

**ST. XAVIER'S COLLEGE (AUTONOMOUS), RANCHI**  
 (AN AUTONOMOUS COLLEGE AFFILIATED TO RANCHI UNIVERSITY)

**SYLLABUS UNDER CBCS CURRICULUM OF  
 B.Voc. (FASHION TECHNOLOGY)  
 HONORS PROGRAMME  
 w.e.f. Academic Year – 2025 - 26**

**FOR UNDER GRADUATE VOCATIONAL SELF FINANCING  
 PROGRAMME  
 AS PER RANCHI UNIVERSITY RULES & REGULATION**



Handwritten signatures and signatures in ink, including:

- Kantha
- Pranita Bhattacharya
- Musarrat
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- Aditya, 13/11/25
- Manisha
- MCBust
- Robert Scott
- Shrey
- Ramya
- Suraj



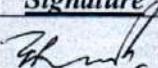
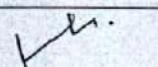
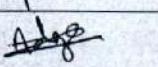
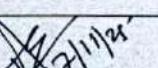
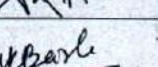
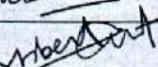
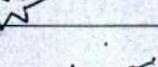
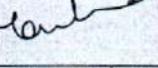
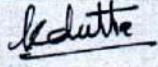
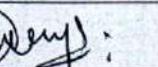
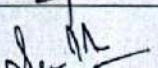
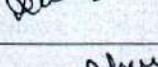
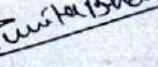
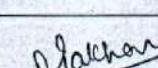
**Department of Commerce Self Financing & Vocational Studies**  
**St. Xavier's College, Ranchi**

*(An Autonomous College Affiliated to Ranchi University, Ranchi)*

Ref. No.: B.Voc.(FT)/2025

Date: 17<sup>th</sup> November 2025

The meeting of the Board of Studies held today i.e. 17<sup>th</sup> November 2025 at 11.30 am at the Conference Hall of the Department to finalize the syllabus of three years undergraduate programme of B.Voc. (Fashion Technology) Honors under the new CBCS Credit System which is effective from academic session of 2025 - 28 as per the directions of Ranchi University, Ranchi

<u>Sl No</u>	<u>Members Name of the Board of Studies</u>	<u>Status of the Board Member</u>	<u>Signature</u>
1	Prof. Gautam Rudra, H.O.D. - Department of Commerce Self Financing & Vocational Programs, St. Xavier's College, Ranchi	Chairperson	
2	Prof. Ratna Singh, Assistant Professor, Ranchi Women's College, Ranchi	University Representative	
3	Ms. Adya Annandita, Visual Merchandiser, Reliance Industries Ltd, Sandhy Towers, Ranchi	Post Graduate Alumnus	
4	Prof. (Dr.) Asha Kumari Prasad, Associate Professor, PG Department of Home Science, Ranchi University, Ranchi	Academic Experts	
5	Prof. Usha Kiran Barla, Assistant Professor, Arka Jain University, Jamshedpur, Jharkhand	Academic Experts	
6	Shri Ant Robert Ekka, Director, Luga Design Studio, Peace Road, Lalpur, Ranchi, Jharkhand	Industry Experts	
7	Prof. Manisha Tamanna Tirkey, Assistant Professor - Fashion Technology Programme, Department of Commerce Self Financing & Vocational Programs, St. Xavier's College, Ranchi	Internal Member	
8	Prof. (Dr.) Kaushik Dutta, Assistant Professor, Dept. of Comm. Self-Financing & Vocational Prog., St. Xavier's College, Ranchi	Internal Member	
9	Prof. Nidhi Arya, Assistant Professor, Dept. of Comm. Self-Financing & Vocational Prog., St. Xavier's College, Ranchi	Internal Member	
10	Prof. Sarwar Tirkey, Visiting Faculty - Fashion Technology Programme, Department of Commerce Self Financing & Vocational Programs, St. Xavier's College, Ranchi	Internal Member	
11	Prof. Punita Bharti, Visiting Faculty - Fashion Technology Programme, Department of Commerce Self Financing & Vocational Programs, St. Xavier's College, Ranchi	Internal Member	
12	Prof. Komal Ghakar, Visiting Faculty - Fashion Technology Programme, Department of Commerce Self Financing & Vocational Programs, St. Xavier's College, Ranchi	Internal Member	
13	Prof. Sumit Ritesh Kullu, Visiting Faculty - Fashion Technology Programme, Department of Commerce Self Financing & Vocational Programs, St. Xavier's College, Ranchi	Internal Member	
14	Prof. Nasir Hussain, Visiting Faculty - Fashion Technology Programme, Department of Commerce Self Financing & Vocational Programs, St. Xavier's College, Ranchi	Internal Member	

**Minutes of the Meeting:**

All the members discussed in details thoroughly all the important point of the syllabus and unanimously this syllabus is approved with some changes for the three year undergraduate programme as per CBCS regulations of Ranchi University applicable from academic session 2017-20 and subsequently amended on 2019 to include one more GE papers in 1<sup>st</sup> to 4<sup>th</sup> semester of the programme. All regulations in related to composition of marks for the non-practical & practical papers, promotion and Credits of courses are to be followed as per the CBCS regulations of the Ranchi University, Ranchi.

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**Mission & Vision for Bachelor of Vocation -B. Voc. (Fashion Technology) Honors Programme**

**Mission:** To offer high quality management programme that equip students with right knowledge, skills and attitudes required to succeed in a dynamic world.

- **Knowledge:** the right knowledge implies relevant contemporary and cutting-edge knowledge obtained through research and practiced which empowers students to think and act independently, creatively and ethically.
- **Skills:** The right skills enable students to think through complex problems, analyze them critically and find solutions quickly in a changing business environment.
- **Attitudes:** The right attitudes help students put their thoughts, feelings, behaviors' and actions in place while handling though situations.

**Vision:** To be a leader in management education through industry focused curriculum, case based learning

**Programme Outcomes (PO) for Bachelor of Vocation - B. Voc. (Fashion Technology) (Honors)**

**PO1-Critical Thinking:** By the end of the programme students are expected to act intellectually such that they are able to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at the ideas and decisions from different perspectives.

**PO2-Effective Communications:** By the end of the programme students are expected to possess good communication skills that are the cornerstone of any successful verbal and written communication required for the higher studies and jobs.

**PO3-Special Interaction:** At the end of the programme students are expected to have an insightful perspective towards difference in gender race, class, and disability and are able interact with each social entity in the most amicable way.

**PO4- Community engagements:** By the end of the programme students are expected to be continuously involved with their local community and contribute through their knowledge and skills towards the up liftment of the society and the country as a whole.

**PO5-Ethics:** At the end of the programme students are expected to have high ethical standards in terms of their work, social structure, family and their role responsibilities.

**PO6-Environment & Sustainability:** By the end of their programme students are expected to be aware of environmental issues and contribute towards sustainable developments of locality, society and nation as a whole.

**PO7-Self-directed and Lifelong learning:** By the end of the programme students are expected to be in a mental state such that they are able to cope with the dynamic socio technological changes and are motivated to learn and contribute towards self, social and national developments.

**PO8-Teamwork:** By the end of the programme students are expected to have an outstanding team skill which is much needed to create synergy in society and at the work place.

**PO9-Employability:** By the end of the programme students are expected to possess the necessary skills to become highly employable in the industry of their choice.

**PO10-Initiative & Leadership:** By the end of the programme students are expected to demonstrate initiative and leadership skill required for self, social, organization and nation's development.

**PO11-Demonstrate Mastery in Analytics:** Demonstrate the ability to identify a business situation from the stated information, assess the statistical techniques and the software applications required to model the same, and interpret the subsequent results to assist in effective decision making.

**PO12-Sensitivity towards Global Perspective:** Understand and imbibe information related to global business modules, brands strategies, and thereby assess global practices against localized customizations to better global presence within local settings and vice versa.

**Programme Specific Outcomes (PSO) for B. Voc. (Fashion Technology)Honors**

**PSO 1** – Students will adapt their artistic ability to support their future design career.

**PSO 2** – Assess, propose and apply various techniques related to drafting, draping and construction of garments.

**PSO 3** – Student will get basic insight of psychological aspects of clothing and fashion.

**PSO 4** – Develop a systematic, critical approach to problem solving at all levels of the design process.

**PSO 5** – Relate the design process to the appropriate manufacturing process.

**PSO 6** – Student will be able to develop an understanding of event organizing and media management.

**PSO 7** – Demonstrate professionalism by managing time to meet deadline with duality work and effectively collaborating in teams.

**PSO 8** – Learn Computer based Fashion CAD through hands on practical for overall developments of students.

**PSO 9** – Students will able to do research relate fashion to a broader socio economic, historical and environmental & industrial and consumer trends context.

**PSO 10** – Articulate garment design idea verbally, visually and digitally.

**PSO 11** – Students will be able to create portfolio through uses of DSLR cameras and other methods.

**PSO 12** – Students will be able to perform in different fashion shows or different artistic shows.

**PSO 13** – Students will able to use different useful software's like Wilcom E3, Photoshop, CorelDraw etc.

**PSO 14** – Students develop entrepreneur skill and are encouraged in doing their own start-up business.

**Programme Pedagogy for B. Voc. (Fashion Technology)**

1. Classroom Lecture with multimedia system.
2. Comprehensive discussion of topics.
3. Studio and workshop practice.
4. Enquiry based Learning.
5. Reading Tasks and relate local market surveys/research.
6. Face to face workshop-instruction, demonstration and making of product.
7. Team work task assignments.
8. Summer and winter internship in the respective areas for gaining practical knowledge.
9. Collaborative Learning System.
10. Lecture from Industry experts & industrial exposure visit.
11. Technical delivery through comprehensive lab practices.
12. Student's presentation and feedback and evaluation by industrial experts.
13. Students are encouraging to participate in different fashion shows for practical applications of knowledge.
14. Active participation in display of products/garments made by students through fashion events.
15. Comprehensive workshop in fashion, traditional and modern art & culture with industry experts.
16. Exclusive photography classes in classroom studio for developments of exclusive fashion portfolio.

**COURSES OF STUDY FOR UNDERGRADUATE B.VOC. (FASHION TECHNOLOGY) PROGRAMME  
Subjects Combination for B. Voc.(Fashion Technology) Programme (164 Credits)**

Honors/Core Subjects <b>CC 14 Papers</b>	Discipline Specific Elective Subjects <b>DSE 4 Papers</b>	Skill Enhancement Courses <b>SEC 2 Papers</b>	Compulsory Course <b>AECC 1+1=2 Papers</b>	Generic Courses <b>GE 2+2+2+2=8 Papers</b>
B. Voc. (FT)	B. Voc.(FT) Specific	B. Voc. (FT)	Language English Communication + EVS	GE in B. Voc. (FT)

### **Semester Wise Examination Structure for Mid Sem & End Sem Examinations:**

Sem	Core Honors, Allied DSE, Compulsory AECC Courses		Examination Structure		
	Code	Papers	Mid Semester Theory (F.M)	End Semester Theory (F.M)	End Semester Practical /Viva (F.M)
I	Core 1	Principle of Design & Fashion Theory	25	75	---
	Core 2	Introduction to Textile	25	75	---
	GE 1 (A)	Introduction to Sketching	---	100	---
	GE 1 (B)	Garment Construction Techniques – I	---	75	25
	AECC 1	English Communication	---	100	---
II	Core 3	Traditional Art & Surface Techniques	25	75	---
	Core 4	Material Exploration & Craft Studies	25	75	---
	GE 2 (A)	Fashion Illustration	---	100	--
	GE 2 (B)	Garment Construction Techniques – II	---	75	25
	AECC 2	Environmental Studies	---	100	---
III	Core 5	History of Fashion & Art Movements	25	75	---
	Core 6	Apparel Production Planning & Control	25	75	---
	Core 7	Fashion Marketing & Merchandising	25	75	---
	GE 3 (A)	Fashion CAD – I	---	100	
	GE 3 (B)	Garment Construction Techniques – III	---	75	25
	SEC 1	Research Methodology & Quantitative Techniques	---	100	---
IV	Core 8	Visual Merchandising	25	75	---
	Core 9	Apparel Production & Operation Management	25	75	---
	Core 10	Accessories Design	25	75	---
	GE 4 (A)	Fashion CAD – II	---	100	--
	GE 4 (B)	Garment Construction Techniques – IV	---	75	25
	SEC 2	Fashion Photography & Portfolio Development	---	100	---
V	Core 11	Draping	25	75	---
	Core 12	Apparel Costing	25	75	---
	DSE 1	Fashion Retail & Boutique Management	25	75	---
	DSE 2	Garment Construction Techniques – V	---	75	25
VI	Core 13	Apparel Exports and Documentation	25	75	---
	Core 14	Fashion Media and Event Management	25	75	---
	DSE 3	Entrepreneurship Development	25	75	---
	DSE 4	On Job Training	---	---	50+50

DSE 4 On Job Training

Baruah, Bishnu, Debi, Sunita, Bhawna, Hemlata, ✓, Mukesh, Rakesh, Robert, Abhay

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<b>Semester – I</b>	<b>5 Papers</b>
<b>CORE COURSE – C1</b>	<b>(Credit: Theory: 05 + Tutorial: 01=06)</b>
<b>Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100</b>	<b>Pass Marks (MSE + ESE)=40</b>

**Instructions to Question Setter for  
Mid Semester Examination (MSE):**

*There will be two groups of questions. Group A is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

**End Semester Examination (ESE):**

*There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1 will be very short type of consisting of ten questions of 1 mark each. Question No. 2 will be short answer type of 5 marks. Group B will contain descriptive type six question of 15 marks each, out of which any four are to answer.*

*Note: There may be subdivision in each question asked in Theory Examinations.*

**PRINCIPLE OF DESIGN & FASHION THEORY**

**Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objective:** This course provides in depth knowledge regarding fashion and its different aspects. The relevance of fashion is to be also discussing for proper orientation with the fashion and its related system or organs.

**Course Outcomes**

**After completion of this course students will able to:**

- Understand different types of Fashion & Design.
- Understand different theories of fashion and their evolutions.
- Gain knowledge regarding principles followed to create a fashion design will be learned.

**Unit I:** Introduction to Fashion – definition, evolution & importance - terms & definitions - reasons for change in fashion - classification of fashion – Style, classic, FAD, Trend - fashion cycle, Fashion designing-designers' role in styling and production of costumes. **Lectures: 10**

**Unit II:** Design – Definition, Types - Structural and decorative design, Elements of design – line, shape, form, color & texture. Lines – varieties and their application in a design. Shapes - Types – Natural, stylized, geometrical, and abstract. **Lectures: 10**

**Unit III:** Color – Definition and origin – Characteristics (hue, value and intensity) - Prang color chart - color harmony and color schemes. Psychology of color and its application in apparel market. Texture – types of texture and its application in clothing **Lectures: 10**

**Unit IV:** Principles of design - Balance, proportion, rhythm, harmony & emphasis. Balance - asymmetrical and symmetrical. Types – Formal, Informal and radial. Proportion or scale – planning the shapes and space. Rhythm – through repetition, alternation, progression and gradation. Emphasis using contrast colors and background, Harmony of lines, shapes, color and textures. **Lectures: 10**

**Unit V:** Fashion theory- trickle down, trickle across, bottom-up theory, forecasting- fabric trends, style & colors. Fashion cycle –length of cycle. **Lectures: 08**

**Unit VI:** Silhouettes – types and their application in everyday use, Elements of Fashion. The psychology of clothing – factors influencing fashion, factors affecting fashion. **Lectures: 06**

**Unit VII:** Dresses at work place, Dresses as non-verbal communication, Dresses from Infancy to adolescence, Dresses and world religion, Brief study of women's wear, men's wear and kids wear. **Lectures: 06**

**Recommended Books:**

1. Sumathi, G.J.-Elements of Fashion and Apparel Design-New Age International Publishers, New Delhi.
2. The world of Fashion by Jay Diamond and Ellen Diamond Second Edition 1997
3. The Language of Fashion Design: 26 Principles Every Fashion Designer Should Know -by Laura V Testa
4. Fashion Design (Understanding Fashion), November 2010 by Elizabeth Bye
5. The Dynamics of Fashion by Elaine Stone ,2001, Fairchild Publication

**Note: Latest edition of text books may be used**

**CORE COURSE – C2****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for  
Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**INTRODUCTION TO TEXTILE****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** It focuses on the textile industry with different aspects or quarters. The subject aims at giving the clear understanding of different types of fabrics, weaving structure and properties.

**Course Outcomes**

**After completion of this course students will able to:**

- Understand different types of Fiber and their uses.
- Know different types of printing methods applicable in textile.
- Know different types of textiles finishing system.

**Unit I:** Classification of fibers into Natural fiber and manmade fiber, General considerations with regard to fiber properties. **Lectures: 10**

**Unit II:** Brief study on natural fibers like Cotton, Silk, Wool, linen & Bast fibers (flax & jute). Manmade fibers – Rayon, polyester, nylon, spandex and their properties, Fabric Testing-Physical & Burn test. **Lectures: 10**

**Unit III:** Introduction to Yarn Formation-Cotton Yarn Production sequence and Objectives- Comparison of Carded and Combed Yarn, Cotton yarn manufacturing. **Lectures: 10**

**Unit IV:** Classification of Fabric forming methods -Weaving, knitting, braiding, felting operation Classification of Looms. **Lectures: 10**

**Unit V:** Textile printing- techniques of printing, types of printing, types of printers, printing methods **Lectures: 05**

**Unit VI:** Introduction to dyeing – Dyeing Methods – Yarn dyeing, fabric dyeing, garment dyeing methods. **Lectures: 10**

**Unit VII:** Introduction to Finishing - Mechanical and Chemical Finishing. **Lectures: 05**

**Recommended Books:**

1. Textile weaving & Design, W S Murphy, Abhishek Publication2007
2. A practical guide to fabric science, N S Kaplan, Abhishek Publication2010
3. Yarn technology, N S Kaplan, Abhishek Publication2008
4. Textiles: Fiber to Fabric-Bernard P. Corbman,
5. Fabric Science-Joseph. J. P. Et.al. Fairchild publications, New York (1990)
6. Technology of textile processing-Shenai. V.A. Vol I, II, V, VII - Sevak publications
7. The Complete Technology Book on Textile Spinning, Weaving, Finishing and Printing (2nd Revised Edition by NIIR Board of Consultants & Engineers
8. Indian Textiles Hardcover – 1 January 2008 by John Gillow

**Note:** Latest edition of textbooks may be used

**GENERIC ELECTIVE (GE 1A)****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 100 (ESE: 3Hrs) =100****Pass Marks Th ESE =40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain three questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2 & 3** will be short answer type of 5 marks each. **Group B** will contain descriptive type six question of 20 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations. Separate Drawing sheet of A4 size should be provided to examinee for the examination.

**INTRODUCTION TO SKETCHING****Theory:75 Lectures; Tutorial:15 Lectures**

**Objective:** This course provides in-depth knowledge regarding drawing and fashion illustration with its different angle of presentation. Knowledge on using different colors in different textures are also provides for better understanding of the students.

**Course Outcomes**

**After completion of this course students will able to:**

- Understand basic knowledge of drawing and illustrating fashion figures.
- Gain knowledge regarding role of background in a particular sketching.
- Use of colors and rendering techniques.

**Unit I: Basics of drawing- Free hand drawing of lines and strokes.**

**Lectures: 08**

**Unit II: Drawing Techniques of sketching-hatching, bracelet, shading, gradation, frottage, summates, highlighting, smudging.**

**Lectures: 08**

**Unit III: Introduction to Sketching objects, still life sketching, human figures and objects.**

**Lectures: 12**

**Unit IV: Methods of rendering using pencil color, water color, poster Color-Illustrating landscape and portrait.**

**Lectures: 08**

**Unit V: Types of body shapes, Introduction to 8 head theory and developing a stick figure into block and flesh figures. Understanding the basics of different head theories and application of 10 head theory in illustration.**

**Lectures: 08**

**Unit VI: Illustrate fashion accessories like bags, shoes, jewelry etc.**

**Lectures: 05**

**Unit VII: Illustrating 8 head or 10 head or 12 and half head figures**

**Lectures: 08**

**Unit VIII: Introduction to perspective-two-point, three points, vanishing point etc.**

**Lectures: 08**

**Unit IX: Illustrate facial features and different types of hair styles.**

**Lectures: 05**

**Unit X: Develop an art portfolio for an exhibition**

**Lectures: 05****Recommended Books**

1. Fashion Design Illustration: Men, Patrick John Ireland, Om Books international 2005
2. Great Big Book of Fashion Illustration-Martin Dawver, Publisher Batsford.2011
3. Fashion Illustration Techniques, maite Lafuente 2008 Evergreen
4. Fashion Design Drawing and Presentation-John Petrick, Publisher Batsford
5. World of Urban Sketching: Celebrating the Evolution of Drawing and Painting on Location Around the Globe - New Inspirations to See Your World One Sketch at a Time by Stephanie Bower
6. Fashion rendering-Ranjana Singhal & kannaki Bharali,Om Books international 2015
7. Fashion Drawing the basic principles -Allen & Seaman,Om Books international 2005

**Note: Latest edition of textbooks may be used**

**GENERIC ELECTIVE (GE 1B)****(Credit: Practical -05; Theory-01=06)****Marks: 75 (ESE) + 25 (ESE-Practical))=100****Pass Marks ESE+ESE-Practical=40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**Instructions to Practical Exam Evaluator for ESE & viva voce**

\*A Project based presentation and viva voce exam of 25 marks under the supervision of the College should be held in Garment Construction Lab at college with the garments samples already constructed by students under the supervision of professor as per his/her directions.

**Note:** Evaluation has to be done on the Garments made by the students. A Hand written Document comprising of all the classroom project works and final constructed garments should be presented at the time of evaluation.

**GARMENT CONSTRUCTION TECHNIQUES – I****Practical:75 Lectures; Theory:15 Lectures**

**Objectives:** To understand basic patterns of a garment in apparel construction and drafting. Create garment as per the project guideline provided and presentation.

**Course Outcomes**

**After completion of this course students will able to:**

- Cutting, Pattern making and function of the pattern making tools.
- Different types of stitching.
- Primary design and mounding of cloth and its various styles.

**Unit I:** Introduction to pattern making & Pattern Making tools. Introduction to the Methods of Pattern Making- Draping, Drafting, Flat Pattern making, Digital Pattern Making. Functions of Pattern Making Tools. Pattern Making Terms. Fabric terms, Pattern Grain lines, Body & Form measurements. **Lectures: 05**

**Unit II:** Functions of Clothing, Basic principles of garment construction - Introduction to stitches- Basic types of stitches – Hand stitch, lockstitch & Chain stitch, Types of threads & Needles. Seams & types of seams. Basic elements of Garments – Necklines, Sleeves, Collars, Pleats & Plackets. **Lectures: 05**

**Unit III:** Basic concepts of Design Development – Inspiration Board, Mood Board, Color Board. Pattern on graph paper for basic bodice and Basic skirt and sleeve with instructions of drafting. **Lectures: 05**

**Unit IV:** Stitch classes, part of sewing machine, categorization of sewing machine, machine maintenance and error detection – rectification, cutting devices. **Lectures: 05**

**Practical - Step by Step procedure in Graph Paper Drafting and Paper pattern of:**

**Unit V:** Basic bodice front & back, Basic skirt with sleeve and neckline **Practical: 20**

- Applying round neckline, V- neckline and square neckline on bodice and Muslin Samples development for all necklines.

**Unit VI:** Stitching Exercise – Paper punching exercise, Muslin Stitching Exercise of straight line, curve line shapes and abstracts. **Practical: 20**

**Unit VII:** (1) Cut Make & Trim (CMT) – Muslin test fit of basic bodice female and basic skirt female with sleeve and neckline. (2) Development of final garment with supporting mood boards, color board and concept board in complete format with hand written documentation. **Practical: 30**

**Recommended Books:**

1. Pattern making for fashion design – H G Armstrong
2. Metric pattern cutting - Winifred Aldrich
3. Apparel manufacturing sewn Product Analysis-Ruth & Kunz, Pearson 2005
4. Apparel Machinery and Equipment, R. Rathinamoorthy & R. Surjit
5. Fashion Production terms, Debbie Ann Gioello

**Note:** Latest edition of textbooks may be used

**ABILITY ENHANCEMENT COMPULSORY COURSE (AECC 1)****(Credit: Theory – 02)****Marks: 100 (ESE: 3Hrs)=100****Pass Marks Theory ESE =40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain three questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2 & 3** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 20 mark each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**ENGLISH COMMUNICATION****Theory: 30 Lectures**

**Objective:** To equip students effectively to acquire skills in reading, writing, comprehension and communication, as also to use electronic media for English communication

**Course Learning Outcome:**

**After the completion of this course students will able to:**

- Write clear, concise, and grammatically correct documents, including emails, memos, reports, and other business correspondence.
- Speak confidently and articulately in English, including public speaking, presentations, and participating in meetings and discussions.
- Communicate effectively in one-on-one or small group settings, including active listening, empathy, and conflict resolution skills.

**Unit I:** Introduction to communication- Meaning and process, types of verbal and non- verbal communication, barriers to communication, 7'C of effective communication. **Lectures: 05**

**Unit II:** Comprehending and summarizing- comprehension, note making and summarizing. **Lectures: 03**

**Unit III:** Writing for specific purposes: notices, advertisements - copywriting, minutes of meeting. **Lectures: 04**

**Unit IV:** Reading and listening skills: types of listening, listening process, types of reading and their importance. **Lectures: 04**

**Unit V:** Professional communication: job application (resume and cover letter), business letter, resignation letter, orders & replies, invitation & replies, Emails. **Lectures: 06**

**Unit VI:** Presentation skills, Interview skills, GD & Soft Skills. **Lectures: 05**

**Unit VII:** Vocabulary building: One-word substitution, synonyms and antonyms, idioms and phrases. **Lectures: 03**

**Recommended Books:**

1. Essential English for better communication- Raj Kumar Sharma and Nidhi Singh
2. Effective Business Communication, Asha Kaul
3. Developing Communication Skills, Krishnamohan
4. Functional Grammar and Spoken and Written Communication in English, Bikram K. Das, Orient Blackswan
5. Precis, Paraphrase and Summary, P.N. Gopalkrishnan, Authors Press
6. Communication Skills, Sanjay Kumar and Pushplata, Oxford Publication

**Note:** Latest edition of textbooks may be used

-----END OF SEM II-----

<b>Semester – II</b>	<b>5 Papers</b>
<b>CORE COURSE – C3</b>	<b>(Credit: Theory: 05 + Tutorial: 01=06)</b>
<b>Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100</b>	<b>Pass Marks (MSE + ESE)=40</b>

**Instructions to Question Setter for  
Mid Semester Examination (MSE):**

*There will be two groups of questions. Group A is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

**End Semester Examination (ESE):**

*There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1 will be very short type of consisting of ten questions of 1 mark each. Question No. 2 will be short answer type of 5 marks. Group B will contain descriptive type six question of 15 marks each, out of which any four are to answer.*

***Note: There may be subdivision in each question asked in Theory Examinations.***

**TRADITIONAL ART & SURFACE TECHNIQUES      Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** This course provides through knowledge regarding traditional fashion and its historical perspectives along with surface ornamentation with its various factors. Various types of ornamentations are also taken by the students in practical course work for proper application and understanding.

**Course Outcomes**

**After completion of this course students will able to:**

- Gain adequate knowledge regarding concept of surface ornamentation, uses and its decorative values.
- Well versed with the different types of embroidery styles along with its traditional values and applications.
- Gain knowledge regarding different types of dyeing and printing techniques.

**Unit I:** Introduction to Surface Ornamentation and Embroidery–General rules for Hand and Machine Embroidery.      **Lectures: 06**

**Unit II:** Batik- raw materials, equipment's required, design and patterns, color used, preparation and process. Block printing- equipment's required, design and patterns, color used, preparation and process. 'Sanganeri' Prints- raw materials, design and patterns, color used preparation and process.      **Lectures: 06**

**Unit III:** Woven textiles of India- Jharkhand- Tussar, Kuchai. Motiya, Kukhna Shawl, 'Jamewar' of Bengal, 'Patola' of Gujarat, Brocade of Banaras, 'Chamba rumal' of Himachal. Basic embroidery stitches- Running, stem, chain, feather, herring bone, lazy daisy, French knot and satin.      **Lectures: 06**

**Unit IV:** Traditional embroideries of different region of India with emphasis on texture, motifs, design and colors of the following- 'Phulkari' of Punjab, 'Kantha' of Bangal, Chikankari of Lucknow, 'sindhi' of Gujrat, 'Kasuti' of Karnataka and 'Kashidakari' of Kashmir. Care and maintainance of embroidered Fabrics.      **Lectures: 06**

**Unit V:** Hand Embroidery stitches - Cross Stitch - Blanket Stitch – Button Hole Stitch – Corel Stitch – Spider Web Stitch – Fly Stitch – Feather stitch - Chain Stitch –Lazy Daisy Stitch – Rumanian Stitch – Chevron Stitch – Cretan Stitch – Faggoting Stitch –Fern Stitch – Fish Bone Stitch – Herringbone Stitch – Couching, Double knot stitch, interlacing stitch, stem stitch, French knot stitch. Development of a sample file.      **Lectures: 06**

**Unit VI:** Tie & Dye – origin, tye & dye in India- Bandhani, bandhej, Techniques, color & patterns. Development of a sample file      **Lectures: 06**

**Unit VII:** Basics of Crocheting, Tatting and hand knitting to produce different designs.      **Lectures: 06**

**Unit VIII:** Special stitches - Counted thread work on canvas material – Drawn Thread Work – Cut Work – Bead Work – Mirror Work – Sequins Work. Designing and producing fabric appliqués and placing it on children and women's apparel.      **Lectures: 06**

**Unit IX:** Introduction to print designs – Repeat Patterns –Drop, Brick Variations. Techniques – Spotting, Marble effect, Chevron effect using stitches and different types of folding to create new designs. Methods of Printing – Screen printing, Block, Stencil, Roller, Transfer.      **Lectures: 06**

**Unit X:** Decorative and functional trimmings – Appliquéd, sequins, beadwork, smocking, and other surface ornamentation – performance, properties, types, application techniques on fabrics & garments. **Lectures: 06**

**Recommended Books:**

1. Encyclopedia of Embroidery Stitches Including Crewel – Dover Publications – 1974
2. Computerized Encyclopedia of Needle Work – Therese De Dillmont – 3rd Edition.
3. Decorative Painting Techniques Book – Val Holmes – 2003
4. Traditional Indian Costumes & textiles -Dr.Parul Bhatnagar
5. Kashmir to Kanyakumari Indian Embroidery: State by State Embroidery of India by Smita Kale

**Note: Latest edition of textbooks may be used**

**CORE COURSE – C4****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****(Credit: Theory: 05 + Tutorial: 01=06)****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for****Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**MATERIAL EXPLORATION & CRAFT STUDIES****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** To develop means and methods to ensure the development of student's skills and knowledge, and to identify handicraft aesthetics. To enable students to understand the relationship between economics, culture, and aesthetics

**Course Outcomes****After completion of this course students will able to:**

- Know regarding handicrafts and its associate cultural values.
- Know different types of other materials use for craftsmanship's with traditional values.
- Understand different types of paintings and its cultural alignments. It also provides knowledge of painting in other available surface materials.

**Unit I:** Introduction to handicrafts sector of India. The impact of handicrafts on the promotion of cultural and economic development. **Lectures: 10**

**Unit II:** Different categories of handicrafts: Using wood, metal, Clay-Bead Work Brass broidered coconut shell craft, Carpentry, Ceramic art, Copper arts, Metalwork, Mosaics, Pottery, Wood carving, Dokra art, Terracotta art. **Lectures: 10**

**Unit III:** Handicraft Using paper or Canvas-Decoupage, Embossing paper, Origami or paper folding, Papier-mâché and molding, Leather work. Using plants other than Wood-Braiding and knotting, Basket weaving, Bamboo work, Jute, Banana fiber, Candle making. **Lectures: 10**

**Unit IV:** Material explorations with— fabric exploration, yarn, paper, ribbon mould it, leather /Rexene. **Lectures: 10**

**Unit V:** Develop surface techniques of, madhubani art and warli art on jute bags, tote bags and simple fabric products design. Crafts of Jharkhand-Sohrai & Khovar Paintings, Paitakar Scroll Paintings, Jado-patua **Lectures: 10**

**Unit VI:** Develop simple product for spaces using different material and concepts-best out of waste, decoupage, photo frames, and glass painting table top products etc. fabrics manipulation techniques. Dissertation on any Selected Craft. **Lectures: 10**

**Recommended Books:**

1. Handmade in India: a geographic encyclopedia of Indian handicrafts - Aditi Ranjan & M.P. Ranjan.
2. A Well-Crafted Home: Inspiration and 60 Projects for personalizing your space: Janet Crowther.
3. Sew Your Own Wardrobe: More Than 80 Techniques Hardcover – Alison Smith (Author)
4. Half Yard (TM) Bags & Purses: Sew 12 beautiful bags and 12 matching purses Paperback – Debbie Shore
5. Handicrafts of India - Amar Tyagi.

**Note: Latest edition of textbooks may be used**

**GENERIC ELECTIVE (GE 2A)****Marks: 100 (ESE: 3Hrs) =100****(Credit: Theory: 05 + Tutorial: 01=06)****Pass Marks Th ESE =40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain three questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2 & 3** will be short answer type of 5 marks each. **Group B** will contain descriptive type six question of 20 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations. Separate Drawing sheet of A4 size should be provided to examinee for the examination.

**FASHION ILLUSTRATION****Theory: 75 Lectures; Tutorial: 15 Lectures**

**Objectives:** This course provides practical knowledge regarding fashion illustration with its different angle of presentation. Knowledge of using different colors in different textures is also provided to enhance their creative side.

**Course Outcomes**

**After completion of this course students will able to:**

- Do fabric swatches and fabric drapes by using different types of mediums.
- Do Illustration of figures on different materials with artistic perspective
- Conduct primary level flat sketches in preparation of different parts of male wears, western wear & kids wear.

**Unit I:** Rendering of fabric swatches and fabric drapes using different media – color pencils, marker pens, water color, poster colors and drawing ink. **Lectures: 10**

**Unit II:** Illustration full fashion figure and rendering different material of clothing swatches-cotton, silk, georgette, woolen, leather, brocade, knits, checks, prints, denim, etc. **Lectures: 10**

**Unit III:** Introduction to flat sketches - different types of skirts, trousers, necklines, collars, sleeves, coats and jackets. All ethnic, and western wear, formal wear, kids wear **Lectures: 10**

**Unit IV:** Illustrating female, male & children – in Front view, Back view, Side view and 3/4th view adopting the head theories. **Lectures: 15**

**Unit V:** Introduction to stylize illustration with an artistic perspective. **Lectures: 10**

**Unit VI:** Develop an art portfolio for an exhibition. **Lectures: 10**

**Unit VII:** Develop samples of a mood board/color board/Illustration Board for male, female and kids' garments. **Lectures: 10**

**Recommended Books:**

1. Fashion Design Illustration-Patrick John.
2. Big Book of Fashion Illustration-Martin Dawver, Publisher Batsford.
3. Modern Fashion Illustration, Maomao Publications
4. Fashion Design Drawing and Presentation-John Petrick, Publisher Batsford
5. Essential Fashion Illustration Men, Rockport, 2008 Maomao Publications
6. Urban Sketching Handbook: Drawing with a Tablet: Easy Techniques for Mastering Digital Drawing on Location by Uma Kelkar

**GENERIC ELECTIVE (GE 2B)****Marks: 75 (ESE) + 25 (ESE-Practical)=100****(Credit: Practical – 05; Theory: 01=06)****Pass Marks ESE+ESE-Practical =40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**Instructions to Practical Exam Evaluator for ESE & viva voce**

\*A Project based presentation and viva voce exam of 25 marks under the supervision of the College should be held in Garment Construction Lab at college with the garments samples already constructed by students under the supervision of professor as per his/her directions.

**Note:** Evaluation has to be done on the Garments made by the students. A Hand written Document comprising of all the classroom project works and final constructed garments should be presented at the time of evaluation.

**GARMENT CONSTRUCTION TECHNIQUES – II****Practical:75 Lectures; Theory:15 Lectures**

**Objectives:** To understand basic patterns of a garment in apparel construction and drafting of ethnic wear. Create garment as per the project guideline provided and presentation.

**Course Outcomes**

**After completion of this course students will able to:**

- Understand different types of techniques for pattern making.
- Conduct different types fullness and graph patterns technique
- Primary design and mounding of cloth and its various styles.

**Unit I:** Introduction to Flat Pattern Making –Methods & Techniques – Dart Manipulation – Slash & Spread technique, Pivotal Transfer Technique. Single Dart Series, Double Dart Series Dart Manipulation. Designing with Darts - Tuck Darts, Pleats, Flares, Gathers. Dart Clusters and Dart Equivalents- Shoulder Cluster, Centre Front Bust Cluster, Graduated and radiating Darts, Parallel Darts, Asymmetric Darts, Intersecting Darts, Style lines. Muslin test fit Sample has to be developed for all the mentioned methods. **Lectures: 05**

**Unit II:** Added Fullness – Equal Fullness, One Sided Fullness, Unequal Fullness. Applying concept of added fullness in design development. Placing added fullness as component in top, skirt, collar, and neckline. Creating Graph for patterns and instructions. Develop graph paper pattern with Muslin Sample has to be developed **Lectures: 05**

**Unit III:** Study of Indian Ethnic Costumes and their components. Concepts of Design Development – Client Study, Theme Development, Concept, Mood and Color Boards. **Lectures: 05**

**Practical - Step by Step procedure for construction and drafting of the mentioned garments:**

**Unit IV:** Cut Make & Trim (CMT), Graph Pattern Drafting, Flat pattern, Muslin Test fit & Final Garment, applying techniques of added fullness, dart manipulation and slash & spread methods in creating

(1) Blouse (2) Lehanga

**Practical: 30**

**Unit V:** Cut Make & Trim (CMT)

Graph Pattern Drafting, Flat pattern drafting, Muslin Test fit & Final Garment, applying techniques of added fullness, dart manipulation and slash & spread methods in creating

(1) Men's Kurta (2) Men's Payjama (3) Bandi

Development of final garment with supporting mood boards, color board, concept board in complete format with hand written documentation. **Practical: 45**

**Recommended Books:**

1. Pattern making for fashion design – H G Armstrong
2. Pattern making made easy - Gollian Holman
3. Apparel manufacturers handbook - Jacob Solinger

**Note:** Latest edition of textbooks may be used

**ABILITY ENHANCEMENT COMPULSORY COURSE (AECC 2)****(Credit: Theory – 02)****Marks: 100 (ESE: 3Hrs)=100****Pass Marks Th ESE =40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain three questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2 & 3** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 20 each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**ENVIRONMENTAL STUDIES****Theory: 30 Lectures**

**Objective:** Develop awareness among the students about the necessity and importance of environment for human and its developments.

**Course Outcomes**

**After completion of this course students will able to:**

- Gain an interdisciplinary understanding of environmental issues and the importance of sustainable development. Develop analytical and critical thinking skills to address environmental problems.
- Contribute positively to environmental protection efforts, supported by an understanding of laws, conservation practices, and ethical considerations.
- Apply practical knowledge to real-world contexts through fieldwork, fostering an active role in environmental monitoring and advocacy.

**Unit I: Introduction to Environmental Studies:** Multidisciplinary nature of environmental studies; Scope and importance; Concept of sustainability and sustainable development **Lectures: 02**

**Unit II: Ecosystems:** Definition, Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems: Forest ecosystem Grassland Ecosystem Desert Ecosystem Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries). **Lectures: 02**

**Unit III: Natural Resources: Renewable and Non-renewable Resources:** Land resources and land use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies. **Lectures: 05**

**Unit IV: Biodiversity and Conservation:** Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots India as a mega-biodiversity nation; Endangered and endemic species of India Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value. **Lectures: 05**

**Unit V: Environmental Pollution:** Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution Nuclear hazards and human health risks Solid waste management: Control measures of urban and industrial waste. Pollution case studies. **Lectures: 05**

**Unit VI: Environmental Policies & Practices:** Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD). Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context. **Lectures: 04**

**Unit VII: Human Communities and the Environment:** Human population growth: Impacts on environment, human health and welfare. Resettlement and rehabilitation of project affected persons; case studies. Disaster management: floods, earthquake, cyclones and landslides. Environmental movements:

Chipko, Silent valley, Bishnois of Rajasthan. Environmental ethics.

Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

**Lectures: 03**

**Unit 8: Field work**

**Lectures: Equal to 04**

Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc. Visit to a local polluted Site-Urban/Rural/Industrial/Agricultural. Study of common plants, insects, birds and basic principles of identification, Study of simple ecosystems-pond, river, Delhi Ridge, etc.

**Recommended Books:**

1. Raziuddin, M.Mishra P.K. 2014, A Handbook of Environmental Studies, Akanaksha Publications, Ranchi.
2. Mukherjee, B. 2011: Fundamentals of Environmental Biology. Silverline Publications, Allahabad.
3. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
4. Gadgil, M., & Guha, R.1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
5. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.
6. Gleick, P. H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
7. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. Principles of Conservation Biology. Sunderland: Sinauer Associates, 2006.
8. McCully, P. 1996. Rivers no more: the environmental effects of dams (pp. 29-64). Zed Books.
9. McNeill, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.
10. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. Environmental and Pollution Science. Academic Press.
11. Rao, M.N. & Datta, A.K. 1987. Waste Water Treatment. Oxford and IBH Publishing Co. Pvt. Ltd.
12. Raven, P.H., Hassenzahl, D.M. & Berg, L. R. 2012. Environment. 8th edition. John Wiley & Sons.
13. Rosencranz, A., Divan, S., & Noble, M. L. 2001. Environmental law and policy in India. Tripathi 1992.
14. Sengupta, R. 2003. Ecology and economics: An approach to sustainable development. OUP. Singh, J.S.,
15. Singh, S.P. and Gupta, S.R. 2014. Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi.
16. Warren, C. E. 1971. Biology and Water Pollution Control. WB Saunders.
17. Wilson, E. O. 2006. The Creation: An appeal to save life on earth. New York: Norton.

**Note: Latest edition of textbooks may be used**

-----END OF SEM - II-----

**Semester – III****6 Papers****CORE COURSE – C 5****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for  
Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**HISTORY OF FASHION & ART MOVEMENTS****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** This course provides through knowledge regarding traditional fashion and its historical perspectives. The origin of fashion and the concepts is also taken care of by this course for on looks in the fashion design, pattern, color etc.

**Course Outcomes****After completion of this course students will able to:**

- Know traditional history of fashion and its evolution in the different states of India.
- Know fashion history of other countries and their evolution.
- Understand Art movements and its rich traditional effects in modern day fashion.

**Unit I:** Ancient Indian civilization: Indus valley, Vedic period, Gupta period, Mughal period: Costumes of Pre-Mughal, Mughal and Post-Mughal period. **Lectures: 08**

**Unit II:** British period: Costumes of Pre-independence and Post-independence period. Evolution of Khadi movement. **Lectures: 08**

**Unit III:** Traditional costumes of India: Costumes of Jharkhand & Bihar, Costumes of Jammu & Kashmir, Costumes of Punjab, Costumes of Haryana, Costumes of Rajasthan, Costumes of Madhya-Pradesh, Costumes of West Bengal, Costumes of Assam, Costumes of Maharashtra, Costumes of Tamil Nadu, Costumes of Kerala and Costumes of Karnataka **Lectures: 08**

**Unit IV:** History of western costumes. Greek and Persian influence on fashion. English, American and French costumes. Silhouette, Headgears, Clothing styles and embellishments. **Lectures: 06**

**Unit V-** The Middle East: Asian textile early Islamic textile, byzantine silks, central Asian textile. Chinese silk textile Japanese textile. **Lectures: 08**

**Unit VI:** Western Europe:-Italian, Spanish and French silk, tapestry and embroidery. **Lectures: 08**

**Unit VII:** Art Movement – Abstract, Conceptual, Cubism, Expressionism, Fauvism, Impressionism, Modernism, Primitivism, Surrealism, Tachism, Realism, Romanticism, Dada, pop Art. **Lectures: 08**

**Unit VIII:** Application of design concepts and design process. Developing client board, mood board, concept board, color board **Lectures: 06**

**Recommended Books:**

1. Suvasas-the beautiful costumes, Vishu Arora
2. Encyclopedia of World Costume, Doreen Yarwood
3. The Chronicle of western Costumes, John Peacock
4. The Psychology of Art Appreciation-By Bjarne Sode Funch
5. Art: Perception & Appreciation-MA. A. Ortiz, T. Erestain, A Guillermo, M. Montano, S.A. Pilar
6. Encyclopedia of Artists: Art movements, glossary, and Index-William Vaughan

**Note: Latest edition of textbooks may be used**

**CORE COURSE – C 6****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for****Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**APPAREL PRODUCTION PLANNING & CONTROL Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objective:** Production planning and control is one of the most important aspects of the garment manufacturing industry. Production planning involves everything from scheduling each task in the process to execution and delivery of products.

**Course Outcomes**

**After completion of this course students will able to:**

- Develop knowledge of apparel production and use of different machines for this.
- Gain knowledge of different technical terms and their uses in apparel production.
- Understand production planning systems, Quality Control and Compliances, Lean Manufacturing Management.

**Unit I:** Apparel Production Planning- Scope, need & Importance. Function of Apparel Production Planning.

**Lectures: 05**

**Unit II:** Process flow of Spreading - Spreading machines – manual, semi-automatic and fully automatic machines, fabric control devices in spreading machines. Process flow of Cutting Department, Marker Planning, and Spreading Systems (NAP One Way, NAP Two Way, NAP Either Way), Bundling & Ticketing.

**Lectures: 10**

**Unit III:** Sewing machines – Categories and types: Sewing machines feed mechanisms; sewing machine attachments. Classifications of Stitches. Various Sewing Defects.

**Lectures: 05**

**Unit IV:** Garment Production Systems – Unit Production System, Progressive Bundle System and Modular Production System.

**Lectures: 05**

**Unit V:** Garment Production Planning-Preproduction-Sampling, types of sampling, Assembly line planning - Balancing-basics, theoretical balance, skill inventory, initial balance, balance control.

**Lectures: 05**

**Unit VI:** Quality control at each stage. Quality Standards- ASTM, BS, ISO

**Lectures: 05**

**Unit VII:** TQM, Brief study of Quality theories – 5S, Six Sigma, JIT, KANBAN, KAIZAN

**Lectures: 10**

**Unit VIII:** Packaging-various methods, people involved, precaution to be taken.

**Lectures: 05**

**Unit IX:** Brief study of Lean Manufacturing – Introduction, Hoshin Kanri in Apparel Industry, Catch Ball, Skill Matrix, Single Minute Exchange of Dies (SMED) in apparel industry, Value Stream Mapping in Garment Industry.

**Lectures: 10**

**Recommended Books:**

1. Carr and Latham's - Technology of Clothing Manufacture
2. David J. Tyler - Apparel business strategies
3. Garment Manufacturing Technology by Rajkishore Nayak, Rajiv Padhye
4. Apparel Manufacturing Technology by T. Karthik, P. Ganesan, D. Gopalakrishnan
5. Apparel manufacturing sewn Product Analysis-Ruth & Kunz, Pearson 2005

**Note: Latest edition of textbooks may be used**

**CORE COURSE – C7****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for  
Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**FASHION MARKETING & MERCHANDISING****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** This course provides the knowledge regarding fashion marketing & merchandising for understanding overall marketing systems and planning and promotion of sales by presenting a product to the right market at the proper time, by carrying out organized, skillful advertising, using attractive displays, stock planning, management, and control process. Imparting well-developed quantitative skills, and natural ability to discover trends, meaning relationships and interrelationships among standard sales and stock figures.

**Course Outcomes****After completion of this course students will able to:**

- Gain knowledge of apparel marketing & their various aspects.
- Know of market research and their various methodology.
- Gain knowledge of merchandising in fashion industry and its impacts on consumers.

**Unit I:** Introduction to Marketing, The Focus of Marketing, The Marketing Process, Evolution of Marketing Thinking, Marketing Relationships with Customers. Marketing Environment - macro, micro & internal environment. Functions of Marketing -Societal, Traditional & Integrating Functions of Marketing.

**Lectures: 06****Lectures: 06**

**Unit II:** Marketing Mix, 4 Ps & 7 Ps of marketing.

**Lectures: 06**

**Unit III:** Fashion Marketing, Forecasters, Trend, Haute Couture, Couturier, Knock-off, Soft lines, Private Label, Fashion Marketing Concept, Fashion Marketing Process, Internationalization of Fashion, International Dimension of Fashion.

**Lectures: 06**

**Unit IV:** Market Segmentation – Geographic, Demographic, Psychographic, Behavioral. Target Market, Target Market Strategy. Market Survey.

**Lectures: 06**

**Unit V:** Consumer Buying Behavior, Buying Decision Process, Buying Role, Buying Behavior, Types of Buying Situation, Decision making process.

**Lectures: 06**

**Unit VI:** Apparel Manufacturing - Domestic Manufacturing, Offshore Manufacturing, Foreign Manufacturer.

**Lectures: 05**

**Unit VII:** Structure of Apparel Industry - Departments in Garment Industry

**Lectures: 05**

**Unit VIII:** Concepts of Fashion Merchandising – Definition, Process, Types, Areas & Activities, Roles & Functions of Merchandiser. Trend Forecasting.

**Lectures: 05**

**Unit IX:** Range Development -Range Planning & Selection, Factors Affecting Planning, Themes and Concepts, Product Development.

**Lectures: 05**

**Unit X:** Apparel Sourcing, Global Sourcing, Role of Merchandiser, Sourcing Options.

**Lectures: 05**

**Unit XI:** Time and Action Calendar - Planning Tool, Line Preview Date, Weekly Sales Plan, Weekly Shipping Plan, Determination of Lead Time.

**Lectures: 05**

**Recommended Books**

1. Apparel Merchandising, M Krishna Kumar, Abhishek publication 2010
2. Merchandising theory Principles and Practices, Grace I. Kunz, Fair child Publication
3. Shivaramu S. Export Marketing—A Practical Guide to Exporters, Wheeler Publishing, Ohio, 1996.
4. Mike Easey-Fashion Marketing, Blackwell Science, 2000.
5. Maurice J. Johnson & Evelyn C. Moore-Apparel Product Development, PHI.
6. Marian L. Davis-Visual Design in Dress, Prentice Hall Inc., 1976.

**Note: Latest edition of textbooks may be used**

**GENERIC ELECTIVE (GE 3A)****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 100 (ESE: 3Hrs) =100****Pass Marks Th ESE =40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain three questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2 & 3** will be short answer type of 5 marks each. **Group B** will contain descriptive type six question of 20 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**FASHION CAD-I****Theory: 75 Lectures; Tutorial: 15 Lectures**

**Objective:** This course provides hands on practice on Computer Aided Design applicable in the Fashion Industry. Application of design in the manufacturing is also to be discussed for proper understanding of the students.

**Course Outcomes**

**After completion of this course students will able to:**

- Gain knowledge of design & drawing of apparels by using computer aided design.
- Gain knowledge of different design software's applicable in apparels.
- Know of color mixing, text and content formations, fliers, images etc.

**Unit I: Introduction to CorelDraw X6**-Overview of CorelDraw interface and tools, understanding vector vs. raster graphics, setting up a new document and workspace customization, Page Layout and Composition-Multi-page document setup, Guidelines, grids, and snapping, Designing brochures, flyers, and business cards.

**Lectures: 05**

**Unit II: Basic Drawing and Shape** - Creating and editing basic shapes, using drawing tools: Freehand, Bezier, Pen, working with curves and lines, Object Management-Grouping, aligning, and distributing objects, using layers and object manager, Transformations: rotate, scale, skew, mirror.

**Lectures: 10**

**Unit III: Color and Fills** - Applying solid colors, gradients, and patterns, Using the colour palette and eyedropper tool, Transparency and blending modes. Typography and Text Effects-Adding and formatting text, Artistic vs. paragraph text, Text on path and text effect.

**Lectures: 10**

**Unit IV: Advanced Design Techniques** - Creating logos and vector illustrations, working with clipart and imported graphics, Using Power Clip and envelope tools, Image Editing and Effects-Bitmap to vector conversion (trace bitmap), Applying effects and filters, Masking and cropping images.

**Lectures: 10**

**Unit V: Photoshop**-Understanding the interface and workspace, Setting up documents and canvas sizes. Basic Tools and Techniques-Selection tools: Marquee, Lasso, Magic Wand, Move, Transform, and Crop tools, Brush, Eraser, Gradient, and Fill tools.

**Lectures: 10**

**Unit VI: Working with Layers** - Creating and organizing layers, Layer styles and blending modes, Adjustment layers and masks. Color and Image Adjustments-Brightness, contrast, levels, and curves, Hue/Saturation and color balance, Black & white conversion and selective color.

**Lectures: 10**

**Unit VII: Retouching and Restoration** - Spot healing, clone stamp, and patch tools, removing blemishes and distractions, Restoring old or damaged photos. Typography and Text Effects-Adding and formatting text, Warping and styling text, Creating text-based designs and posters.

**Lectures: 10**

**Unit VIII: Compositing and Manipulation** - Combining multiple images, using masks and selections for composites, Creating surreal or fantasy scenes. Exporting and File Management, saving for print and web, Exporting in different formats (JPEG, PNG, PSD, PDF).

**Lectures: 10****Recommended Books:**

1. Fundamentals of Computer Graphics-Peter Shirley.
2. Adobe Photoshop and Textile Design-Frederich L Chipkin
3. Winfred Aidrich,- CAD in Clothing and Textiles-Blackwell Science Ltd., 1994.
4. Introduction to Corel draw and tools, Uses of Corel Draw for Designers.
5. Fashion Prints-How to design and Draw, Elisabetta kuky Drudi

**Note: Latest edition of textbooks may be used**

**GENERIC ELECTIVE (GE 3B)****(Credit: Practical-05+Theory-01=06)****Marks: 75 (ESE) + 25 (ESE-Practical)=100****Pass Marks ESE+ESE-Practical=40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**Instructions to Practical Exam Evaluator for ESE & viva voce**

A Project based presentation and viva voce exam of 25 marks under the supervision of the College should be held in Garment Construction Lab at college.

**Note:** Evaluation has to be done on the Garments made by the students. A Hand written Document comprising of all the classroom project works and final project should be submitted at the time of evaluation.

**GARMENT CONSTRUCTION TECHNIQUES – III      Practical: 75 Lectures; Theory: 15 Lectures**

**Objectives:** To understand basic patterns of a garment in apparel construction and drafting of western wear. Create garment as per the project guideline provided and presentation.

**Course Outcomes**

**After completion of this course students will able to:**

- Develop of different men's wear, women's wear and children's wear with full scale manufacturing of each and every parts of items in step by step system.
- Perform Design, draft and make different garments by using different fabrics.
- Conduct Different designs of collar and sleeve is developed in pattern and muslin test fit.

**Unit I:****Lectures: 06**

- Introduction to Collars, Collar classification, Collar types – Basic Shirt Collar, Peter Pan Collar, Roll Collar, Sailor Color, Mandarin Collar. Fabric Sample development for all collars.
- Introduction to Sleeve, Sleeve Cuffs, Sleeve Variations – Leg of mutton, Cowl, Puff, Cap, Lantern, Bell, Petal, Bishop, Kimono & Raglan. Fabric Sample development of all sleeves

**Unit II:****Lectures: 06**

- Built up Necklines, Yoke, Pocket Variations. Muslin Samples development along with drafting
- Skirt – Four Skirt Foundations, Skirt Characteristics, Types of Skirts – Gathered Waistline, Gored, Pegged, Skirts with – Yokes, Tiers, Pleats. Wrap Skirts. Muslin test fit Sample development of all skirts

**Unit III:****Lectures: 03**

Study of western costumes – Shirt, Trousers, Skirts, One Piece Dresses & Shirt Dresses- their components. Concepts of Design Development – Client Study, Theme Development, Concept, Mood and Color Boards.

**Practical - Step by Step procedure for construction and drafting of the mentioned garments:****Unit IV:****Lectures: 45**

Graph Drafting and Flat pattern, Muslin Test fit & Final Garment applying methods used in unit I.

- Shirt (Men's)
- Trouser (Men's)

Development of final garment with supporting mood boards, color board, concept board in complete format with hand written documentation.

**Unit V:****Lectures: 30**

Graph Drafting and Flat pattern, Muslin Test fit & Final Garment applying methods used in unit I.

- Western Skirt
- One-piece Dress (Women's)

Development of final garment with supporting mood boards, color board, concept board in complete format with hand written documentation.

**Recommended Books:**

1. Pattern making for fashion design – H G Armstrong
2. Metric pattern cutting - Winifred Aldrich
3. Pattern making made easy - Gollian Holman
4. Technology of clothing manufacture - Carr & Latham
5. Apparel manufacturers' handbook - Jacob Solinger

**Note: Latest edition of textbooks may be used**

**SKILL ENHANCEMENT COURSE (SEC 1)****(Credit: Theory – 02)****Marks: 100 (ESE: 3Hrs)=100****Pass Marks Th ESE =40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain three questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2& 3** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 20 each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**RESEARCH METHODOLOGY & QUANTITATIVE TECHNIQUE****Theory: 30 Lectures**

**Objectives:** It develops the understanding about the various aspects of research and its applications. The application of data and its importance are also providing the knowledge about the research systems with data.

**Course Outcomes**

**After completion of this course students will able to:**

- Do Social research and their applications in various fields.
- Understand Research methodologies and its various orientations.
- Use of different research tools in defining research objectives, hypothesis testing and report writing.

**Research Methodology****Lectures: 12**

**Unit I:** Research - meaning, objective & types.

**Unit II:** Research design—meaning, features of a good design.

**Unit III:** Methods of data collections.

**Unit IV:** Attitude measurement & Scales.

**Unit V:** Test of Hypothesis-Parametric & Nonparametric Tests.

**Unit VI:** Interpretation

**Unit VII:** Report writing

**Quantitative Technique****Lectures:18**

**Unit VIII:** Arithmetic Progression

**Unit IX:** Measures of Central Tendency—Arithmetic Mean, Median and Mode.

**Unit X:** Measures of Variations—Range, Quartiles, Mean Deviation and Standard Deviation.

**Unit XI:** Probability Distribution.

**Unit XII:** Use of MS Excel in Data Analysis, Correlation & Regression Analysis

**Recommended Books:**

1. Research Methodology—R. Panneerselvam
2. Quantitative Techniques—C. R. Kothari
3. Quantitative technique—C. Satyadevi
4. Mass Media Research—Roger D. Wimmer & Joseph R. Dominick

**Note:** Latest edition of textbooks may be used

**END OF SEM III-----**

**Semester – IV****6 Papers****CORE COURSE – C8****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for****Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**VISUAL MERCHANDISING****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** This course provides the knowledge about the influence of Visual Merchandising in the Retail marketing system. Includes all the tools of visual merchandising steps required to bring the customer into the store and fulfill their buying needs.

**Course Outcomes****After completion of this course students will able to:**

- Know Visual merchandising & its impact on retail sales and buying behavior.
- Use of different visual merchandising tools in fashion retail with their effects.
- Learn the retail work flow of product to consumer-UI/UX

**Unit I:** Introduction to Retail: Evolution and different retail formats. The Indian Retail industry, Introduction to Visual merchandising: definition and function, History of visual merchandising. **Lectures: 05**

**Unit II:** Retail store-site and design, Image Mix: The top six elements that influence the store image, 10 ways a store can turn off its customers. Display Basics: Store Exterior and Store Interior, Elements of display. Display basics, design basics, color blocking, Signage. **Lectures: 05**

**Unit III:** Store Planning and Fixtures-floor planning and store layout, planning store fixtures, types of fixtures. Understanding materials used for display. Symmetric Display Theory-Understanding the most popular and balanced key display principle, symmetric, Asymmetric Display Principle, Repetition Display Principle, Alternation Display Principles. **Lectures: 08**

**Unit IV:** Circulation plan-types of circulation flow, Planogram- meaning and purpose of a planogram, Benefits of a planogram, implementation and maintenance of a planogram, visual merchandising and inventory control. **Lectures: 08**

**Unit V:** Merchandising presentation: principles and categories of merchandising presentation, Dominance factor in merchandise presentation, Cross merchandising. Window display-design process, categories of window display, window display settings, window display- construction. Promotional display vs. Institutional display. **Lectures: 08**

**Unit VI:** Visual Merchandising – Styling, display, display calendar sales tracking, handling management, props, lighting, organizing and in store events, VM tool kit, Quality & Process in visual merchandising, standard Operation Procedures (SOP). **Lectures: 05**

**Unit VII:** Lifestyle display, Display using kids' accessories, display of home accessories, Fashion accessories, Styling mannequins by creating focal point. **Lectures: 05**

**Unit VIII:** Experiential Retail: Brand Experience-Brand centric to Consumer centric, Experience design in retail, Generation Z the changing customer, Augmented and Mixed realities in retail. **Lectures: 05**

**Unit IX: Case Studies:**

- High end Fashion brands like – Louis Vuitton, Prada, Zara
- Indian retail chains – Pantaloons, Reliance Industries, Westside
- Field visit and report submission.



- Expert lectures from professionals.

**Recommended Books:**

1. Visual Design in Dress Marian L. Davis
2. Silent Selling, Judith Bell & kate Ternus
3. Visual Merchandising and Display- Martin. M. Pegler
4. Basic Industrial Arts, Plastics, Graphics Arts, Power Mechanics, Photography-W.R. Miller
5. Visual Merchandising – by Anurag

**Note: Latest edition of textbooks may be used**

**CORE COURSE – C9****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for  
Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**APPAREL PRODUCTION & OPERATION MANAGEMENT****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** This subject gives an overview of the processes in managing various Apparel manufacturing operations like operations strategy, product design, process design, quality management, capacity, facilities planning, production planning and inventory control.

**Course Outcomes****After completion of this course students will able to:**

- Understand different methods of apparel planning for production of apparels.
- Understand Various methods of inventory management in apparel productions.
- Know different role of apparel engineering in productions and principle of motion economy.

**Unit I:** Introduction to Operation Management – Production and Operation Management, Manufacturing vs. Service, Competitiveness. **Lectures: 05**

**Unit II:** Nature of Manufacturing, Types of Production System, Continuous Production System, Production to Stock, Intermittent Production System, Production to Order, Mass Production, Process Production, Project Production, Job Production, Batch Production. **Lectures: 05**

**Unit III:** Forecasting for Production, Elements of Good Forecast, Qualitative, Executive Opinion, Market Research, Delphi Method, Quantitative, Time Series Model, Simple Moving Average, Weighted Moving Average, Exponential Smoothing, Trend Adjustments, Casual Model, Linear Regression, Multiple Regression. **Lectures: 05**

**Unit IV:** Project Management, Project Planning, Project Scheduling, Project Control, Gantt Chart, PERT/CPM, Critical Path Analysis, Project Network Techniques, Activity on Arrow (AoA), Activity on Node (AoN), Time Management, Quality Control, Cost Management, Performance Management, Communication. **Lectures: 10**

**Unit V:** Inventory Management, Function of Inventory, Inventory Cost, Item Costs, Holding Costs, Ordering Costs, Shortage Costs, Inventory Control System, ABC Classification, VED Analysis, FSN Analysis, HML Classification, SDE Classification, Inventory System, Buffer Stock, Safety Stock, Lead Time, Annual Usage Value, Reorder Point, Economic Order Quantity -EOQ, Multi - Period Inventory Model, fixed-order quantity model, fixed-time period model, Single - Period Inventory Model, Material Requirements Planning, Manufacturing Resource Planning. **Lectures: 10**

**Unit VI:** Role of Apparel Engineering – Benefits of I.E, Tools & techniques of I.E, Pre-production Activities. **Lectures: 05**

**Unit VII:** Method Study- Introduction to Basic method study, Recording the method, Operation Process Chart, Flow Process Chart, Flow diagram. **Lectures: 05**

**Unit VIII:** Motion Economy – Principles of Motion Economy, Micro Motion Study, Time Study, Methods Improvement. Standard Allocated Minutes. **Lectures: 05**

**Unit IX:** Apparel factory environment, processes and systems. Laws related to the industry functioning & processes, labor laws, Apparel industry practices & procedures. **Lectures: 05**

**Unit X:** Inspection procedures, analyzing reports, Critical and non-critical deviations or non-compliances, Procedural understanding: product manufactured in the factory, checking procedures and tolerances, reports and compliances, classification of major or minor deviations. Measures of health and safety in Garment industry. **Lectures: 05**

**Recommended Books:**

1. Carr and Latham's Technology of Clothing Manufacture edited by David J. Tyler apparel business strategies
2. Garment Manufacturing Technology edited by Rajkishore Nayak, Rajiv Padhye
3. Industrial Engineering in Apparel Production – V. Ramesh Babu
4. Industrial Safety and Health Management-C. Ray Asfahl, David W. Rieske, Prentice Hall , Industrial relations and labour management of Bangladesh by Iqbal Ahmed
5. Encyclopedia of Occupational Health and Safety: by Jeanne Mager Stellman
6. Apparel Manufacturing-Sewn Product analysis, Ruth E Glock & Kunz

**Note: Latest edition of textbooks may be used**

**CORE COURSE – C10****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for****Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**ACCESSORIES DESIGN****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objective:** To get an understanding about various fashion accessories and their conceptualization in apparel made-ups. To understand the basics about Jewelry, bags, shoes, belts and scarfs. To Study the present trends in the market and then interpret it and create your own concepts.

**Course Outcomes****After completion of this course students will able to:**

- Understand role of accessories in apparel & home furnishings.
- Understand effective use of accessories in apparel design and developments.
- Know different applications of accessories in fashion & styling.

**Unit I:** Classification of accessories, functional accessories, Introduction to form and form formation  
Definition of accessory design. **Lectures: 10**

**Unit II:** Introduction to Soft Furnishings; Definition - Different types of furnishings materials and upholstery, Woven and nonwoven, Factors affecting the selection of home furnishing. **Lectures: 15**

**Unit III:** Introduction to fashion Accessory, Footwear, Gloves, Handbags, Millinery, watches, belts and scarfs. Its classification, market segmentation of products. Introduction to jewelry and its component and findings. Principles of design for jewelry. Designing various forms of jewelry-gold, diamond, junk, terracotta, fine jewelry, costume jewelry. **Lectures: 10**

**Unit IV:** Jewelry manufacturing-CAD-CAM, lost wax casting, fabricating, hand forging, laser welding, stone setting, ring sizing and finishing, gold purity chart, gold and silver purity Measured-Karat vs. Carat, difference between 10k, 14k, 18k and 24k its advantages and disadvantages **Lectures: 15**

**Unit V:** Inter- relation of Styling and clothing, Lifestyle Factors of the Client, Personal Style, Selection and Coordination of Clothes and Accessories. **Lectures: 10**

**Recommended Books:**

1. Furnishing Sense, Varinder Goyal, Kashish Goal
2. Home Furnishing (wood head publishing India in textiles) by V. Ramesh Babu & S. Sunderson.
3. Fashion Apparel Accessories and Home Furnishing, Jay Diamond
4. Jewellery Illustration and Design, Vol.2: From the Idea to the Project. by Manuela Brambatti and Vinci Cosimo
5. Woven in Wire-Dimensional Wire Weaving in Fine Art Jewelry Sarah Thompson

**Note:** Latest edition of textbooks may be used

**GENERIC ELECTIVE (GE 4A)****Marks: 100 (ESE: 3Hrs) =100****(Credit: Theory: 05 + Tutorial: 01=06)****Pass Marks Th (ESE)=40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain three questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2 & 3** will be short answer type of 5 marks each. **Group B** will contain descriptive type six question of 20 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**FASHION CAD – II****Theory: 75 Lectures; Tutorial: 15 Lectures**

**Objectives:** This course provides advance knowledge regarding Computer Aided Design and various other software's applicable for the fashion sector in the various stages of design and development.

**Course Outcomes****After completion of this course students will able to:**

- Perform different applications of advanced graphic tools in design & developments of apparels and other fashion materials.
- Use & applications of different other computer aided software's & tools for design & developments of apparels and other fashion materials.
- Conduct applications of creativities in apparel design and developments by using different software's.

**Unit I: Introduction to Adobe Illustrator:** Overview of the interface and tools, Setting up artboards and documents. **Lectures:05**

**Unit II: Basic Drawing Tools**-Using the Pen, Pencil, and Brush tools, Creating and editing shapes, Working with paths and anchor points. **Lectures:10**

**Unit III: Color and Appearance:** Applying fills, strokes, and gradients, Creating and using swatches, Color theory basics and palette creation. **Lectures:10**

**Unit IV: Typography and Text Effects**-Adding and formatting text, Using Type on a Path and Area Type, Creating custom fonts and typographic designs. **Lectures:10**

**Unit V: Working with Layers and Groups**-Organizing artwork with layers, Grouping, locking, and hiding elements, Using isolation mode for editing. **Lectures:10**

**Unit VI: Advanced Drawing Techniques**-Using the Shape Builder and Pathfinder tools, creating complex illustrations, Applying effects and filters. **Lectures:10**

**Unit VII: Patterns, Brushes, and Symbols**-Creating custom brushes and symbols, designing seamless patterns, Using libraries for reusable assets. **Lectures:10**

**Unit VIII: Exporting and File Formats**-Saving for web, print, and animation, understanding file types: JPEG, AI, PDF, Packaging files for clients or printers. **Lectures:05**

**Unit IX: Detail study of Wilcom Embroidery Studio E3.** (Software) working with tools and for creating different shape and symbols for embroidery, Selection tool, Stitch angle, Free hand tool, Fusion fill, Input A, B, C, Complex fill, Manual Stitch, Circle, appliqué, Lettering, Team name, Monogramming, Outlines and offset, Vector tool, Auto Digitizing, color object list. Digitizing embroidery designs. **Lectures:05**

**References Books:**

1. Fundamentals of Computer Graphics-By Peter Shirley
2. Patric Taylor-Computer in the Fashion Technology, Om Book Service, 1997
3. Wilcom Tutorial booklet
4. Adobe Illustrator Classroom in a Book (2022 release) 1st Edition by Brian Wood
5. Fashion and Textile Design with Photoshop and Illustrator: Professional Creative Practice by Robert Hume

**Note: Latest edition of textbooks may be used**

**GENERIC ELECTIVE (GE 4B)****(Credit: Practical-05+Theory-01=06)****Marks: 75 (ESE) + 25 (ESE-Practical)=100****Pass Marks ESE+ESE-Practical =40****Instructions to Question Setter for  
End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**Instructions to Practical Exam Evaluator for ESE & viva voce**

\*A Project based presentation and viva voce exam of 25 marks under the supervision of the College should be held in Garment Construction Lab at college with the garments samples already constructed by students under the supervision of professor as per his/her directions.

**Note:** Evaluation has to be done on the Garments made by the students. A Hand written Document comprising of all the classroom project works and final constructed garments should be presented at the time of evaluation.

**GARMENT CONSTRUCTION TECHNIQUES – IV      Practical: 75 Lectures; Theory: 15 Lectures**

**Objective:** To understand basic patterns of a garment in apparel construction and drafting winter wear and kids wear. Create garment as per the project guideline provided and presentation.

**Course Outcomes**

**After completion of this course students will able to:**

- Conducts different patterns for knitting.
- Develop different swimwear's, jackets, sports T-shirts etc. as final garments.
- Develop knitwear design garments and construction.

**Unit I:****Lectures: 06**

- Concepts of contouring, Contour Guide Patterns, Analytical Study of the classic empire style line, Surplice/Wrap Designs, Off Shoulders & Halter Designs. Muslin Test fit Sample development for contouring
- Knits – Stretch & Shrinkage Factors, Classification of Knit Fabrics, Adopting Patterns to knit. Concepts of sportswear. Machinery for knitwear stitching.
- Introduction to Swimwear – Swimwear Types – Maillot Foundation, Bikini Foundation, Bikini Bottom Variations, Bikini Top Variation.

**Unit II:****Lectures: 06**

- Jackets & Coats (Women/Men) – Terms, Foundation, Types. Capes & Hoods. Collar & Lapel Classic Designs Muslin Test fit Sample development

**Unit III:****Lectures: 03**

Study of Jackets, Coats, T-shirts & Dungaree – Design Analysis and components. Concepts of Design Development – Client Study, Theme Development, Concept, Mood and Color Boards.

**Practical - Step by Step procedure for construction and drafting of the mentioned garments:****Unit IV:****Practical: 45**

Graph Drafting & Flat Pattern, Muslin Test fit & Final garment

- Jacket (Men's / Women's)

Development of final garment with supporting mood boards, color board, concept board in complete format with hand written documentation.

**Unit V:****Practical: 30**

Graph Drafting & Flat Pattern, Muslin Test fit & Final garment

- T-shirt and pant (sportswear)
- Off Shoulders & Halter Dress

Development of final garment with supporting mood boards, color board, concept board in complete format with hand written documentation.

**Recommended Books:**

1. Pattern making for fashion design – H G Armstrong
2. Metric pattern cutting - Winifred Aldrich
3. Pattern making made easy - Gollian Holman
4. Technology of clothing manufacture - Carr & Latham
5. Apparel manufacturers' handbook - Jacob Solinger
6. Fabric for fashion – 2021, Amanda Johnston, Clive Hallett

**Note: Latest edition of textbooks may be used**

**SKILL ENHANCEMENT COURSE (SEC 2)****(Credit: Theory – 02)****Marks: 100 (ESE: 3Hrs)=100****Pass Marks Th ESE =40****Instructions to Question Setter for****End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain three questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2 & 3** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 20 each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**FASHION PHOTOGRAPHY & PORTFOLIO DEVELOPMENT****Theory: 30 Lectures**

**Objective:** This will give an overview of photography techniques and different camera angles and idea about light and background, to be helpful for the fashion portfolio development.

**Course Outcomes****After completion of this course students will able to:**

- Develop of individual's portfolio.
- Use & applications of digital camera and their positioning.
- Develop of video photography & mixing of different images in preparing effective presentation.

**Unit I: Photography:****Lectures: 20**

- General principle – Photography - camera, lens. How to use your camera – Needs and methods lighting techniques for indoor / outdoor photography – methods and equipment's – advantage and disadvantages.
- Image capture – parts of camera- classification and types of camera – Applications and Disadvantages. Light – Natural, artificial, flash and strobe.
- Photography techniques and equipment for different fields. Basic, studio, location portraiture,
- Photojournalism, Fashion Photography, wedding photography – Fashion shows.
- Exposure and processing of color and black and white films. Different techniques in developing. Printing – definitions – Methods of printing for black & white color.
- Photography using digital cameras – Video photography – image mixing – advertising and still life - application of computers in photography.
- E-commerce Photo shoot for products.

**Unit II: Portfolio development:****Lectures: 10**

- Development of project brief
- Portfolio development in chosen area of specialization will include: research and survey, design development, client, material, trend, research and exploration. Fashion presentation, design sampling and commercial application.
- Development of a final portfolio document with proper cover page, standard sizes of document, layout to be followed, story and category selection, specification sheet and costing sheet tabulation.
- Swatch selection, development and swatch card development
- Abstract/prologue, portfolio
- Epilogue: - the vision forward.
- Indicative reading: -portfolio presentation for fashion designer.
- Digital portfolio development.

**Recommended Books:**

1. Designing Your Fashion Portfolio: From Concept to Presentation by Joanne Barrett Bloomsbury
2. Design Your Fashion Portfolio Steven Faerm A. & C. Black, 2012
3. Fashion Portfolio: Design and Presentation by Anna Kiper
4. Pro digital fashion photography by Bruce Smith

**Note: Latest edition of textbooks may be used**

-----END OF SEMESTER IV-----

<b>Semester – V</b>	<b>4 Papers</b>
<b>CORE COURSE – C11</b>	<b>(Credit: Theory: 05 + Tutorial: 01=06)</b>
<b>Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100</b>	<b>Pass Marks (MSE + ESE)=40</b>

**Instructions to Question Setter for**  
**Mid Semester Examination (MSE):**

*There will be two groups of questions. Group A is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

**End Semester Examination (ESE):**

*There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1 will be very short type of consisting of ten questions of 1 mark each. Question No. 2 will be short answer type of 5 marks. Group B will contain descriptive type six question of 15 marks each, out of which any four are to answer.*

**Note: There may be subdivision in each question asked in Theory Examinations.**

**DRAPING**

**Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** This course provides the knowledge regarding draping methods and other contour garment making techniques.

**Course Outcomes**

**After completion of this course students will able to:**

- Know Draping and their applications.
- Use & applications of different types of draping techniques and dress formations.
- Drape garments as per their design drawing.

**Unit I:** Introduction of draping, terminology, Dress form & Muslin Preparation

**Lectures: 10**

**Unit II:** Designing with Darts, Pleats, Tucks, Frills & Flayer Formation on Bodice & Skirt.

**Lectures: 10**

**Unit III:** Cowls neckline in one-piece dress, halter top, surplice bodice styles, Butterfly Twist Dress, Yoke Top, Midriff Bodice Formation.

**Lectures: 10**

**Unit IV:** Gown Formation- Fishtail, Ball Gown, Princess Gown/off shoulder & Strapless Dress Formation.

**Lectures: 15**

**Unit V -** Dress formation for theatre costumes using draping concepts for oversized garments.

**Lectures: 15**

**Recommended Books:**

1. Dress Design: Draping and Flat Pattern Making-M.S. Hillhouse, E.A. Manfield, Publisher Houghton Mifflin College Division.
2. Draping for Fashion Design-Jaffe Hilde and Relis Nuire.
3. Draping: The Complete Course by Karolyn Kiisel, Laurence King Publishing, 2013
4. Fashion Draping Techniques (vol-2)-By Danilo Attardi
5. Fashion draping techniques V02 - by Danilo Attardi | 4 January 2022
6. The art of Fashion draping, Connie Amaden, Crawford

**Note: Latest edition of textbooks may be used**

**CORE COURSE – C12****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for****Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**APPAREL COSTING****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** To equip the students from knowledge of accurate and efficient costing of various processes in Apparel Manufacturing, gaining an in-depth understanding of the Cost Concepts prevailing in the Industry.

**Course Outcomes**

**After completion of this course students will able to:**

- Perform applications of different methods of costing for apparel industry.
- Use & applications of different fixed and variable costing for apparel industry.
- Develop methodology for garment costing in all aspects of manufacturing process.

**Unit I:** Introduction to Costing and pricing principles – Cost, costing, Price and Pricing Principles. Principles of Costing. Types of Cost. Cost Unit and Cost Centre. **Lectures: 08**

**Unit II:** Methods of costing, Techniques of Costing, Requirements of good Costing System. Cost of quality & Cost Control. Pricing methods & Price adaptation strategies. **Lectures: 08**

**Unit III:** Elements of Costs- Material, Labor and Expenses. **Lectures: 08**

**Unit IV:** CMT costing – Shirt, Trouser, T- shirt. **Lectures: 10**

**Unit V:** Pricing strategies in boutique, retail. Mark Up & Mark Downs. **Lectures: 08**

**Unit VI:** Cost sheet & its Components, Breakeven Point. **Lectures: 08**

**Unit VII:** Process Costing - Concept & Definition, Estimation of Knitting/Weaving Cost, Cutting Cost, Stitching Cost. **Lectures: 10**

**Recommended Books:**

1. Apparel Costing – M. Krishankumar
2. Introduction to Costing-Karla.
3. Introduction to Financial Accounting-S.C Gupta
4. Product Costing in SAP, Rajesh Dhawan
5. Guide to Fashion Designers: Mastering the Art of Pricing Your Work -by Mercy Ugwuoro | 18 November 2023

**Note: Latest edition of textbooks may be used**

**DISCIPLINE SPECIFIC ELECTIVE (DSE 1)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****(Credit: Theory: 05 + Tutorial: 01=06)****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for****Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**FASHION RETAIL & BOUTIQUE MANAGEMENT Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objective:** Retail management includes all the steps required to bring the customer into the store and fulfill their buying needs & equip the students with knowledge to efficiently start and manage a Boutique.

**Course Outcomes**

**After completion of this course students will able to:**

- Understand management of fashion Boutiques, skills in budgeting and pricing strategies.
- Conduct different formats of fashion retailing.
- Conduct boutique Management and its exclusive relevance in fashion retailing.

**Unit I:** Introduction to fashion and lifestyle retail, goods & category of fashion products. **Lectures: 05**

**Unit II:** Identifying and understanding retail consumer: - factors affecting retail strategy, consumer demographics and lifestyle, social factors affecting. Consumer needs and desires, shopping attitude and behavior, consumer decision making process. **Lectures: 05**

**Unit III:** Retail format-based on merchandise selection, merchandise selection as a competitive advantage, specialty store retailing, department store retailing, super specialist, niche category killers. **Lectures: 05**

**Unit IV:** Format based on pricing: pricing as a competitive advantage, discount retailing, superstore retail, price retailing. Format based on operation: chain store, contractual/franchise, Warehouse retailing. Format based on direct marketing, B2B, mail order direct response/digital marketing **Lectures: 05**

**Unit V:** Brand Study, E-commerce Brands **Lectures: 05**

**Unit VI:** Association and esteem and pride with the customer and retail marketing. **Lectures: 05**

**Unit VII:** Change of fashion and its effect on retailing, Distribution channel and its effect in fashion retailing. **Lectures: 05**

**Unit VIII:** Granting and brand building and market position of fashion products. **Lectures: 05**

**Unit IX:** Introduction to Boutique Management. Customer profile study and steps of establishing a Boutique. **Lectures: 10**

**Unit X:** Interior designing and visual retail merchandising of the Boutique. **Lectures: 05**

**Unit XI:** Advertising media used in apparel marketing. Advertising department, agencies & Brand promotion. Packaging and E-billing. **Lectures: 05**

**Recommended Books:**

1. Retail management-4th edition by Gibson G. Vedamani
2. Retail management: A global perspective by harjit singh 2009
3. Retail management by S.C Bhatia 2008
4. Fab Job Guide to Become a Boutique Owner, 2005, Debra Mikaelson
5. How to setup and run a Fashion Label, Toby Meadows

**Note: Latest edition of textbooks may be used**

**DISCIPLINE SPECIFIC ELECTIVE (DSE 2)****(Credit:Practical-05+Theory-01=06)****Marks: 75 (ESE) + 25 (ESE-Practical))=100****Pass Marks ESE+ESE-Practical =40****Instructions to Question Setter for****End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**Instructions to Practical Exam Evaluator for ESE & viva voce**

\*A Project based presentation and viva voce exam of 25 marks under the supervision of the College should be held in Garment Construction Lab at college with the garments samples already constructed by students under the supervision of professor as per his/her directions.

**Note:** Evaluation has to be done on the Garments made by the students. A Hand written Document comprising of all the classroom project works and final constructed garments should be presented at the time of evaluation.

**GARMENT CONSTRUCTION TECHNIQUES – V****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** To generate hands on experience in making creative garment for a fashion show with industrial feedback.

**Course Outcomes**

**After completion of this course students will able to:**

- Develop of different patterns for kids wear.
- Develop different garments for men's wear and women's wear.
- Develop garments on different textures.

**Unit I:****Lectures: 05**

- Introduction to children wear, Children wear Challenges, Color & Functional Clothing, Size Categories for children wear – Infants or Babies, Toddlers, Boys & Girls (Preteen), Young Juniors, juniors. Sources of Children's Fashion Inspirations. Muslin test fit Sample developed for kids wear.
- Drafting and Paper Pattern Development of Kids wear – Basic Pattern Set (Boys/Girls), Frock

**Unit II:****Lectures: 05**

- Knock – Off Copying Readymade Designs – Introduction, Knock-Off Methods – T-shirts / Tops, Shirts, Pants, Jackets. Test fit development.
- Design Development – Client Study, Theme Development, Concept, Mood and Color Boards for the Final Garment Collection.
- General Introduction of digital pattern making software's- Tukatek, optitex, lectra, modaris & latest developments.

**Practical - Step by Step procedure for construction and drafting of the mentioned garments:****Unit III:****Practical: 20**

Graph Drafting, Flat pattern, Muslin Test fit & Final Collection of garments based on design development process and overall learning. Hand written document with photograph and steps of construction.

- Men's wear (2 design)

**Unit IV:****Practical: 20**

Graph Drafting, Flat pattern, Muslin Test fit & Final Collection of garments based on design development process and overall learning. Hand written document with photograph and steps of construction.

- Women's wear (2 design)

**Unit V:****Practical: 20**

Graph Drafting, Flat pattern, Muslin Test fit & Final Collection of garments based on design development process and overall learning. Hand written document with photograph and steps of construction.

- Kids wear (2 design)

**Recommended Books:**

1. Pattern making for fashion design – H G Armstrong
2. Metric pattern cutting - Winifred Aldrich
3. Pattern making made easy - Gollian Holman
4. Technology of clothing manufacture - Carr & Latham
5. Apparel manufacturers' handbook - Jacob Solinger

**Note: Latest edition of textbooks may be used**

-----END OF SEMESTER V-----

**Semester – VI****4 Papers****CORE COURSE – C13****(Credit: Theory: 05 + Tutorial: 01=06)****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for  
Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of 15 marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**APPAREL EXPORTS AND DOCUMENTATION****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** This course provides the knowledge regarding apparel exports and its related documentation.

**Course Outcomes**

**After completion of this course students will able to:**

- Understand Importance of apparel export opportunities and avenues.
- Understand Apparel export procedures and process.
- Know different documents require for export of apparel and fashion accessory products.

**Unit I:** Introduction to Export Marketing - General Agreement on Tariffs and Trade (GATT) , World Trade Organization, Globalization, International Marketing, , trade barriers, Tariff Barriers, Non-Tariff Barriers, Revenue Tariff, Protective Tariff , Counter active Tariff, Specific Tariff, Ad valorem Tariff, The North American Free Trade Agreement (NAFTA), European union, Pacific Rim Nations, North Atlantic Treaty Organization (NATO), South American Trading Block, Collective Security Treaty Organization (CSTO), Association of Southeast Asian Nations (ASEAN), European Free Trade Agreement (EFTA), African Trade Agreements (ATA), Central American Free Trade Agreement (CAFTA), Andean Community (CAN) , ASIA-Pacific Economic Cooperation, Organization For Economic Cooperation and Development (OECD), Central American Common Market - CACM, Caribbean Common Market - CARICOM, Gulf Cooperation Council (GCC), SAARC Countries. Apparel Export Promotion council of India – Benefits & Schemes, Current Indian Trade Agreements.

**Lectures: 10**

**Unit II:** Export Procedure - Registration Stage, Pre-Shipment Stage, Shipment Stage, Post-shipment Stage, Quality Control and Pre-Shipment Inspection, GST Exemption, Procedure for Excise Clearance, Shipping and Customs Formalities, Procedure for Realization of Export Proceeds.

**Lectures: 10**

**Unit III:** Terms of Payment, Instruments of Payment & Methods of Financing Exports, Letter of Credit.

**Lectures: 10**

**Unit IV:** Export Documentation, Aligned Documentation System, Commercial Documents, Regulatory Documents, Proforma Invoice, Commercial Invoice, Consular Invoice, Packing List, Mate's Receipt, Bill of Lading, Certificate of Origin, Shipping Bill, Bill of Entry, Airway Bill, GR Form.

**Lectures: 20**

**Unit V:** Processing of an Export Order, Pre-shipment Inspection, Appointment of CFA, Transportation of Goods, Port Formalities, Customs Clearance, Dispatch of Documents, Shipment Advice, Presentation of Documents to Bank, Claiming Export Incentives.

**Lectures: 10****Recommended Books:**

1. Import & Export of Apparel & Textiles- Nasim Yousaf, Xlibris Corporation
2. Apparel Merchandising, M krishna Kumar, Abhishek Publication
3. Apparel and Textile Exports: Strategies for WTO Era

**Note: Latest edition of textbooks may be used**

**CORE COURSE – C14****Marks: 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****(Credit: Theory: 05 + Tutorial: 01=06)****Pass Marks (MSE + ESE)=40****Instructions to Question Setter for****Mid Semester Examination (MSE):**

*There will be two groups of questions. Group A is compulsory and will contain five questions of the very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

**End Semester Examination (ESE):**

*There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1 will be very short type of consisting of ten questions of 1 mark each. Question No. 2 will be short answer type of 5 marks. Group B will contain descriptive type six question of 15 marks each, out of which any four are to answer.*

**Note: There may be subdivision in each question asked in Theory Examinations.**

**FASHION MEDIA AND EVENT MANAGEMNET****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objectives:** This course provides knowledge regarding the application of different media along with management of media in the effective manner. Knowledge regarding fashion events and its importance are also to be discussing for proper understanding of the students.

**Course Outcomes****After completion of this course students will able to:**

- Understand regarding power of media and events for promotion of fashion in and at the overseas market.
- Know different media platforms in according to their rating and advantages.
- Know importance of fashion events in promotion of different fashion wears and brands.

**Unit I:** Introduction to Fashion media business. Introduction to mass media, new media writing, editing, visuals. Digital Category-fashion journalism, Graphic communication for media, video production and editing, Digital photography and imaging. **Lectures: 10**

**Unit II:** Media Choices-Film, television and internet. Global media, women in media. Celebrity integrated media communication. Critical theories of fashion and culture. **Lectures: 10**

**Unit III:** Introduction to event management, objective, definitions, concepts and design, feasibility. **Lectures: 10**

**Unit IV:** Event Marketing, promotion, budget, risk management, planning-aims and objective of an event. Social Media Marketing & E-Commerce. **Lectures: 06**

**Unit V:** Fashion Show- Importance & types. Concept development, runway and stage design. **Lectures: 06**

**Unit VI:** Model Casting, Styling, Lighting and Audio-Visual Production Backstage management and dressing, VIP and guests Experience Enhancement, Award distribution Function. **Lectures: 06**

**Unit VII:** Safety and Security, Crowd management plan & Compliances. **Lectures: 06**

**Unit VIII:** Hype vs. publicity vs. advertising, influences of page 3 syndrome on designer social and environmental issues in fashion and media. **Lectures: 06**

**Recommended Books:**

1. Event Management—Lynn Van Der Wagen & Brenda R. Carlos
2. Event Marketing & Management—Sanjay Singh Gaur & Sanjay V. Saggere
3. Successful Event Management—Anton Shone & Bryn Parry
4. Media and Communication Management—C.S. Rayudu
5. Mass Communication, Journalism and Media Management—S. Chauhan & N. Chandra
6. Electronic Media—M. M. Gaur
7. Media Management—Dr. Rakesh Kumar
8. Print Media and Electronic Media—Jitendra Kumar Sharma
9. Mass Communication—Jitendra Singh

**Note: Latest edition of textbooks may be used**

**DISCIPLINE SPECIFIC ELECTIVE (DSE 3)****Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****(Credit: Theory:05 + Tutorials:01=06)****Pass Marks (MSE + ESE) =40****Instructions to Question Setter for****Mid Semester Examination (MSE):**

There will be two groups of questions. **Group A** is compulsory and will contain five questions of very short answer type consisting of 1 mark each. **Group B** will contain descriptive type six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two groups of questions. **Group A** is compulsory and will contain two questions. **Question No. 1** will be very short type of consisting of ten questions of 1 mark each. **Question No. 2** will be short answer type of 5 marks. **Group B** will contain descriptive type six question of fifteen marks each, out of which any four are to answer.

**Note:** There may be subdivision in each question asked in Theory Examinations.

**ENTREPRENEURSHIP DEVELOPMENT****Theory: 60 Lectures; Tutorial: 10 Lectures**

**Objective:** To develop an entrepreneurial mind-set and equip students with the knowledge, skills, and attitudes necessary to identify business opportunities, create innovative ventures, and manage small and medium enterprises successfully.

**Course Learning Outcome:**

**After completing this course student will be able to:**

- Understand the concepts, theories, and process of entrepreneurship and innovation.
- Identify, evaluate, and develop viable business opportunities and plans.
- Demonstrate the skills required for starting, managing, and sustaining entrepreneurial ventures.

**Unit 1:** Entrepreneurial Management: The evolution of the concept of entrepreneurship, John Kao's Model on Entrepreneurship, Idea generation, Identifying opportunities and Evolution, Building the Team/Leadership, Strategic planning for business, Steps in strategic planning, Forms of ownership-Sole proprietorship, partnership, limited liability partnership and corporation form of ownership, advantage/disadvantage, Franchising, advantages/disadvantages of franchising, types of franchise arrangements, franchise contracts, franchise evolution checklist, Financing entrepreneurial ventures, managing growth, Valuation of a new company, Harvesting and Exist strategies, Corporate Entrepreneurship. **Lectures: 10**

**Unit II:** Application of CPM, PERT in Enterprise Management: Importance of project management in new ventures and MSMEs, Role of planning and scheduling in entrepreneurial success, Overview of project life cycle: conception, planning, execution, and control, Meaning and purpose of network analysis, Comparison between CPM and PERT, Relevance of CPM and PERT in entrepreneurial project planning and control, Steps in CPM analysis - Listing activities and their durations, Drawing the network, Calculating Earliest Start Time (EST), Earliest Finish Time (EFT), Calculating Latest Start Time (LST), Latest Finish Time (LFT), Identifying the Critical Path, Importance of the critical path for entrepreneurs, Applications of CPM in time and cost optimization, Concept of three time estimates - Optimistic time (to), Most likely time (tm), Pessimistic time (tp), Calculation of expected time (te), Variance and standard deviation of project duration, Probability of project completion within a given time, Application of PERT in managing project uncertainty, Using CPM and PERT for - New business setup and product launch planning, Resource allocation and scheduling, Time-cost trade-off decisions, Identifying project bottlenecks and improving efficiency, Role in decision-making, control, and monitoring of entrepreneurial ventures **Lectures: 15**

**Unit III:** Entrepreneurship Creativity and Innovation: Stimulating Creativity, Organizational actions that enhance/hinder creativity, Managerial responsibilities, Creative Teams, source of innovation business, managing organizations for innovation and positive creativity. **Lectures: 06**

**Unit IV:** Social Entrepreneurship: Introduction to social entrepreneurship, Characteristics and role of social entrepreneurs, Innovation and Entrepreneurship in a social Context, Start-Up and early stage venture issues in creating and sustaining a Non-profits organization, Financing and Risks, Business Strategies and Scaling up. **Lectures: 06**

**Unit V: Family Business and Entrepreneurship:** The entrepreneur, role and personality, family business, concepts, structure and kinds of family firms, culture and innovation of family firm, managing business, family and shareholder relationships, conflict and conflict resolution in family firms, managing leadership, succession and continuity, women's issues in the family business, encouraging change in the family business system.

**Lectures: 07**

**Unit VI:** Entrepreneurship management for MSME: Concept, nature, characteristics and types of entrepreneurs, Role and importance of MSMEs in the economy, Classification and features of MSMEs (as per latest MSME Act), Challenges and opportunities in the MSME sector, Sources of finance, Financial planning and working capital management for MSMEs, Cost control, budgeting, and pricing decisions, Succession planning and professionalization of MSMEs, Managing risk and uncertainty in small businesses, Sustainability and CSR in MSMEs, Establishing MSMEs, Case studies of successful MSMEs and entrepreneurs

**Lectures: 10**

**Unit VII: Financing the Entrepreneurial Business:** Arrangements of funds, traditional source of financing, Loan syndicating, Consortium finance, role played by commercial banks, appraisal of loan applications by financial institutions, Venture capital.

**Lectures: 06**

**Recommended Books:**

1. Entrepreneurship Development and Management – Vasant Desai
2. Entrepreneurship Development and Small Business Enterprises – Poornima M. Charantimath
3. Entrepreneurship and Small Business Management – C.B. Gupta & S.S. Khanka
4. Entrepreneurship Development – S. Anil Kumar, Poornima, K. Abraham, & Jayashree
5. Small Business Management and Entrepreneurship – David Stokes & Nicholas Wilson
6. MSME Policy and Management – R.K. Mishra & K. Goyal

**Note: Latest edition of textbooks may be used**

**DISCIPLINE SPECIFIC ELECTIVE (DSE 4)****(Credit: Theory: 01 + Tutorials: 05=06)****Marks: 50 (Internal Evaluation)+50 (External Evaluation)=100 Pass Marks (Internal + External)=40****ON JOB TRAINING**

**Objectives:** To provide basic and hand on understanding of the industry.

**On the Job Works for six to eight weeks at the Designated Organization recommended by the college.**

**Guidelines to Examiners for End Semester Examination (ESE Pr):**

Evaluation of project dissertation work may be as per the following guidelines:

Overall project dissertation may be evaluated under the following heads by External & Internal Examiners Separately:

- Motivation for the choice of topic = 05 marks
- Project dissertation design = 05 marks
- Methodology and Content depth = 10 marks
- Results, Discussion & Future Scope = 05 marks
- Presentation style = 10 marks
- Viva-voce = 15 marks
- Total Marks =  $50 \times 2 = 100$

**PROJECT WORK**

All student related to Specific discipline will undergo 'Training/Project' of minimum 6 weeks' duration in Semester-VI, related to area of their specialization. Student alone or in a group of not more than three, shall undertake one Project Dissertation approved by the Subject Teacher / H.O.D. of the Department/College concerned.

The progress of the Project Dissertation shall be monitored by the faculty members at regular intervals, and followed by internal and external viva exam of 50 marks each.

**Training Schedule:** The students will be allowed to work on any project based on the concepts studied in core /elective or skill based elective courses.

The Units imparting industrial exposure shall conduct formal induction sessions and emphasis on personality skills while acquainting the learners with skills of trade.

**Academic Credits for training shall be based on following:**

- Log books and attendance
- Appraisals, Report and presentation, as applicable. For distribution of marks refer to details on Course structure/ Credit Distribution during the tenure of Industrial Exposure, apart from carrying out the assigned jobs. All trainees must ensure that the log books and appraisals are signed by the departmental/ sectional heads as soon as training in a particular department or section is completed. Trainees are also advised to make a report in their specialization in Semester-VI on completion of training in that respective department.
- A Power Point presentation (based on the report) for duration of **10 minutes** should be make. This will be presented in front of a select panel from the institute and the industry. The presentation should express the student's experiences in the department and what has he learned/ observed.

Marks will be awarded on this presentation and documents submitted to the faculty coordinator at the institute.

Students have to submit the following on completion of industrial training to the concern faculty at the college:

1. Synopsis submission
2. Synopsis Approval will be given within a week from the date of submission.
3. Synopsis will be approved by concerned department faculty member.
4. Faculty members will be the internal guide of particular group of Students.
5. The group size will be minimum of 1 candidate and maximum of 3 candidates.
6. Group will present power point presentation in front of panel and submit the project status Report within the 15 to 20 days from the date of approval.
7. Final Project Submission contains Hard copy, Soft copy & leave letter. Project hard copy contains
  - a) Front page
  - b) Certificate of Authenticity
  - c) Certificate of job Trainings
  - d) Declaration

- e) Acknowledgement
- f) Preface
- g) Table of content/index
- h) Objective of the project
- i) Scope of the Project
- j) Project guidelines (These points are mandatory)
  - 1. Introduction with Company profile.
  - 2. Vision, mission & objective.
  - 3. SWOT Analysis.
  - 4. Chronology of Achievements.
  - 5. Topic introduction & discussion.
  - 6. Its relevance & implication in company.
  - 7. Findings.
  - 8. Conclusion
  - 9. Further enhancement (Suggestion).
  - 10. Bibliography
  - 11. Reference Website
  - 12. CD (Compact Disc/Soft copy)
- k) The file should be Book Binding. One Project Report for office copy and each candidate must have its own copy.

**\*Topics, Objectives & Guidelines of the Project is to be decided by the Project Guide.**

-----END OF SEMESTER VI-----

**End of Syllabi-B.Voc. (Fashion Technology) Honors**

**ANNEXURE-I**

**DISTRIBUTION OF CREDITS SEMESTER WISE FOR UNDERGRADUATE HONOURS**  
**B. VOC. (FASHION TECHNOLOGY) PROGRAMME**

**Semester wise distribution of 164 Credits**

	<b>CC</b>	<b>AECC</b>	<b>GE-A</b>	<b>GE-B</b>	<b>SEC</b>	<b>DSE</b>	<b>Total Credits</b>
Semester I	12	02	06	06			26
Semester II	12	02	06	06			26
Semester III	18		06	06	02		32
Semester IV	18		06	06	02		32
Semester V	12					12	24
Semester VI	12					12	24
	<b>84</b>	<b>04</b>	<b>24</b>	<b>24</b>	<b>04</b>	<b>24</b>	<b>164</b>

**CC = Core Course; AECC = Ability Enhancement Compulsory Course; GE = Generic Elective; SEC = Skill Enhancement Course; DSE = Discipline Specific Elective**

**ANNEXURE-II****MARKS DISTRIBUTION FOR EXAMINATIONS AND FORMAT OF QUESTION PAPERS****Marks distribution of Theory Examinations of Mid Semester:**

Topic	Code	Full Marks	Pass Marks	Time	<u>Group-A</u> (Very Short answer type Compulsory Questions)	<u>Group-B</u> (Descriptive Questions with Choices)	Total No. of Questions to Set	
					No. of Questions X Marks = F.M.	No. of Questions X Marks = F.M.	Group A	Group B
Mid Sem	T 25	25	---	1 Hr	5 x 1 =5	4 (out of 6) x 5=20	5	6

**Marks distribution of Theory Examinations of End Semester**

Topic	Code	Full Marks	Pass Marks (M+E)	Time	<u>Group-A</u> (Very Short answer type Compulsory Questions)	<u>Group-B</u> (Descriptive Questions with Choices)	Total No. of Questions to Set	
					No. of Questions X Marks = F.M.	No. of Questions X Marks = F.M.	Group A	Group B
End Sem	T75	75	40	3 Hrs	Q.No.1 (10x1) +1x5 =15	4 (out of 6) x 15=60	2	6
End Sem	T100	100	40	3 Hrs	Q.No.1 (10x1) +2x5 =20	4 (out of 6) x 20=80	3	6

# Question No.1 in Group – A carries 10 very short answer type 1Mark Questions.

Abbreviations: T=Theory Examination, P= Practical Examination, I=Internal Exam, E=External Exam  
M=Mid Semester, E=End Semester

Note: There may be sub divisions in each question asked in Theory Examinations.

**Marks Distribution of End Semester Practical Examinations (GE 1B, 2B, 3B & 4B, DSE2):****Marks distribution of Practical Examinations of End Semester**

Topic	Code	Full Marks	Pass Marks	Time	Distribution of Marks			Total No. of Questions to Set
					Project File	Final Sample	Viva	
End Sem Practical	P25	25	---	---	05	10	10	-----

**Marks distribution of Practical Examinations of End Semester**

Topic	Code	Full Marks	Pass Marks	Distribution of Marks	
End Sem	P50 + P50	100	(Internal + External)	Project File	Viva

40 (I + E) P25 + P25 P25 + P25

Abbreviations: T=Theory Examination, P= Practical Examination, I=Internal Exam, E=External Exam

Note: There may be sub divisions in each question asked in Theory Examinations.

**ANNEXURE-III****FORMAT OF QUESTION PAPER FOR MID SEM EXAMINATION OF  
SUBJECTS WITHOUT PRACTICAL****St. Xavier's College, Ranchi**

Mid Semester No. \_\_\_\_\_

Exam Year \_\_\_\_\_

F.M. = 25

Subject/Code \_\_\_\_\_

Time = 1 Hr.

**General Instructions:**

- i. Group A carries very short answer type compulsory questions.
- ii. Answer any 4 out of 6 subjective/ descriptive questions given in Group B.
- iii. Answer in your own words as far as practicable.
- iv. Answer all sub parts of a question at one place.
- v. Numbers in right indicate full marks of the question.

**Group A [5x1=5]**

1. ....
2. ....
3. ....
4. ....
5. ....

**Group B [5x4=20]**

1. ....	[5]
2. ....	[5]
3. ....	[5]
4. ....	[5]
5. ....	[5]
6. ....	[5]

**Note: There may be subdivisions in each question asked in Theory Examination.**

## ANNEXURE-IV

**FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION OF  
SUBJECTS WITHOUT PRACTICAL OR WITH PRACTICAL**



**St. Xavier's College, Ranchi**

Mid Sem No. \_\_\_\_\_

Exam Year \_\_\_\_\_

Subject/Code \_\_\_\_\_

**F.M. =75**

**P.M. =40 (Including Mid Sem)**

**Time=3 Hrs.**

**General Instructions:**

- i. Group A carries very short answer type compulsory questions.
- ii. Answer any 4 out of 6 subjective/ descriptive questions given in Group B.
- iii. Answer in your own words as far as practicable.
- iv. Answer all sub parts of a question at one place.
- v. Numbers in right indicate full marks of the question.

**Group A**

1. ....	[10x1=10]
a.	
b.	
c.	
d.	
e.	
f.	
g.	
h.	
i.	
j.	
2. ....	[5x1=5]

**Group B**

1. ....	[15]
2. ....	[15]
3. ....	[15]
4. ....	[15]
5. ....	[15]
6. ....	[15]

**Note: There may be subdivisions in each question asked in Theory Examination.**

## ANNEXURE-V

**FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION OF  
GE, SEC & AECC PAPERS**



**St. Xavier's College, Ranchi**

End Sem No. \_\_\_\_\_

Exam Year \_\_\_\_\_

Subject/Code \_\_\_\_\_

**F.M. = 100**

**P.M. = 40**

**Time = 3 Hrs.**

**General Instructions:**

- i. Group A carries very short answer type compulsory questions.
- ii. Answer any 4 out of 6 subjective/ descriptive questions given in Group B.
- iii. Answer in your own words as far as practicable.
- iv. Answer all sub parts of a question at one place.
- v. Numbers in right indicate full marks of the question.

**Group A**

1. ....	[10x1=10]
a.	
b.	
c.	
d.	
e.	
f.	
g.	
h.	
i.	
j.	
2. ....	[5x1=5]
3. ....	[5x1=5]

**Group B**

1. ....	[20]
2. ....	[20]
3. ....	[20]
4. ....	[20]
5. ....	[20]
6. ....	[20]

**Note: There may be subdivisions in each question asked in Theory Examination.**

## ANNEXURE-VI

**FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION OF  
SUBJECTS WITH PRACTICAL****St. Xavier's College, Ranchi**

End Sem No. \_\_\_\_\_

Exam Year \_\_\_\_\_

F.M. = 25

Subject/Code \_\_\_\_\_

Time = -----

**General Instructions:**

i. Submission	[05 marks]
a. Experiment File	[10 Marks]
b. In-situ Analysis/Presentation	[10 Marks]
ii. Viva	

## ANNEXURE-VII

FORMAT OF INTERNAL EXAMINATION FOR  
ON THE JOB TRAINING ASSESSMENT

St. Xavier's College, Ranchi

Mid Sem No. \_\_\_\_\_

Subject/Code \_\_\_\_\_

Exam Year \_\_\_\_\_

F.M. = 50

## General Instructions:

1. Motivation for the choice of topic	05 marks
2. Project dissertation design	05 marks
3. Methodology and Content depth	10 marks
4. Results, Discussion & Future Scope	05 marks
5. Presentation style	10 marks
6. Viva-voce	15 marks

**ANNEXURE-VIII****FORMAT OF EXTERNAL EXAMINATION FOR  
ON THE JOB TRAINING ASSESSMENT****St. Xavier's College, Ranchi****Mid Sem No. \_\_\_\_\_****Exam Year \_\_\_\_\_****Subject/Code \_\_\_\_\_****F.M = 50****P.M = 40 (Internal + External)****General Instructions:**

1. Motivation for the choice of topic	05 marks
2. Project dissertation design	05 marks
3. Methodology and Content depth	10 marks
4. Results, Discussion & Future Scope	05 marks
5. Presentation style	10 marks
6. Viva-voce	15 marks

## ANNEXURE-IX

Semester wise paper along with their credit system:

<u>Sem - I</u>	<u>Sem - II</u>	<u>Sem - III</u>	<u>Sem - IV</u>	<u>Sem - V</u>	<u>Sem - VI</u>	<u>Credit System</u>
Core 1	Core 3	Core 5	Core 8	Core 11	Core 13	Core = 6 Credit
Core 2	Core 4	Core 6	Core 9	Core 12	Core 14	GE = 6 Credit
AECC 1	AECC 2	Core 7	Core 10	DSE 1	DSE 3	AECC = 2 Credit
GE 1A	GE 2A	SEC 1	SEC 2	DSE 2	DSE 4	SEC = 2 Credit
GE 1B	GE 2B	GE 3A	GE 4A			DSE = 6 Credit
		GE3B	GE 4B			

Calculation of SGPA & CGPA based on 10 Point Scale:**Calculation of SGPA & CGPA based on 10 Point Scale**

Credit Point = Gr. Pt. (GrP)x Cr

**Semester Grade Point Average (SGPA)**

$$SGPA = \frac{C(GrP \times Cr)}{\sum Cr} = \frac{\sum Crp}{\sum Cr}$$

**Cumulative Grade Point Average (CGPA)**

$$CGPA = \frac{\sum_{i=1}^n (Crp_i)}{\sum_{i=1}^n (Cr_i)}$$

**Grade and Grade Point Table**

<u>Marks in %</u>	<u>Grade</u>	<u>Grade Point</u>
91-100	O	10
81-90	A+	9
71-80	A	8
61-70	B+	7
51-60	B	6
46-50	C	5
40-45	P	4
< 40	F	0
Absent	X	0

## ANNEXURE-X

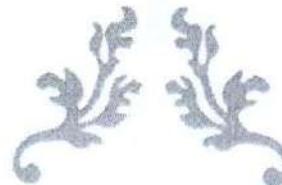
Sample calculation for SGPA & CGPA for B.Voc. (Fashion Technology) Honors ProgrammeSample Calculation for SGPA:

<u>Sem</u>	<u>Course</u>	<u>Credit</u>	<u>Grade Letter</u>	<u>Grade Point</u>	<u>Credit Point (Credit X Grade)</u>	<u>SGPA (Credit Point/Credit)</u>
<b>I</b>	C1	06	A	8	48	
	C2	06	B+	7	42	
	AECC 1	02	B	6	12	
	GE 1A	06	B	6	36	
	GE 1B	06	B+	7	42	
	<b>Total</b>	<b>26</b>			<b>180</b>	<b>6.92(180/ 26)</b>
<b>II</b>	C3	06	B	6	36	
	C4	06	C	5	30	
	AECC –2	02	B+	7	14	
	GE 2A	06	A+	9	54	
	GE 2B	06	B+	7	42	
	<b>Total</b>	<b>26</b>			<b>176</b>	<b>6.76(176/ 26)</b>
<b>III</b>	C5	06	A+	9	54	
	C6	06	O	10	60	
	C7	06	A	8	48	
	SEC1	02	A	8	16	
	GE 3A	06	O	10	60	
	GE 3B	06	B+	7	42	
<b>IV</b>	<b>Total</b>	<b>32</b>			<b>280</b>	<b>8.75(280/ 32)</b>
	C8	06	B	6	36	
	C9	06	A+	9	54	
	C10	06	B	6	36	
	SEC2	02	A+	9	18	
	GE 4A	06	A	8	48	
<b>V</b>	GE 4B	06	B+	7	42	
	<b>Total</b>	<b>32</b>			<b>234</b>	<b>7.31(234/ 32)</b>
	C11	06	B	6	36	
	C12	06	B+	7	42	
	DSE1	06	O	10	60	
	DSE2	06	A	8	48	
<b>VI</b>	<b>Total</b>	<b>24</b>			<b>186</b>	<b>7.75(186/ 24)</b>
	C11	06	A+	9	54	
	C12	06	A	8	48	
	DSE1	06	B+	7	42	
	DSE2	06	A	8	48	
	<b>Total</b>	<b>24</b>			<b>192</b>	<b>8.0(192/24)</b>
<b>CGPA</b>						
<b>Grand Total</b>	<b>164</b>				<b>1248</b>	<b>7.61(1248/ 164)</b>

Sample Calculation for CGPA:

<b>Semester I</b>	<b>Semester II</b>	<b>Semester III</b>	<b>Semester IV</b>	<b>Semester V</b>	<b>Semester VI</b>
Credit:26; SGPA:6.92	Credit:26; SGPA:6.76	Credit:32; SGPA: 8.75	Credit:32; SGPA: 7.31	Credit:24; SGPA: 7.75	Credit:24; SGPA:8.0

Thus, CGPA =  $(26 \times 6.92 + 26 \times 6.76 + 32 \times 8.75 + 32 \times 7.31 + 24 \times 7.75 + 24 \times 8.0) / 164 = 7.61$



**ST. XAVIER'S COLLEGE (AUTONOMOUS), RANCHI**  
(AN AUTONOMOUS COLLEGE AFFILIATED TO RANCHI UNIVERSITY)

**Names of Question Setters  
&  
Answer Book Evaluators  
for the Programme of**

**Bachelor of Vocation - B.Voc. (Fashion Technology)  
For the Academic Year - 2025 - 26**

**FOR BACHELOR OF VOCATION PROGRAMME (B.Voc.)  
AS PER RANCHI UNIVERSITY RULES & REGULATION**



Proposed Name of Question Setters and Evaluators for the Academic year 2025 - 26

<u>Semester - I</u>			
<b>C. No.</b>	<b>Subject Name</b>	<b>Question Setters</b>	<b>Answer Book Evaluators</b>
<b>Core I</b>	<b>Principles of Design &amp; Fashion Theory</b>	1. Prof. Komal Gakhar, (*VF) 2. Mr. Robert Ekka, Fashion Consultant, Luga Designs, Ranchi	1. Prof. Manisha Tirkey 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University
<b>Core-2</b>	<b>Introduction to Textile</b>	1. Prof. Manisha Tirkey 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi	1. Prof. Komal Gakhar (*VF) 2. Prof. Uma Rani, Asst. Professor, Dept. Fashion Design, Nirmala College, Ranchi
<b>GE 1 (A)</b>	<b>Introduction to Sketching</b>	1. Prof. Sumit Ritesh Kullu,(*VF) 2. Prof. Yameen Urfi (*VF)	1. Prof. Ajay Tirkey, (*VF) 2. Mrs. Daisy Sinha, Design Consultant, Pidilite Industries Pvt. Ltd.
<b>GE 1 (B)</b>	<b>Garment Construction Techniques – I</b>	1. Prof. Naseer Hussain, (*VF) 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University	1. Prof. Manisha Tirkey 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College
<b>AECC 1</b>	<b>English Communication</b>	1. Prof. Nikita Mukherjee (*VF) 2. Prof. Shubham Kumar (*VF)	1. Prof. Nidhi Arya 2. Prof. Khyati Munjal, (*VF)
<u>Semester - II</u>			
<b>Core 3</b>	<b>Traditional Art &amp; Surface Techniques</b>	1. Prof. Komal Gakhar, (*VF) 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College	1. Prof. Manisha Tirkey 2. Prof. Uma Rani, Asst. Professor, Dept. Fashion Design, Nirmala College, Ranchi
<b>Core 4</b>	<b>Material Exploration &amp; Craft Studies</b>	1. Prof. Manisha Tirkey 2. Prof. Ratna Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi	1. Prof. Komal Gakhar, (*VF) 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College
<b>GE 2 (A)</b>	<b>Fashion Illustration</b>	1. Prof. Sumit Ritesh Kullu,(*VF) 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi	1. Prof. Yameen Urfi (*VF) 2. Mrs. Daisy Sinha, Design Consultant, Pidilite Industries Pvt. Ltd.
<b>GE 2 (B)</b>	<b>Garment Construction Techniques – II</b>	1. Prof. Naseer Hussain, (*VF) 2. Prof. Sarwar Tirkey (*VF)	1. Prof. Manisha Tirkey 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University
<b>AECC 2</b>	<b>Environmental Studies</b>	1. Prof. Deepender Kumar Sinha 2. Dr. Anil Kumar, Professor, NIAMT, Ranchi	1. Dr. Pipas Kumar, Asst. Professor, Department of Environment Science, St. Xavier's College, Ranchi 2. Prof. Anupam, Professor, St. Columbia College, Hazaribagh

**Semester - III**

<b>Core 5</b>	<b>History of Fashion &amp; Art Movements</b>	1. Prof. Komal Gakhar (*VF) 2. Prof. Uma Rani, Asst. Professor, Dept. Fashion Design, Nirmala College, Ranchi	1. Prof. Manisha Tirkey 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi
<b>Core 6</b>	<b>Apparel Production Planning &amp; Control</b>	1. Prof. Sarwar Tirkey (*VF) 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University	1. Prof. Puneeta Bharti (*VF) 2. Prof. Uma Rani, Asst. Professor, Dept. Fashion Design Nirmala College, Ranchi
<b>Core 7</b>	<b>Fashion Marketing &amp; Merchandising</b>	1. Prof. Puneeta Bharti (*VF) 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University	1. Prof. Gautam Rudra 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College
<b>GE 3 (A)</b>	<b>Fashion CAD – I</b>	1. Prof. Manisha Tirkey 2. Prof. Ajay Tirkey, (*VF)	1. Prof. Sumit Ritesh Kullu (*VF) 2. Prof. Yameen Urifi (*VF)
<b>GE 3 (B)</b>	<b>Garment Construction Techniques – III</b>	1. Prof. Sarwar Tirkey, (*VF) 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University	1. Prof. Naseer Hussain (*VF) 2. Prof. Uma Rani, Asst. Professor Dept. Fashion Design, Nirmala College, Ranchi
<b>SEC 1</b>	<b>Research Methodology &amp; Quantitative Techniques</b>	1. Prof. Deepender Sinha 2. Dr. Anjani Kumar Singh, Dean. School of Engineering, YBN University, Ranchi	1. Prof. Hussain Ahmed 2. Dr. Anil Kumar, Professor NIFFT, Ranchi

**Semester - IV**

<b>Core 8</b>	<b>Visual Merchandising</b>	1. Prof. Puneeta Bharti, (*VF) 2. Prof. Astha Kiran, Asst. Professor, PG Fashion Designing, Ranchi University	1. Prof. Sarwar Tirkey, (*VF) 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi
<b>Core 9</b>	<b>Apparel Production &amp; Operation Management</b>	1. Prof. Sarwar Tirkey, (*VF) 2. Mr. Robert Ekka, Fashion Consultant, Luga Designs, Ranchi	1. Prof. Puneeta Bharti (*VF) 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University
<b>Core 10</b>	<b>Accessories Design</b>	1. Prof. Komal Gakhar, (*VF) 2. Prof. Uma Rani, Asst. Professor, Dept. Fashion Design, Nirmala College, Ranchi	1. Prof. Manisha Tirkey 2. Mr. Robert Ekka, Fashion Consultant, Luga Designs, Ranchi
<b>GE 4 (A)</b>	<b>Fashion CAD – II</b>	1. Prof. Manisha Tirkey 2. Prof. Ajay Tirkey, (*VF)	1. Prof. Sumit Ritesh Kullu, (*VF) 2. Prof. Yameen Urifi (*VF)
<b>GE 4 (B)</b>	<b>Garment Construction Techniques – IV</b>	1. Prof. Puneeta Bharti, (*VF) 2. Prof. Sarwar Tirkey (*VF)	1. Prof. Naseer Hussain (*VF) 2. Prof. Astha Kiran, Asst. Professor, PG Fashion Designing, Ranchi University
<b>SEC 2</b>	<b>Fashion Photography &amp; Portfolio Development</b>	1. Prof. Sumit Ritesh Kullu (*VF) 2. Prof. Ajay Tirkey, (*VF)	1. Prof. Sarwar Tirkey, (*VF) 2. Prof. Khyati Munjal, (*VF)

**Semester - V**

<b>Core 11</b>	<b>Draping</b>	1. Prof. Manisha Tirkey 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi	1. Prof. Puneeta Bharti, (*VF) 2. Prof. Ratna Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi
<b>Core 12</b>	<b>Apparel Costing</b>	1. Prof. Sarwar Tirkey, (*VF) 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University	1. Prof. Ekta Arya 2. Mr. Robert Ekka, Fashion Consultant, Luga Designs, Ranchi
<b>DSE 1</b>	<b>Fashion Retail &amp; Boutique Management</b>	1. Prof. Komal Gakhar, (*VF) 2. Prof. Ratna Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi	1. Prof. Puneeta Bharti, (*VF) 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi
<b>DSE 2</b>	<b>Garment Construction Techniques – V</b>	1. Prof. Naseer Hussain, (*VF) 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University	1. Prof. Puneeta Bharti, (*VF) 2. Prof. Astha Kiran, Asst. Professor, PG Fashion Designing, Ranchi University

**Semester - VI**

<b>Core 13</b>	<b>Apparel Exports and Documentation</b>	1. Prof. Sarwar Tirkey, (*VF) 2. Prof. Binay Singh Munda, Asst. Professor, PG Dept. of Fashion Design, Ranchi University	1. Prof. Puneeta Bharti, (*VF) 2. Prof. Astha Kiran, Asst. Professor, PG Fashion Designing, Ranchi University
<b>Core 14</b>	<b>Fashion Media and Event Management</b>	1. Prof. Komal Gakhar, (*VF) 2. Prof. Sarwar Tirkey, (*VF)	1. Prof. Puneeta Bharti, (*VF) 2. Prof. Harshita Sinha, Asst Professor, Dept. Fashion Design Ranchi Women's College, Ranchi
<b>DSE 3</b>	<b>Entrepreneurship Development</b>	1. Prof. Gautam Rudra, 2. Prof. Sarwar Tirkey, (*VF)	1. Prof. Puneeta Bharti, (*VF) 2. Prof. Fabian A. Tete
<b>DSE 4</b>	<b>On the Job Training</b>	1. Internal Professor 2. Internal Professor	1. External Experts 2. External Experts

**List of Regular Faculties mentioned for as Question Setters & Evaluators**

1. Prof. Gautam Rudra
2. Prof. Manisha Tirkey
3. Prof. Hussain Ahmed
4. Prof. Nidhi Arya
5. Prof. Ekta Arya
6. Prof. Fabian Tete
7. Prof. Dr. Kaushik Dutta
8. Prof. Dr. Shakil Anwar Siddique
9. Prof. Dr. Deepandra Kumar Sinha
10. Prof. Dr. Rakesh Kumar Dixit

**List of Visiting Faculties (\*VF) of the Department mentioned for as Question Setters & Evaluators**

1. Prof. Shubham Kumar
2. Prof. Komal Gakhar
3. Prof. Nikita Mukherjee
4. Prof. Khyati Munjal
5. Prof. Sarwar Tirkey
6. Prof. Puneeta Bharti
7. Prof. Ajay Tirkey
8. Prof. Sumit Ritesh Kullu
9. Prof. Nassir Hussain

