



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/13/2023

It is notified for information of all concerned that in terms of the provisions of Section 54 of the Calcutta University Act, 1979, (as amended), and, in exercise of his powers under 9(6) of the said Act, the Vice-Chancellor has, by an order dated 11.07.2023 approved the Syllabi of the under mentioned subjects for semester wise Four-year (Honours & Honours with Research) / Three-year (Multidisciplinary) programme of U.G. courses of studies, as applicable under CCF, 2022 . under this University, as laid down in the accompanying pamphlet.


### **Name of Subject:**

1. Anthropology
2. BBA
3. Bengali
- ✓ 4. BFAD
5. Bio Chemistry
6. Botany
7. Chemistry
8. Commerce
9. Economics
10. Education
11. English
12. Geology
13. Hindi
14. History, Islamic History & Culture
15. Home Science
16. Human Rights
17. Journalism & Mass Communication
18. Mathematics
19. Microbiology (Honours)
20. Molecular Biology
21. Philosophy
22. Physiology
23. Political Science
24. Psychology
25. Social Science
26. Sociology
27. Urdu
28. Women's Studies
29. Zoology

The above shall be effective from the academic session 2023-2024.

SENATE HOUSE

KOLKATA-700 073

 12/7/2023  
Prof. (Dr.) Debasis Das

Registrar



**University Of Calcutta**

**NEW SYLLABUS**

**For**

**COMBINED FOUR YEARS BACHELOR OF FASHION AND APPAREL  
DESIGN (BFAD)- HONOURS COURSE**

**AND**

**THREE YEARS BFAD GENERAL (IDC) DEGREE COURSE**

**under**

**UNIVERSITY OF CALCUTTA**

**Based on NEP 2020**

**w.e.f. July- 2023**

## COURSE STRUCTURE AND PAPER SCHEDULE

4 years B.F.A.D (Hons.) in FASHION AND APPAREL DESIGN and  
3 Years B.F.A.D (General)-IDC Course in FASHION AND APPAREL DESIGN  
Under University of Calcutta

Course Structure of 1st Semester of B.F.A.D.(Hons) AND General (IDC) in Fashion and Apparel Design

Category of Paper and Paper Code	Name of Papers	Theory Credits and Marks	Practical/ Tutorial Credits and Marks	TOTAL Credit	TOTAL MARKS
Core Courses (FAD/SI/DSCC-1)	Apparel Construction & Sewing -I	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
Minor Courses (FAD/SI/MC-1)	Textile Manufacture –I	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
Multidisciplinary or interdisciplinary Courses (FAD/SI/MDC -1)	Computer Applications & Artificial Intelligence	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
Skill Enhancement Courses (FAD/SI/SEC-1)	Textile Craft & Surface Ornamentation -I	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
Ability Enhancement Courses (FAD/SI/AEC-1)	Communicative English, Soft Skill & Personality Development	2 (40 marks) + 10 marks for Internal Assessment	0	2	50
Common Value-added Courses (FAD/SI/CVAC-1)	Environmental Science	2 (40 marks + 10 marks for Internal Assessment)	0	2	50
Common Value-added Courses (FAD/SI/CVAC-2)	Constitutional Values & Ethics	2 (40 marks) + (10marks For Assignment and file work)	0	2	50
	<b>TOTAL CREDIT</b>	<b>14</b>	<b>8</b>	<b>22</b>	
<b>1<sup>st</sup> SEM TOTAL</b>	<b>TOTAL MARKS</b>	<b>350</b>	<b>200</b>		<b>550</b>

**B.F.A.D (Hons.) in FASHION AND APPAREL DESIGN**  
**University of Calcutta**

**Course Structure of 2<sup>nd</sup> Semester of B.F.A.D.(Hons) AND General (IDC) in Fashion and Apparel Design**

<b>Category of Paper and Paper Code</b>	<b>Name of Papers</b>	<b>Theory Credits and Marks</b>	<b>Practical/ Tutorial Credits and Marks</b>	<b>TOTAL Credit</b>	<b>TOTAL MARKS</b>
<b>Core Courses (FAD/SII/ DSCC-2)</b>	<b>Apparel Construction and Sewing -II</b>	<b>2 (40 marks + 10 marks for Internal Assessment)</b>	<b>2 (40 marks) + (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Minor Courses (FAD/SII/MC-2)</b>	<b>Textile Manufacture-II</b>	<b>2 (40 marks + 10 marks for Internal Assessment)</b>	<b>2 (40 marks) + (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Multidisciplinary or interdisciplinary Courses (FAD/SII/ MDC -2)</b>	<b>Marketing Management and Retailing</b>	<b>2 40 marks + 10 marks for Internal Assessment)</b>	<b>2 (40 marks + 10 marks for Internal Assessment)</b>	<b>4</b>	<b>100</b>
<b>Ability Enhancement Course (FAD/SII/ AEC-2)</b>	<b>Introduction of Art Design &amp; Drawing</b>	<b>0</b>	<b>2 (40 marks + 10 marks for Internal Assessment)</b>	<b>2</b>	<b>50</b>
<b>Skill Enhancement Courses (FAD/SII/SEC-2)</b>	<b>Textile Craft and Surface Ornamentation-II</b>	<b>2 40 marks + 10 marks for Internal Assessment)</b>	<b>2 (40 marks) + (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Common Value Added Course (FAD/SII/ CVAC-3)</b>	<b>Digital Empowerment</b>	<b>0</b>	<b>2 (40 marks + 10 marks for Internal Assessment)</b>	<b>2</b>	<b>50</b>
<b>Common Value-Added Course (FAD/SII/ CVAC-4)</b>	<b>Traditional Textiles &amp; Costumes of India</b>	<b>2 (40 marks + 10 marks for Internal Assessment)</b>	<b>0</b>	<b>2</b>	<b>50</b>
	<b>TOTAL CREDIT</b>	<b>10</b>	<b>12</b>	<b>22</b>	
<b>2<sup>nd</sup> SEM TOTAL</b>	<b>Total Marks</b>	<b>200</b>	<b>350</b>		<b>550</b>

**B.F.A.D (Hons.) in FASHION AND APPAREL DESIGN**  
**University of Calcutta**

**Course Structure of 3<sup>rd</sup> Semester of B.F.A.D.(Hons) AND General (IDC) in Fashion and Apparel Design**

<b>Category of Paper and Paper Code</b>	<b>Name of Papers</b>	<b>Theory Credits and Marks</b>	<b>Practical/ Tutorial Credits and Marks</b>	<b>TOTAL Credit</b>	<b>TOTAL MARKS</b>
<b>Core Courses FAD/SHI/DSCC-3</b>	<b>Apparel Construction and Sewing -III</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks) + (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>FAD/SHI/ DSCC-4</b>	<b>Apparel Production Technology I</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks) + (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Minor Courses (FAD/SHI/MC-3)</b>	<b>Textile Manufacture- III</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks) + (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Multidisciplinary or interdisciplinary Courses (FAD/SHI/MDC)</b>	<b>Computer Aided Design I</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks) + (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Ability Enhancement Course (FAD/SHI/AEC-3)</b>	<b>Visual Art &amp; Principles of Design</b>	<b>0</b>	<b>2</b> <b>(40 marks) + (10marks For Assignment and file work)</b>	<b>2</b>	<b>100</b>
<b>Skill Enhancement Courses (FAD/SHI/SEC-3)</b>	<b>Fashion Illustration &amp; Rendering</b>	<b>0</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b>	<b>50</b>
	<b>TOTAL Credit</b>	<b>8</b>	<b>12</b>	<b>20</b>	
<b>3<sup>rd</sup> SEM TOTAL</b>	<b>Total Marks</b>	<b>200</b>	<b>300</b>		<b>550</b>

**B.F.A.D (Hons.) in FASHION AND APPAREL DESIGN**  
**University of Calcutta**

**Course Structure of 4<sup>th</sup> Semester of B.F.A.D.(Hons) AND General (IDC) in Fashion and Apparel Design**

<b>Category of Paper and Paper Code</b>	<b>Name of Papers</b>	<b>Theory Credits and Marks</b>	<b>Practical/ Tutorial Credits and Marks</b>	<b>TOTAL Credit</b>	<b>TOTAL MARKS</b>
<b>Core Courses FAD/SIV/ DSCC-5</b>	<b>Apparel Construction and Sewing -IV</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>FAD/SIV/ DSCC-6</b>	<b>Apparel Production Technology-II</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>FAD/SIV/ DSCC-7</b>	<b>Yarn Craft &amp; Fashion Accessory Design</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Minor Courses (FAD/SIV/MC-4)</b>	<b>Textile Chemical Processing –I</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Multidisciplinary or interdisciplinary Courses (FAD/SIV/ MDC -4)</b>	<b>1. Computer Aided Garment Design -I</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Ability Enhancement Course (FAD/SIV/ AEC-4)</b>	<b>1.History of Fashion and Costumes</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>0</b>	<b>2</b>	<b>50</b>
<b>Internship –I and Field Visit (FAD/SIV/INT-I)</b>	<b>4. Internship-I in Garment Manufacture or Retailing industry and Field Visit (For 4weeks)</b>	<b>0</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>2</b>	<b>50</b>
	<b>TOTAL Credit</b>	<b>12</b>	<b>12</b>	<b>24</b>	
<b>4<sup>th</sup> SEM TOTAL</b>	<b>Total Marks</b>	<b>300</b>	<b>300</b>		<b>600</b>

**B.F.A.D (Hons ) in FASHION AND APPAREL DESIGN**

University of Calcutta

**Course Structure of 5<sup>th</sup> Semester of B.F.A.D.(Hons) AND General (IDC) in Fashion and Apparel Design**

Category of Paper	Name of Papers	Theory Credits and Marks	Practical/ Tutorial Credits and Marks	TOTAL Credit	TOTAL MARKS
Core Courses FAD/SV/ DSCC-8,	Computer Aided Garment Design-II	0	4 (80 marks) + (20marks For Assignment and file work)	4	100
FAD/SV/ DSCC-9	Sizing, Grading, Draping & Fit Analysis of Garments	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
FAD/SV/ DSCC-10	Fashion Communication, Journalism & Forecasting	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
FAD/SV/ DSCC11	4. Painting and Print Design Development for garments	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
Minor Courses FAD/SV/MC-5 and	1. Fibre, Yarn & Fabric Testing	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
FAD/SV/MC-6	2 Portfolio preparation-I -for Garment Design and Documentation	0	2 (40 marks)+ (10marks For Assignment and file work)	2	50
Internship -II (FAD/SV/INT- II)	4. Internship -II in Garment Manufacture or Retailing industry (For 6 to 8 weeks)	0	2 (40 marks)+ (10marks For Assignment and file work)	2	50
	<b>TOTAL Credit</b>	<b>8</b>	<b>16</b>	<b>24</b>	
<b>5<sup>th</sup> Sem Total</b>	<b>Total Marks</b>	<b>200</b>	<b>400</b>		<b>600</b>

**B.F.A.D (Hons ) in FASHION AND APPAREL DESIGN**

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**Course Structure of 6<sup>th</sup> Semester of B.F.A.D.(Hons) AND General (IDC) in Fashion and Apparel Design**

<b>Category of Paper</b>	<b>Name of Papers</b>	<b>Theory Credits and Marks</b>	<b>Practical/ Tutorial Credits and Marks</b>	<b>TOTAL Credit</b>	<b>TOTAL MARKS</b>
<b>Core Courses FAD/SVI/ DSCC-12</b>	<b>Apparel Production Technology-IV</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>FAD/SVI/ DSCC-13</b>	<b>2 Portfolio preparation-II - for Garment Design and Documentation</b>	<b>0</b>	<b>4</b> <b>((80 marks)+ (20marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>FAD/SVI/ DSCC-14</b>	<b>Fashion Photography, Styling &amp; Costume Designing</b>	<b>0</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>2</b>	<b>50</b>
<b>FAD/SVI/ DSCC-15</b>	<b>4.Garment Testing and Quality Management</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>Minor Courses FAD/SVI/MC-7</b>	<b>1.Textile Chemical Processing -II ( Chemical and Bio-chemical Finishing of Textiles and garments )</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>2</b> <b>(40 marks)+ (10marks For Assignment and file work)</b>	<b>4</b>	<b>100</b>
<b>FAD/SVI/MC-8</b>	<b>Human resource Management Entrepreneurship Development and costing</b>	<b>2</b> <b>(40 marks + 10 marks for Internal Assessment)</b>	<b>0</b>	<b>2</b>	<b>50</b>
	<b>TOTAL CREDIT</b>	<b>08</b>	<b>14</b>	<b>20</b>	
<b>6<sup>th</sup> SEM TOTAL</b>	<b>Total Marks</b>	<b>200</b>	<b>350</b>		<b>550</b>



**B.F.A.D (Hons) in FASHION AND APPAREL DESIGN**  
**University of Calcutta**  
**Course Structure of 7th Semester of B.F.A.D.(Hons) in Fashion and Apparel Design**

Category of Paper	Name of Papers	Theory Credits and Marks	Practical/ Tutorial Credits and Marks	TOTAL Credit	TOTAL MARKS
Core Courses FAD/SVII/ DSCC-16,	1. Garment Production & Product Merchandising	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
FAD/SVII/DSCC17	2.Functional and Smart Clothing Design	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks + 10 marks for Internal Assessment)	4	100
FAD/SVII/ DSCC-18	3. Garment Finishing and Sustainable Eco-Fashion	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks + 10 marks for Internal Assessment)	4	100
FAD/SVII/ DSCC-19	4. Home Furnishing and Craft Design Development	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks + 10 marks for Internal Assessment)	4	100
<b>Minor Dissertation/Research Project and Seminar ( For Research Group-A ) or Minor Practical Term Paper-as Alternatively ( For Non Research Group-B) and its display and presentation</b> <b>Any one group to choose either Group-A or Group-B as follows</b>					
<b>For Research Group-A</b>					
Minor Project/Dissertation (FAD/SVII/MC-9)	1.Minor Dissertation/ Research Project and seminar	0	4 (80 marks) + (20marks For Assignment and file work)	4	100
<b>OR For Alternative Non-Research Group-B</b>					
Alternative Minor Term Paper-I (for non-research group students) (FAD/SVII/TP-1)	1.Design Development & Documentation	0	4 (80 marks) + (20marks For Assignment and file work)	4	100
	<b>TOTAL CREDIT</b>	<b>8</b>	<b>12</b>	<b>20</b>	
<b>7<sup>th</sup> SEM TOTAL</b>	<b>Total Marks</b>	<b>200</b>	<b>300</b>		<b>500</b>

**B.F.A.D (Hons) in FASHION AND APPAREL DESIGN**  
**University of Calcutta**  
**Course Structure of 8th Semester of B.F.A.D.(Hons) in Fashion and Apparel Design**  
**with or without Research work**

Category of Paper	Name of Papers	Theory Credits and Marks	Practical/ Tutorial Credits and Marks	TOTAL Credit	TOTAL MARKS
Core Courses FAD/SVIII/DSCC-20	Market Research Survey for Apparel Sector	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
FAD/SVIII/DSCC-21	Clothing Care and Conservation	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
FAD/SVIII/DSCC-22	Visual Merchandising and Retailing	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	4	100
<b>Any One Group to choose (Either Research Group-A or Non-Research Group-B, as per rules)</b>					
RESEARCH/DISSERTATION (FAD/SVIII/DISST-I)	For Group A:- Major Dissertation /Research Project	0	8 (200 marks)  (150 marks) + (50marks For Assignment and file work)	8	200
	<b>OR</b>				<b>OR</b>
<b>For NON-Research Group- B (Two TERM PAPERS of 4 credits each i.e Total 8 Credits</b>					
TERM PAPERS – FAD/SVIII/TP-2	1. Computer Application in Garment Industry	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	TP-1 of 4 credit	100
FAD/SVIII/TP3	2.Creative Pattern making and presentation	2 (40 marks + 10 marks for Internal Assessment)	2 (40 marks) + (10marks For Assignment and file work)	TP-2 of 4 credits	100
	<b>TOTAL CREDIT</b>	6 (Res Grp-A) Or 10 (Non - Res Grp)	14(Res Grp-A) Or 10(Non -Res Grp)	20	
<b>8<sup>th</sup> SEM TOTAL</b>	<b>Total Marks</b>	<b>100</b>	<b>400</b>		<b>500</b>
<b>Grand Total of Course Credits in 8 Semesters</b>				<b>172</b>	<b>4300</b>

**Detailed Syllabus of Each Paper**  
**for**  
**Semester-I of 4 yrs (Eight Semesters) B.F.A.D. Hons. Degree Course and**  
**3 Years (Six Semesters) B.F.A.D (General) IDC Degree course**  
**in FASHION AND APPAREL DESIGN**  
**Under the University of Calcutta**

**1. Detailed Syllabus of Each Paper for Semester-I**

<b><u>Detailed Syllabus of Each Paper for Semester -I</u></b>		
<b>FAD/SI/DSCC-1- Apparel Construction &amp; Sewing -I (Garment Industry, Sample Preparation, Garment Mfg Line and pattern making-I)</b>		
<b>Apparel Construction &amp; Sewing -I (Garment Industry, Sample Preparation, Garment Mfg Line and pattern making-I) (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Introduction to Pattern Making, Terminologies of pattern, Symbols used in Pattern, Tools of Pattern Making, Grain lines and its importance, Different types of pattern paper, principles of pattern making	
2	Selection and care of sewing machine, Maintenance of sewing machine, Parts and functions of sewing machine,	
3	Body Measurements, Terms and Terminologies of body points required for measurements, Figure Measurement: general principles of taking direct measurements	
4	Hand sewing and its application, Temporary stitches, tacking and its variations, Permanent stitches including back stitch, top sewing, slip stitch, hem stitch, Decorative stitches- embroidery stitches	
5	Disposal of fullness, pleats, tucks, gathers, shirring, darts etc	
6	Finishing of raw edges, application of hem- ordinary and false hem, mitred corner, facing- straight and shaped, bias binding and bias facing	
7	Placket opening and application of even hem, continuous wrap opening, kurta placket, two-piece placket	
8	Drafting and making of collar, collar band and cuffs with fusing	
9	Fasteners and its application, buttons, button holes, hook and eye, Press studs, rivets, show buttons, velcros	
10	Seams, Classification, variation and Application	

<b>FAD/SI/DSCC-1- Apparel Construction &amp; Sewing -I (Garment Industry, Sample Preparation, Garment Mfg Line and pattern making-I) PRACTICAL</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Practice exercise on sewing machine for preparation of concentric shapes	
2	Hand sewing, Temporary stitches, tacking and its variations, Permanent stitches including back stitch, top sewing, slip stitch, hem stitch	
3	Disposal of fullness, pleats, tucks, gathers, shirring, darts etc.	
4	Finishing of raw edges, application of hem- ordinary and false hem, mitered corner, facing- straight and shaped, bias binding and bias facing	
5	Placket opening and application of even hem, continuous wrap opening, kurta placket, two-piece placket	
6	Fasteners- Application of buttons, button holes, hook and eye, Press studs, rivets, show buttons, velcros	
7	Seams, variation and Application	
8	Drafting and construction of basic bodice block of a child	

## References

1. Natalie Bray, *Dress Fitting*, Crosby Lockwood Sons Ltd., London.
2. Lovi A. Knowles, *The Practical Guide to Pattern Making for Fashion Designers, Juniors, Misses and Women*, Fairchild Publication, 2005
3. Cavolyn J. Kundel, Norma R. Hollen, *Pattern Making by the Flat-pattern Method*, Prentice-Hall
4. Readers Digest Complete guide to sewing, Readers Digest Association.
5. *The Sewing Book: Over 300 Step by Step Techniques* by Alison Smith, DK; New Edition (6 March 2018)
6. H.J. Armstrong, *Pattern Making for Fashion Design*, Harper Collins Publishers, New York, 1987.

### **Detailed Syllabus of Each Paper for Semester -I**

**Minor Course (FAD/SI/MC-1)- Textile Manufacture –I**

**(Textile Fibres, Yarn Mfg. and Testing)**

**Textile Manufacture –I**

**(Textile Fibres, Yarn Mfg. and Testing) (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Fundamental concepts of fibre, Basic requirements of a fibre to be suitable for forming textile fibres, essential characteristics of a textile fibre, classification of textile fibres, essential properties (physical and chemical)- of a textile fibre-their terms and definition	
2	Introduction to natural fibres- Composition, Physical and Chemical structure, Properties and Uses of following Natural Fibres <ul style="list-style-type: none"> <li>• Cotton: a natural cellulose fibre.</li> <li>• Jute, Flax, Ramie: natural lignocellulosicfibres</li> <li>• Wool and Hairs: natural protein fibres</li> <li>• Silk: natural protein fibre</li> </ul> Minor Natural Fibres: Banana, Sisal, Coir, Pineapple, Bamboo	
3	Introduction to man-made fibres, Different spinning processes, Manufacturing process of viscose rayon, nylon, nylon-6, nylon6,6, polyester, acrylic	
4	Identification of fibres, physical identification and confirmatory tests	
5	Dimension of fibres (length, diameter, fineness, strength, extensibility, shrinkage etc. Testing of common properties of fibres.	
6	Introduction to yarn dimension, property parameters, construction, types and specification of textile yarn. General flow chart for yarn manufacture.	
7	Yarn twist, Z twist and S twist factor and yarn properties. Influences of process parameters on yarn properties, concept of ply yarns.	
8	Different types of fancy yarns production, textured yarns and flat filament yarns and their properties. Sewing threads: types, requirements and properties Carded and combed yarn, Woolen and Worsted yarn.	
9	Spinning of different yarns, yarn spinning machineries including fancy yarn	
10	Concept of rotary DREF, flyer, Ring, Open, friction type of spinning	

<b>FAD/SI/MC-1 Textile Manufacture –I</b>		
<b>(Textile Fibres, Yarn Mfg. and Testing) (Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Identification of fibres, physical identification and confirmatory tests	
<b>2</b>	Testing of common properties of fibres and yarns including yarn count.	
<b>3</b>	Determination of Yarn twist, twist factor and yarn properties.	
<b>4</b>	Practise of calculations related to yarn spinning and plying	
<b>5</b>	Testing and analysis of sewing threads	
<b>6</b>	Testing of fibres, fibre fineness, fibre tenacity, elongation, Moisture regains or content. Yarn Testing; definition, methods of testing yarn count, twist, breaking load, stress-strain, tenacity-elasticity, elastic recovery, load elongation curve, yield point, young's modulus.	

### **References**

1. Corbman,P.B., Textiles-Fibre to Fabric, Gregg Division/McGraw Hill Book Co.,US, 1985.
2. Joseph M.L.,Essentials of Textiles (5<sup>th</sup> Edition), Holt, Rinehart and Winston Inc.,Florida, 1988.
- 3.Tortora, G,Phyllis, Understanding Textiles (2<sup>nd</sup> Edition), McMillan Co., USA, 1987.
- 4.Pizzuto, J.,Fabric Science (6<sup>th</sup> Edition), Fairchild Publications.
- 5.E.P.G. Gohl, L.D. Velensky, “Textile Science” CBS Publishers and Distributers, 2003
- 6.Barker “Hand book of textiles”
- 7.A.J. Hall “The standard bool of textiles”, Wood head Publishing 8<sup>th</sup> edition 2004.
- 8.P.V. Vidyasagar, “Hand Book of Textiles”, A mittal Publications, 2005.
- 9.J. Gordon Cook, “Hand Book of Textile fibres”, Vol- I &II, Wood Head Publishing
- 10.S.P. Mishra, “A text Book of Fibre Science & Technology” New Age International Ltd. 978-81-224-1250-5.

## Detailed Syllabus of Each Paper for Semester -I

### FAD/SI/MDC -1- Computer Applications and Artificial Intelligence

#### Computer Applications and Artificial Intelligence (Theory)

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	History of computers and its emergence, what is Computer? Basic Application of computers, Components of Computer; Concept of Hardware and Software; Concept of Computing, data and information, Application of IECT	
2	Operating Computer using GUI Based Operating System: What is an Operating System; Basics of Popular Operating Systems; The User Interface, Basics of O.S Setup	
3	Introduction to MS Word, Understanding Word Processing: Word Processing Basics; Opening and Closing of documents; Text creation and Manipulation; Formatting of text; Table handling; Spell check, language setting and thesaurus; Printing of word document.	
4	Introduction to MS Excel, Using Spread Sheet: Basics of Spreadsheet; Manipulation of cells; Formulas and Functions; Editing of Spread Sheet, printing of Spread Sheet, Preparation of bars and graphs.	
5	Introduction to Internet, WWW and Web Browsers: Basic of Computer networks; LAN, WAN; Concept of Internet; Applications of Internet; connecting to internet; What is ISP; Knowing the Internet; Basics of internet connectivity related troubleshooting, World Wide Web; Web Browsing softwares, Search Engines; Understanding URL; Domain name; IP Address; Using e-governance website	
6	Communications and collaboration: Basics of electronic mail; Getting an email account; Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration; Instant Messaging; Netiquettes.	
7	Introduction to MS Powerpoint, Making Small Presentation: Basics of presentation software; Creating Presentation	
8	Introduction to Artificial Intelligence, Definition and scope of AI, Historical overview and key milestones, Differentiating AI from human intelligence	
9	AI Subfields and Technologies, Machine learning: Supervised, unsupervised, and reinforcement learning, Deep learning and neural networks, Natural language processing (NLP) and computer vision	
10	Applications of AI, AI in healthcare: Diagnosis, treatment, and medical imaging, AI in finance: Fraud detection, algorithmic trading, and risk assessment, AI in transportation: Autonomous vehicles and traffic optimization, AI in customer service and chatbots, AI in education: Personalized learning and intelligent tutoring systems	
11	Ethical and Social Implications of AI, Bias and fairness in AI systems, Privacy and data protection concerns, Impact of AI on employment and the workforce, AI and social inequality	
	Other Important Issues, Ethical guidelines and responsible AI practices, AI and Innovation, Emerging trends and future directions in AI, AI and creativity: Generative models and artistic applications	
12	Basic concepts of UIUX design	

<b>FAD/SI/MDC -1- Computer Theory and Applications-I (Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	<b>Preparation of Professional Resume &amp; uploading in a professional Site, Formatting for Fashion Report Writing using MS Word</b>	
<b>2</b>	Preparation of Industrial Tec pack / Spec Sheet, Preparation of Garment Cost Sheet, Preparation of Purchase Order, Preparation of Miscellaneous Import & Export Trade related documents, Preparation of Graphs & Tables in MS Excel	
<b>3</b>	Use of MS Paint	
<b>4</b>	Choosing a topic relevant to the field of study & Presenting Seminar on it, Learning How to use special features of PowerPoint Presentation as in Hyperlink, Animation etc. in the presentation using MS Powerpoint, making of theme board	
<b>5</b>	Making of Poster, Making of Flyers, Making of Invitation cards, Planner, Calendar, Brochure, Rack Card etc by using any design-based software and other similar types of software	
<b>6</b>	Writing & Publishing Blog on a particular topic relevant to the field of study, creating a Vlog on the Relevant Field of Study & posting it Creating Business Profile on social media Creating google form & Google Sheets	
<b>7</b>	How to open a mail id & Do Mail Merge, Familiarity with search engines, how to create Google form & Google Sheet & generate Certificate via Google form	
<b>8</b>	Digital fluency and social media interaction, handling of various online meeting platforms	
<b>9</b>	Application of Artificial intelligence in fashion industry	
<b>10</b>	Use of various AI softwares in fashion industry	

### **References**

1. W Aldrich, *CAD in Clothing and Textiles*, Blackwell Science Ltd.
2. Manuals of the Softwares Being Used.
3. Donald Hearn and M. Pauline Baker '*Computer Graphics*, Prentice hall of India, New Delhi



## Detailed Syllabus of Each Paper for Semester -I

### FAD/SI/SEC-1- Textile Craft & Surface Ornamentation -I

(Inclgd. Decorative Stitches)

### Textile Craft & Surface Ornamentation -I

(Inclgd. Decorative Stitches) (Theory)

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Study on development of surface ornamentation and Miscellaneous Methods of Surface Ornamentation: Quilting, patchwork, jariwork, sarawski and beadwork, appliqué and hand knitting, crocheting, macramé, tatting, use of trimmings, etc	
2	Study on development of various craft work of different States of India	
3	<ul style="list-style-type: none"> <li>• Study of the textiles surface ornamentation, Decorative stitches</li> <li>• Zigzag Stitch.</li> <li>• Satin Stitch.</li> <li>• Blanket Stitch.</li> <li>• Overedge Stitch.</li> <li>• Fagoting.</li> <li>• Feather Stitch.</li> <li>• Saddle Stitch and other stitches</li> </ul>	
4	Basic embroidery stitches and its application	
5	Embroideries <ul style="list-style-type: none"> <li>• Kashida of Kashmir.</li> <li>• Chamba Rumals of Himachal Pradesh.</li> <li>• Phulkari and Baghs of Punjab.</li> <li>• Beadwork, appliqué, ari and mirror work of Gujarat.</li> <li>• Kasuti of Karnataka.</li> <li>• Applique of Pipli (Orissa).</li> <li>• Kanthas of Bengal.</li> <li>• Zardosi and Chikankari of Lucknow.</li> <li>• Manipuri of Manipur.</li> <li>• Kathiawari</li> <li>• Sujni of Bihar</li> </ul>	

<b>FAD/SI/SEC-1 Textile Craft &amp; Surface Ornamentation -I</b>		
<b>(Inclgd. Decorative Stitches) (Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Quilting, patchwork, jariwork, sarawski and beadwork, appliqué and hand knitting, crocheting, macramé, tatting, use of trimmings, etc	
<b>2</b>	Preparation of articles by using decorative stitches and product development	
<b>3</b>	<ul style="list-style-type: none"> <li>• Decorative stitches</li> <li>• Zigzag Stitch.</li> <li>• Satin Stitch.</li> <li>• Blanket Stitch.</li> <li>• Overedge Stitch.</li> <li>• Fagoting.</li> <li>• Feather Stitch.</li> <li>• Saddle Stitch and other stitches</li> </ul>	
<b>4</b>	<p>To make samples of Embroideries</p> <ul style="list-style-type: none"> <li>• Kashida of Kashmir.</li> <li>• Chamba Rumals of Himachal Pradesh.</li> <li>• Phulkari and Baghs of Punjab.</li> <li>• Kanthas of Bengal.</li> <li>• Zardosi and Chikankari of Lucknow.</li> <li>• Manipuri of Manipur.</li> <li>• Kathiawari</li> <li>• Sujni of Bihar</li> <li>• Kasuti of Karnataka</li> </ul>	

## References

1. Crill, Rose. Mary, Indian Embroidery, Prakash Book Depot, New Delhi 1999
2. Dhingra., Embroidery, Dhingra Publishing House 1998.
3. Harmony, Quilting & Patch Work, Lyrics Books Ltd. 1992.
4. Chris, Rankin, Creative Smocking, Contemporary Design Traditional Techniques, Lark Books Asheville 199

<b>Detailed Syllabus of Each Paper for Semester -I</b>		
<b>FAD/SI/AEC-I - Communicative English, Soft Skill and Personality Development</b>		
<b>Communicative English, Soft Skill and Personality Development (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no. of Contact Hrs = 30 hrs</b>
1	Communication skills: What is communication? Types of communication, Function and purpose of communication, process of communication, models of communication, noise and barriers to communication	
2	Reading skills: What is reading? types of reading: skimming, scanning.	
3	Listening skills: What is listening? Types of listening: Purpose of listening: material to be recorded, acquiring information. Semantic markers, using abbreviations, taking dictations.	
4	Correspondence: What is correspondence? Letter writing, general and official correspondence, drafting job application, notices, advertisements for classified columns and writing minutes of any meeting.	
5	Preparation of bibliography: What is bibliography? Types of bibliography, rules for bibliographic page, footnotes and endnotes; reporting	
6	Motivation, Effective communication and co-ordination and development of personality. Exploration of meaning, message and information, communicated through art, craft and design work, communication through different media, tools, audiovisual and art & design	
7	Preparation of curriculum vitae (Bio-data/ Resume). Writing application for jobs, reporting to newspaper for any incident etc.	
8	Define Personality, Determinants of Personality Development, Perception – Definition, Perceptual Process and Factors of Association – Relationship, Personality Traits, Developing Effective Habits, Emotional Intelligence, Types of Personalities – Introvert, Extrovert & Ambivert person,	
9	How dress affects behaviour, □First Impression, Self Esteem and Maslow, Self Esteem & Erik Erikson, Mind Mapping, Competency Mapping & 360 Degree Assessment, Effective Communication & Its key aspects.	
10	Interpersonal Relationship, Personality – Spiritual journey beyond the management of change, good manners & Etiquettes, Effective Speech, Understanding Body language, projective positive body language. Attitude – Concept –Significance –Factors affecting attitudes – Positive attitude–Advantages –Negative Attitude–Disadvantages –Ways to develop a positive attitude, Carl Jung ,,s contribution to personality development theory.	
11	Stress Management: Introduction, Causes, stress management techniques, Time management: Importance of time management, Techniques of time management, Time management styles.	
12	Soft Skill Development and content writing.audivisual presentation and Group discussion and practice of spoken English communications etc	

### References

- 1.D. Maculaitis & J. Sturtevant, Odyssey: A Communicative Course in English, Addison Wesley Longman ELT Division (a Pearson Education Company), 1987
- 2.Leo Jones, Communicative Grammar Practice Students Book: Activities for Intermediate Students of English, Cambridge University Press, Cambridge, 1991
- 3.N. Krishnaswamy, Creative English for Communication, Macmillan India Ltd., New Delhi.
- 4.Talati J K, Personality Grooming and Skills Development
- 5.Shreya Bagchi, SOFT -SKILLS FOR SUCCESS : A comprehensive book of Business Etiquette and Personal grooming

<b><u>Detailed Syllabus of Each Paper for Semester -I</u></b>		
<b>FAD/SI/CVAC-1- Environmental Science</b>		
<b>Environmental Science (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Fundamentals of environment, ecology, environmental pollution arising out of processing in textile and garment industry	
2	Resource management. sustainable development and environmental management in textile and garment industry	
3	Environmental management in industries and sustainable development ISO-14000,	
4	Different Types of Pollutions and their measures, COD and BOD	
5	Meaning, definition, dimensions of sustainability, value of sustainability, SOS basics, critical elements of an SOS, structural elements support SOS, SOS Standards, Sustainability-related Management system standards developing an SOS Standard, SOS Process Schedule	
6	Sustainability indicators and metrics (setting metric goals), characteristics of sustainability indicators, theme-based indicator framework adopted by uncsd, GRI, ISO: brief concept	
7	Framework for Understanding Environmental Policy- Values Dimension, Political Dimension, Science and Technology dimension, Policy Design Dimension, and Management Dimension.	
8	Energy audit, Material Cycling, Water conservation and concept of sustainability	

## References

1. C.S.Rao, Environmental Pollution Control Engg, New – Age- International (P) Ltd, Publishers, India, 2004.
2. P. R. Enrlich & J.P. Heldren, Human Ecology, 1973

<b>Detailed Syllabus of Each Paper for Semester -I</b>		
<b>FAD/SI/CVAC-2- Constitutional Values and Ethics</b>		
<b>Constitutional Values and Ethics (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Professional Ethics-Objectives of study of professional ethics-Human values- Definition of Morals and Ethics-Difference between Morality and Ethics-Values-Definition-Types of values, Definition of Integrity-Concept of Work Ethics- Service Learning- Definition Virtues-Definition of Civic Virtue-Duties and Rights - Respect for Others – Attitude and values, opinions-changing attitude-beliefs-Reliability-Living Peacefully-Means to be adopted for leaving peacefully-CaringSharing-Honesty-ValuingTime-Co-operation-Commitment-Empathy-Self-ConfidenceSpirituality	
2	Human Rights-Definition-constitutional provisions-right to life and liberty-Human Rights of Women-Discrimination against women- steps that are to be taken to eliminate discrimination against women in Education, employment, health care, Economic and social life, Women in rural areas- Status of Women in India - Constitutional Safeguards - Dowry Prohibition act 1961- Domestic violence act 2005- Sexual harassment at work place bill 2006-Human Rights of Children- Who is a child- list the Rights of the Child- Right to education--Protection of Children from Sexual Offences Act(POCSO)-2012- National Human Rights Commission- Constitutional Powers and function of the Commission-Employee rights-Provisions made-Contractual-Non contractual employee rights-Whistle blowing-definition-Aspects-Intellectual Property Rights (IPR)--Meaning-Need for protection- Briefly description of concept of patents, Copy right, Trade mark.	
3	Introduction to constitution of India-Formation and Composition of the Constituent Assembly, Salient features of the Constitution-Preamble to the Indian Constitution Fundamental Rights, Fundamental Duties-Directive principles of state policy. Parliamentary system of governance- Structure of Parliament- Lokhasabha and Rajyasabha - Functions of parliament- Legislative ,Executive, Financial Function, Powers of Loksabha and Rajya Sabha- Procedure followed in parliament in making law-Structure of union executive Power and position of President, Vice President, Prime minister and council of ministers. Structure of the judiciary: Jurisdiction and functions of Supreme Court, high court, and subordinate courts Federalism in the Indian constitution, Division of Powers- Union list, State list and concurrent list, Structure of state legislation, Legislative assembly and Legislative council, Functions of state legislature, Structure of state executive-Powers and positions of Governor, ,Speaker, Deputy Speaker, Chief Minister and council of minister. Local self-government- meaning-Three tier system-Village panchayat, Taluk panchayat, Zilla Parishad-Local bodies-Municipalities and Corporation, Functions of Election commission, UPSC, KPSC	

### References

- 1.Durga Das Basu, et al., Introduction to the Constitution of India (LexisNexis, 26th edn, 2022).
2. Leila Seth, We, the Children of India: The Preamble to Our Constitution (New Delhi, Puffin Books, Penguin Books India, 2010).
3. Mahendra Pal Singh, V.N. Shukla's Constitution of India, (Eastern Book Company, Lucknow, 13th revised edn. 2017)
4. B.R. Ambedkar Selected Speeches, (Prasar Bharati, New Delhi, 2019) available at: <https://prasarbharati.gov.in/whatsnew/whatsnew 653363.pdf>.

**Detailed Syllabus of Each Paper**  
**for**  
**Semester-II of 4 yrs (Eight Semesters) B.F.A.D. Hons. Degree Course and**  
**3 Years (Six Semesters) B.F.A.D (General) IDC Degree course**  
**in FASHION AND APPAREL DESIGN**

**1. Detailed Syllabus of Each Paper for Semester-II**

<b>Schedule of Papers for Semester -II</b>		
<b>FAD/SII/DSCC-2 - Apparel Construction and Sewing -II (Pattern Making-II and sewing)</b>		
<b>Apparel Construction and Sewing -II (Pattern Making-II and sewing) (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Sewing Machine Needle – Parts & Types, Care & Maintenance of Hand & Machine Needles, Causes of Damage of Needles & their Remedies, Causes of heating of needle and its remedies	
2	Classification & Terminologies of the Symmetric & Asymmetric Necklines & its variations	
3	Classification & Terminologies of the Standing, Flat & Rolled Collars & its variations	
4	Classification & Terminologies of the Set - in, Raglan & Kimono Sleeves & its Variation	
5	Classification & Terminologies of the Pockets, Waistbands, Cuffs & Plackets & their variations	
6	Different types of cuffs and their terminologies	
7	Theory of Dart Manipulation, Construction of darts, shifting of darts, Concealing, Combining & Dividing of Darts, Converting Darts into gathers	
8	Study of Different style lines used in garments, critical areas of a garment, puckering as an effect and defect, ease types and its application in garments	

**FAD/SII/DSCC-2– Apparel Construction & Sewing -II (Garment Industry, Sample Preparation, Garment Mfg Line and pattern making-I) (PRACTICAL)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Construction of Symmetric & Asymmetric Necklines & its variations	
2	Construction of Standing, Flat & Rolled Collars & its variations	
3	Construction of Set – in, Raglan & Kimono Sleeves & its Variation	
4	Construction of Pockets, Waistbands, Cuffs & Plackets & their variations	
5	Construction of darts, shifting of darts, Concealing, Combining & Dividing of Darts, Converting Darts into gathers	
6	Construction of any 2 types of kidswear	

## **References**

1. Natalie Bray, *Dress Fitting*, Crosby Lockwood Sons Ltd., London.
2. Lovi A. Knowles, *The Practical Guide to Pattern Making for Fashion Designers, Juniors, Misses and Women*, Fairchild Publication, 2005
3. Cavolyn J. Kundel, Norma R. Hollen, *Pattern Making by the Flat-pattern Method*, Prentice-Hall
4. Readers Digest Complete guide to sewing, Readers Digest Association.
5. *The Sewing Book: Over 300 Step by Step Techniques* by Alison Smith, DK; New Edition (6 March 2018)
6. H.J. Armstrong, *Pattern Making for Fashion Design*, Harper Collins Publishers, New York, 1987.

**Detailed Syllabus of Each Paper for Semester –II**

**Minor Course -2 (FAD/SII/MC-2) Textile Manufacture-II (Textile Fabrics-I: weaving and weaving designs)**

**Textile Manufacture-II (Textile Fabrics-I: weaving and weaving designs) (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Fundamentals of weaving, Principles of working of looms (hand looms and power looms), primary and secondary motion of looms and their functions. Working of a loom and its role in fabric formation.	
2	Weaving design: analysis of basic weaves; Plain and twills, Checks and Stripes, colour and weave interaction, derivatives of basic weaves; Satin and sateen weave, dobby, jacquard, pile weave including cut and uncut pile, leno, mockleno, gauze, and other fancy weaves, bedding or nesting. Representation of simple weaves on graph paper with drafting and lifting plan. Fabric identification and design analysis. Fabric specifications of some common fabrics like cambric, poplin, canvas, satin and sateen, drill, gabardine, denim, gauge, corduroy, etc. Introduction and salient features of Crepe fabrics like georgette, chiffon. Warp and weft pile, Brocade and Damask. Terry pile structures. Checks and stripes. Ordinary honeycomb and Brighton honey comb, mock-leno etc	
3	Design of Plain weave and its derivatives, regular and other twill weaves, twill derivatives, sateen and satin weave and derivatives, simple colour and weave effects, woven stripes and checks, diamond and diaper, mock leno, ordinary honey comb, brighton honey comb, huck-a-back, crepe, 23edford cord. Construction and design of terry pile, corduroy and velveteen, etc. Designing of dobby and jacquard weaving. Design analysis of fabric samples of different types and designs Drafting and Lifting Plan. Weave notations	
4	Types of looms, Evolution of looms, fabric specific looms, dressing of a loom, Classification of loom, Passage of material through loom, study of primary and secondary motions of loom. Principle of shuttleless loom Viz. Multiple gripper, Rapier, Airjet, Waterjet loom. Advantages of unconventional loom over conventional loom.	
5	Woven fabric formation : weaving preparatory, objectives and brief study of process- winding , warping, sizing ,drawing and denting. Introduction to Khadi, handloom and power loom fabrics.	
6	Yarn preparation for weaving, yarn package, types and size, Principles of winding, sizing and beaming, fabric defects during weaving	
7	Colour and weave effect	
8	Design Analysis of fabric sample of different types and designs. Decorative fabric construction –braiding, Felting, knotting , bonding etc.	



<b>Minor Course -2 (FAD/SII/MC-2) Textile Manufacture-II (Textile Fabrics-I: weaving and weaving designs) ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Fabric identification and design analysis. Fabric specifications of some common fabrics like cambric, poplin, canvas, satin and sateen, drill, gabardine, denim, gauge, corduroy, etc.	
<b>2</b>	Development of colour and weave effect in fabric samples by hand loom/ sample loom/ framed loom	
<b>3</b>	Fabric identification of different woven samples	
<b>4</b>	Weaving calculations	
<b>5</b>	Preparation of glossary of fabrics considering all fabric classification	
<b>6</b>	Preparation of drafting and lifting plan of different weaves	

### **References**

1. Grover Elliot and Hamby D S, *Handbook of Textile Testing and Quality Control*“, Wiley Eastern Ltd., Mew Delhi, 1<sup>st</sup> edition (1960).
2. Banerjee N N , „*Weaving Mechanism*“, Vol – I, Textiels Book House, India, 10<sup>th</sup> Revised Edition (1993).
3. Blinov I, Shibabow Belay, „*Design of Woven Fabrics*“, Mir Puiblishers, Moscow, 1<sup>st</sup> Edition (1998).
4. Ormerod A, “Modern Preparation and Weaving machines”, Woodhead Publication.
5. Chitra Chowdhury “Textile design and structure” 978-81-8342-298-7
6. Tanya Jain “Textile designing theory and concept”
7. W.S. Murphy, “Textile Weaving and Design”, Abhishek publication, 2003.
8. Z.J. Grosicki, „Watson’s textile Design & colour, 7<sup>th</sup> Edition Woodhead Publication

**Detailed Syllabus of Each Paper for Semester –II**

**FAD/SII/MDC -2- Marketing Management and Retailing**

**Marketing Management and Retailing (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Marketing: Concept, Nature, Functions & Importance. Selling Vs. Marketing. Marketing Environment: Nature, Types& Strategies Types Of Marketing, Marketing Information System; Definition and Components. Marketing Research; Definition Objective, Process & Significance, Consumer Behavior: Factors Influencing the Consumer Behavior, Consumer Buying Process, Buying Motives, Consumer Market in India. Market Segmentation: Concept, Importance, and Basis. Target Market Selection, Market Positioning: Concept & Importance.	
3	Marketing Management: Concept Philosophy & Process. Marketing Mix; Definition, Importance & Factors Determining Marketing Mix. Meaning &, Nature of Product, Concept of Product Mix., Product Planning and New Product Development. Product Life Cycle. Branding & Labeling.	
4	Advertising: Meaning, Features, Types, Functions& Setting of Advertising objectives. Advertising Budget. AIDA (Attention, Interest, Desire and Action) Advertising Media: Media Types & Its Evolution, Factors Affecting Media Choice. Advertising Agencies: Concept, Role, Types and Selection of Advertising Agencies. Regulating Agencies: Advertising standards Council of India (ASCI), 15 Personal Selling: Meaning, Nature & Importance.	
5	Personal Selling and Salesmanship, Characteristics of Personal Selling, Qualities of a Good Sales Person.	
6	Sales Promotion: Concept, Objectives, Schemes and Importance. Exhibition And Trade Fairs. Sales Planning and Control: Selection, Training, Motivation And Compensation Of Sales Personnel. Ethical and Legal Aspects of Advertising And Sales Promotion	
7	Retailing: Concept, Scope and Retail Management. Types of Retailing Formats: Super Market, Hyper Market, Departmental Stores, And Convenience Stores, Catalogue Retailers.Non Stores Retailing: Vending Machine, Door To Door selling, Mail Order Business.E-Retailing: Credit Card Transaction, Smart Card and E-Payment. Retailing of Services.	

<b>FAD/SII/MDC -2- Marketing Management and Retailing ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	<b>Preparation of catalogues for advertising</b>	
<b>2</b>	<b>Preparation of models for sales promotional activities and product marketing</b>	
<b>3</b>	<b>Preparing report on marketing of various garment products for sales promotion.</b>	

## **References**

- 1.Kotler,Keller,Koshy And Jha “ Marketing Management” 13th edition Pearson Education
- 2.Ramaswamy VS, Namakumari “Marketing Management” 4th Macmillan
3. Shukla A.K. “Marketing Management” 1st edition, VaibhavLaxmiPrakashan
4. Evance&Berman “ Marketing Management”2007, Cenage Learning
5. Mcdenial,Lamb,Hair “ Principles Of Marketing 2008”Cenage Learning
6. William M. Pride and O.C Ferrell: Marketing; Houghton - Muffling Boston
7. Stanton W.J. et al: Fundamentals of Marketing, McGraw H

<b><u>Detailed Syllabus of Each Paper for Semester -II</u></b>		
<b>FAD/SII/AEC-2 – Introduction to Art Design and Drawing ( PRACTICAL)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Observational drawing, drawing from memory/imagination, drawing for two-dimensional and three-dimensional Art, Craft and Design, the ability to represent three dimensions in a two-dimensional image.	
2	Image-making, image manipulation and development (for example: enlargement, cropping, reversing, abstraction, changes in colour and treatment) and sequential imagery, lettering, and lettering combined with image.	
3	Introduction to media and techniques : b. Monochromatic Drawing media & tech. : pencil, charcoal, ink, coloured chalk etc. c. Painting media & tech.: water colour, tempera, gouache, oil colour, acrylic, batik, tie and die. d. Brief introduction of Print Making & tech. : Relief Prints, Intaglio prints, planographic prints. e. Mural, video art, computer art, mix media, collage, documented art.	
4	Drawing of perspective, enlargement, reduction etc of a design	

## References

- 1.The Story of Art. E. H. Gombrich.
- 2 Art & Illusion.E. H. Gombrich.
- 3.Meaning of Art. 3Herbert Read.
- 4 History of Art. Janson&Janson.

**Detailed Syllabus of Each Paper for Semester -II**

**FAD/SII/SEC-2- Textile Craft and Surface Ornamentation-II**

**Textile Craft and Surface Ornamentation-II (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Decorative Techniques of surface embellishments : Appliqué, Patch work, Quilting, Bead and Sequins work, Ribbon embroidery, and smocking.	
2	3 D Embroidery Techniques and its application	
3	Machine embroidery, different types of embroidery machines and their usage	
4	Needle craft, Different types of embroidery threads and Zari and needles	
5	Drawn thread,, cut work, crewel embroidery	
6	Detailed study on tribal embroideries	

<b>FAD/SII/SEC-2- Textile Craft and Surface Ornamentation-II ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Preparation of samples of Appliqué, Patch work, Quilting, Bead and Sequins work, Ribbon embroidery, and smocking.	
<b>2</b>	Preparation of samples of tribal embroideries	
<b>3</b>	Drawn thread,, cut work, crewel embroidery	
<b>4</b>	Sample development of 3D embroidery	

### **References**

1. Reader's Digest, *Complete Guide to Sewing*, Reader's Digest Association.
2. Heidi Kummli et al, *The Art of Bead Embroidery: Techniques, Designs and Inspiration*, Kalmbach Publishing Company, Books Division, 2007
3. Katherine Shaughnessy, *The New Crewel: Exquisite Designs in Contemporary Embroidery*, Sterling Publishing, 2005
4. T. D. Dillmont-*Encyclopedia of Needle work*.
5. *Anchor Book of Lace Crafts* –B.T. Batsford Ltd, London.

<b>Detailed Syllabus of Each Paper for Semester -II</b>		
<b>FAD/SII/CVAC-3 – Digital Empowerment ( PRACTICAL)</b>		
<b>Digital Empowerment ( PRACTICAL)</b>		<b>Full Marks: 50, Total Credit: 2</b>
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Digital Literacy and Digital Empowerment, Current Trends of Digital Technology,	
2	Evaluating the credibility of online information, application of Copyright and plagiarism detectors	
3	Imp application of Digi-Locker, E-Hospitals, e-Pathshala, SHIM, e-Kranti, (Electronic Delivery of Services), e-Health Campaigns	
4	Application of Electronic Communication: electronic mail, blogs, social media, Collaborative Digital platforms, Tools/platforms for online learning, Collaboration using file sharing, messaging, video conferencing.	
5	Application of Online security and privacy, Threats in the digital world: Data breach and Cyber Attacks, Blockchain Technology, Security Initiatives by the Govt of India	
6	Application of Digital Security, Digital Citizenship and Ethics, Responsible online behaviour and digital etiquette, Understanding online communities and their norm, Ethical considerations in digital technology usage.	
7	Application of Emerging Technology, Exploring emerging technology and it's impact, AI and Machine Learning, IOT and Connected Devices	

## References

1. Rodney H. Jones, Christoph A. Hafner , Understanding Digital Literacies: A Practical Introduction
2. Vijaya Sekhar K S, G P Sahu, Prabhu Gollamudi , **Digital Empowerment: A Cornerstone for eGovernance**
3. Maarit Mäkinen , **Digital Empowerment as a Process for Enhancing Citizens' Participation**

## Detailed Syllabus of Each Paper for Semester –II

**FAD/SII/CVAC-4- Traditional Textiles and Costumes of India**

**Traditional Textiles and Costumes of India (Theory)**

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no. of Contact Hrs = 30 hrs
1	History of Indian costumes: Study of different costumes (case studies): Ancient Indian Costume, Medieval (12 <sup>th</sup> to 17 <sup>th</sup> century) costumes, tribal costumes and special costumes (fanciful, historical, theatrical and filmy costumes etc)	
2	Historical costumes of India (state-wise): Male and Female traditional costumes of Punjab, Asam, Tripura, Manipur, Rajasthan, Gujarat, Maharashtra, West Bengal, Kerala, Tamil Nadu, Kashmir etc and other states of India.	
3	Woven Textiles <ul style="list-style-type: none"> <li>• Shawls and Carpets of Kashmir, Brocades of Benares.</li> <li>• Special Saris of different States of India: Paithani saris of Aurangabad, Temple saris of Tamil Nadu, Tangail, Baluchori, Dhonekhali and Jamdani of Bengal, Garad, Panetar of Gujrat</li> <li>• Textiles of North-Eastern India, Khadi and other textiles from cottage Industry of India.</li> </ul>	
4	Study on development of various craft work of different States of India with special reference to accessories	
5	Study on traditional textiles of West Bengal, North India, Rajasthan, Gujrat, UttarPradesh, Maharashtra, Madhya Pradesh, Orissa and South India including Dabu, Mashru, Patola, Bandhni, Ikkat, Phad, Pichhwai, Mata-ne-Pancheri, etc	

### References

1. S.N.Dar, *Costumes of India and Pakistan*, D B Taraporewala Sons and Co. Pvt. Ltd., Mumbai.
2. J B Bhushan, *The Costume and Textiles of India*, Taraporewala's Treasurechome of Books, Mumbai.
3. *Aria: Costume – Fanciful, Historical and Theatrical*, Macmillan and Co. Ltd., London.
4. Francois Boncher, *A History of Costume in the West*, Thames and Hudson.
5. Hilare Hiler, *An Introduction to the Study of Costume*, W and G Foyle Ltd., London.
6. G S Ghurye, *Indian Costume*, Popular Prakashan, Bombay.
7. K N Lester, *Historic Costumes*, Chas A Benette and Co., New York.
8. C C Eoan, *Costumes Throughout the Ages*, J B Limancott, New York.
9. Milliiia Davenport, *The Book of Costume: Vol I and II*, Corown Publishers, New York.
10. Moti Chandra, *Costumes, Textiles, Cosmetics Design, cs and Coiffure in Ancient and Mediaeval India*, Orient Publishers, New Delhi.
11. Roshan Akazi, *Ancient Indian Costumes*, Art Heritage, New Delhi.
12. James Laver, *Costume through the Ages*, Simon and Schinter, New York



**Detailed Syllabus of Each Paper**  
**for**  
**Semester-III of 4 yrs (Eight Semesters) B.F.A.D. Hons. Degree Course and**  
**3 Years ( Six Semesters) B.F.A.D (General ) IDC Degree course**  
**in FASHION AND APPAREL DESIGN**  
**Under the University of Calcutta**

<b><u>Detailed Syllabus of Each Paper for Semester –III</u></b>		
<b>FAD/SHI/DSCC-3- Apparel Construction and Sewing –III (Spreading, cutting and sewing /joining trimmings , and pressing and packing etc)</b>		
<b>Apparel Construction and Sewing –III (Spreading, cutting and sewing /joining trimmings , and pressing and packing etc) (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Introduction to Anthropometry, Body Types & Shapes	
2	Standard Body Measurements and Size charts	
3	Selection of Fabric for Garment Construction, Fabric Garment Relationship	
4	Principle & Concept of Balance & Fit in garment manufacture, Different types of fit and fit analysis	
5	Concept of contouring in garment manufacture, Principles of contouring	
6	Concept of corrections of pattern according to the different body types	
7	Different types of style lines used in garments	
8	Categories & types of clothing, Classification of Clothing based on Event / Occasion / Weather	
9	Pattern Alteration and fit analysis of garments	

<b>FAD/SIII/DSCC-3- Apparel Construction and Sewing -II (Spreading, cutting and sewing /joining trimmings , and pressing and packing etc) ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Standard Body Measurements, Demonstration of taking measurements of different parts of the body.	
<b>2</b>	Drafting of Basic Bodice Block Women, Adaptation of variations from Basic Bodice Block	
<b>3</b>	Drafting of Basic Skirt Block Women, Adaptation of variations from Basic Skirt Block	
<b>4</b>	Drafting of Basic Bodice Block Men, Adaptation of variations from Basic Bodice Block	
<b>5</b>	Drafting of Basic Trouser Block Men, Adaptation of variations from Basic Bodice Block	
<b>6</b>	Sewing of Basic Bodice Block Women & its fit checking, Adaptation, sewing & finishing of variations from Basic Bodice Block	
<b>7</b>	Sewing of Basic Skirt Block Women & its fit checking, Adaptation, sewing & finishing of variations from Basic Skirt Block	
<b>8</b>	Sewing of Basic Bodice Block Men & its fit checking, Adaptation, sewing & finishing of variations from Basic Bodice Block	
<b>9</b>	Sewing of Basic Trouser Block Men & its fit checking, Adaptation, sewing & finishing of variations from Basic Bodice Block	

## References

1. Natalie Bray, *Dress Fitting*, Crosby Lockwood Sons Ltd., London.
2. Lovi A. Knowles, *The Practical Guide to Pattern Making for Fashion Designers, Juniors, Misses and Women*, Fairchild Publication, 2005
3. Cavolyn J. Kundel, Norma R. Hollen, *Pattern Making by the Flat-pattern Method*, Prentice-Hall
4. Readers Digest Complete guide to sewing, Readers Digest Association.
5. *The Sewing Book: Over 300 Step by Step Techniques* by Alison Smith, DK; New Edition (6 March2018)
6. H.J.Armstrong, *Pattern Making for Fashion Design*, Harper Collins Publishers, New york, 1987.

### Detailed Syllabus of Each Paper for Semester -III

FAD/SHI/DSCC-4- Apparel Production Technology-I

**Apparel Production Technology-I (Theory)**

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no. of Contact Hrs = 30 hrs
1	Introduction to the background and structure of the garment industry in India	
2	Different methods of garments construction. Flowchart for garment manufacturing steps. Basic organization structure of garment manufacturing unit and various departments.	
3	Planning and layout for garment construction and manufacture processes. Tailorability, comfortability and hand value of textile fabrics and their subjective and objective assessment by FAST system. Snake chart and its importance.	
4	Marker Planning, Drawing and Reproduction techniques of the marker. Efficiency of marker plan, methods of marker planning and use.	
5	Spreading of the fabric to form a lay: requirement of spreading, methods of spreading, grain lines of fabrics, spreading according to the grains of the fabrics, avoiding fabric loss by proper lay plan by marker planning and spreading. Spreading equipments.	
6	Cutting of the fabrics: requirements, methods of cutting of fabrics, cutting efficiency. Different types of cutting machines and efficiency.	
7	Sewing: Different types of seams, different stitches, code of stitches and stitch numbers. Details of different types of industrial and domestic sewing machines and feed mechanism, sewing needles and its specifications, sewing threads; types and requirements. Sewing problems. Testing of sewability and tailorability.	

<b>FAD/SIII/DSCC-4- Apparel Production Technology-I ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Laying patterns on fabric: types of layouts, layout on different fabric widths and types	
<b>2</b>	Marker development, Calculations of materiel requirements	
<b>3</b>	Planning assembly of women`s wear; Assessing quality at various stages of garment assembly.	
<b>4</b>	Precautions to be taken while working with different kind of fabrics: sheers and lace.	

### **References**

1. Gerry Cooklin, *Introduction to Clothing Manufacture*, Blackwell Science, UK, Indian publication for Om Books Service, New Delhi, 1997.
2. Gerry Cooklin, *Garment Technology for Fashion Designers*, Blackwell Science, UK, Indian publication for Om Books Service, New Delhi, 1<sup>st</sup> ed. (Reprint) 1998.
3. Harold Carr and Barbara Latham, *The Technology of Clothing Manufacture*, Blackwell Science, UK, Indian publication for Om Books Service, New Delhi, 2<sup>nd</sup> ed. (Reprint) 1999.
4. A J Chuter, *Introduction to Clothing Production Management*, Blackwell Science, UK, Indian publication for Om Books Service, New Delhi, 2<sup>nd</sup> ed. (Reprint) 1999.
5. D J Tyles, *Materials Management in Clothing Production*, Blackwell Science.
6. G Stylios, *Textiles Objective Measurement and Automation in Garment Manufacture*, Ellis Horword Ltd., New York, Singapore (1991).
7. H Carr and J Poneroy, *Fashion Design and Product Development*, Blackwell Science, London.

**Detailed Syllabus of Each Paper for Semester -III**

**Detailed Syllabus of Each Paper for Semester -III**

**Minor Course-3 (FAD/SIII/MC-3)- Textile Manufacture- III (Knitting, Non-Woven and Braids and other form of textile manufacture**

**Textile Manufacture- III (Knitting, Non-Woven and Braids and other form of textile manufacture ) (Theory)**

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	<b>1.</b> Introduction to Knitting: Definition, differences between Woven Fabrics and knitted fabrics, basic structural terms and principles of knitting technology.	
2	Basic mechanical principles (mechanisms) of knitting technology and structure property relationship of knitted fabrics	
3	Types of Knitting: Terms and definition used in warp and weft knitting, comparison of wrap and weft knitting, classification of warp and weft knitting machines. <ul style="list-style-type: none"> <li>• Weft Knitting: Basic structure stretches, designing of weft knitted structures, needle and yarn selection, general calculation of weft knits.</li> <li>• Warp Knitting: basic warp knit structure and their representation, pattering mechanisms for warp knit designs, yarns for warp knits, general calculation for wrap knit, Tricot and Raschel Knits: Principles of working of knitting Machines and Production Methods.</li> </ul> Knitting design and structure – property relationship. Faults of knitted fabrics and remedies.	
4	Different types of knitting machines and knitting needles <ul style="list-style-type: none"> <li>•</li> </ul>	
5	Fabric defects and quality control in Knitting	
6	.. Non-wovens: <ul style="list-style-type: none"> <li>• Classification and areas of application of Non Woven fabrics</li> <li>• Different techniques of non-woven fabric production,</li> <li>• Factors influencing the properties of non-woven fabrics</li> </ul>	
7	Different techniques of making laces and braids	

<b>Minor Course-3 (FAD/SIII/MC-3)Textile Manufacture- III (Knitting, Non-Woven and Braids and other form of textile manufacture ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Sample making for different types of knitting	
<b>2</b>	Sample making of different types of braids	
<b>3</b>	Testing of knitted and non-woven fabrics	
<b>4</b>	Graphical representation of Knitted fabrics	
<b>5</b>	Application of non-woven fabrics	
<b>6</b>	Preparation of glossary of different knitted and non-woven fabrics	

## References

### Knitting Technology

5. David J Spencer, Knitting Technology, Pergeman Press, U.K.
6. Ajgaonkar, Knitting Techmnbology, University Publishing Cooperation, Bombay
7. Samuel Raz, Flat Knitting Technology, Germany.
8. Terry Brackenbury, Knitted Clothing Technology, Backwell Science.

### Non-Woven Technology

- 1 Peter Lennon-Kerr, Non-Woven, The Textile Trade Press 1971
- 2 Radko Korma, Manual of Non Woven,
- 3 J R Holkar, Bonded Fabric
- 4 J. Lumenschloss, non-woven technology

## Detailed Syllabus of Each Paper for Semester -III

FAD/SIII/MDC -3- Computer Aided Design I

Computer Aided Design I – (Theory)

Full Marks: 50, Total Credit: 2

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Learning about tools of M.S. paint, paint brush; use of various colours and to edit colours. Drawing, copying, scanning and transforming images.	
2	Learning about interactive tools of Corel draw; import and export of images; resize image, Drawing ,shaping, aligning, editing and grouping and ungrouping images.	
3	Learning about tools of Adobe Illustrator and its uses in garment designing	
4	Learning about Adobe Photoshop; manipulating colour table; CMYK colour conversion; adjusting hue saturation. Photoshop: Introduction to Photoshop and editing of raster images; Using of toolbox and layers; Understanding image parameters, such as image size, resolution, colour modes, Design editing and manipulation using Adobe Photoshop, Colour correction and rendering 2D images.	
5	General Introduction to Design, General Introduction to Graphic Design, Elements of Graphic Design, The history of graphic design, Graphic Communication Techniques About colour theory and its implications in Graphic Design, Concept of Raster & Vector Graphics	
6	Typography – Concept & Principles About lettering/fonts and their implications Designing with typography	
7	Techniques of Photographic Composition What a layout is and how to create an effective one Use of Photographic composition in Fashion Industry	
8	Expression of artistic skills through different suitable software for producing digital designs To improve design skills and techniques using a variety of tools	
9	Learning about interactive tools of corel draw; import and export of images; resize image. Drawing ,shaping, aligning, editing and grouping and ungrouping images.	
10	Learning about tools of Adobe Illustrator and its uses in garment designing	
11	Learning about Adobe Photoshop; manipulating colour table; CMYK colour conversion; adjusting hue saturation. Photoshop: Introduction to Photoshop and editing of raster images; Using of toolbox and layers; Understanding image parameters, such as image size, resolution, colour modes, Design editing and manipulation using Adobe Photoshop, Colour correction and rendering 2D images.	

<b>FAD/SIII/MDC -3-- Computer Aided Design -I( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Practice to get acquainted with interactive tools of corel draw; import and export of images; resize image.Drawing ,shaping, aligning, editing and grouping and ungrouping images.	
<b>2</b>	Practice to get acquainted with tools of Adobe Illustrator and its uses	
<b>3</b>	Practice to get acquainted with Abode Photoshop; manipulating colour table; CMYK colour conversion; adjusting hue saturation. Photoshop: Introduction to Photoshop and editing of raster images; Using of toolbox and layers; Understanding image parameters, such as image size, resolution, colour modes, Design editing and manipulation using Adobe Photoshop, Colour correction and rendering 2D images.	
<b>4</b>	Application of Graphic Designing in the Fashion Industry	
<b>5</b>	Practice to get acquainted with interactive tools of Corel draw; import and export of images; resize image.Drawing ,shaping, aligning, editing and grouping and ungrouping images.	
<b>6</b>	Practice to get acquainted with tools of Adobe Illustrator and its uses	
<b>7</b>	Practice to get acquainted with Abode Photoshop; manipulating colour table; CMYK colour conversion; adjusting hue saturation. Photoshop: Introduction to Photoshop and editing of raster images; Using of toolbox and layers; Understanding image parameters, such as image size, resolution, colour modes, Design editing and manipulation using Adobe Photoshop, Colour correction and rendering 2D images.	
<b>8</b>	Learning Designing of Logo and application of related software	
<b>9</b>	Preparation of a file	

## References

1. W Aldrich, *CAD in Clothing and Textiles*, Blackwell Science Ltd.
2. Manuals of the Softwares Being Used.
3. Donald Hearn and M. Pauline Baker „*Computer Graphics*, Prentice hall of India, New Delhi
4. Steve Baine, *Using Coreldraw*, Prentice Hall of India, New Delhi
5. Deke McClelland, *Photoshop CS2*, Wiley Dreamtech India Pvt. Ltd.



<b><u>Detailed Syllabus of Each Paper for Semester -III</u></b>		
<b>FAD/SHI/AEC-3 - Visual Art and Principles of Design ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Basic design drawing in scale and use of Different Drawing Media: Scaled Drawing as an aid to design; Writing Alphabets and different elemental unit of design in specific dimension and shapes, concepts of proportion – balance of proportion, rhythm of proportion etc. Drawing of lines/ motifs and other objects using different medium.	
<b>2</b>	Basic Designing and Sketching (on paper sheet):Line, form and motif: geometrical, simplified, naturalized, stylized and abstract and animated. <ul style="list-style-type: none"> <li>• Motifs inspired from traditional Indian arts and crafts, sculpture and historical traditions followed, Design development: growth of motif, enlarging and reducing a motif, placement for all over pattern.Colour: colour wheel, intensity chart, value, scale, colour harmonies and colour groups – one colour, two colour and multi- colour groups.</li> </ul>	
<b>3</b>	Designing use of concept for different fabrics, garments and other household textiles using different colour with reference to various styles such as: <ul style="list-style-type: none"> <li>• Geometric designs.</li> <li>• Naturalized designs: floral and animal motifs</li> <li>• Abstract designs.</li> <li>• Animated design: object-based designs</li> <li>• Paper cut and calligraphy patterns.</li> <li>• Aquatic motifs like pebbles, shells.</li> <li>• Kalka and paisley motif.</li> <li>• Ornamental designs and motifs from Indian mythology/traditional arts and crafts.</li> </ul> Designs from sculptures / historical evidence /architecture etc.	
<b>4</b>	Learning to record information through various kinds of drawings; developing skills to release and manipulate visual imagery; observational studies through a variety of media and techniques using colour qualities	
<b>5</b>	Visualization of garments and dress forms from various angles and perspective with accessories.	
<b>6</b>	Use of new media services, web – information, multimedia design studio and design communication studio activities etc for garment design. Visual illustration of textile art and fashion	

## **References**

- 1.Jackson, F. G., Lessons on Decorative Design, Chapman and Hall, London, 1891
- 2.Johnson, M., The Elements and Principles of Design: Written in Finger Jello, Art Education, 48, pp. 57–61, 1995
- 3.Hashimoto, A., Visual Design Fundamentals: A Digital Approach, Charles River Media, Boston, Massachusetts, 2007.

## Detailed Syllabus of Each Paper for Semester -III

**FAD/SIII/SEC-3 – Fashion Illustration, and Rendering**

**Fashion Illustration, and Rendering (Practical)**

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Study on Drawing body details with different movements, Study on Design conceptualization for women's wear	
2	Study on Technical illustration and Stylized illustration, Digital Illustration and its application	
3	Study on Use methods like cross hatching, diagonal strokes, smudging, using washes etc to generate the effects	
4	Rendering of different textures and fabrics, Basic rendering techniques: colour matching using different mediums; Different shading – Deep and Light. stripes, checks; gingham and plaids, patterns and textures, enlarging and reducing a print, shading and texturing differently, etc., Theme Rendering: developing a line of garment based on a theme (beachwear; swimwear; casual wear; sportswear; nightwear; cocktail wear; eveningwear; ramp wear; executive wear; traditional Indian costume and festival or occasional party wear).	
5	Design conceptualization for women's wear and men's wear	
6	Principles of figure drawing and sketching of body features, Drawing the human figure form from different angles: front, side and back, Drawing different silhouettes. Sketching styles of garments for different age groups: children, teenagers and adults <b>Illustrations of Garments &amp; garment design details:</b> Variations in necklines & collars, sleeve details, skirts & pants, blouses, coats & jackets; drawstring & fastenings, tassels & tucks, frills, fringes & gathers, cowls & cascades, hemlines & insertions, lacing, macramé and patch work, pleats, quilting & ties, shirring, smocking and zips, yokes & underskirts and their illustrations. Design and sketching of accessories, hats and headgears, footwear; bags & purses, jewellery matching and befitting with garment style / design / colour and purpose.	
7	<b>Fashion Illustrations details:</b> figure studying with different styles, hand, feet, hairstyles, face etc. Rendering and types of rendering (with water colour, steadler colour, pen rendering), draping of garments in croqui.	

### References

1. Peter Pauper Press, Essentials Fashion Sketchbook
2. Anna Kiper, Fashion Illustration: Inspiration and Technique

**Detailed Syllabus of Each Paper**  
**for**  
**Semester-IV of 4 yrs (Eight Semesters) B.F.A.D. Hons. Degree Course and**  
**3 Years ( Six Semesters) B.F.A.D (General ) IDC Degree course**  
**in FASHION AND APPAREL DESIGN**  
**Under the University of Calcutta**

<b><u>Detailed Syllabus of Each Paper</u> for Semester -IV</b>		
<b>FAD/SIV/DSCC-5– Apparel Construction and Sewing-IV</b>		
<b>Apparel Construction and Sewing-IV (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Details of pattern adjustments and alterations	
2	Concept of pattern making of intimate wear, measurement of bust contour /radius	
3	Concept of pattern making of knit wear	
4	Concept of pattern making using non-woen fabric	
5	Process of bust padding	
6	Problems in pattern making of high end garments	
7	Pattern making of maternity wear	
8	Pattern making of clothes for lactation	

<b>FAD/SIV/DSCC-5- Apparel Construction and Sewing-IV ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Construction of women's intimate wear	
2	Construction of saree blouse, plain blouse with lining, cholicut blouse	
3	Haute Couture, application of godet, panel, umbrella, circular, wrapover	
4	Construction of reversible jackets	
5	Construction of house coat with shawl collar	
6	Construction of night wear	
7	Construction of clothes for maternity and lactation	

## References

1. Natalie Bray, *Dress Fitting*, Crosby Lockwood Sons Ltd., London.
2. Lovi A. Knowles, *The Practical Guide to Pattern Making for Fashion Designers, Juniors, Misses and Women*, Fairchild Publication, 2005
3. Cavolyn J. Kundel, Norma R. Hollen, *Pattern Making by the Flat-pattern Method*, Prentice-Hall
4. Readers Digest Complete guide to sewing, Readers Digest Association.
5. *The Sewing Book: Over 300 Step by Step Techniques* by Alison Smith, DK; New Edition (6 March 2018)
6. H.J. Armstrong, *Pattern Making for Fashion Design*, Harper Collins Publishers, New York, 1987.

**Detailed Syllabus of Each Paper for Semester -IV**

**FAD/SIV/DSCC-6– Apparel Production Technology-II**

**Apparel Production Technology-II (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Alternative methods of joining clothing materials- Fusing and other methods, requirements, process and equipment	
2	Trims and Accessories- labels, motifs, linings, interlocking, wedding, lace, braid, elastic, hook, loops, seam binding, tapes, eyelets, zippers, fasteners, shoulders pad, buttons, tack buttons, rivets, metallic wires and saraswaki.	
3	Different other operations and machines used in garment construction other than spreading, cutting and sewing: Industrial machines used for label fixing, making button holes, button sewing, fixing tapes, fitting laces at edge, seam binding, machines for fusing, machines for joining accessories and creating designs or surface ornamentations.	
4	Flow chart for production of different simple garments from raw material to finishing stage, plant and machinery layout of a garment factory	
5	Sampling Department: Types and Function of a sampling department, for fabric and garment design. Working procedure and requirement for sample preparation as per costumers or designer’s choice. The function and utility of all garment production departments: Raw material and store design development and sampling, production planning department Pattern and marker preparation, Spreading & Cutting, Sewing and finishing and packaging department. Preparation of patterns from existing garment sample.	
6	Production details of common men, women and children wear from sample to bulk production: stage-by-stage production planning and quality control, Control of process, production and product parameters and design etc..	
7	Production details of producing knitted garments and leather goods	
8	Garment Finishing and packaging : Methods and techniques used. Need, category of garment and its production and processing, equipment and methods, permanent press, pleating, folding, packaging of garments	
9	Study on different types feeding mechanism and machine beds of sewing machine	
10	Different types of work aids, attachments and folders used in garment sewing	

<b>FAD/SIV/DSCC-6Apparel Production Technology-II ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Methods of joining clothing materials- Fusing and other methods	
2	Different types of labels and report preparation	
3	Study on different types of packaging and report preparation	
4	Application of various work aids, attachments and folders used in garment sewing	

### **References**

1. Gerry Cooklin, *Introduction to Clothing Manufacture*, Blackwell Science, UK, Indian publication for Om Books Service, New Delhi, 1997.
2. Gerry Cooklin, *Garment Technology for Fashion Designers*, Blackwell Science, UK, Indian publication for Om Books Service, New Delhi, 1<sup>st</sup> ed. (Reprint) 1998.
3. Harold Carr and Barbara Latham, *The Technology of Clothing Manufacture*, Blackwell Science, UK, Indian publication for Om Books Service, New Delhi, 2<sup>nd</sup> ed. (Reprint) 1999.
4. A J Chuter, *Introduction to Clothing Production Management*, Blackwell Science, UK, Indian publication for Om Books Service, New Delhi, 2<sup>nd</sup> ed. (Reprint) 1999.
5. D J Tyles, *Materials Management in Clothing Production*, Blackwell Science.
6. G Stylios, *Textiles Objective Measurement and Automation in Garment Manufacture*, Ellis Horword Ltd., New York, Singapore (1991).
7. H Carr and J Poneroy, *Fashion Design and Product Development*, Blackwell Science, London.

### Detailed Syllabus of Each Paper for Semester -IV

**FAD/SIV/DSCC-7- Yarn Craft and Fashion Accessory Design**

**Yarn Craft and Fashion Accessory Design (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Origin of fashion Accessories. Introduction to various fashion accessories.	
2	Study on the development of fashion accessories through ages	
3	History of fashion accessories like jewellery,belts, shoes, footwear, hats, caps, bags etc	
4	Study on various types of bags and their application in regular life. Review on the various raw materials used in bag making.	
5	Study on various types of shoes used in our daily life. Review on the process of making shoes using various types of raw materials	
6	Study on the principles of design of Fashion accessories and the problems in designing fashion accessories.	
7	Study on various types of bag, hats and caps	
8	Study on various types of jewellery by both men and women. History of development of jewellery through ages.	
9	Study of development of decorative and fashionable footwear	
10	Study on yarn craft including knitting, braiding, lace making, tatting, crocheting etc.	
11	Crochet – Single, Double & Treble, Knitting – Basic- purl, Knit, Garter, Stocking, Rib Applique-Hand & machine, Quilting - Hand & machine, Patch work - Hand & machine, Smocking-Basic & Honey Comb , Macrame-any two, Braiding, Hooking, Lace and Ribbon work	

<b>FAD/SIV/DSCC-7- Yarn Craft and Fashion Accessory Design ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Creation of various types of bags using various types of raw materials like fabric, cord, beads, plastic mat, leather etc	
<b>2</b>	Creation of various types of hats and caps by using various raw materials.	
<b>3</b>	Deigning of shoes and other accessories	
<b>4</b>	Design development of various types of jewellery	
<b>5</b>	Preparation of samples of knitting, braiding, lace making, tatting, crocheting etc	

### **References**

1. Stephens Frings Gini, 2007, Fashion: From Concept to Consumer (9th Edition), Prentice Hall
2. Genova Aneta 2011, Accessory Design, Fairchild Pubns; 1 edition
3. Schaffer Jane, Saunders Sue 2012, Fashion Design Course: Accessories: Design Practice and Processes for Creating Hats, Bags, Shoes, and Other Fashion Accessories, Barron's Educational Series
4. Lau John 2012, Basics Fashion Design 09: Designing Accessories: Exploring the design and construction of bags, shoes, hats and jewellery, A Publishing; 1 edition
5. Armstrong, H.J. (2009), Pattern Making for Fashion Design, Harper Collins Publishers, INC, New York.
6. Fringes, G.S. (1999), Fashion from Concept to Consumer, 6th edition, NJ, Prentice Hall.
7. Jarnow, J. Dickerson Kitty G (1987), Inside the Fashion Business, New Jersey, Merrill, Prentice Hall.



### Detailed Syllabus of Each Paper for Semester -IV

**FAD/SIV/MC-4 – Textile Chemical Processing-I**

**Textile Chemical Processing-I (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Preparatory processes for different textile fabrics before dyeing and printing: Desizing, scouring, bleaching and drying of textiles from natural, man-made fibres and their blends. Mercerisation of cotton, woolenisation of jute, degumming of silk, and scouring of raw wool. Brightening and Blueing	
2	Dyeing: Classification of dyes, Chemical constitution and colour of dyes. General theory of dyeing and application of direct, acid, basic, vat, reactive, disperse, azo dyes on cotton, wool, jute, silk and synthetic fibres using standard methods. Dyeing of textiles with natural dyes. Yarn, fibre and fabric dyeing machines. Jigger-Winch-HT beam jet, Padding mangles.	
3	Colour Science: Colour measuring parameters and colour communication. Colour matching manual and computer – aided. Test of colour fastness to wash, light, rubbing, perspiration and heat etc.	
4	Study on application of various dyes on natural and man-made textiles and their blends	
5	Printing using different dyes: Block, screen, khadi, resist printing, discharge printing, flock printing, stencil, screen, roller, etc. Preparation of printing screen and pigment printing.	

FAD/SIV/MC-4 - Textile Chemical Processing-I ( Practical)		
Full Marks: 50, Total Credit: 2		
Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Preparatory processes for different textile fabrics before dyeing and printing: Desizing, scouring, bleaching and dyeing of textiles Mercerisation of cotton, woolenisation of jute, degumming of silk, and scouring of raw wool. Brightening and blueing.	
2	Dyeing: application of direct, acid, basic, vat, reactive, disperse, azo dyes on cotton, wool, jute, silk and synthetic fibres using standard methods. Dyeing of textiles with natural dyes.	
3	Colour Science: Colour matching manual and computer – aided. Test of colour fastness to wash, light, rubbing, perspiration and heat etc.	
4	Printing using different dyes: Block, screen, khadi, resist printing, discharge printing, flock printing etc. Preparation of printing screen and pigment printing.	

## References

1. Needles Howard L, *Textile Fibres, Dyes, Finishes & Processes*, Standard Publishers & Distributors, Delhi, 1<sup>st</sup> ed., 2001.
2. Cook, *Textile Fibres (Vol.5: natural fibres): Vol-2: Synthetic fibres*.
3. Gohl E P G & L D Vilensky, *Textile Science: An Explanation of Fibre Properties*, CBS Publishers & Distributors, Delhi, 2<sup>nd</sup> ed., 1983.
4. Jayaprakashan S, R Gopalakrishnan & V Kasinathan, *Fibre Science and Technology*, Komarapalayam, 1<sup>st</sup> ed., 1997.
5. Chakraborty R R & Trevedi SS, „*Technology of Bleaching & Dyeing of Textile Fibres*“, Vol – I, Part-2.
6. Gohl E P G & Vilensky L D, „*Textile Science: An Explanation of Fibre Properties*“, CBS Publishers and Distributors, Delhi, 1<sup>st</sup> Edition (1987).
7. Hall A J, „*Textile Finishing*“, Heywood Books, London, 3<sup>rd</sup> Edition (1966).
8. Marsh J T, „*An Introduction to Textile Finishing*“, Chapman & Hall Ltd., London, 5<sup>th</sup> Impression (1953).
9. Marsh J T, „*An Introduction to Textile Bleaching*“, B I Publication, New Delhi, 1<sup>st</sup> Indian Edition (1979).
10. Needles Howard L, *Textile Fibres, Dyes, Finishes & Processes*, Standard Publishers & Distributors, Delhi, 1<sup>st</sup> ed. (2001).
11. Shenai V A, „*Technology of Bleaching and Mercerizing*“, Vol – III, Sevak publications, Mumbai, 2<sup>nd</sup> Edition (1996).
12. Shenai V A, „*Technology of Textile Processing – Chemistry of Textile Auxiliaries*“, Sevak publications, Mumbai, 1<sup>st</sup> Edition (1976).
13. Trotman E R, „*Textile Scouring and Bleaching*“, B I Publishing Pvt. Ltd., New Delhi, 1<sup>st</sup> Indian Edition (1993)

**Detailed Syllabus of Each Paper for Semester -IV**

**FAD/SIV/MDC -4 – Computer Aided Garment Design-I**

**Computer Aided Garment Design-I (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Set Texture's Dye, Knitting effect, Crinkle, Leather effect, Fur Effect 3.2 Light, display mode, Define show ratio, back ground colour, ruler, design E-studio, System shortcut forms, Layers, Material area. 3.3 Pick object, Create curve, Edit curve, Create surface, Modify Clip border, Rescale surface grid, Edit Surfaces grid, Fold, Create tape, Edit clip, Texture table, Rescale texture, Create, Text, Pick colour, Set canvas property. 3.4 Set canvas, Clip image, Edit image alpha, colour management, Draping, Fill colour, pen, Local skew, Pick colour	
2	Designing of repeats – ¼, ½, ¾, Cross, Brick repeat, mirror, allover, random etc.	
3	Development of Computer Aided Screen, Block, etc. Designs for Printing	
4	Introduction to Development of Croqui figures for men, women and children using Photoshop/ Corel Draw/ Illustrator	
5	Introduction to Development of Croqui figures for men, women and children using Photoshop/ Corel Draw.	
6	Introduction to virtual designing and texture mapping	
7	Theory of Application of Computer in Textile Mills - Optimisation of Batch Mix of cotton, Material & Inventory Control – Softwares & Machineries used Production & Data Acquisition in Ring Spinning	
8	Theory of Computer Application in Dyeing & Dye Dispersing System Theory of Computer Aided Colour Matching	
9	Theory of Computer Application in Analysis of Fibre, yarn, fabric & garment defects – Softwares used	
10	Theory of Computer Application in Analysis of Weaving, Printing & garment Fil Analysis	
11	Theory of MIS Computer Application for all managerial inputs & outputs	

<b>FAD/SIV/MDC -4 - Computer Aided Garment Design-I (Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Set Texture's Dye, Knitting effect, Crinkle, Leather effect, Fur Effect Light, display mode, Define show ratio, back ground colour, ruler, design E- studio, System shortcut forms, Layers, Material area. Pick object, create curve, edit curve, create surface, Modify Clip border, Rescale surface grid, Edit Surfaces grid, Fold, create tape, edit clip, Texture table, Rescale texture, Create, Text, pick colour, Set canvas property. Set canvas, Clip image, Edit image alpha, colour management, Draping, Fill colour, pen, Local skew, Pick colour.	
2	Designing of repeats – ¼, ½, ¾, Cross, Brick repeat, mirror, allover, random etc.	
3	Development of Computer Aided Screen, Block, etc. Designs for Printing	
4	Introduction to Development of Croqui figures for men, women and children using Photoshop/ Corel Draw.	
5	Design the following: (Following recent Trends) [Follow the proper steps of planning a Avant Garte or Pret – e – porter collection] [Practically produce a sample/product for a collection of Repeat / Texture / Print Design] A collection of woven apparel for Womens wear A collection of woven apparel for Menswear A collection of woven apparel for Boy kid A collection of woven apparel for Girl kid	
6	Application of Computer in Textile Mills - Optimisation of Batch Mix of cotton, Material & Inventory Control – Softwares & Machineries used Production & Data Acquisition in Ring Spinning	
7	Computer Application in Dyeing & Dye Dispersing System Computer Aided Colour Matching	
8	Computer Application in Analysis of Fibre, yarn, fabric & garment defects – Softwares used	
9	Computer Application in Analysis of Weaving, Printing & garment Fil Analysis	
10	MIS Computer Application for all managerial inputs & outputs	
11	Introduction to application of computer-aided-designing in garment industry.	

## References

1. Winfred Aldrich, CAD in Clothing & Textiles, Blackwell Science, 1994.
2. CAD for Fashion Design by Renee Weiss Chase, Prentice hall Pub.
3. CAD/CAM Computer Aided Design & Manufacturing by Mikell P Groover & Mory W Zimmers. Jr, Pearson Education Pub.
4. CAD/CAM/CIM by R.Radhakrishnan, S.Subramanyan, V.Raju, New Age International Pub.
5. Fashion Design on Computers By M.kathleen Colursy, Prentice Hal

## Detailed Syllabus of Each Paper for Semester -IV

<b>FAD/SIV/AEC-4- History of Fashion and Costumes</b>		
<b>History of Fashion and Costumes (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	History of Western costumes: costumes for different peoples of different age groups for different country during 18 <sup>th</sup> – 20 <sup>th</sup> century: Indian, Pakistan, French, Italian, European (English). Costumes of western and other countries of world: Gothic, Roman, Neoclassism, Romanticism, Renaissance, Egyptian, Byzantine, Netherland etc.	
2	Origin of clothing, costume of ancient civilization – Indian, Egyptian, Greek and Roman. Introduction to cultural history, which informs about current thought and practice on historical textile art, craft and design	
3	History of Fashion: elements of fashion; Western and Indian traditional textiles and fashion relationship.	
4	Romanticism in Fashion, Art Nouvea, Neoclassism in Fashion	
5	Some common terminologies regarding history of costumes	
6	Medieval Costumes (12 <sup>th</sup> to 17 <sup>th</sup> century), Indian, French, European and English	
7	Traditional historical costumes of western countries eg: kilt	

## References

1. S.N.Dar, *Costumes of India and Pakistan*, D B Taraporewala Sons and Co. Pvt. Ltd., Mumbai.
2. J B Bhushan, *The Costume and Textiles of India*, Taraporewala's Treasurehome of Books, Mumbai.
3. *Aria: Costume – Fanciful, Historical and Theatrical*, Macmillan and Co. Ltd., London.
4. Francois Boncher, *A History of Costume in the West*, Thames and Hudson.
5. Hilare Hiler, *An Introduction to the Study of Costume*, W and G Foyle Ltd., London.
6. G S Ghurye, *Indian Costume*, Popular Prakashan, Bombay.
7. K N Lester, *Historic Costumes*, Chas A Benette and Co., New York.
8. C C Eoan, *Costumes Throughout the Ages*, J B Limancott, New York.
9. Millia Davenport, *The Book of Costume: Vol I and II*, Corown Publishers, New York.
10. Moti Chandra, *Costumes, Textiles, Cosmetics Design, cs and Coiffure in Ancient and Mediaeval India*, Orient Publishers, New Delhi.
11. Roshan Akazi, *Ancient Indian Costumes*, Art Heritage, New Delhi.
12. James Laver, *Costume through the Ages*, Simon and Schinter, New York

**Detailed Syllabus of Each Paper for Semester -IV**

**Internship-I (FAD/SIV/INT-I)– Internship-I in Garment Manufacture or Retailing industry and Field Visit (For 4weeks)**

**Internship-I in Garment Manufacture or Retailing industry and Field visit( Practical)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Each student shall be required to undergo a course on field visit to an industry or study tours arranged by the Institute, for a specific period. Students shall submit 3 copies of typed written report on the field visit and appear in a seminar and viva-voce examination to be conducted by a common board of examiners (internals and externals covering all important areas) coordinated by the Principal or a coordinator selected for the purpose by the University of Calcutta	
2	Each students has to go for 4 weeks internship after the end of 4 <sup>th</sup> semester examination of studies in any relevant industrial organization / export house related to garments or retailing industry and Students shall submit 3 copies of typed written report on the internship and appear in a seminar and viva-voce examination to be conducted by a common board of examiners (internals and externals covering all important areas) coordinated by the Principal or a coordinator selected for the purpose by the University of Calcutta.	

**Detailed Syllabus of Each Paper**  
**for**  
**Semester-V of 4 yrs (Eight Semesters) B.F.A.D. Hons. Degree Course and**  
**3 Years ( Six Semesters) B.F.A.D (General ) IDC Degree course**  
**in FASHION AND APPAREL DESIGN**  
**Under the University of Calcutta**

**Detailed Syllabus of Each Paper for Semester -V**

**FAD/SV/DSCC-8- Computer Aided Garment Design-II ( Practical)**

**Full Marks: 100, Total Credit: 4**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Study of different computer software for textile weaving design. Preparation of Checks and Stripes or dobby designs using computer aided weaving CAD module.	
2	<b>Represent the following Fabrics with its Colour &amp; Weave Effect in any Design Software with Theory</b> Including the following: i. Fabric Design ii. Base Weave iii. Warp Colour iv. Weft Colour v. Unit Repeat of the weave Gingham, Denim, Birdseye, Continuous line, Drill, Gabardine, Houndstooth	
3	<b>Represent the Basic Stitches following Knitted fabrics in Corel Draw with Theory</b> Weft Knits- Single Jersey, Lacoste, Warp Knits- Tricot, Raschel Double Knits- Rib Knit – [1*1, 2*1], Purl Knit, Interlock Knit, Cable Fabric, Bird’s Eye, Cardigan, Milano Ribs, Pointelle, Specialised Weft Knits- Intarsia, Jacquard Jersey, Knitted Terry, Knitted Velour, Sliver Knit, Fleece, French Terry	
4	<b>Design the following: (Following recent Trends)</b> [Follow the proper steps of planning a Avant Garte or Pret – e – porter collection]m [Practically produce a sample/product for a collection of weaves] A collection of woven apparel for Women’s wear, A collection of woven apparel for Menswear ,A collection of woven apparel for Boy kid, A collection of woven apparel for Girl kid	
5	Represent the following Basic Weaves with its Colour & Weave Effect in Corel Draw / DB Weave / any other Weave Design Software with its Theory Including the following: i. Weave Design ii. Drafting Plan iii. Lifting Plan iv. Repeat Unitv. Warp Colour vi. Weft Colour vii. Fabric Design 1.Plain Weave 2 Basic Twill Weave 3 Satin Weave	
6	Variations of Plain Weave Basket Weave or Matt Weave, Warp Rib Weave, Weft Rib Weave, Hopsack/Celtic Weave Percale Weave	
7	Variations of Twill Weave Right hand Twill/ Z Twill, Left hand Twill / S Twill, Even Twill, Uneven Twill, Broken Twill, Herringbone Twill, Pointed Twill, Chevron, Corkscrew, Cavalry Twill, Whipcord Twill	
8	Variations of Satin Weave Sateen Weave, Leno Weave, Oxford Weave, Bedford Cord Weave, Honeycomb, Huck-a-back	
9	Crepe Weave	

**References**

1. Radostina Angelova, Daniela Sofronova, Application of CAD/CAM Systems in the Design of Woven Textiles

**Detailed Syllabus of Each Paper for Semester -V**

**FAD/SV/DSCC-9– Sizing, Grading, Draping and Fit Analysis of Garments**

**Sizing, Grading, Draping and Fit Analysis of Garments (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	<b>Anthropometric measurements versus standard measurements</b>	
2	Garment Sizing: Sizing of garments in different countries, principles of sizing and development of size charts. Standardization of garment sizes.	
3	Grading: Introduction, grading terminology, methods of grading: stacked nest track and types of grading	
4	Grading of Patterns to Various Sizes: Basic Bodice, Basic Skirt, Basic shirt and Trouser, Princess-Line Bodice, Bodice with Yokes, Panel Skirts, etc.	
5	Application of computer in garment sizing and size standardization.	
6	Sizing of different components of men’s, women’s and children wear, (shirts/ trousers/salwar – kameez, skirts and tops, blouses, petticoat, pants etc), and their assembling. Fitting of garments as per size. Preparation of size charts- Procedure and sample.	
7	Introduction to Draping of garments and preparation of an adhesive dress-form.	
8	Draping of Basic Bodice and Variations by Dart manipulation including variations in yokes and style-lines neckline and other components.	
9	Draping a basic skirt with its variation (Drindle Skirt, Dome Skirt, Flared Skirt, Gored Skit, Pleated Skirt, Hip Yoke Skirt)	
10	Draping Collars (Mandarin Collar, Band Collar, Convertible Collar, Peter Pan Collar, Shawl Collar, etc.) and Sleeves (Basic Sleeve, Dolman Sleeve, Raglan Sleeve, Kimono Sleeve, etc.)	



**FAD/SV/DSCC-9Sizing, Grading, Draping and Fit Analysis of Garments (Practical)****Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Draping of Basic Bodice and Variations by Dart manipulation including variations in yokes and style-lines neckline and other components.	
2	Draping a basic skirt with its variation (Drindle Skirt, Dome Skirt, Flared Skirt, Gored Skirt, Pleated Skirt, Hip Yoke Skirt)	
3	Draping Collars (Mandarin Collar, Band Collar, Convertible Collar, Peter Pan Collar, Shawl Collar, etc.) and Sleeves (Basic Sleeve, Dolman Sleeve, Raglan Sleeve, Kimono Sleeve, etc.)	
4	Draping of Different Pattern and construction of men and women garments with draping of different components	
5	Preparation of size chart for selected population	
6	Grading of patterns to different sizes	
7	Fit analysis of garments after construction	

**References**

1. Natalie Bray, *Dress Fitting*, Crosby Lockwood Sons Ltd., London.
2. Gerry Cooklin, *Pattern Grading for Women's Clothes*, Blackwell Science.
3. Hilde Jaffe and Nurie Relis, *Draping for Fashion Design*, Prentice Hall, New Jersey.
4. C A Crawford, *The Art of Fashion Draping*, Fairchild Publication, New York.
5. Hilde Jaffe and Nurie Relis, *Draping for Fashion Design*, Prentice Hall, New Jersey.
6. C A Crawford, *The Art of Fashion Draping*, Fairchild Publication, New York.
7. Lynn Hillson, *Practical Home Dressmaking*, Odhams Press Ltd., Long Acre, London

## Detailed Syllabus of Each Paper for Semester -V

**FAD/SV/DSCC-10-Fashion Communication, Journalism and Forecasting**

**Fashion Communication, Journalism and Forecasting (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Fashion Journalism: introduction to fashion journalism, role of fashion journalism in promoting fashion industry, impact of fashion journalism in today's fashion trend, fashion journalism as a career	
2	Elements of reporting on fashion events and shows in journals and dailies highlighting fashion forecast, creativity and inspiration of designers with emphasis on accessories and textiles art and design for fashion garments and utility garments.	
3	Fashion communication: introduction to fashion communication, role of fashion communication in marketing of garments, role of computer in fashion communication, tools of fashion communication	
4	Introduction to event Management- types, categories, sports, rallies, wedding, Fashion corporate events.	
5	Principles of event management, key roles, fashion show, fairs and trade show, product launch.	
6	Role of event co-ordinator, administration, design, marketing, operations, risks etc.	
7	Preshow marketing and post event follow up.	
8	Creating a pre and post event promotion plan, building media relations, preparing press release, post show evaluation, ensuring legal compliance, safety and security.	
9	Licenses and permission obtained, Risk management for prevention of hazards, security for people and merchandise.	
10	Event planning, costing and man power planning.	
11	Fashion forecast, types of fashion forecast, fashion cycle	
12	Fashion forecasting agencies, fashion forecasting journals, Colour forecast, colour forecasting agencies Trend forecast, Style forecast, Textile Design forecast s,	

<b>FAD/SV/DSCC-10- Fashion Communication, Journalism and Forecasting ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Fashion communication and its application in fashion journalism	
2	Fashion forecasting, reporting on fashion trends, colour trends etc	
3	Fashion journalism and reporting on events	
4	Application of fashion communication as a means of fashion mood	
5	Preparation of audio, video, written reports on fashion shows and upcoming forecasts	
6	Interviewing of Designers/ dignitaries from the relevant field and preparation of questionnaire	
7	Preparation of review report on designers and their seasonal collection	

## **References**

- 1.By Don E. Schultz, Stanley I. Tannenbaum, Anne Allison- Advertising Strategy
- 2.By Paul Fifield- Marketing Strategy
- 3.By Darren Gelder, Paul Woodcock - Marketing and Promotional Strategy
4. Nancy Hall-Duncan -The history of fashion photography
5. Michael Langford –Photography,
6. Catherine Chermayeff -Fashion photography
- 7.Everett Judith C., Swanson Kristen K. (2012), Guide to Producing a Fashion Show (3rd Edition), Fairchild Publications, NY
8. Silvers Julia Rutherford (2012), Professional Event Coordination, Wiley; 2nd edition
9. Taylor Paula, (2012), How to Produce a Fashion Show, from A to Z, Pearson Prentice Hall

**Detailed Syllabus of Each Paper for Semester -V**

**FAD/SV/DSCC-11– Painting and Print Design Development for Garments**

**Painting and Print Design Development for Garments (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Bagh, Sangneri prints, Bagru prints, batik	
2	Painted Textiles: Kalamkari, Matta-ne-pacheri, Pichwai, Pattachitra and Madhubani, Phad.	
3	Ikkat, Patolas of Gujarat, Bandhas of Orissa, Telia Rumals and Pochhampalli Ikats of Andhra Pradesh	
4	Tie and Dyed Textiles Laheriya Bandhani	
5	Direct Printed Fabrics: Block printed textiles of Sangner, Masulipatnam & Gujarat and Roghan Printing of Gujarat and Rajasthan.	
6	Resist Printed textiles; Ajrakh, Dabu, Batik.	
7	Block Prints of Rajasthan. , Andhrapradesh, and Gujarat	

FAD/SV/DSCC-11- – Painting and Print Design Development for Garments ( Practical)		
Full Marks: 50, Total Credit: 2		
Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Collection of samples of Bagh, Sangneri prints, Bagru prints	
2	Collection of samples Painted Textiles: Kalamkari, Matta-ne-pacheri, Pichwai, Pattachitra and Madhubani.	
3	Preparation of samples of Kalamkari, Pattachitra and Madhubani	
4	Preparation of samples of batik	
5	Preparation of samples of tie and dye	

## References

1. Desai Chelna, „*Ikat Textiles of India*“, Graphic sha Publishing Co. Ltd., Tokya, Japan, 1<sup>st</sup> Edition (1988).
2. Dhamija Jasleen & Jyotidra Jain, „*Handwoven Fabrics of India*“, Mapin Publishing Pvt. Ltd., Ahmedabad. 1<sup>st</sup> Edition (1989).
3. Gillow John & Nicholas Barnard, „*Traditional Indian Textiles*“, Thames and Hudson, London, 1<sup>st</sup> edition (1991).
4. Lynton Linda, „*The Sari: Styles, Patterns, History and Techniques*“, Thames and Hudson, London, 1<sup>st</sup> edition (1995).

**Detailed Syllabus of Each Paper for Semester -V**

**FAD/SV/MC-5 Fibre, Yarn and Fabric and Garment Testing**

**Fibre, Yarn and Fabric and Garment Testing (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Selection of samples for testing, sampling procedures and statistical quality control	
2	Determination of linear density, Yarn Twist, Tensile Strength of single yarn and Elongation at Break, Threads per unit length of a fabric sample, Crimp of yarn in fabric.	
3	Identification of Fibre: Burning Test, Microscopic View, Stain Test and Solubility Test, Fibre Fineness, Moisture content, Seam slippage, Test for Flame retardancy.	
4	Fabric Weight test, Determination of Crease Recovery, Fabric Cover Factor, fabric thickness.	
5	Testing of physical parameters of textile fibres, yarns and fabrics, Type of weave, Colour difference of fabrics	
6	Testing of chemical properties of different fibres, yarns and fabrics	
7	Special testing procedures for nonwoven and introduction technical textiles	
8	Quality control in textile industry, quality circles and standardisation of textiles	
9	Test of colour fastness of dyed textiles	
10	Test of garments in terms of fibre content, colour fastness, type of dye with which it is dyed etc.	
11	Compositional analysis of textiles, copper number, methylene blue absorption value fluidity, pH value and its importance	

<b>FAD/SV/MC-5 – Fibre, Yarn and Fabric and Garment Testing (Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Testing of physical parameters of fibres, yarns and fabrics	
2	Testing of chemical properties of fibre, yarn, fabrics	
3	Testing of non-woven and technical textiles	
4	Test of colour fastness to wash, light, rubbing, perspiration and heat etc.	
5	Test of garments in terms of fibre content, colour fastness, type of dye with which it is dyed etc.	
6	Testing of blended fibres, yarns and fabrics	

## **References**

1. Grover Elliot and Hamby D S, *Handbook of Textile Testing and Quality Control*\*, Wiley Eastern Ltd., Mew Delhi, 1<sup>st</sup> edition (1960).
2. Booth J E, *Principles of Textile Testing – An Introduction to Physical methods of Testing Textile Fibres, Yarns and Fabrics*“, Heywood Books, Temple Press Books Ltd., London, 2 Edition (1964).
3. “Handbook Of Textile Testing”, Bureau of Indian Standards, New Delhi, ISBN: 81-7061-028-1.
4. K. Amutha, “ A Practical Guide to Textile Testing”, Woodhead Publishing India Pvt Ltd.

<b><u>Detailed Syllabus of Each Paper</u> for Semester -V</b>		
<b>FAD/SV/MC-6 – Portfolio Preparation –I for Garment Design and Documentation</b>		
<b>Portfolio Preparation –I for Garment Design and Documentation (Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Fashion Market Study <ul style="list-style-type: none"> <li>• Techniques Portfolio Development - Digital &amp; Manual</li> <li>• Digital Design Techniques &amp; Presentation</li> </ul> Range Development –explore what makes a good range, taking into account customers, competitors, price points, fabrics, core items and seasonal specials	
2	Design research and conceptualization for a given theme Design concept for the theme Understand and source different fabric and trims Develop different silhouettes	
3	Case Study to understand the concept of range development	
4	Developing Client Profile on the Basis of Market Study	
5	Mind mapping / Brainstorming for collection planning of Pret – e – porter or Avant – Garde collection	
6	Rendering Croquis digitally & manually according to the collection plan	
7	Preparing an estimate budget for the full range development along with display / photo / video shoot & fashion show	

### **References**

1. How to Create Your Final Collection by Mark Atkinson
2. Fashion Portfolio: Design and Presentation by Anna Kiper, Published by Batsford Ltd
3. Portfolio Presentation for Fashion Designers by Linda Tain Published by Bloomsbury



**Detailed Syllabus of Each Paper for Semester -V**

**Internship-II (FAD/SV/INT-II)– Internship-II in Garment Manufacture or Retailing industry (For 6 to 8 weeks)**

**Internship- II in Garment Manufacture or Retailing industry ( Practical)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Each student has to go for 6-8 weeks internship after the end of 5 <sup>th</sup> semester examination or at the start of 5 <sup>th</sup> semester course of studies in any relevant industrial organization / export house related to garments or retailing industry. Students shall submit 3 copies of typed written report on the internship and appear in a seminar and viva-voce examination to be conducted by a common board of examiners (internals and externals covering all important areas) coordinated by the Principal or a coordinator selected for the purpose by the University of Calcutta.	

**Detailed Syllabus of Each Paper**  
**for**  
**Semester-VI of 4 yrs (Eight Semesters) B.F.A.D. Hons. Degree Course and**  
**3 Years ( Six Semesters) B.F.A.D (General ) IDC Degree course**  
**in FASHION AND APPAREL DESIGN**  
**Under the University of Calcutta**

<b><u>Detailed Syllabus of Each Paper</u> for Semester -VI</b>		
<b>FAD/SVI/DSCC-12– Apparel Production Technology-III</b>		
<b>Apparel Production Technology-III (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Production, systems of production, people and production	
2	Production planning, flow chart process of production, two handed process chart, outline process chart, network analysis	
3	Production planning, long term planning, short term planning, capacity analysis	
4	Plant layout, line layout, material handling, production control	
5	Work study, Method study, Garment engineering, line balancing, activity sampling, cycle checks, time study, etc	
6	Production, systems of production, people and production	
7	Compliance in garment industry, GOTS compliance	

**FAD/SVI/DSCC-12- Apparel Production Technology-III ( Practical)****Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Development of activity sampling chart of an industry	
2	Preparing charts on work study, method study	
3	Preparing sample plant layout under different production systems	
4	Preparing work flow chart for production process	

**References**

1. A.J. Chuter., " Introduction to Clothing Production Management ", Blackwell Scientific Publications
2. David J. Tyler., " Materials Management in Clothing Production ", Blackwell Scientific Publications Professional Books.

## Detailed Syllabus of Each Paper for Semester -VI

**FAD/SVI/DSCC-13– Portfolio Preparation –II- For Garment Design and Documentation**

**Portfolio Preparation –II- For Garment Design and Documentation ( Practical)**

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Planning Pret – e porter / Avant Garde Collection on the Basis of Seasonal Trend Forecast for the following with at least 5 garments in each collection <ul style="list-style-type: none"> <li>• Womenswear</li> <li>• Menswear</li> <li>• Boy kid</li> <li>• Girl Kid</li> </ul> Neutral wear	
2	Developing the following on the basis of the Collection Plan <ul style="list-style-type: none"> <li>• Client Board</li> <li>• Concept Board</li> <li>• Inspiration Board</li> <li>• Mood Board</li> <li>• Theme Board</li> <li>• Colour Board</li> <li>• Swatch Board</li> <li>• Accessory Board</li> <li>• Style Board</li> <li>• Story Board</li> <li>• DD Sheets</li> </ul> Spec Sheet / Tech Pack	
3	Cost Sheet	
4	Construct Patterns manually / digitally with the help of draping / flat patternmaking / drafting for all the garments	
5	Stitching & finishing of garments for collection plan <ul style="list-style-type: none"> <li>• Womenswear</li> <li>• Menswear</li> <li>• Boy kid</li> <li>• Girl Kid</li> <li>• Neutral wear</li> </ul>	
6	Styling of garments for Photoshoot & Video shoot	
7	Display of Collection via Display / Photography / Videography & Fashion Show	

### References

1. How to Create Your Final Collection by Mark Atkinson
2. Fashion Portfolio: Design and Presentation by Anna Kiper, Published by Batsford Ltd
3. Portfolio Presentation for Fashion Designers by Linda Tain Published by Bloomsbury

## Detailed Syllabus of Each Paper for Semester -VI

**FAD/SVI/DSCC-14– Fashion photography, Styling and Costume Design**

**Fashion photography, Styling and Costume Design (Theory)**

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Fashion Photography: introduction to fashion photography; role of fashion photography in fashion industry; demand of fashion photography; maestros in fashion photography; impact of fashion photography in modern fashion trend; future of fashion photography as a career	
2	Visual Aesthetics For Photography, Cameras/ Different Formats In Digital Camera Language of Lighting, Understanding of Photography, Conceptual Photography, Fashion Still Life, Portrait Photography, On-Location Photography	
3	Fashion Styling: An Introduction," Fashion Styling Specialties, Fashion Styling Skills, History of Styling, Fashion Styling Fundamentals, How to Become a Fashion Stylist, Talents and Skills, Styling for Print, Getting Ready for a Test, Styling for Entertainment, Image Management, Knowing Your Body, Knowing Your Style, Working on the Job, Portfolio Building, and Branding	
4	What is Personal Style? Personal Styling Individuality and new image Choosing your Look, Shopping for and Keeping Up Your Wardrobe, wardrobe necessities The getaway and evening looks are stylish.	
5	Commercial Styling, Professional Protocols and Etiquette, Wardrobe Edit	
6	Fundamentals of Fashion Styling, Costume Trends	
7	What is a costume? What is costume design? Styles of costumes.	
8	Role of Costume Designer and the areas of costume designing.	
9	Socio and psychological aspects of clothing	

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<b>FAD/SVI/DSCC-14– Fashion photography, Styling and Costume Design ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Applications of Portrait Photography, Conceptual Photography, Fashion Still Life, Portrait Photography, On-Location Photography	
2	Fashion Styling for various events	
3	Costume Designing for various events, films, shows etc and documentation	

### **References**

1. Hannah Rooke, **The best books on fashion photography: get inspiration from top photographers**
2. Bruce Smith, Fashion Photography: A Complete Guide to the Tools and Techniques of the Trade
3. Somer Flaherty, **The Book of Styling: An Insider's Guide to Creating Your Own Look**
4. BJ Wilson, An Expert's Guide to Fashion Styling
5. Elizabeth Covey, The Costume Technician's Handbook: A Complete **Guide** for Amateur and Professional Costume Technicians

## Detailed Syllabus of Each Paper for Semester -VI

**FAD/SVI/DSCC-15– Garment Testing and Quality Management**

**Garment Testing and Quality Management (Theory)**

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Introduction to quality concept: Definition and concept of quality, product specifications and standards. Quality Need of customers, product features, quality conformance to specification & to customers requirements, Importance of standards and quality control, definition of standard, quality control for conforming standard specification, Study of care labels.	
2	Sampling: Sampling technique and random sampling procedures. Calculation of minimum number of samples to be taken. Sampling errors and rectifications.	
3	Quality Assurance: Concept, audit of quality Plans, planning & performing quality audits, quality survey and product auditing. Fabric defects and Pareto–chart. Defects in garments and their remedies. Waste control and reduction of loss in productivity.	
4	Statistical Quality Control: Introduction of process control & product control concept / process control charts for variables and control charts for attributes for constant and varying sample sizes, cumulative sum control charts, Product Control (acceptance sampling inspection plans – O.C. curve, single and double attribute sampling plans, sequential and multiple attribute sampling plans, special attribute sampling procedures, acceptance sampling by variables). Sampling and inspection procedure for textile and apparel product.	
5	Total Quality Management: Concept, creating quality from design stage, raw material purchase stage, Process control in the manufacturing stage, Product control for different customers. Human factors in quality management, quality circle and its roles and importance.	
6	ISO 9000(ISO-9001-2000) & ISO 14000 Concept and its Study: Quality compliance and environment compliance systems, model for quality assurance in design / development, production, installation and servicing; model for quality assurance in production and installation; Model for quality assurance in final inspection, Quality management and environmental management elements-guidelines and accreditation procedure. Social accountability (SA-1800). Environmental Management for quality maintenance of eco-friendly textile products	
7	Statistical Quality Control: Fundamental statistical calculation of mean, median, mode, coefficient of variations, percent mean deviation etc. Introduction of process control & product control concept / process control charts for variables and control charts for attributes for constant and varying sample sizes, cumulative sum control charts, Product Control (acceptance sampling inspection plans – O.C. curve, single and double attribute sampling plans, sequential and multiple attribute sampling plans, special attribute sampling procedures, acceptance sampling by variables). Sampling and inspection procedure for textile and apparel product.	
8	Quality Control and Cost: Cost of quality; managing quality in centralized and decentralized industry for textile mills and garment industry. Cost reduction techniques GOTS compliance. Testing of seam strength, shrinkage, dimensional stability, snagging, washability, stability to heat, fuming, steam, frost. Efficiency of detergents in washing	

<b>FAD/SVI/DSCC-15- Garment Testing and Quality Management ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Quality checking of garments	
2	Learning techniques of quality checking of garments	
3	Quality control chart preparation	
4	Testing of seam strength, shrinkage, dimensional stability, snagging, washability, stability to heat, fuming, steam, frost. Efficiency of detergents in washing	

## **References**

1. Grover Elliot and Hamby D S, *Handbook of Textile Testing and Quality Control*“, Wiley Eastern Ltd., Mew Delhi, 1<sup>st</sup> edition (1960).
2. Pradip V. Mehta, *An Introduction to Quality Control for the Apparel Industry (Quality and Reliability)*
- 3 Pradip V. Mehta, Satish K. Bhardwaj, *Managing Quality in the Apparel Industry*



## Detailed Syllabus of Each Paper for Semester -VI

**FAD/SVI/MC-7– Textile Chemical Processing-II**

### Textile Chemical Processing-II (Theory)

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Application of common finishes such as softening agent, stiffening agent, optical brighteners, bleaching agent, etc. on cotton and other textiles and garments and their evaluation.	
2	Application of anti-crease, water repellent /water proof, flame retardant and rot resistant finishes on cotton and other textiles and garments.	
3	Application of anti-static and soil release finishes on synthetic textiles and garments.	
4	Application of enzyme on cotton textile fabrics i.e. bio-polishing etc.	
5	Evaluation of important functional properties of textiles and garments before and after different finishing	
6	<p>Aesthetic and Functional Finishing: Conventional finishes (general, mechanical and chemical finishing) and special functional finishes to be given to textiles from cotton and man-made fibres and their blended articles, garments:</p> <ul style="list-style-type: none"> <li>• Calendaring and pre-shrinking, Softening and stiffening, Crease resistance or wrinkle recovery finishes, Water repellent finishes and water proofing, Antimicrobial / rot resistance finishes, Flame retardant / flame proof finishes of cellulosic textiles, Bio polishing of cotton, Enzyme washes - Vs - stone wash of cotton denim / jeans</li> <li>• Soil release / stain resistance finishes, Antistatic finishes, UV Protection finishes of synthetic textiles and Silky finish of polyester (weight reduction of polyester).</li> <li>• Weighting of silk fabrics, Scroopy - Finish of silk fabrics.</li> <li>• Decatizing of woolen and silk goods, Shrink proofing of woolen goods, Milling of woolen goods etc.</li> <li>• Special finishing like chemolonic, costume/ fragrance, thermo-tropic, chromotropic and other smart polymeric finishes and micro encapsulation</li> </ul> <p>Fault free finishes on textiles and garments.</p>	

<b>FAD/SVI/MC-7 - Textile Chemical Processing-II ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Application of common finishes such as softening agent, stiffening agent, optical brighteners, bleaching agent, etc. on cotton and other textiles and garments and their evaluation.	
2	Application of anti-crease, water repellent /water proof, flame retardant and rot resistant finishes on cotton and other textiles and garments.	
3	Application of anti-static and soil release finishes on synthetic textiles and garments.	
4	Application of enzyme on cotton textile fabrics i.e. bio-polishing etc.	
5	Evaluation of important functional properties of textiles and garments before and after different finishing	

## References

1. Hall A J, '*Textile Finishing*', Heywood Books, London, 3<sup>rd</sup> Edition (1966).
  2. Marsh J T, '*An Introduction to Textile Finishing*', Chapman & Hall Ltd., London, 5<sup>th</sup> Impression (1953).
  3. Marsh J T, '*An Introduction to Textile Bleaching*', B I Publication, New Delhi, 1<sup>st</sup> Indian Edition (1979).
  4. Needles Howard L, '*Textile Fibres, Dyes, Finishes & Processes*', Standard Publishers & Distributors, Delhi, 1<sup>st</sup> ed. (2001).
  5. Shenai V A, '*Technology of Bleaching and Mercerizing*', Vol – III, Sevak publications, Mumbai, 2<sup>nd</sup> Edition (1996).
  6. Shenai V A, '*Technology of Textile Processing – Chemistry of Textile Auxiliaries*', Sevak publications, Mumbai, 1<sup>st</sup> Edition (1976).
- Trotman E R, '*Textile Scouring and Bleaching*', B I Publishing Pvt. Ltd., New Delhi, 1<sup>st</sup> Indian Edition (1993)

## Detailed Syllabus of Each Paper for Semester -VI

**FAD/SVI/MC-8– Human Resource Management, Entrepreneurship Development and Costing**

**Human Resource Management, Entrepreneurship Development and Costing (Theory)**

**Full Marks: 50, Total Credit: 2**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Entrepreneurship Development: Concept and social context for entrepreneurship development., Enterprise: Survival enterprise, Micro enterprise and small enterprise., Different sector: Manufacturing, trading and service sector and traditional sector and non-traditional sector. Entrepreneurial infrastructure. Entrepreneurship: Definition and motivational characteristics importance women"s Entrepreneurship in the Indian Economy. Scope of Entrepreneurship in garment and textile sector. Role of technical and managerial knowledge for entrepreneurship development.	
2	Government role and regulation in business: Agencies for development of Entrepreneurship: Role of SSI, procedure and formalities for setting up SSI, role of industrial development bodies (e.g. MIDC),	
3	Sample production and test marketing, launching new products, Product design and costing production bottlenecks, financial resourcing. Project formulation, planning and appraisal. Buy-outs, franchise, amalgamation and take over. Support and ancillary services and business communications. Managing financial and non-financial resources. Some cost studies and economic feasibility study for entrepreneurship development in textile sector. Entrepreneurial effectiveness, causes of failures and remedies, Techno-economic feasibility study of any business proposal / project report, Project review and its mid term evaluation.	
4	Cost-Vs-revenue and profit. Financial statement analysis, Financial indicators and ratios. Profit volume ratio. Break-even analysis. Accounting ratios. Debt–equity ratio, DSCR, IRR etc., Turnover, Govt. duties and taxes.	
5	Working capital, bank funding, calculative risks, financial planning and control, inventory control and purchase technique, marketing link and sales promotion measures Bank loan, raising finance, financial institutions.	
6	Budgeting and preparation of budget estimates, Balance Sheet, Profit and loss account. Principles and object of costing. Different method of costing. Revenue generation. Manufacturing cost-control techniques. Cost reduction approaches in garment manufacturing industry. Factor affecting cost and pricing. Cost-volume-profit analysis (yarn and fabrics). Costing applicable for textile product / and garments etc. Analysis of fund flow, cash flow.	
7	Human Resource Management and Development, Leadership and Personality Development, Compensation Management, Human Resource Information System, HR Audit, Performance and Potential Management	
8	Employee Relations, Labor Welfare and Industrial Safety, Human Capital Management, Training and Development, Advanced Manpower Planning	

### References

1. Deshpandey M V Entrepreneurship of Small Scale Industries, Concept, Growth and Management, Deep and Deep Publication, New Delhi.
2. Stoner Jaf and Vankel C, Management, Prentice Hall of India, New Delhi
3. Nickell P & Dorsey, J, Management in Family Living, Wiley Estern Limited, 4<sup>th</sup> ed., New Delhi.
4. Cost Accounting: methods and Problems: B K Bhar
5. Dessler, G. Fundamentals of Human Resource Management (4<sup>th</sup> Edition, Pearson)
6. D'Cenzo, David A., Stephen P. Robbins, and Susan L. Verhulst, Human Resource Management, John Wiley and Sons, NewDelhi.
7. Gomez-Mejia, Luis R., D. B. Balkin, and R. L. Cardy, Managing Human Resources, Prentice Hall, NewJersey.
8. Ian, Beardwell, and Len Holden, Human Resource Management, Prentice Hall.
9. Dessler, Garry, Human Resource Management, Prentice Hall of India.

**Detailed Syllabus of Each Paper**  
**for**  
**Semester-VII of 4 yrs (Eight Semesters) B.F.A.D. Hons ( Research Based)**  
**and**  
**B F A D -Hons ( Non Research Based) Degree course**  
**in FASHION AND APPAREL DESIGN**  
**Under the University of Calcutta**

<b><u>Detailed Syllabus of Each Paper</u> for Semester -VII</b>		
<b>FAD/SVII/DSCC-16– Garment Production and Product Merchandising</b>		
<b>Garment Production and Product Merchandising (Theory)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Marketing Management: Role of marketing; strategic management and marketing processes; market segmentation and target marketing; marketing communication decisions; physical distribution decisions; pricing decisions; marketing information system and marketing research and Brand Building	
2	Textile Merchandising: Consumer demand and fashion marketing; creation of fashion trend, trend setting change of fashion cycle and consumer acceptance. Factors influencing consumer’s demand / acceptance / buying decisions.	
3	Retail fashion merchandising: Concept, types of retail organization, fashion retailing, value- satisfaction and quality. Sales Promotional policies, supply chain management and retail distribution management.	
4	Marketing of fashionable garments, different plans for utilizing market demand for the fashion trend, different incentive schemes related to marketing of fashionable articles / garments. Understanding fashion movement, prediction of fashion life cycle, analysis of customer’s fashion preferences. CRM and case studies.	
5	Fashion Marketing: Fashion forecasting, research and analysis, fashion dynamics, factors for change in fashion trends. Important fashion terms, fashion cycle, fashion costing- work sheet – specification sheet, etc. Customer Identification with fashion cycle	
6	International Marketing and export formalities: Multinational and textile export companies. Practice and problems of international marketing. Regulations of export and international trade in textiles. Government schemes and assistance Export formalities for garment export. Export market chain management.	

<b>FAD/SVII/DSCC-16- Garment Production and Product Merchandising ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Assignment on Development of project for product merchandising of specific product by drawing and planning and calculation of lead time.	
2	Assignment of Development and planning for sourcing of raw materials and their storage	
3	Assignment or survey for supply chain management of manufacturing industry and job workers	

## References

1. Cotler Philip, „*Principles of Marketing*“, Prentice Hall, 3<sup>rd</sup> Edition.
2. Sherlekar S A, „*Marketing Management*“, Himalaya Publishing Hpuse, Bombay, 2<sup>nd</sup> Edition (1982).
3. D. Amarchand and B. Varadarajan, *An Introduction to Marketing Management*, Vikas Publishing House Pvt. Ltd., 1981.
4. R S Davar, *Modern Marketing Management*, Progressive Corporation Pvt. Ltd., Bombay – Madras, 1<sup>st</sup> Ed.
5. Leslie David Burns, Nancy O. Bryant , 2011 *The Business of Fashion* Fairchild Publications
6. Elaine Stone, 1987, *Fashion Buying*, McGraw- Hill
7. Mary Frances Drake, Janice Harrison Spoone, Herbert Greenwald, 1992, *Retail Fashion Promotion and advertising* Macmillan
8. Michele M. Granger, Tina M. Sterling , 2011 ,*Fashion Entrepreneurship Retail Business Planning*, Fairchild Publications
9. Lynda Gamans Poloian, 2009, *Multichannel retailing*, Fairchild Publications

## Detailed Syllabus of Each Paper for Semester -VII

FAD/SVII/DSCC-17– Functional and Smart Clothing Design

### Functional and Smart Clothing Design (Theory)

Full Marks: 50, Total Credit: 2

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Functional Textiles: Market overview, need for functions, properties of textiles for specific functions, global and regional trends in functional textile production, world market trends.	
2	Functional clothing: Introduction, Definition, Classification: Protective functional, medical functional, sports functional clothing, Cross functional clothing needs.	
3	Clothing for Medical Field: Introduction, biomaterials for medical textiles, implantable, non-implantable, extra corporal, healthcare and hygiene applications of textiles. Masks, apron, PPE kit etc	
4	Clothing for Defense : Military or ballistic clothing, water proof breathable, water vapour permeable fabrics, military combat clothing systems, camouflage clothing, composite materials, and applications of textile composites. Protective textiles: Thermal, chemical and ballistic protection and their application.	
5	Nano textiles: Nano science and technology. Carbon nanotubes and nano applications in textiles and their importance in textile industry. Smart Clothing: Interaction design in smart clothing, specific requirements and applications of sensors, actuators, data processing, storage and communication in intelligent textile assembly, phase change materials, stimuli sensitive materials applications in textiles, wearable electronics and applications.	

<b>FAD/SVII/DSCC-17- Functional and Smart Clothing Design ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Designing and preparation of garments for medical purpose	
2	Designing and preparation of functional clothing	
3	Drafting pattern and construction of functional clothing	
4	Drafting pattern and construction of smart clothing	

## References

1. Amar K. Mohanty, Manjusri, Lawrence T, "Natural Fibers, Biopolymers and bio composites" Boca Raton, London, 2005. 41
2. Anand S.C., Kennedy J.F. Mirafatab M. and Rajendran S., "Medical Textiles and Biomaterials for Health care", Wood Head Publishing Ltd. England, 2006.
3. Abhijit Majumdar, Deepti Gupta, Sanjay Gupta, "Functional Textiles and Clothing", Springer; 1st edition, 2019.
4. Horrocks, A.R, Anand, S.C "Handbook of Technical Textiles", Wood Head Publishing Ltd., 2000.
5. HVJ, "Shape Memory Polymers and textiles", Wood Head Publishing limited, England, 2007.
6. Shahid Ul-Islam, Butola BS, "Advanced Functional Textiles and Polymers: Fabrication, Processing and Applications", Wiley-Scrivener; 1st edition, 2019.
7. Xiaoming Tao, "Wearable Electronics and Photonics", The Textile Institute, CRC press, Manchester, 2005.

### Detailed Syllabus of Each Paper for Semester -VII

FAD/SVII/DSCC-18– Garment Finishing and Sustainable Eco-Fashion

#### Garment Finishing and Sustainable Eco-Fashion (Theory)

Full Marks: 50, Total Credit: 2

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Wet processing and different methods of washing of garments for specific purpose, dry & steam processing of garments. Specific garment processing machines and their working.	
2	Softening of garments by different methods: aerodynamic principles, hydro entangling method, chemical method etc. chemical finishes. Speciality mechanical finishes like, raising, peach-skin finish. Speciality chemical finishes.	
3	Garment washing, bleaching, fading and dyeing; garment processing and washing machines and their working.	
4	Different types of garment finishing: Finishing of cotton denims - regular/irregular fading, sandblasting, Acid washing and stonewashing. Enzyme washing, stone washing, stain repellent finish, soil release finish, fire retardant finish, wrinkle resistance finish, fragrant finish, thermotropic or chromotropic and colour reversal finish, cosmeto finish, ice touch finish, UV protective finish and other protective finishes like protection against heat/cold/rain/sun/fire, etc. Fault free garment finishes.	
5	Eco-friendly textiles and processes: Concept of green technology and clean processing and products in textile and garments.	



<b>FAD/SVII/DSCC-18- Garment Finishing and Sustainable Eco-Fashion ( Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Wet processing and different methods of washing of garments	
2	Softening of garments by different methods:	
3	Different types of garment finishing:	
4	Concept of eco friendly textiles, Parameters for eco friendly textiles as per German (OTN-100,) European and Indian (Eco-mark) standards.	(OEKO-TEX-100)
5	Eco parameters and their testing and control. Testing of eco-friendly products.	
6	Sustainability of eco-friendly products	
7	Different techniques of producing eco-friendly textiles and garments	
8	Testing of eco-friendliness of textile products	
9	Practising eco-friendly dyeing, printing and finishing processes	

## References

- 1.Chakraborty R R and Trivedi SS, '*Technology of Bleaching & Dyeing of Textile Fibres*', Vol – I, Part-2.
- 2.Gohl E P G and Vilensky L D, '*Textile Science: An Explanation of Fibre Properties*', CBS Publishers and Distributors, Delhi, 1<sup>st</sup> Edition (1987).
3. Marsh J T, '*An Introduction to Textile Finishing*', Chapman & Hall Ltd., London, 5<sup>th</sup> Impression (1953).
4. Sustainable Fashion and Textiles: Design Journeys by Kate Fletcher, 2012.
5. Eco Fashion, Sass Brown, Laurence King Publishing, 2013.
6. Future Fashion White Papers by Earth Pledge, 2013.
7. The Eco-chick Guide To Life by Starre Vartan, 2012.
8. Eco-Chic, The Fashion Paradox by Sandy Black, Black dog Publishers.
9. Green Is The New Black-How To Change The World With Style by Tamsin Blanchard, 2013.
10. Sustainable Fashion: Why Now? A Conversation Exploring Issues, Practices and Possibilities by Janet Hethorn and Connie Ulasewicz, 2012

**Detailed Syllabus of Each Paper for Semester -VII**

**FAD/SVII/DSCC-19– Home Furnishing and Craft Design Development**

**Home Furnishing and Craft Design Development (Theory)**

**Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Different types of home furnishings: Bed sheets and bed cover, Pillow covers, Table covers, Table Napkins, Towel, curtain and draperies, blanket, carpet, upholstery	
2	Draperies, Types of curtains	
3	Sofa covers • cushion covers upholsteries-bolster and bolster covers	
4	Bed Linens, Different types of bed linen, Sheets, Blanket & Blanket covers, Comforts & Comfort covers, Bed spreads, Pillow covers Their use and care	
5	Kitchen Linen, Types of kitchen linen, Dish cloths, Hand towels, Fridge cover, Mixer Cover, Microwave cover, Their use and care	
6	Table Linens, Types of table linens, Table mats, Table Cloth, Hand Towels , Selection use and care	
7	Concept of Indian heritage crafts, and their importance	
8	Study on development of craft clusters and development of products based on the craft.	

**FAD/SVII/DSCC-19- Home Furnishing and Craft Design Development ( Practical)****Full Marks: 50, Total Credit: 2**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Collection Of Different Types of Furnishing Material. Prepare Sample file and survey Report. Sample collection of different accessories used in home Furnishings.	
2	Designing of Rug Making. Drafting, cutting stitching of Draperies, Curtains. Drafting, cutting stitching of Sofa covers, Cushion covers.	
3	Drafting and designing of: Different types of bed linen Sheets, Blanket covers, Comforts, Comfort covers, Bed spreads, Pillow covers. Stitching of designer bed spreads or comfort covers	
4	Drafting cutting stitching of Kitchen Linen Dish clothes, Hand towels, Fridge cover, Mixer Cover, Microwave cover.	
5	Designing ,drafting, cutting and stitching of Table linens	
6	Making of carpet designs	
7	Documentation of craft cluster and preparing an extensive report on the basis of the field study of the craft cluste.	
8	Development of product based on the craft and reviewing its marketing strategies	

**References**

1. Jane Churchill, Collins Complete Book of Soft Furnishings
2. DK, Pillows, Curtains, and Shades Step by Step: 25 Soft-Furnishing Projects for the Home
3. Dorothy Wood, Sew Your Own Soft Furnishings
4. Elaine Brumstead, The Coats Book of Soft Furnishings
5. Wendy Shorter, Professional Soft Furnishings

**Detailed Syllabus of Each Paper for Semester -VII**

**FAD/SVII/MC-9– Minor Dissertation/ Research Project and Seminar**

**Minor Dissertation/ Research Project and Seminar (Practical)**

**Full Marks: 100, Total Credit: 4**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Each student shall be required to carry out under supervision of one or more teacher or teachers as guide and/or co-guide, by carrying out an original investigation work on any problem related to textile processing or garment production / finishing / design, marketing etc. related to his/her studies. Each student shall submit three copies of typed written and bound dissertation embodying the survey, questionnaires/photographs/design work or experimental work and results of their investigation along with analysis and collected designs with specification sheets and other details of the product development / other work done.	

**Detailed Syllabus of Each Paper for Semester -VII**

**Minor Course (FAD/SVII/TP-1)– Design Development and Documentation**

**Design Development and Documentation (Practical)**

**Full Marks: 100, Total Credit: 4**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Term paper on Newer motif design and craft design development followed by product development and documentation by individual or group of students for atleast 2 types of garments/ craft products designing and digital documentation in step by step procedure and its display and presentation.	

**Detailed Syllabus of Each Paper**  
**for**  
**Semester-VIII of 4 yrs (Eight Semesters) B.F.A.D. Hons ( Research Based)**  
**and**  
**B F A D -Hons ( Non Research Based) Degree course**

<b><u>Detailed Syllabus of Each Paper</u> for Semester -VIII</b>		
<b>FAD/SVIII/DSCC-20–Market Research Survey for Apparel Sector</b>		
<b>Market Research Survey for Apparel Sector ( Theory)</b>		
<b>Full Marks: 100, Total Credit: 4</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Market survey, Project preparation and Business communication: Knowledge and skills for market survey and research. Importance of business communication. Elements of project preparation: Principles, procedure, formatting and formulation of project proposal, budget estimate and techno-economic feasibility study of the Project report. Information management, E-commerce. (Factory Act, labour laws and personnel management issues).	
2	Sociological aspects of consumer behavior The fashion market: size and structure, Marketing environment: Micro and Macro environment • Research design and Data sources • Role of Marketing research in new product development • Forecasting Fashion	
3	TARGET MARKETING AND MANAGING THE FASHION MARKETING MIX • Mass marketing and market segmentation • The fashion marketing mix • Designing and marketing fashion products • The product mix and range planning • Fashion and related life cycles UNIT-VI PRICING AND PLANNING • External and internal factors influencing price decisions • Main methods of setting prices • Pricing strategies in relation to new products and to match the competition • planning process and objectives • Marketing strategy • The fashion marketing plan	

<b>FAD/SVIII/DSCC-20 Market Research Survey for Apparel Sector (practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	<b>Doing consumer research for fashion and trend forecasting</b>	
<b>2</b>	<b>Market survey for preparing report on colour, fashion and trend forecast</b>	
<b>3</b>	<b>Preparation of detailed report on different types of forecast as per professional agencies</b>	

## References

1. Easey, M., Fashion Marketing, Wiley-Blackwell Publishing, 2009
2. Posner, H., Marketing Fashion, Laurence King Publishing Ltd., 2011
3. Rabolt, M. R., Consumer Behavior in Fashion, Kindersley Publishing Pvt. Ltd., 2009
4. Craik, J., Fashion: The Key Concepts, Berg Publishers, 2009 Reference Material:
5. Kardes, F., R., Maria, C. L., Thomas Warren Cline, Consumer Behavior, 2008
6. Sidney, P., Abraham Raine, Consumer behavior and fashion marketing, 1979
7. Jennifer Y., Kim K. P. Johnson, Fashion and the consumer, 2010
8. Russell W. Belk, Linda Scott, Søren Askegaard, Research in Consumer Behavior, 2012
9. Hines, T. and Bruce, M., Fashion Marketing, Elsevier Ltd. 2007

### Detailed Syllabus of Each Paper for Semester -VIII

FAD/SVIII/DSCC-21 – Clothing Care and Conservations

#### **Clothing Care and Conservations ( Theory)**

**Full Marks: 100, Total Credit: 4**

Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Importance, history, types of textile museums in India	
2	Basics of textile conservation, principles, materials, types of conservation- preventive and curative, Current practices, ethics and materials used in conservation, Factors affecting textile stability, Handling, Cleaning, Display and Storage.	
3	Factors causing deterioration in textiles, damages that occur, restoration	
4	Collection maintenance, workspace and equipment, housekeeping, checking and monitoring, handling and packegeing	
5	Storage and display, Different ways of storage	
6	Study on museums, examination of textiles in order to know their behaviour	
7	Collection of conservation quality materials and documentation on textile conservation	
8	Wardrobe Planning	
9	Insect or pest control plan	
10	Efficiency of washing and detergency, Role of water in cleaning, Hardness of Water, Composition and Functions of Detergents, Stiffening Agents and bleaching agents, □ Special Fibre and fabric structures, □ Dry cleaning	
11	Daily and Periodic care and storage in wardrobe	
12	Cleaning-Wet and Dry and □ Stain Removal, Industrial cleaning and finishing machines, □ Laundromats, drying and Ironing equipment	



<b>FAD/SVIII/DSCC-21 Clothing Care and Conservations (practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Practise of maintenance to resist deterioration in textiles, damages that occur, restoration	
<b>2</b>	Practise workshop on Wardrobe Planning	
<b>3</b>	Designing of Insect or pest control plan	
<b>4</b>	Test of Efficiency of washing and detergency etc	

### **References**

1. Agarwal, O.P., 1977, Care and Presentation of Museum projects – II, NRL
2. Finch K. and Putnam G, 1985, The Care and Preservation of Textiles
3. Landi, S. 1991, Textile Conservator's Manual, Routledge

**Detailed Syllabus of Each Paper for Semester -VIII**

**FAD/SVIII/DSCC-22– Visual Merchandising**

**Visual Merchandising ( Theory)**

**Full Marks: 100, Total Credit: 4**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Visual merchandising (VM) : Concept , purpose and role. Different modes of display and sales counter planning. Preparation of visual plates/photo/chart for promotional measures for visual merchandising. Use of different media/places/forms etc. For visual merchandising of fashion through different mode. Fashion photography and its utilization. Role of Colour and texture inVM. Concept of line and composition in VM. Types of display, Store planning, Design and Interior of Show room, POP Display, formulating VM Plan.	
2	Visual Merchandising Schedules – Seasons, Promotions, special sales. Themes, Type of displays – Window display, Interior displays, Elements of display – merchandise, forms, props, signage, lighting, Common problems in display	
3	Customer values and needs. Visual Design ,Visual Appeal, Props and equipments. Potential places for product display, Updating Stock records.	
4	Colour Phycology and application of colour in display	
5	Lighting Design and application of lights	
6	Display Error Management	
7	Applied Design a. Positive and Negative Space b. Light c. Design Elements	

<b>FAD/SVIII/DSCC-22 Visual Merchandising (Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Skill development in the creation of showroom or retail store window/interior displays that sell merchandise.	
<b>2</b>	Study of the basic techniques of store planning,	
<b>3</b>	Mannequin dressing, alternate form design, and display space conceptualization and implementation	

## **References**

1. Huckerby ,P(2015).“Easy Visual Merchandising: An Outstanding Visual Guide For 21st Century Retail”.
2. Bell, J. A., & Ternus, K. (2011). Silent selling: Best practices and effective strategies in visual merchandising (4th ed.). London: Fairchild.
3. "Visual Merchandiser". The Job Guide. Department of Education, Employment and Workplace Relations. Retrieved 5 October 2011.
4. Pradhan, S. (2009). Retailing management: Text and cases. Tata McGraw-Hill Education
5. Schielke, T; Leudesdorff, M (2015). "Impact of lighting design on brand image for fashion retail stores". Lighting Research and Technology. 46

**Detailed Syllabus of Each Paper for Semester -VIII**

<b>Research/ Dissertation (FAD/SVIII/DISST-I) – Major Dissertation/ Research Project</b>		
<b>Major Dissertation/ Research Project ( Theory)</b>		
<b>Full Marks: 200, Total Credit: 8</b>		
Units	Particulars	Total no.of Contact Hrs = 30 hrs
1	Each student shall be required to carry out under supervision of one or more teacher or teachers as guide and/or co-guide , by carrying out an original investigation work on any problem related to textile processing or garment production / finishing / design, marketing etc. related to his/her studies. Each student shall submit three copies of typed written and bound dissertation embodying the survey, questionnaires/photographs/design work or experimental work and results of their investigation along with analysis and collected designs with specification sheets and other details of the product development / other work done.	
2	Each student shall be required to work under supervision of one or more teacher or teachers and prepare a portfolio on garment design and collection development.	

**Detailed Syllabus of Each Paper for Semester -VIII**

**(FAD/SVIII/TP-2) – Computer Application in Garment industry**

**Computer Application in Garment industry ( Theory)**

**Full Marks: 100, Total Credit: 4**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Use of computer for Fashion cycle, fashion forecasting, fashion marketing. Role of designers in creating fashionable garments & its merchandising	
2	Study of different computer software for textile weaving design. Preparation of Checks and Stripes or dobby designs using computer aided weaving CAD module. Computer aided print design preparation for surface embellishment and decoration.	
3	Computer aided garment designing: Preparation of Basic block, Skirt Block, Trouser Block using the Pattern Drafting by Tuka-CAD Software. Pattern Drafting of Skirt variations and shirt patterns. Grading of Basic Block and Understanding Digital Grading System.. Preparation of layout on the basis of Shirt and Skirt patterns and their sizes. Design presentation techniques & design development sheets by use of computers.	
4	Computer aided Draping of garments using Fashion Studio software / Photoshop / Corel Draw.	
5	Introduction to computer aided grading system and its application, Introduction to computer aided sizing system and development of size charts	
6	2D & 3D Computer aided pattern making (Using TUKA – CAD / GERBER / LECTRA Technology). Computer aided pattern making, marker planning, sizing, grading and draping of garments for different types of men/women/children wear. Computer aided Fashion illustration techniques, using fashion illustration software.	
7	Advanced computer aided tools (Paint, Photoshop, Corel Draw, Flash and Garment design software) for pattern making, sizing, grading and designing garments and its draping and texture mapping and illustrations	
8	Introduction to pattern digitising and softwares related to pattern digitising and the process of pattern digitising.	

<b>(FAD/SVIII/TP-2) Computer Application in Garment industry (practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Advance computer aided tools (Paint, Photoshop, Illustrator, Corel Draw)	
<b>2</b>	Computer aided pattern making, marker planning, sizing, grading and draping of garments for different types of men/women/children wear. Computer aided Fashion illustration techniques, using fashion illustration software.	
<b>3</b>	Garment design software for pattern making, sizing, grading and designing garments and its draping and texture mapping and illustrations	
<b>4</b>	Computer aided Draping of garments using Fashion Studio software / Photoshop / Corel Draw.	
<b>5</b>	Introduction, pattern for digitizing, Getting started in Pattern Design – Introduction to PDS (pattern design screen), File menu, Opening and saving, Managing Pieces on the screen, measure, Edit and View functions. Point & Notch Functions, line functions, Piece functions.	
<b>6</b>	Introduction to computer aided grading system and its application	
<b>7</b>	Introduction to computer aided sizing system and development of size charts	
<b>8</b>	Introduction to virtual designing and texture mapping	
<b>9</b>	Computer aided garment designing: Preparation of Basic block, Skirt Block, Trouser Block using the Pattern Drafting by Tuka-CAD Software. Pattern Drafting of Skirt variations and shirt patterns. Grading of Basic Block and Understanding Digital Grading System.. Preparation of layout on the basis of Shirt and Skirt patterns and their sizes. Design presentation techniques & design development sheets by use of computers.	

## References

1. Meenu Srivastava, A Text Book of Computer Aided Apparel fashion Designing & Production Pattern Making ,
2. Yamini Jhanji, **Computer-aided design—garment designing and patternmaking**
3. Jane Alvarado, **Computer Aided Fashion Design Using Gerber Technology**

**Detailed Syllabus of Each Paper for Semester -VIII**

**(FAD/SVIII/TP-3) – Creative Pattern Making and Seminar Presentation**

**Creative Pattern Making and Seminar Presentation ( Theory)**

**Full Marks: 100, Total Credit: 4**

<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
1	Basic Jacket and coats foundations term, inner support terms and definition Jacket and Coat sleeves-: cap ease, coat sleeve tailor and two piece sleeve & Collar/ Lapel designs-: Basic notch collar lapel 20 II Double breasted jacket and design variation	
2	Shawl foundation-: shawl collar variation, wide shawl collar, shawl collar with separate Under collar and facing, jacket construction.	
3	Mullet, Leotard, and Resort wear -: Draft, Construction and develop different patterns.	
4	Trouser -: analysis of the Pants length and Pants terminology different types of pant- : Culottes, Trouser, Slack, Jeans and Pant variation. Dungarees draft and design. Jumpsuit draft and design.	
5	Zero Wastage Garments and Variation	
6	Garments for physical or mentally challenged	

<b>(FAD/SVIII/TP-3) - Creative Pattern Making and Seminar Presentation (Practical)</b>		
<b>Full Marks: 50, Total Credit: 2</b>		
<b>Units</b>	<b>Particulars</b>	<b>Total no.of Contact Hrs = 30 hrs</b>
<b>1</b>	Construction of coat, jacket etc	
<b>2</b>	Application of shawl and cowl foundation	
<b>3</b>	Mullet, Leotard, and Resort wear -: Draft, Construction and develop different patterns	
<b>4</b>	Culottes, Trouser, Slack, Jeans and Pant variation construction	
<b>5</b>	Construction of zero wastage garments	
<b>6</b>	Construction of garments for physical or mentally challenged	

### **References**

1. Gerry Cooklin, Garment Technology for Fashion Designers
2. Claire Shaeffer , Sewing for the Apparel Industry
3. Helen Joseph- Armstrong Pattern making for Fashion Design
4. Injoo Kim, Mikyung Uh Apparel Making in Fashion Design