			
37881 INTERIOR DECORATION	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Unit	Topic	Time in Hrs
I	INTRODUCTION	14
II	COLOR , LIGHTING, AND FURNITURE	14
III	FLOOR, WINDOW & DOOR DECORATION	14
IV	SELECTION OF PICTURES AND DECORATION	13
V	DECORATIVE ACCESSORIES	13
	TEST & REVISION	7
	<b>Total</b>	<b>75</b>

## **RATIONALE:**

Interior Decoration is very much appreciated in the emerging civil construction particularly in hotels, office and homes. In this subject the students get knowledge on various interior decoration techniques like lighting and products used for decorations. By knowing this technique they may become a entrepreneur in Interior decoration. .

## **Objectives**

- To have knowledge on textile furnishing.
- To learn importing & exporting of home furnishing.
- To know about the selection of lightning for interior.
- To learn about the selection furniture for interior.
- To study on different window & door decoration.
- To learn the get knowledge on furnishing draperies & materials.
- To study the pictures for interior decoration.
- To get knowledge on various flower arrangement.
- To get knowledge on decorating accessories & types.
- To study on interior decoration for special events.

## 37881 INTERIOR DECORATION

### DETAILED SYLLABUS

#### Contents:Theory

Unit	Topic	Time in Hrs
I	<b>INTRODUCTION:</b> Introduction to Textile furnishing- Definition- Different type of furnishing Materials- woven and Non Woven-Introduction to Interior Decoration – Material Requirements - Factors affecting selection of Home furnishings-International Home furnishing Products – Country wise – Importing & Exporting of Home furnishings from India. Importance of Good Taste- Design- Definition- Elements and Principles of Design	14Hrs
II	<b>COLOR , LIGHTING, AND FURNITURE:</b> Role of colour in interior decoration, - Lighting arrangements in Living room – Local lights- indirect light – Furniture – selection – points to be considered for selecting furniture. Furniture arrangement in Living – Dining room – Furnishing Furnitures –Types of Textile materials used - Types of Products – Decorative Methods .	14Hrs
III	<b>FLOOR, WINDOW &amp; DOOR DECORATION:</b> Rugs and Carpets – Definition – Difference between rugs and carpets – points to be considered while selecting Floor covering – Decorative and functional values of floor coverings. Aims of window treatment – different types of curtains – glass curtains – tie. Back curtain selection of fabrics for curtain.Methods of Furnishing draperies – Tucks Pleats, Shaped & Piped – Bows- Design & Application of Drapery rods – Ring Hooks – Tape.	14Hrs
IV	<b>SELECTION OF PICTURES AND DECORATION:</b> Pictures- the appeal of a picture & suitability of the picture to the rooms- framing pictures – hanging of pictures - substitutes for pictures - Accessories. Flower Arrangement- Beauty of line and colour in flower arrangement selection of vases – the arrangement of flowers – Japanese flower arrangement – importance of leaves.	13Hrs
V	<b>DECORATIVE ACCESSORIES:</b> Decorative Accessories- types – Applications – Uses of each accessories – Factors to be considered for selecting & applying accessories – Color combinations – Color scheme selection – Proportion of accessories – Study of Interior decoration for Home, Office, Star Hotels and Special Place like Marriage hall, Fashion stage. Recommendations for good Interior Decoration.	13Hrs

Title	Author	Publisher	Year
<b>Text books:</b>			
New decorating book	Pamela Wilson Cullison	Meredith corporation, Lowa, USA	2006

<b>Reference books:</b>			
Art in everyday life	Harriet Goldstein, Vetta Goldstein	Oxford & publishing & co	2004
The craft of soft furnishing	Anne van wyke	Stanley paul, London	2004
How to make ties & table cloths	Jerry Kirschen Grosset and dunlop	A national general company, Newyork	2001





DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

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M – SCHEME

VI SEMESTER

2015 – 2016 ONWARDS

**FASHION DRAPING**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 (FASHION AND APPAREL DESIGN)  
 Course Code : 1226  
 Subject Code : 36682  
 Semester : VI Semester  
 Subject Title : FASHION DRAPING

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject Title	Instructions		Examination			Duration
	Hours /Week	Hours /Semester	Marks			
36682 FASHION DRAPING	5 Hrs	75 Hrs	Internal Assessment	Board Examination	Total	3 Hrs
			25	75	100	

**Topics and Allocation of Hours:**

Sl.No.	Topic	Time(Hrs)
I	INTRODUCTION TO DRAPING	14
II	DRAPING OF BODICE BLOCKS & VARIATIONS	14
III	DRAPING OF SKIRTS& SLACKS	14
IV	DRAPING OF YOKES, SLEEVES & COLLAR	13
V	DRAPING OF ADVANCED DESIGN VARIATIONS & KNIT GARMENTS	13
	TEST & REVISION	7
	Total	75

**RATIONALE:**

Draping is an art of wrapping the dress materials on the body. The same technique is extended to produce required patterns of basic and complicated styles of garment. This subject deals with the preparation of patterns of various parts of the garment without drawing tools, measurements but with the aid of relevant dummy or mannequin.

**OBJECTIVES:**

At the end of the study of VI Semester the student will be able to

- Understand the Draping tools & Procedure.
- Learn about draping of basic bodice& sleeves
- Understand the draping of Bodice blocks & its variations.
- Learn about introduction of varies fullness.
- Understand the draping of Skirts
- Understand the draping of Slacks.
- Learn the draping of Yokes & collars
- Understand the draping of sleeves.
- Understand the draping of advanced design variations.
- Learn the draping of knit garments.

## **36682 FASHION DRAPING**

### DETAILED SYLLABUS

Contents: Theory

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>INTRODUCTION TO DRAPING</b>  Definition of Draping – Draping Tools & Equipments – Draping principles – Preparation of muslin for Draping – Seam allowance – Preparation of Dress form for Draping  Draping of Basic Bodice front – Preparation of muslin – Draping steps – Marking – Truing - Draping of Basic Bodice Back – Draping of Basic Sleeve – Draping of Basic Skirt.	<b>14 Hrs</b>
<b>II</b>	<b>DRAPING OF BODICE BLOCKS &amp; VARIATIONS</b>  Front Bodice with under arm Dart – Back Bodice with Neckline Dart – Dart manipulation – Waist line Dart – Dart at waistline and centre front – French Dart – Double French Dart – Flange Dart – Neckline Dart -- Neckline variations – Front & Back Armhole variations – Typical sleeveless – Squared – Cutaway  Waist line variation – lowered – Empire – Shortened – Scalloped – Pointed. The Princes Bodice – Cowls -front— Under arm cowl – Wrapped neckline cowl. Twists – Butterfly Twist — Neck yoke twist – Bust twist.	<b>14 Hrs</b>
<b>III</b>	<b>DRAPING OF SKIRTS &amp; SLACKS</b>  Draping of one piece basic skirt – Gored skirt – Flared skirt – Pleats in the flared skirt – Gathers in the flared skirt – Pleated skirt – Side & Box pleated skirt – Kick pleated and inverted pleated skirt.  Draping of basic straight slacks – Fitted slacks – Tapered slacks – Pegged slacks – Divided skirt	<b>14 Hrs</b>

<b>IV</b>	<p><b>DRAPING OF YOKES, SLEEVES &amp; COLLARS</b></p> <p>Draping of fitted midriff Yoke — Shirt yoke – Hip Yoke. Draping of – Mandarin Collar – Convertible collar – Peterpan collar. Draping of Basic Dolman sleeve – Long fitted Dolman sleeve — Reglan sleeve – Kimono sleeve with a gusset.</p>	<b>13 Hrs</b>
<b>V</b>	<p><b>DRAPING OF ADVANCED DESIGN VARIATIONS &amp; KNIT GARMENTS</b></p> <p>Draping of bias – Cut slip Dress – Bustier Designs – basic Knit Bodice Dress – Knit Halter - Knit Leotard - Knit Panties.</p> <p>Draping of Flounces – Circular flounce – Shirred Flounce – Draping of Ruffles – Variable Ruffle finishes – Draping of peplums. Draping of 'A'line shift – Draping of Princess Dress – Draping of Basic Jacket.</p>	<b>13 Hrs</b>

**Text Book:**

Title	Author	Publisher	Year
The Art of Fashion Draping	Connie Amaden Crawford	Fair Child Publication, New York Om Books International, New Delhi	2005
Draping for Fashion Design	Hilde Jaffe & Nurie Relis	Prentice Hall career & Technology, Engle wood Cliffs, USA	2002

**Reference:**

Title	Author	Publisher	Year
Draping for Fashion Design	Hilde Jaffe & Nurie Relis	Dorling Kindersley India Pvt Ltd., New Delhi-110092	<b>2009</b>



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

M – SCHEME

VI SEMESTER

2015 – 2016 ONWARDS

**FASHION CAD PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name            DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

Course Code            : 1226  
 Subject Code         : **36564**  
 Semester              : VI Semester  
 Subject Title         : FASHION CAD PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject	Instruction		Examination			Duration
	Hours/Week	Hours/Semester	Assessment Marks			
36564  FASHION CAD PRACTICAL	4	60	Internal Marks	Board Exam	Total	3 Hrs
			10			
			25	75	100	

**RATIONALE:**

In Diploma level engineering education skill development plays a vital role. The skill development can be achieved by providing practical experience in creating sketches and drawings of fashionable styles of garment using computer with suitable software. The colour aspects and illusion effects are also understood through drawings. This practical helps the students to perform better in computerized fashion designing for design developments.

**GUIDELINES:**

- All the sixteen experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate computer for exposing the skills in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than three students while examining a batch of 30 students during Board Examinations.

### ALLOCATION OF MARKS

Drawing Experiment	60 marks
Write up	10 marks
Viva	05 marks
Total	<u>75 Marks</u>

### **SIXTH SEMESTER 36564 FASHION CAD PRACTICAL**

#### **EXPERIMENTS OBJECTIVES:**

Doing the following practical with fashionable colour combinations & accessories.  
Understanding the different tools used for design development with computer.

#### Drawing of children's wear using computer

- frock design using any relevant software.
- Party dress for children using any relevant software.

#### Drawing of ladies garment style using computer

- Kameeze design using any relevant software.
- Chudidhar design using any relevant software.
- ladies skirt design using any relevant software.
- Sari blouse design using any relevant software.
- Night dress design using any relevant software.
- Fashionable party dress for Ladies using any relevant software

#### Drawing Men's wear for different occasion with suitable colours

- Kalidar kurtha design using any relevant software.
- Men's shirt design using any relevant software
- Beach wear design using any relevant software.
- sports wear design using any relevant software.
- Bridal wear design using any relevant software.
- Shorts design using any relevant software.
- Evening wear using any relevant software
- Trouser design using any relevant software



**SIXTH SEMESTER**  
**36564 FASHION CAD PRACTICAL**

**LIST OF EQUIPMENT**

Computer system

Colour Printer

Scanner

Software- Flash,

3D Max,

Coral Draw,

Photoshop

Garment fashion CAD.

**Materials required :** Printing paper

**SIXTH SEMESTER**

**26564 FASHION CAD PRACTICAL**

**LIST OF EXPERIMENTS**

Do the following practical with fashionable colour combinations& accessories

1. Draw a frock design using any relevant software.
2. Draw a Party dress for children using any relevant software.
3. Draw a Kameeze design using any relevant software.
4. Draw a Chudidar design using any relevant software.
5. Draw a ladies skirt design using any relevant software.
6. Draw a Men's shirt design using any relevant software.
7. Draw a Sari blouse design using any relevant software.
8. Draw a Night dress design using any relevant software.
9. Draw Fashionable party dress for Ladies using any relevant software.
10. Draw a Trouser design using any relevant software.
11. Draw a Kalidar kurtha design using any relevant software.
12. Draw a Beach wear design using any relevant software.
13. Draw a sports wear design using any relevant software.
14. Draw a Bridal wear design using any relevant software.



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

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M – SCHEME

VI SEMESTER

2015 – 2016 ONWARDS

**FASHION CONCEPTS AND DESIGN  
PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name DIPLOMA IN APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN)

Course Code : 1226

Subject Code : **36565**

Semester : VI Semester

Subject Title : FASHION CONCEPTS AND DESIGN PRACTICAL

**TEACHING AND SCHEME OF EXAMINATION :**

No of weeks per semester: 15 weeks

Subject	Instruction		Examination			Duration	
	Hours/Week	Hours/Semester	Assessment Marks				
36565 FASHION CONCEPTS AND DESIGN PRACTICAL	5	75	Internal Marks			Board Exam	Total
			10	10	5		
			25	75	100	3 Hrs	

**RATIONALE:**

In Diploma level engineering education skill development plays a vital role. The skill development can be achieved by providing practical experience in creating sketches and drawings of fashionable styles of garment for various purposes. The colour aspects and illusion effects are also understood through drawings.

**GUIDELINES:**

- All the sixteen experiments given in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate drawing table for exposing the skills in the laboratory.
- The external examiners are requested to ensure that a single experimental question should not be given to more than three students while examining a batch of 30 students during Board Examinations.

**ALLOCATION OF MARKS**

Drawing Experiment	60 marks
Write up	10 marks
Viva	05 marks
<b>Total</b>	<b>75 Marks</b>

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**SIXTH SEMESTER**  
**36565 FASHION CONCEPTS AND DESIGN PRACTICAL**

**EXPERIMENTS OBJECTIVES:**

Designing of Fashion Garments for different occasion with suitable structural details and colour combinations

- Bridal Wear with suitable colour combination.
- Evening Wear with suitable colour combination
- Sleep Wear with suitable colour combination
- Night dress with suitable motif and colour combinations
- Beach wear for men's with suitable accessories
- swimwear with suitable colour combinations

Design Fashion Garment Development from basic style form

- Flared / Fitted/ Pleated/ Gathered Skirts.
- Fashionable Garments from a basic silhouette.
- Haute Couture Garment – Justification of color combination.
- Kids garments and apply a suitable motif and colour
- Designer sari with decorative surface ornamentation
- Garment design from a photograph

Developing variety of surface effects by rendering

- Rendering print combination with checks.
- Rendering print combination with stripes.

Developing motif from various sources

- Motif from natural sources
- Motif from historical designs

## SIXTH SEMESTER

### 36565 FASHION CONCEPTS AND DESIGN PRACTICAL

#### LIST OF EQUIPMENT

Drawing table- 30 nos.  
Pencil (HB,2B)  
Poster Color  
Water color  
Color pencil  
Paint  
Brushes ( Different sizes)  
Scale  
Palette  
Crayons

#### Material required :

Drawing Sheet, Leather Board.

#### Materials required :

Chart paper- A4/ A3 size- 30 nos. / expt./ batch of 30 students.

Drawing tools & colouring tools- 30nos./expt./ batch of 30 students.

## SIXTH SEMESTER

### 36565 FASHION CONCEPTS AND DESIGN PRACTICAL

#### List Of Experiments:

1. Design a Bridal Wear with suitable colour combination.
2. Design a Evening Wear with suitable colour combination
3. Design a Sleep Wear with suitable colour combination
4. Draw on the croqui – Flared / Fitted/ Pleated/ Gathered Skirts.
5. Develop a range of Fashionable Garments from a basic silhouette.
6. Draw a Haute Couture Garment – Justification of colour combination.
7. Draw a design with rendering print combination with checks.
8. Draw a design with rendering print combination with stripes.
9. Draw a garment design from a photograph
10. Design a swimwear with suitable colour combinations
11. Design a motif from natural sources
12. Design a motif from historical designs
13. Design a kids garments and apply a suitable motif and colour



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

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M – SCHEME

VI SEMESTER

2015 – 2016 ONWARDS

**HANDICRAFTS PRACTICAL**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN APPLIED ARTS AND CRAFTS**  
**M-SCHEME**

(To be implements from the students admitted from the year 2015-2016 onwards)

Course Name: Arts & Crafts(Fashion & Apparel Design)

Course Code : 1226

Semester : VI Semester

Subject Title : **HANDICRAFTS- PRACTICAL**

**TEACHING AND SCHEME OF EXAMINATION:**

**No of weeks per semester: 15 weeks**

Subject	Instruction		Examination				
	Hours/Week	Hours/Semester	Assessment Marks				
36566 HANDICRAFTS PRACTICAL	Hours/Week	Hours/Semester	Internal Marks			Board Exam	Total
			10	10	5		
	5	75	25			75	100

**RATIONALE:**

In Diploma level engineering education skill development plays a vital role. The skill development can be achieved by providing practical experience in creating various Handicrafts products like Toy making and Accessories for various purposes. The colour aspects and illusion effects are also understood through drawings.

**GUIDELINES:**

- All the Twelve in the list of experiments should be completed and given for the end semester practical examination.
- In order to develop best skills every students should be provided with a separate sewing machine
- The external are requested to ensure that a single experimental question should not be given to more than three students while examining a batch of 30 students during Board Examinations.

**ALLOCATION OF MARKS**

Preparing products	60 marks
Write up	10 marks
Viva	05 marks
Total	75 Marks

**SIXTH SEMESTER  
36566 HANDICRAFTS- PRACTICAL**

**EXPERIMENTS OBJECTIVES:**

To practice paintings techniques on various media.

- Prepare a greeting card using Poster paints.
- Paint designs on table cloth by using fabric paints.
- Paint designs on hand towels by using Nib painting.
- Prepare wall hangers by using glass painting.
- Paint a pot by using pot painting.

To learn the cutting, stitching & finishing of bag, purse, soft toys.

- Cut, stitch and finish a shoulder bag.
- Cut, stitch and finish a travel bag.
- Cut, stitch and finish a ladies purse.
- Cut, stitch and finish the soft toy Fish.
- Cut, stitch and finish the soft toy Teddy bear.

To practice various hand knitting techniques.

- Practice & prepare samples for crochet stitches.
- Practice and prepare sample for tatting.



**SIXTH SEMESTER  
36566 HANDICRAFTS- PRACTICAL  
LIST OF EQUIPMENT FOR A BATCH OF 30 STUDENTS**

**Equipments required**

Painting tools  
Pattern/ cutting table  
Measuring tools  
Drafting tools  
Construction tools  
General tools  
Hand knitting tools  
Sewing machines- Lock stitch-10 No

**(Each one machine)** Over lock  
Flat lock  
Button hole  
Button stitch  
4- needle trimmer  
Chain stitch\*  
Feed- off-arm\*

Iron press  
\*Optional

**Material required :**

Glass plate  
Fabrics- cotton, polyester,  
silk, rayon, fur, lining  
Soft leather  
Knitting threads- woolen, Acrylic  
wire  
Sewing threads- white, assorted  
Decorative materials.

**SIXTH SEMESTER  
36566 HANDICRAFTS- PRACTICAL**

**LIST OF EXPERIMENTS**

1. Prepare a greeting card using Poster paints.
2. Paint designs on table cloth by using fabric paints.
3. Paint designs on hand towels by using Nib painting.
4. Prepare wall hangers by using glass painting.
5. Paint a pot by using pot painting.
6. Cut, stitch and finish a shoulder bag.
7. Cut, stitch and finish a travel bag.
8. Cut, stitch and finish a ladies purse.
9. Cut, stitch and finish the soft toy Fish.
10. Cut, stitch and finish the soft toy Teddy bear.
11. Practice & prepare samples for crochet stitches.
12. Practice and prepare sample for tatting.



DIRECTORATE OF TECHNICAL EDUCATION

DIPLOMA IN APPLIED ARTS AND CRAFTS

(FASHION AND APPAREL DESIGN)

III YEAR

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M – SCHEME

VI SEMESTER

2015 – 2016 ONWARDS

**PROJECT WORK**

CURRICULUM DEVELOPMENT CENTRE

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING, TAMILNADU**  
**DIPLOMA IN GARMENT TECHNOLOGY**  
**M -SCHEME**

**(to be Implements for the student Admitted from the year 2015-2016 onwards)**

Course Name : DIPLOMA IN APPLIED ARTS AND CRAFTS  
 Course Code : 1226  
 Subject Code : 36567  
 Semester : VI Semester  
 Subject Title : PROJECT WORK

**TEACHING AND SCHEME OF EXAMINATION:**

No of weeks per semester: 15 weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / Semester	Marks			Duration
PROJECT WORK	4 Hrs	60 Hrs	Internal Assessment	Board Examination	Total	
						25

Minimum Marks for Pass is 50 out of which minimum 35 marks should be obtained out of 75 marks in the board Examination alone.

**OBJECTIVES:**

- Implement the theoretical and practical knowledge gained through the curriculum into an application suitable for a real practical working environment preferably in an industrial environment
- Get exposure on industrial environment and its work ethics.
- Understand what entrepreneurship is and how to become an entrepreneur.
- Learn and understand the gap between the technological knowledge acquired through curriculum and the actual industrial need and to compensate it by
- acquiring additional knowledge as required.
- Carry out cooperative learning through synchronous guided discussions within the class in key dates, asynchronous document sharing and discussions, as well as to prepare collaborative edition of the final project report.

- Understand the facts and importance of environmental management.
- Understand and gain knowledge about disaster management

#### **INTERNALASSESSMENT:**

The internal assessment should be calculated based on the review of the progress of the work done by the student periodically as follows.

<b>Detail of assessment</b>	<b>Period of assessment</b>	<b>Max. Marks</b>
First Review	6th week	10
Second Review	12th week	10
Attendance	Entire semester	5
<b>Total</b>		<b>25</b>

#### **EVALUATION FOR BOARD EXAMINATION:**

<b>Details of Mark allocation</b>	<b>Max Marks</b>
Marks for Report Preparation, Demo, Viva-voce	65
Marks for answers of 4 questions which is to be set by the external examiner from the given question bank consisting of questions in the following two topics Disaster Management and Environmental Management. Out of four questions two questions to appear from each of the above topics i.e. 2 questions x 2 topics = 4 questions 4 questions x 2 ½ marks = 10 Marks	10
<b>Total</b>	<b>75</b>

### **DETAILED SYLLABUS**

#### **ENVIRONMENTAL & DISASTER MANAGEMENT**

##### **1. ENVIRONMENTAL MANAGEMENT**

Introduction – Environmental Ethics – Assessment of Socio Economic Impact – Environmental Audit – Mitigation of adverse impact on Environment – Importance of Pollution Control – Types of Industries and Industrial Pollution.

Solid waste management – Characteristics of Industrial wastes – Methods of Collection, transfer and disposal of solid wastes – Converting waste to energy – Hazardous waste management Treatment technologies.

Waste water management – Characteristics of Industrial effluents – Treatment and disposal methods – Pollution of water sources and effects on human health.

Air pollution management – Sources and effects – Dispersion of air pollutants – Air pollution control methods – Air quality management.

Noise pollution management – Effects of noise on people – Noise control methods.

## **2. DISASTER MANAGEMENT**

Introduction – Disasters due to natural calamities such as Earthquake, Rain, Flood, Hurricane, Cyclones etc – Man made Disasters – Crisis due to fires, accidents, strikes etc – Loss of property and life..

Disaster Mitigation measures – Causes for major disasters – Risk Identification – Hazard Zones – Selection of sites for Industries and residential buildings – Minimum distances from Sea – Orientation of Buildings – Stability of Structures – Fire escapes in buildings - Cyclone shelters – Warning systems.

Disaster Management – Preparedness, Response, Recovery – Arrangements to be made in the industries / factories and buildings – Mobilization of Emergency Services - Search and Rescue operations – First Aids – Transportation of affected people – Hospital facilities – Fire fighting arrangements – Communication systems – Restoration of Power supply – Getting assistance of neighbors / Other organizations in Recovery and Rebuilding works – Financial commitments – Compensations to be paid – Insurances – Rehabilitation.

### **LIST OF QUESTIONS**

#### **1. ENVIRONMENTAL MANAGEMENT**

1. What is the responsibility of an Engineer-in-charge of an Industry with respect to Public Health?
2. Define Environmental Ethic.
3. How Industries play their role in polluting the environment?
4. What is the necessity of pollution control? What are all the different organizations you know, which deal with pollution control?
5. List out the different types of pollutions caused by a Chemical / Textile / Leather / Automobile / Cement factory.
6. What is meant by Hazardous waste?
7. Define Industrial waste management.
8. Differentiate between garbage, rubbish, refuse and trash based on their composition and source.
9. Explain briefly how the quantity of solid waste generated in an industry could be reduced.
10. What are the objectives of treatments of solid wastes before disposal?

11. What are the different methods of disposal of solid wastes?
12. Explain how the principle of recycling could be applied in the process of waste minimization.
13. Define the term 'Environmental Waste Audit'.
14. List and discuss the factors pertinent to the selection of landfill site.
15. Explain the purpose of daily cover in a sanitary landfill and state the minimum desirable depth of daily cover.
16. Describe any two methods of converting waste into energy.
17. What actions, a local body such as a municipality could take when the agency appointed for collecting and disposing the solid wastes fails to do the work continuously for number of days?
18. Write a note on Characteristics of hazardous waste.
19. What is the difference between municipal and industrial effluent ?
20. List few of the undesirable parameters / pollutants anticipated in the effluents from oil refinery industry / thermal power plants / textile industries / woolen mills / dye industries / electroplating industries / cement plants / leather industries (any two may be asked)
21. Explain briefly the process of Equalization and Neutralization of waste water of varying characteristics discharged from an Industry.
22. Explain briefly the Physical treatments "Sedimentation" and "Floatation" processes in the waste water treatment.
23. Explain briefly when and how chemical / biological treatments are given to the waste water.
24. List the four common advanced waste water treatment processes and the pollutants they remove.
25. Describe refractory organics and the method used to remove them from the effluent.
26. Explain biological nitrification and de-nitrification.
27. Describe the basic approaches to land treatment of Industrial Effluent.
28. Describe the locations for the ultimate disposal of sludge and the treatment steps needed prior to ultimate disposal.
29. List any five Industries, which act as the major sources for Hazardous Air Pollutants.
30. List out the names of any three hazardous air pollutants and their effects on human health.
31. Explain the influence of moisture, temperature and sunlight on the severity of air pollution effects on materials.
32. Differentiate between acute and chronic health effects from Air pollution.
33. Define the term Acid rain and explain how it occurs.
34. Discuss briefly the causes for global warming and its consequences
35. Suggest suitable Air pollution control devices for a few pollutants and sources.

36. Explain how evaporative emissions and exhaust emissions are commonly controlled.
37. What are the harmful elements present in the automobile smokes? How their presence could be controlled?
38. What is the Advantage of Ozone layer in the atmosphere? State few reasons for its destruction.
39. Explain the mechanism by which hearing damage occurs.
40. List any five effects of noise other than hearing damage.
41. Explain why impulsive noise is more dangerous than steady state noise.
42. Explain briefly the Source – Path – Receiver concept of Noise control.
43. Where silencers or mufflers are used ? Explain how they reduce the noise.
44. Describe two techniques to protect the receiver from hearing loss when design / redress for noise control fail.
45. What are the problems faced by the people residing along the side of a railway track and near to an Airport? What provisions could be made in their houses to reduce the problem?

## **2. DISASTER MANAGEMENT**

1. What is meant by Disaster Management? What are the different stages of Disaster management?
2. Differentiate Natural Disasters and Man made Disasters with examples.
3. Describe the necessity of Risk identification and Assessment Surveys while planning a project.
4. What is Disasters recovery and what does it mean to an Industry?
5. What are the factors to be considered while planning the rebuilding works after a major disaster due to flood / cyclone / earthquake? (Any one may be asked)
6. List out the public emergency services available in the state, which could be approached for help during a natural disaster.
7. Specify the role played by an Engineer in the process of Disaster management.
8. What is the cause for Earthquakes? How they are measured? Which parts of India are more vulnerable for frequent earthquakes?
9. What was the cause for the Tsunami 2004 which inflicted heavy loss to life and property along the coast of Tamilnadu ? Specify its epicenter and magnitude.
10. Specify the Earthquake Hazard Zones in which the following towns of Tamilnadu lie: (a) Chennai (b) Nagapattinam (c) Coimbatore (d) Madurai (e) Salem.
11. Which parts of India are experiencing frequent natural calamities such as (a) heavy rain fall (b) huge losses due to floods (c) severe cyclones



12. Define basic wind speed. What will be the peak wind speed in (a) Very high damage risk zone – A, (b) High damage risk zone, (c) Low damage risk zone.
13. Specify the minimum distance from the Sea shore and minimum height above the mean sea level, desirable for the location of buildings.
14. Explain how the topography of the site plays a role in the disasters caused by floods and cyclones.
15. Explain how the shape and orientation of buildings could reduce the damages due to cyclones.
16. What is a cyclone shelter ? When and where it is provided ? What are its requirements ?
17. What Precautionary measures have to be taken by the authorities before opening a dam for discharging the excess water into a canal/river ?
18. What are the causes for fire accidents ? Specify the remedial measures to be taken in buildings to avoid fire accidents.
19. What is a fire escape in multistoried buildings ? What are its requirements ?
20. How the inmates of a multistory building are to be evacuated in the event of a fire/Chemical spill/Toxic Air Situation/ Terrorist attack, (any one may be asked).
21. Describe different fire fighting arrangements to be provided in an Industry.
22. Explain the necessity of disaster warning systems in Industries.
23. Explain how rescue operations have to be carried out in the case of collapse of buildings due to earthquake / blast / Cyclone / flood.
24. What are the necessary steps to be taken to avoid dangerous epidemics after a flood disaster?
25. What relief works that have to be carried out to save the lives of workers when the factory area is suddenly affected by a dangerous gas leak / sudden flooding ?
26. What are the difficulties faced by an Industry when there is a sudden power failure? How such a situation could be managed?
27. What are the difficulties faced by the Management when there is a group clash between the workers? How such a situation could be managed?
28. What will be the problems faced by the management of an Industry when a worker dies because of the failure of a mechanical device due to poor maintenance? How to manage such a situation ?
29. What precautionary measures have to be taken to avoid accidents to labourers in the Industry in a workshop / during handling of dangerous Chemicals / during construction of buildings / during the building maintenance works.
30. Explain the necessity of medical care facilities in an Industry / Project site.
31. Explain the necessity of proper training to the employees of Industries dealing with hazardous products, to act during disasters.

32. What type of disaster is expected in coal mines, cotton mills, Oil refineries, ship yards and gas plants?
33. What is meant by Emergency Plan Rehearsal? What are the advantages of such Rehearsals?
34. What action you will take when your employees could not reach the factory site because of continuous strike by Public Transport workers?
35. What immediate actions you will initiate when the quarters of your factory workers are suddenly flooded due to the breach in a nearby lake / dam, during heavy rain?
36. What steps you will take to avoid a break down when the workers union of your Industry have given a strike notice?
37. List out few possible crisis in an organization caused by its workers? What could be the part of the middle level officials in managing such crisis?
38. What types of warning systems are available to alert the people in the case of predicted disasters, such as floods, cyclone etc.
39. Explain the necessity of Team work in the crisis management in an Industry / Local body.
40. What factors are to be considered while fixing compensation to the workers in the case of severe accidents causing disability / death to them?
41. Explain the legal / financial problems the management has to face if safety measures taken by them are found to be inadequate.
42. Describe the importance of insurance to men and machinery of an Industry dealing with dangerous jobs.
43. What precautions have to be taken while storing explosives in a match/ fire crackers factory?
44. What are the arrangements required for emergency rescue works in the case of Atomic Power Plants?
45. Why residential quarters are not constructed nearer to Atomic Power Plants?

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