

B.Sc.,
FASHION TECHNOLOGY
AND COSTUME DESIGNING

SYLLABUS

FROM THE ACADEMIC YEAR
2023 - 2024

TAMILNADU STATE COUNCIL FOR HIGHER EDUCATION,
CHENNAI – 600 005

B.Sc., FASHION TECHNOLOGY AND COSTUME DESIGNING

Content

- 1. Introduction to the Programme**
- 2. Highlights of the Programme**
- 3. Programme Outcomes (PO) of UG Degree Programme**
- 4. Programme Specific Outcomes (PSO) of UG Degree Programme**
- 5. Teaching Methodologies (Common for both UG and PG)**
- 6. Template For Curriculum Design for UG Degree Programme**
- 7. Credit Distribution for UG Programme**
- 8. Consolidated Semester Wise and Component Wise Credit Distribution**
- 9. Method of Evaluation**

B.Sc., FASHION TECHNOLOGY AND COSTUME DESIGNING

| LEARNING OUTCOMES-BASED CURRICULUM FRAMEWORK GUIDELINES BASED REGULATIONS FOR UNDER GRADUATE PROGRAMME | |
|---|--|
| Programme: | B.Sc. Fashion Technology And Costume Designing |
| Programme Code: | |
| Duration: | 3 Years (UG) |
| Programme Outcomes: | <p>PO1: Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study</p> <p>PO2: Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.</p> <p>PO3: Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.</p> <p>PO4: Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.</p> <p>PO5: Analytical reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.</p> <p>PO6: Research-related skills: A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation</p> <p>PO7: Cooperation/Team work: Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team</p> <p>PO8: Scientific reasoning: Ability to analyse, interpret and draw conclusions</p> |

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| | <p>from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.</p> <p>PO9: Reflective thinking: Critical sensibility to lived experiences, with self awareness and reflexivity of both self and society.</p> <p>PO10 Information/digital literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.</p> <p>PO 11 Self-directed learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.</p> <p>PO 12 Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.</p> <p>PO 13: Moral and ethical awareness/reasoning: Ability to embrace moral/ethical values in conducting one’s life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one’s work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.</p> <p>PO 14: Leadership readiness/qualities: Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.</p> <p>PO 15: Lifelong learning: Ability to acquire knowledge and skills, including „learning how to learn“, that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill Development /re-skilling.</p> |
| <p>Programme Specific Outcomes:</p> | <p>On successful completion of Bachelor of Fashion Technology And Costume Designing programme, the student should be able to:</p> <p>PSO1: Disciplinary Knowledge: Understand the fundamental principles, concepts, and theories related to physics and computer science. Also, exhibit proficiency in performing experiments in the laboratory.</p> <p>PSO2: Critical Thinking: Analyse complex problems, evaluate information, synthesize information, apply theoretical concepts to practical situations, identify assumptions and biases, make informed decisions and communicate effectively</p> <p>PSO3: Problem Solving: Employ theoretical concepts and critical reasoning ability with physical, mathematical and technical skills to solve problems, acquire data, analyze their physical significance and explore new design possibilities.</p> <p>PSO4: Analytical & Scientific Reasoning: Apply scientific methods, collect and analyse data, test hypotheses, evaluate evidence, apply statistical techniques and</p> |

use computational models.

PSO5: Research related skills: Formulate research questions, conduct literature reviews, design and execute research studies, communicate research findings and collaborate in research projects.

PSO6: Self-directed & Lifelong Learning: Set learning goals, manage their own learning, reflect on their learning, adapt to new contexts, seek out new knowledge, collaborate with others and to continuously improve their skills and knowledge, through ongoing learning and professional development, and contribute to the growth and development of their field.

| PO/PSO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 |
|--------|------|------|------|------|------|------|
| PO1 | ✓ | | | | | |
| PO2 | | ✓ | | | | |
| PO3 | | | ✓ | | | |
| PO4 | | | | ✓ | | |
| PO5 | | | | | ✓ | |
| PO6 | | | | | | ✓ |

2. Highlights of the Revamped Curriculum:

- Student-centric, meeting the demands of industry & society, incorporating industrial components, hands-on training, skill enhancement modules, industrial project, project with viva-voce, exposure to entrepreneurial skills, training for competitive examinations, sustaining the quality of the core components and incorporating application oriented content wherever required.
- The Core subjects include latest developments in the education and scientific front, advanced programming packages allied with the discipline topics, practical training, devising statistical models and algorithms for providing solutions to industry / real life situations. The curriculum also facilitates peer learning with advanced statistical topics in the final semester, catering to the needs of stakeholders with research aptitude.
- The General Studies and Statistics based problem solving skills are included as mandatory components in the 'Training for Competitive Examinations' course at the final semester, a first of its kind.
- The curriculum is designed so as to strengthen the Industry-Academia interface and provide more job opportunities for the students.
- The Statistical Quality Control course is included to expose the students to real life problems and train the students on designing a mathematical model to provide solutions to the industrial problems.
- The Internship during the second year vacation will help the students gain valuable work experience, that connects classroom knowledge to real world experience and to narrow down and focus on the career path.
- Project with viva-voce component in the fifth semester enables the student, application of conceptual knowledge to practical situations. The state of art technologies in conducting a Explain in a scientific and systematic way and arriving at a precise solution is ensured. Such innovative provisions of the industrial training, project and internships will give students an edge over the counterparts in the job market.
- State-of Art techniques from the streams of multi-disciplinary, cross disciplinary and inter disciplinary nature are incorporated as Elective courses, covering conventional topics to the latest DBMS and Computer software for Analytics.

Value additions in the Revamped Curriculum:

| Semester | Newly introduced Components | Outcome / Benefits |
|-----------------|---|--|
| I | <p>Foundation Course To ease the transition of learning from higher secondary to higher education, providing an overview of the pedagogy of learning Literature and analysing the world through the literary lens gives rise to a new perspective.</p> | <ul style="list-style-type: none"> ➤ Instill confidence among students ➤ Create interest for the subject |
| I, II, III, IV | <p>Skill Enhancement papers (Discipline centric / Generic / Entrepreneurial)</p> | <ul style="list-style-type: none"> ➤ Industry ready graduates ➤ Skilled human resource ➤ Students are equipped with essential skills to make them employable ➤ Training on language and communication skills enable the students gain knowledge and exposure in the competitive world. ➤ Discipline centric skill will improve the Technical knowhow of solving real life problems. |
| III, IV, V & VI | <p>Elective papers</p> | <ul style="list-style-type: none"> ➤ Strengthening the domain knowledge ➤ Introducing the stakeholders to the State-of Art techniques from the streams of multi-disciplinary, cross disciplinary and inter disciplinary nature ➤ Emerging topics in higher education/ industry/ communication network / health sector, etc. are introduced with hands-on-training. |

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|---|-----------------|---|
| IV | Elective Papers | <ul style="list-style-type: none"> ➤ Exposure to industry moulds students into solution providers ➤ Generates Industry ready graduates ➤ Employment opportunities enhanced |
| V Semester | Elective papers | <ul style="list-style-type: none"> ➤ Self-learning is enhanced ➤ Application of the concept to real situation is conceived resulting in tangible outcome |
| VI Semester | Elective papers | <ul style="list-style-type: none"> ➤ Enriches the study beyond the course. ➤ Developing a research framework and presenting their independent and Intellectual ideas effectively. |
| Extra Credits: For Advanced Learners / Honors degree | | <ul style="list-style-type: none"> ➤ To cater to the needs of peer learners / research aspirants |
| Skills acquired from the Courses | | Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill |

ALAGAPPA UNIVERSITY, KARAIKUDI
NEW SYLLABUS UNDER CBCS PATTERN (w.e.f.2023-24)
FASHION TECHNOLOGY AND COSTUME DESIGNING
UG– Science-PROGRAMME STRUCTURE

| Sem. | Part | Course Code | Title of the Paper | T/P | Cr. | Hrs. Week | Max. Marks | | | |
|--------------|--------------------|--|---|--|-----------|-----------|------------|------------|------------|-----|
| | | | | | | | Int. | Ext. | Total | |
| I | I | 2311T | T/OL | தமிழ் இலக்கிய வரலாறு-I /Other Languages -I | T | 3 | 6 | 25 | 75 | 100 |
| | II | 2312E | E | General English - I | T | 3 | 6 | 25 | 75 | 100 |
| | III | 23BFC1C1 | CC-I | Fiber to Fabric | T | 4 | 5 | 25 | 75 | 100 |
| | | 23BFC1C2 | CC-II | Fashion Designing | T | 4 | 4 | 25 | 75 | 100 |
| | | 23BFCA1 | Generic Elective (Allied) | Allied – I Care and Maintenance of Textiles | T | 3 | 3 | 25 | 75 | 100 |
| | 23BFCAP1 | Allied Lab- Care and Maintenance of Textiles | | P | 2 | 2 | 25 | 75 | 100 | |
| | IV | 23BFC1SP | SEC -I | Fashion Sketching Practical | P | 2 | 2 | 25 | 75 | 100 |
| | | 23BFC1FP | Foundatio n Course- | Fashion Designing Practical | P | 2 | 2 | 25 | 75 | 100 |
| Total | | | | | 23 | 30 | 200 | 600 | 800 | |
| II | I | 2321T | T/OL | தமிழ் இலக்கிய வரலாறு-2 /Other Languages-II | T | 3 | 6 | 25 | 75 | 100 |
| | II | 2322E | E | General English - II | T | 3 | 6 | 25 | 75 | 100 |
| | III | 23BFC2C1 | CC-III | Basics of Garment construction | T | 4 | 5 | 25 | 75 | 100 |
| | | 23BFC2P1 | CC-IV | Basics of Garment Construction Practical | P | 4 | 4 | 25 | 75 | 100 |
| | | 23BFCA2 | Generic Elective (Allied) | Allied - II Home Textiles | T | 3 | 3 | 25 | 75 | 100 |
| | | 23BFCAP2 | | Allied Lab- Home Textiles Practical. | P | 2 | 2 | 25 | 75 | 100 |
| | IV | 23BFC2S1 | SEC -II | Basics of Cosmetology | T | 2 | 2 | 25 | 75 | 100 |
| | | 23BFC2SP | SEC-III | Surface Embellishment Practical | P | 2 | 2 | 25 | 75 | 100 |
| | -- | | Naan Mudhalvan Course | | | | | | | |
| Total | | | | | 23 | 30 | 200 | 600 | 800 | |
| III | I | 2331T | T/OL | தமிழக வரலாறும் பண்பாடும் /Other Languages-III | T | 3 | 6 | 25 | 75 | 100 |
| | II | 2332E | E | General English – III | T | 3 | 6 | 25 | 75 | 100 |
| | III | 23BFC3C1 | CC-V | Organisation of Garment unit | T | 4 | 5 | 25 | 75 | 100 |
| | | 23BFC3P1 | CC-VI | Garment Construction - Children's wear Practical | P | 4 | 4 | 25 | 75 | 100 |
| | | 23BFCA3 | Generic Elective (Allied) | Allied – III Fabric Structure and Design | T | 3 | 3 | 25 | 75 | 100 |
| | | 23BFCAP3 | | Allied Lab Fabric Structure and Design Practical | P | 2 | 2 | 25 | 75 | 100 |
| | 23BFC3S1 | SEC-IV | Business start up | T | 2 | 2 | 25 | 75 | 100 | |
| IV | 233AT/ 23BFC3SP | SEC-V | Adipadai Tamil / Ornaments and Accessory making Practical | T/P | 2 | 2 | 25 | 75 | 100 | |
| | | | Naan Mudhalvan Course | | | | | | | |
| Total | | | | | 23 | 30 | 200 | 600 | 800 | |

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|----|-----|--------------------|---------------------------|--|-----------|-----------|------------|------------|------------|-----|
| IV | I | 2341T | T/OL | தமிழும் அறிவியலும் /Other Languages -IV | T | 3 | 6 | 25 | 75 | 100 |
| | II | 2342E | E | General English – IV | T | 3 | 6 | 25 | 75 | 100 |
| | III | 23BFC4C1 | CC-VII | Industrial Garment Machineries | T | 4 | 4 | 25 | 75 | 100 |
| | | 23BFC4P1 | CC-VIII | Garment Construction -Adult Wear Practical | P | 3 | 3 | 25 | 75 | 100 |
| | | 23BFCA4 | Generic Elective (Allied) | Allied – IV- Textile Wet Processing | T | 3 | 3 | 25 | 75 | 100 |
| | | 23BFCAP4 | | Allied Lab- Textile Wet Processing- practical | P | 2 | 2 | 25 | 75 | 100 |
| | IV | 23BFC4S1 | SEC-VI | Marketing and Merchandising | T | 2 | 2 | 25 | 75 | 100 |
| | | 234AT/ 23BFC4SP | SEC-VII | Adipadai Tamil/ Computer Aided Design Practical | T/P | 2 | 2 | 25 | 75 | 100 |
| | | 23BES4 | E.V.S | Environmental Science | T | 2 | 2 | 25 | 75 | 100 |
| | | -- | | Naan Mudhalvan Course | | | | | | |
| | | | Total | | 24 | 30 | 225 | 675 | 900 | |

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|----|--------|-----------------------------------|-----------------------|--|----|------------|-----------|-------------|-------------|-------------|
| V | III | 23BFC5C1 | CC-IX | Costumes and Textiles of India | T | 4 | 5 | 25 | 75 | 100 |
| | | 23BFC5C2 | CC-X | Garment Quality and Cost Control | T | 4 | 5 | 25 | 75 | 100 |
| | | 23BFC5C3 | CC-XI | Textile Testing | T | 4 | 5 | 25 | 75 | 100 |
| | | 23BFC5P1 | CC-XII | Textile Testing - Practical | P | 4 | 5 | 25 | 75 | 100 |
| | | 23BFC5E1 | DSE-I | Apparel Brand management | T | 3 | 4 | 25 | 75 | 100 |
| | | 23BFC5EP | DSE-II | Fashion Photography Practical | P | 3 | 4 | 25 | 75 | 100 |
| | IV | 23BVE5 | | Value Education | T | 2 | 2 | 25 | 75 | 100 |
| | | 23BFC5I/ 23BFC5IV/ 23BFC5FV | | Internship/Industrial Visit/ Field Visit | PR | 2 | - | 25 | 75 | 100 |
| | | -- | | Naan Mudhalvan Course | | | | | | |
| | | | | Total | | 26 | 30 | 200 | 600 | 800 |
| VI | III | 23BFC6C1 | CC-XIII | The Business of Fashion | T | 4 | 6 | 25 | 75 | 100 |
| | | 23BFC6D | CC-XIV | Dissertation | PR | 8 | 12 | 50 | 150 | 200 |
| | | 23BFC6E1 | DSE-III | Technical Textiles | T | 3 | 5 | 25 | 75 | 100 |
| | | 23BFC6EP | DSE-IV | Design process and product development Practical | P | 3 | 5 | 25 | 75 | 100 |
| | IV | 23BFC6S1 | | Essential Reasoning and Quantitative Aptitude | T | 2 | 2 | 25 | 75 | 100 |
| V | 23BEA6 | | Extension Activity | P | 1 | - | 25 | 75 | 100 | |
| | -- | | Naan Mudhalvan Course | | | | | | | |
| | | | | Total | | 21 | 30 | 175 | 525 | 600 |
| | | | | Grand Total | | 140 | -- | 1200 | 3600 | 4800 |

- TOL-Tamil/Other Languages,
- E – English
- CC-Core course
- Generic Elective (Allied)
- SEC-Skill Enhancement Course
- FC-Foundation Course
- DSE – Discipline Specific Elective

SEMESTER I

| Course code | 23BFC1C1 | FIBER TO FABRIC | | L | T | P | C |
|---|--|---|--|---|---|-----------------|---|
| Core 1 | | | | 5 | T | - | 4 |
| Pre-requisite | | Basic knowledge in textile science | | | | | |
| Course Objectives: | | | | | | | |
| The main objectives of this course are to: | | | | | | | |
| <ol style="list-style-type: none"> 1. Impart knowledge on the manufacturing process of fabric from the fiber 2. Teach the methods and techniques involved in the fibre, yarn and fabric manufacturing process 3. Know the trends and technologies followed in the textile industry | | | | | | | |
| Expected Course Outcomes: | | | | | | | |
| On successful completion of the course, student will be able to: | | | | | | | |
| CO1 | Classify fibers and understand the manufacturing and properties of natural fibers | | | | | K2 | |
| CO2 | Discover the manufacturing process of man made fiber | | | | | K3 | |
| CO3 | Understand the yarn types and its manufacturing process | | | | | K2 | |
| CO4 | Describe the weaving methods and its characteristic features | | | | | K1 | |
| CO5 | Gain an understanding of knitting and non wovens | | | | | K4 | |
| K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create | | | | | | | |
| Unit:1 | Fiber Classification, Natural fibers: Introduction to Textiles Fibers – classification of fibers–primary and secondary characteristics of Textile Fibers, manufacturing process, properties and uses of natural fibers–cotton, linen, Jute, silk, wool. Brief Study about Organic Cotton, woolen and worsted yarn, types of silk. | | | | | 15hours | |
| Unit:2 | Regenerated and synthetic fibers: Manufacturing process, properties, and uses of man-made fibers–Viscose rayon, nylon, polyester, acrylic. Brief study on polymerization, bamboo, spandex, Microfibers & its properties. Texturization: Objectives, Types of textured yarns & Methods of texturization. | | | | | 15hours | |
| Unit:3 | Yarn manufacturing: Spinning Definition and classification; Chemical and mechanical spinning; Cotton Yarn Production sequence and objectives- opening, cleaning, doubling, carding, combing, drawing, roving, spinning. Comparison of carded and combed yarn. Yarn- Definition and classification- simple and fancy yarns. Manufacturing Process of sewing threads–Cotton and synthetic. Yarn numbering systems- Significance of yarn twist | | | | | 15hours | |
| Unit:4 | Weaving Mechanism: Classification of fabric forming methods – Weaving preparatory processes and its objectives – Warping, Sizing and drawing–in Weaving mechanism- Primary, secondary & auxiliary motions of a loom. Parts and functions of a simple loom; Classification of looms, Salient features of automatic looms; Shuttle looms, Its Advantages - Types of shuttle less looms– Ravier – Projectile– Air jet– Water jet. | | | | | 15hours | |
| Unit:5 | Knitting and Non-Woven Fabrics: Knitting- Definition, classification, Principles of weft and warp knitting – Terms of weft knitting. Knitting machine elements. Classification of knitting machines. Characteristics of basic weft knit structures Introduction to Non-Wovens- Application and uses | | | | | 15hours | |
| Total Lecture hours | | | | | | 75 hours | |

| Text Books | |
|---|---|
| 1 | Handbook of Technical Textiles Volume I- Edited by A R Horrocks and S C Anand, Wood head publishing Ltd, England, 2016. |
| 2 | Handbook of Technical Textiles- Edited by A R Horrocks and S C Anand, Wood Head publishing Ltd, England, 2000. |
| 3 | Handbook of Technical Textiles, Volume 2: Technical Textile Applications – Edited by A. Richard Horrocks and Subhash C. Anand, Wood Head publishing Ltd, England, 2016. |
| Text Books | |
| 1 | Textile Mechanisms in Spinning and Weaving Machines, Ganapathy Nagarajan, Woodhead Publishing India in Textiles,2014. |
| 2 | Mechanisms of Flat Weaving Technology, Elena V, Chepelyuk, Palitha Bandaraand Valeriy VChoogin; Woodhead Publishing series in Textiles, 2013. |
| 3 | Hand book of fiber science and Technology, Menachem Lewin and Stephen B Sello, Marcel Dekker, Inc, NewYork,1984. |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
| 1 | http://textilefashionstudy.com |
| 2 | https://fashion2apparel.blogspot.com/2017/07/classification-loom.html |
| 3 | https://www.inda.org/about-nonwovens/ |

| COs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | L | M | S | S | S | L |
| CO2 | M | M | S | S | S | L |
| CO3 | L | M | M | S | S | M |
| CO4 | M | S | S | S | S | M |
| CO5 | M | M | M | S | S | M |

*S-Strong; M-Medium; L-Low

| | | | | | | | |
|--|---|--------------------------|--|----------|----------|-----------------|----------|
| Course code | 23BFC1C2 | FASHION DESIGNING | | L | T | P | C |
| Core II | | | | 4 | T | - | 4 |
| Pre-requisite | Basic knowledge in designing | | | | | | |
| Course Objectives: | | | | | | | |
| The main objectives of this course are to: | | | | | | | |
| <ol style="list-style-type: none"> 1. Impart knowledge on design concepts in the field of fashion 2. Familiarize with the fashion cycles, consumers and theories 3. Design suitable garments for unusual figure types | | | | | | | |
| Expected Course Outcomes: | | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | | |
| CO1 | Understand the design types, elements and principles of design | | | | | K2 | |
| CO2 | Appraise the colour combinations with standard colour harmonies | | | | | K5 | |
| CO3 | Interpret the fashion cycles, consumer groups and fashion theories | | | | | K2 | |
| CO4 | Develop dress design for unusual figure types | | | | | K6 | |
| CO5 | Define and describe the fashion terminologies and fashion profiles | | | | | K1 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | | |
| Unit 1 | Design Elements and Principles: Design- definition and types – structural and decorative design, requirements of a good structural and decorative design in dress, elements of design and its application in dress – line, shape or form, colour and texture. Principles of design and its application in dress – balance, rhythm, emphasis, harmony and proportion. | | | | | 15 hours | |
| Unit:2 | Standard Colour Harmonies: Colour theories; Prang colour chart, Dimensions of colour- hue, value, and intensity. Standard colour harmonies- Related, Contrasting and Neutral colour harmony; Application of Colour in principles of design- application of the same in dress design. | | | | | 15hours | |
| Unit:3 | Fashion Evolution and Fashion Forecasting: Fashion evolution– Fashion cycles, Length of cycles, consumer groups in fashion cycles– fashion leaders, fashion innovators, fashion motivation, fashion victim, Fashion followers. Adoption of Fashion theories–Trickle down, trickle up and trickle across. Fashion forecasting– Need for forecasting | | | | | 15hours | |
| Unit:4 | Designing Dresses for Unusual Figures: Deigning dresses for unusual figures – becoming and unbecoming – for the following figure types. Stout figure, thin figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, large face ,small face, prominent chin and jaw, prominent forehead | | | | | 15hours | |
| Unit:5 | Fashion Terminologies and Fashion Profiles: Definition and meaning of the fashion terms– fashion, style, line and collection, Mannequin and dress forms; fashion show; high fashion; Haute couture, couture and couturier; knock-off; Avant Garde; Pret-a-porter. Role/qualities of a Fashion Designer, Fashion Stylist, Fashion Journalist, Fashion Merchandiser, Fashion Director. | | | | | 15hours | |

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|---|---|-----------------|
| | Total Lecture hours | 75 hours |
| Text Books | | |
| 1 | Fashion Sketch Book–Bina Abling, Fair Child Publications, NewYork Wardrobe,1988. | |
| 2 | Artand Fashion in Clothing Selection– Mc Jimsey and Harriet, Iowa State University Press, Jowa 1973. | |
| Reference Books | | |
| 1 | Fashion From Concept to Consumer– Frings Gini Stephens, Pears on Education, US, 1998. | |
| 2 | Inside the Fashion Business –Kitty G.Dickerson, Pearson Education, US, 2007. | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | |
| 1 | https://www.apparesearch.com/terms/index.htm | |
| 2 | https://www.instyle.com/fashion | |
| 3 | https://prezi.com/1tlwgnhviqs-/fashion-elements-and-principles-of-design/ | |

| COs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|-----|-----|-----|-----|-----|-----|-----|
| CO1 | M | S | M | L | M | S |
| CO2 | M | S | M | L | M | S |
| CO3 | M | S | M | L | M | S |
| CO4 | M | S | M | L | M | S |
| CO5 | M | S | M | L | M | S |

| | | | | | | |
|---|--|------------------------------------|----------|----------|----------|---------------|
| Course code | 23BFC1SP | FASHION SKETCHING PRACTICAL | L | T | P | C |
| Skill Enhancement Course - 1 | | | - | | 2 | 2 |
| Pre-requisite | Basic drawing skills | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| <ol style="list-style-type: none"> 1. Impart skills in drawing and colouring. 2. Illustrate garment sketches for children, women, and men. 3. Create sketches of different parts of a human body in different perspectives | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Illustrate garment designs for children | | | | | K4 |
| CO2 | Illustrate garment designs for women | | | | | K4 |
| CO3 | Illustrate garment designs for men | | | | | K4 |
| CO4 | Sketch the parts of the body in various perspectives | | | | | K3 |
| CO5 | Sketch different views of male and female face | | | | | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| 1.Illustrate the Following in Different Perspectives | | | | | | 6hours |
| Instructions–Create for male and female | | | | | | |
| <ul style="list-style-type: none"> • Eyes • Ears • Nose • Lips • Hairstyles • Arms • Legs | | | | | | |
| 2.Sketch the face of male and female in different views | | | | | | 6hours |
| <ul style="list-style-type: none"> • Front view • Three quarter turned view • Profile view (side view) | | | | | | |
| 3.Illustrate the Following Children’s Garments | | | | | | 6hours |
| Instructions–Create designs and Colour us in any medium; Give details | | | | | | |
| <ul style="list-style-type: none"> • Bib • Jabla with knicker • Baba suit • Frocks | | | | | | |
| 4.Illustrate the Following Women’s Garments | | | | | | 6hours |
| Instructions–Create designs; Colour us in any medium; Give details | | | | | | |
| <ul style="list-style-type: none"> • Skirts • Ladies tops • Salwar | | | | | | |

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| <ul style="list-style-type: none"> • Kameez • Maxi/ Gown • Dungarees | |
| 5.Illustrate the Following Men’s Garments | |
| 6hours | |
| Instructions –Create designs; Colour us in any medium; Give details <ul style="list-style-type: none"> • T-Shirts • Shirts • Pants • Kurta • Pyjama | |
| Total Lecture hours | |
| 30 hours | |
| Text Books | |
| 1 | Fashion Design Drawing and Presentation, Ireland Patrick John, Pavilion Books, 1982. |
| 2 | Fashion Design Illustration: Children, Ireland Patrick John,BT Batsford Ltd,1995. |
| 3 | Fashion Design Illustration: fasMen, Ireland Patrick John, BT Batsford Ltd, 1996. |
| Reference Books | |
| 1 | Fashion Illustration, Kiper Anna, David& Charles, 2011. ISBN:9780715336182. |
| 2 | Foundation in fashion design and illustration–Julian Seaman, Batsford Publishers,2001. |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
| 1 | https://www.idrawfashion.com/ |
| 2 | https://www.fashionistasketch.com/drawing-faces-fashion-illustration/ |
| 3 | https://in.pinterest.com/pin/458804280762797371/ |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | S | M | S | L | M |
| CO2 | S | S | M | S | L | M |
| CO3 | S | S | M | S | L | M |
| CO4 | S | S | M | S | L | M |
| CO5 | S | S | M | S | L | M |

*S-Strong; M-Medium; L-Low

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|--|--|------------------------------------|----------|----------|---------------|----------|
| Course code | 23BFC1FC | FASHION DESIGNING PRACTICAL | L | T | P | C |
| Skill Enhancement Foundation Course | | | - | - | 2 | 2 |
| Pre-requisite | Knowledge in Fashion Sketching | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| <ol style="list-style-type: none"> 1. Familiar with the elements and principles of design. 2. Play with colours following the standard colour harmonies. 3. Create garment design for various seasons on fashion figures. | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Develop Prang colour chart, value and intensity chart | | | | K6 | |
| CO2 | Illustrate human figures- child, women and men | | | | K4 | |
| CO3 | Sketch garment designs following the various elements of design | | | | K3 | |
| CO4 | Apply the principles of design and colour harmonies in garments design | | | | K3 | |
| CO5 | Create garment designs for various seasons | | | | K6 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| 1.Prepare the following Charts | | | | | 5hours | |
| <ul style="list-style-type: none"> • Prang colour chart, • Value chart • Intensity chart | | | | | | |
| 2.Illustrate Human Figure for the Following Heads | | | | | 5hours | |
| <ul style="list-style-type: none"> • Child - 6 head. • Women – 8 head, 10 head and 12 head. • Man –10head | | | | | | |
| 3.Illustrate Garment Designs for the Elements of Design | | | | | 5hours | |
| <ul style="list-style-type: none"> • Line • Texture • Shape | | | | | | |
| 4.Illustrate Garment Designs for the Principles of Design | | | | | 5hours | |
| <ul style="list-style-type: none"> • Balance (Formal and Informal) • Harmony • Emphasis • Proportion • Rhythm(by Repetition, Gradation and Line Movement) | | | | | | |

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| 5. Illustrate the Colour Harmony in Dress Design | | 5 hours |
| <ul style="list-style-type: none"> • Monochromatic • Analogous • Complimentary • Double complementary • Split complementary | | |
| <ul style="list-style-type: none"> • Triad • Neutral | | |
| 6. Create Garments for the Following Seasons | | 5 hours |
| <ul style="list-style-type: none"> • Summer • Winter • Autumn • Spring | | |
| Total Lecture hours | | 30 hours |
| Text Books | | |
| 1 | Fashion Sketch Book, Bina Abling, Fair Child Publications, New York Wardrobe, 1988. | |
| 2 | Illustrating Fashion, Kathryn Mc Kelvey and Janine Munslow, Black well Science, 1997. | |
| Reference Books | | |
| 1 | Art and Fashion in Clothing Selection, Mc Jimsey and Harriet, Iowa State University Press, Iowa, 1973. | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | |
| 1 | https://www.idrawfashion.com/ | |
| 2 | https://www.fashionistasketch.com/drawing-faces-fashion-illustration/ | |
| 3 | https://in.pinterest.com/pin/458804280762797371/ | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | S | M | S | L | M |
| CO2 | S | S | M | S | L | M |
| CO3 | S | S | M | S | L | M |
| CO4 | S | S | M | S | L | M |
| CO5 | S | S | M | S | L | M |

*S-Strong; M-Medium; L-Low

Semester II

| | | | | | | |
|--|--|---|----------|----------|----------|-----------------|
| Course code | 23BFC2C1 | BASICS OF GARMENT CONSTRUCTION | L | T | P | C |
| Core III | | | 5 | - | - | 4 |
| Pre-requisite | | Basic knowledge about garment components | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| 1. Teach the basics of the functions of the sewing machine and the essential tools | | | | | | |
| 2. Explain the techniques of pattern making, grading and alteration | | | | | | |
| 3. Understand the types of sleeves, yokes and collars | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Describe the functions of a sewing machine and the tools needed for sewing | | | | | K2 |
| CO2 | Compare the methods of preparing pattern | | | | | K2 |
| CO3 | Appraise the types of sleeve | | | | | K4 |
| CO4 | Analyze the types of collars and yokes | | | | | K4 |
| CO5 | Appraise the techniques in pattern layout, alteration and grading | | | | | K5 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | Essentials of Sewing | | | | | 15 hours |
| Parts and functions of a single needle machine, essential tools – cutting tools, measuring tools, marking tools, embroidery tools, general tools, pressing tools, Body measurement – importance, Method of taking measurements for ladies and men. Measurements required for women’s salwar and kameez. Measurements required for men’s shirt and Pant. | | | | | | |
| Unit:2 | Pattern Making and Fitting | | | | | 15 hours |
| Pattern Making – Types; Drafting, Draping and Commercial Patterns; Advantages and Limitations. Methods of transferring pattern markings; Grain – Importance, its types; Fitting - Standards of a good fit | | | | | | |
| Unit:3 | Sleeve and Its Types | | | | | 15 hours |
| Sleeves – definition, types, set-in-sleeves – plain sleeve, puff sleeve, bishop sleeve, bell, circular. Modified armhole – squared armhole. cap sleeve and Magyar sleeve. Sleeve and bodice combined – raglan, kimono and dolman | | | | | | |
| Unit:4 | Types of Collars and Yokes | | | | | 15 hours |
| Collars – definitions, types, peter pan, scalloped, puritan, sailor, square, rippled, full shirt collar, open collar, Chinese, turtle neck, shawl collar Yokes – types, simple yoke, yoke with fullness within the yoke, yoke supporting/ releasing fullness. | | | | | | |
| Unit:5 | Pattern Alteration, Layout and Grading | | | | | 15 hours |
| Pattern alteration – importance of altering patterns, general principles for pattern alteration, common pattern alteration in a blouse. Pattern layout - definition, purpose, rules in layout, types of layouts Pattern grading (manual) – definition, basic front, basic back basic sleeve | | | | | | |

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|---|---|-----------------|
| | Total Lecture hours | 75 hours |
| Text Books | | |
| 1 | Practical Clothing Construction – Part I, Mary Mathews, Cosmic Press, Chennai ,1986. | |
| 2 | Practical Clothing Construction – Part II, Mary Mathews, Cosmic Press, Chennai ,1986. | |
| 3 | Zarapker system of cutting –Zarapker. K. R., Navneet publications Ltd ,1994. | |
| Reference Books | | |
| 1 | Pattern Grading for Women’s clothing, The technology of sizing, Gerry Cooklin, Blackwell Science Ltd ,1990. | |
| 2 | Sewing and Knitting – A Readers Digest, Step -by -Step Guide, Readers Digest Pvt Ltd, Australia,1993. | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | |
| 1 | http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827 | |
| 2 | https://fashion2apparel.blogspot.com/2017/03/pattern-grading-methods-apparel.html | |
| 3 | https://textilelearner.blogspot.com/2014/10/a-focus-on-garments-fitting.html | |
| 4 | https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | M | M | S | L | M |
| CO2 | S | M | M | M | L | L |
| CO3 | S | S | S | M | L | M |
| CO4 | S | S | S | M | L | M |
| CO5 | S | M | M | S | L | L |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|---|---|---|----------|----------|----------------|----------------|
| Course code | 23BFC2P1 | BASICS OF GARMENT CONSTRUCTION PRACTICAL | L | T | P | C |
| Core IV | | | - | - | 4 | 4 |
| Pre-requisite | Basic knowledge in garment construction | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to create: | | | | | | |
| <ol style="list-style-type: none"> 1. Impart sewing skills in creating garment components. 2. Develop miniature patterns for skirts, sleeves, collars and yoke. 3. Create miniature samples for skirts, sleeves, collars and yoke | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Develop samples for seams, seam finishes and hems | | | | K6 | |
| CO2 | Create samples for fullness and neckline finishes | | | | K6 | |
| CO3 | Create samples for plackets fasteners and pockets | | | | K6 | |
| CO4 | Construct miniature samples for skirt and sleeves | | | | K6 | |
| CO5 | Construct miniature samples for collars and yoke | | | | K6 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| 1.Preparation Samples for the Following | | | | | | 35hours |
| <ol style="list-style-type: none"> 1. Seams–Plainseam,topstitchedseam,flatfellseam,pipedseam,lappedseam 2. Seam Finishes–double stitch, edge stitched, over lock(optional) 3. Hems–narrow, stitched and turned, hems for circular shape 4. Darts –single and double 5. Tucks–Pin tuck, cross tuck, group tucking 6. Neckline Finishes–Bias facing, Bias binding and Shaped facing 7. Plackets–continuousplacket,boundplacketandfacedplacket,zipperplacket,tailoredplacket 8. Fasteners–Press buttons, Hook and eye, Button and Buttonhole 9. Pocket–Patch pocket, side seam pocket, bound and faced pocket | | | | | | |
| 2.Prepare Miniature Samples for the following | | | | | | 40hours |
| <ol style="list-style-type: none"> 1. Skirt–pleated skirt, gathered skirt, circular skirt 2. Sleeve–Plain sleeve, Magyar Sleeve, Raglan Sleeve 3. Collar-Flat collar(any type),Open collar 4. Simple Yoke | | | | | | |
| Total Lecture hours | | | | | 75hours | |
| Text Books | | | | | | |
| 1 | Practical Clothing Construction–PartI, Mary Mathews, Cosmic Press, Chennai, 1986. | | | | | |
| 2 | Practical Clothing Construction–PartII, Mary Mathews, Cosmic Press, Chennai, 1986. | | | | | |
| 3 | Zarapker system of cutting–Zarapker.K.R., Navneet publicationsLtd,1994. | | | | | |
| Reference Books | | | | | | |
| 1 | Sewing and Knitting–A Readers Digest, Step-by-Step Guide, Readers Digest Pv tLtd, Australia,1993. | | | | | |

| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
|---|---|
| 1 | http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827 |
| 2 | https://fashion2apparel.blogspot.com/2017/03/pattern-grading-methods-apparel.html |
| 3 | https://textilelearner.blogspot.com/2014/10/a-focus-on-garments-fitting.html |
| 4 | https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making |
| | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | L | M | M | M | M |
| CO2 | S | L | M | M | M | M |
| CO3 | S | L | M | M | M | M |
| CO4 | S | L | M | M | M | M |
| CO5 | S | L | M | M | M | M |

*S-Strong; M-Medium; L-Low

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|---|--|------------------------------|----------|----------|----------------------------|-----------------|
| Course code | 23BFC2S1 | BASICS OF COSMETOLOGY | L | T | P | C |
| Skill Enhancement Course – II | | | 2 | - | - | 2 |
| Pre-requisite | Basic knowledge about personal care | | | | | |
| Course Objectives: | | | | | | |
| <ol style="list-style-type: none"> 1. To gain knowledge about personal grooming 2. To enable the student to develop knowledge in dressing, make up to the Etiquettes. 3. To help them to understand and apply the procedures for different personalities | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Importance of cosmetology | | | | | K1 |
| CO2 | Understand Equipment used for pedicure, basic pedicure technique | | | | | K2 |
| CO3 | Be aware of Equipment and techniques used for Manicure | | | | | K2 |
| CO4 | Analyze skin and hair | | | | | K3 |
| CO5 | Apply face make up | | | | | K4 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | Cosmetology – An Introduction | | | | | 12hours |
| Cosmetology–Introduction, Definition, and its importance-difference between beautician and cosmetologist -features of a cosmetologist –Types and application- Self- grooming–definition and its importance. | | | | | | |
| Unit:2 | Pedicure | | | | | 12hours |
| Pedicure, definition, need for pedicure, tools and equipment used for pedicure, step by-step procedure of pedicure-, pedicure technique– benefits – difference between spa and regular pedicure- Pedicure safety. | | | | | | |
| Unit:3 | Manicure | | | | | 12hours |
| Manicure- equipment used for Manicure, Types- French, hot oil, dip power manicures-Paraffin wax treatments -shaping of nails, removal of the cuticles, Mehandi- Classical, Arabic, Glitter, Painting and Nail Art- Nail Care. | | | | | | |
| Unit:4 | Skin and hair | | | | | 12 hours |
| Structure and function of skin, Skin types, skin tones, tips for skin care and steps in basic facial. Care for skin and hair-Basic Hairstyles: Knotted style - Rolling style – Plaited style-Basic structure of skin and hair, Products available, skin and hair care, makeup for face and hairdo styles. | | | | | | |
| Unit:5 | Face make up | | | | | 12hours |
| Face makeup -meaning, makeup application, Make- up types, shape and colour of Hair, hair care and hairstyles for occasion. Basic Haircuts-Straight Trimming, “U”-cut and “V”– Cut. | | | | | | |
| | | | | | Total Lecture hours | 60 hours |

| Text Books | |
|---|---|
| 1 | Dr. Neena Khanna, Body and Beauty Care, Pustak Mahal Publishers (2011). |
| 2 | Rashmi Sharma, Herbal Beauty & Body Care. Pustak Mahal Publishers(2011). |
| 3 | Richa Dave, Make-up Album, Navneet Publication (2006). |
| Reference Books | |
| 1 | Catherine M. Frangie. Milady, Standard Cosmetology, Milady Publishing Company.(2014). |
| 2 | Roshini Dayal, Natural Beauty Secrets from India, Tata Publishing Enterprises. LLC,(2008). |
| 3 | P.J.Fitzgerald., The complete book of Hairstyling, Mansoor bookhouse,(2003). Trinny woodwall, Sunnall constantive, |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
| 1 | https://www.pharmacistdunia.com/2018/07/introduction-to-cosmetology.html |
| 2 | https://ncert.nic.in/vocational/pdf/kvbk103.pdf |
| 3 | https://www.health.harvard.edu/topics/skin-and-hair |
| 4 | https://www.colorescience.com/blogs/learn/how-to-apply-makeup |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | M | S | M | S | S | S |
| CO2 | M | S | L | S | S | S |
| CO3 | M | S | M | S | S | S |
| CO4 | L | S | M | S | S | S |
| CO5 | L | S | L | S | S | S |

*S-Strong; M-Medium; L-Low

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|---|--|--|----------|----------|-----------------|----------|
| Course code | 23BFC2SP | SURFACE EMBELLISHMENT PRACTICAL | L | T | P | C |
| Skill Enhancement Course - III | | | - | - | 2 | 2 |
| Pre-requisite | Knowledge in Fashion Sketching | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| <ol style="list-style-type: none"> 1. Inherit embroidery skills by hand and machine 2. Appreciate the beauty and intricacies of the traditional embroideries of India 3. Enhance creativity by the application of smocking | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Create hand embroidery samples | | | | K6 | |
| CO2 | Create machine embroidered samples | | | | K6 | |
| CO3 | Develop samples using surface enrichment | | | | K3 | |
| CO4 | Design and develop samples for drawn thread embroidery, applique, quilting | | | | K6 | |
| CO5 | Create added structural effects using smocking | | | | K6 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| 1. Create Hand Embroidery Samples (10 stitches and 5 samples) | | | | | 6 hours | |
| <ul style="list-style-type: none"> • Outline stitches • Filling stitches • Loop stitches • Cross stitches | | | | | | |
| 2. Create Embroidery Samples Using Machine | | | | | 6 hours | |
| <ul style="list-style-type: none"> • Running stitch • Satin Stitch • Granite Stitch • Cording • Needle cording | | | | | | |
| 3. Create the Following Samples | | | | | 6 hours | |
| <ul style="list-style-type: none"> • Beadwork • Sequin work • Ribbon embroidery • Mirrorwork • Drawn threadwork | | | | | | |
| 4. Create Samples with Applique, Patchwork and Quilt (any 2 types) | | | | | 6 hours | |
| <ul style="list-style-type: none"> • Applique • Simple / Geometric patch work • Quilting | | | | | | |
| 5. Create Samples with Smocking | | | | | 6 hours | |
| <ul style="list-style-type: none"> • French Smocking (any 3 types) • Chinese Smocking | | | | | | |
| Total Lecture hours | | | | | 30 hours | |

| Text Books | |
|---|---|
| 1 | ShailajaDNaik, Traditional Embroideries of India, APH Publishing, 1996 |
| 2 | Megan Eckman, Everyday Embroidery for Modern Stitchers, C&T Publishing, 2020 |
| Reference Books | |
| 1 | Libby Moore, ThreadFolk: A Modern Makers Book of Embroidery Projects and Artist Collaborations, Paige Tate & Co, 2019 |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
| 1 | https://sewguide.csom/smocking/ |
| 2 | https://www.youtube.com/watch?v=Ug2d1NUuE4A |
| 3 | https://www.youtube.com/watch?v=uJ2SyeFA_B4 |
| 4 | https://www.youtube.com/watch?v=nJz9c8gEvFg |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | L | M | M | M | M |
| CO2 | S | L | M | M | M | M |
| CO3 | S | L | M | M | M | M |
| CO4 | S | L | M | M | M | M |
| CO5 | S | L | M | M | M | M |

*S-Strong; M-Medium; L-Low

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|--|---|-------------------------------------|----------|----------|----------------------------|-----------------|
| Course code | 23BFC3C1 | ORGANISATION OF GARMENT UNIT | L | T | P | C |
| Core V | | | 5 | - | - | 4 |
| Pre-requisite | Basic knowledge on garment and quality | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| 1. Enable student to become a successful entrepreneur/manager in the future | | | | | | |
| 2. Impart knowledge on the organisation of the various departments of a garment unit | | | | | | |
| 3. Gain a better understanding of a garment unit with SWOC analysis | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Interpret the meaning of entrepreneur and management | | | | | K2 |
| CO2 | Understand the organizational structure of a garment unit | | | | | K2 |
| CO3 | Plan factory design and layout to suit the production needs | | | | | K4 |
| CO4 | Prepare cost sheet for a finished product | | | | | K3 |
| CO5 | Setup a garment unit by performing SWOC analysis | | | | | K4 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | Entrepreneur and Management | | | | | 15 hours |
| Entrepreneur-Meaning, definition and types, need for Entrepreneurs, qualities, and role of Entrepreneur. Management-Definition. Management as a process-Planning, organizing, Directing, Controlling and Co Ordination. Difference between Entrepreneur And Manager. | | | | | | |
| Unit:2 | Organizational Structure of a Garment Unit | | | | | 15 hours |
| Organizationalstructureofagarmentunit,Designdepartment,Financedepartment,purchasing department, Production department, organizing different sections- Hierarchy Personnel involved in all the departments, nature of the job. Role of HR in apparel industry. | | | | | | |
| Unit:3 | Factory Design and Layout | | | | | 15 hours |
| Factory Design and layout – importance of factory design, factors affecting factory design, Types of buildings(single and Multi-Storey)-advantages and limitation. Factory layout- Process, Product and combined layout Design requirement-requirements relating to health, safety and welfare. Balancing-Steps to balance the line-Initial balance-Balance control-Efficiency-Cycle checks-Balancing tools. | | | | | | |
| Unit:4 | Principles of Costing | | | | | 15 hours |
| Principles of costing-Requirement of good costing system. Cost estimation of yarn and fabric. Cost estimation for dyeing, printing, embroidery, cutting, stitching, checking, packing, final inspection, shipping and insurance. | | | | | | |
| Unit:5 | Garment Export Unit | | | | | 15 hours |
| PerformanceofIndianGarmentExportandInstitutionssupportingEntrepreneurs,SWOC Analysis Setting upofgarmentunitforexportmarket,ExportDocument,Exportfinance-Payment method, Export shipping.Institutions supporting entrepreneurs-DIC,NSIC, SISI,SIPCOT,TII,KVIC,CODISSIA, Commercial banks –SBI. | | | | | | |
| | | | | | Total Lecture hours | 75 hours |

| Text Books | |
|---|---|
| 1 | Introduction to Clothing Production Management, A J Chester 2nd Edition, Wrenbury Associates Ltd, 1998. |
| 2 | The technology of clothing manufacture, Harold Carrand Barbara Latham, Black well Science, 1994. |
| 3 | Apparel Costing, A functional Approach- Krishnakumar.M, Abishek Publications, Chandigarh, 2011. |
| Reference Books | |
| 1 | Principles of Management, Dinakar Pagare, Sultan Chand and Sons, Delhi, 2018. |
| 2 | Entrepreneurship Development in India, Dr. C. B Gupta, Dr N. P. Srinivasan, Sultan Chand and Sons Delhi, 1997. |
| 3 | Industrial Engineering in Apparel Production, V. Ramesh Babu, Wood Head Publishing India in Textiles, 2012. |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
| 1 | https://lonelyentrepreneur.com/types-of-entrepreneurs/ |
| 2 | https://textilecourse.blogspot.com/2019/02/plant-layout-textile-garment-industry.html |
| 3 | https://www.fibre2fashion.com/industry-article/7665/the-organisation-of-a-clothing-factory |
| 4 | https://apparelcosting.blogspot.com/2017/05/apparel-costing-principles.html |
| 5 | https://www.onlineclothingstudy.com/2019/04/how-to-start-garment-business.html |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | M | S | M | S | L |
| CO2 | M | S | S | S | S | M |
| CO3 | S | M | M | M | M | M |
| CO4 | M | S | S | S | S | S |
| CO5 | L | M | L | S | M | L |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|--|---|---|----------|----------|----------|----------------|
| Course code | 23BFC3P1 | GARMENT CONSTRUCTION – CHILDREN’S WEAR PRACTICAL | L | T | P | C |
| Core VI | | | - | - | 4 | 4 |
| Pre-requisite | Basic knowledge in garment construction | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| 1. Design garments for children. | | | | | | |
| 2. Impart skills in pattern drafting. | | | | | | |
| 3. Construct garments by sewing. | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Design garments for child | | | | K6 | |
| CO2 | Develop patterns using drafting method | | | | K6 | |
| CO3 | Select the necessary tools needed for sewing | | | | K6 | |
| CO4 | Construct garments by sewing | | | | K3 | |
| CO5 | Discover new techniques in pattern making and garment construction | | | | K4 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| 1.Design, Draft and Construct the Following Garments for a Child | | | | | | 75hours |
| <ul style="list-style-type: none"> • Bib • Panty • Jabla • Knicker • Baba suit • A line frock • Summer frock • Midi and top • Frock-Partywear | | | | | | |
| Total Lecture hours | | | | | | 75hours |
| Text Books | | | | | | |
| 1 | Practical Clothing Constructing- PartI andII, Mary Mathews, Cosmic Press, Chennai,1986. | | | | | |
| 2 | Zarapker System of Cutting- Zarapker .Kltd.R,Navneet Publications,1994. | | | | | |
| Reference Books | | | | | | |
| 1 | Cutting and tailoring Course Gayatri Verma &KapilDev, Computech Publications, 2009. | | | | | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | | | | | |
| 1 | http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827 | | | | | |
| 2 | https://www.youtube.com/watch?v=nI-ShbmnuVg | | | | | |
| 3 | https://www.youtube.com/watch?v=LuazkYL0J3A | | | | | |
| 4 | https://www.youtube.com/watch?v=zLkNgkzx-wI | | | | | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | M | S | S | M | M |
| CO2 | S | M | S | S | M | M |
| CO3 | S | M | S | S | M | M |
| CO4 | S | M | S | S | M | M |
| CO5 | S | M | S | S | M | M |

*S-Strong; M-Medium; L-Low

| | | | | | | | |
|---|--|-------------------------|--|----------|----------------------------|-----------------|----------|
| Course code | .23BFC3S1 | BUSINESS STARTUP | | L | T | P | C |
| Skill Enhancement Course- IV | | | | 2 | - | - | 2 |
| Pre-requisite | Basic knowledge about Business | | | | | | |
| Course Objectives: | | | | | | | |
| The main objectives of this course are to: | | | | | | | |
| <ol style="list-style-type: none"> 1. Impart skill in starting a business. 2. Gain knowledge about business planning and evaluation. 3. Be aware of IPR and copyright. | | | | | | | |
| Expected Course Outcomes: | | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | | |
| CO1 | To identify pain points, customer problems and develop proto type | | | | | K2 | |
| CO2 | To identify and evaluate business opportunities | | | | | K4 | |
| CO3 | To Prepare business plan and identify competitors | | | | | K5 | |
| CO4 | To plan financial sources | | | | | K4 | |
| CO5 | To understand IPR, Brand and copyright | | | | | K3 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | | |
| Unit:1 | Business startup – An Introduction | | | | | 3hours | |
| Business startup - terms and definition, Introduction to pain points, identification of pain points, empathize with Customer Problems, market survey, develop proto type, gather proto type sample feedback. | | | | | | | |
| Unit:2 | Business Ideas and Opportunities | | | | | 3hours | |
| Gather sources of ideas, identify business opportunities (performance of existing industries, export and import data, availability of raw material, government policies, trade fairs, abroad trends), evaluation of business opportunities, BCG Matrix, Brainstorm worksheet. | | | | | | | |
| Unit:3 | Business Plan | | | | | 3hours | |
| Prepare business plan, perform business model canva, identify market gap and potential customers, understand target segment, evaluate target customer, value proposition canva, SWOT analysis, identify peer competitors, competitor analysis. | | | | | | | |
| Unit:4 | Financial Status and Analysis | | | | | 3hours | |
| Introduction to financial statements, financial analysis, value proposition financial feasibility, revenue stream, cost structure, MSME schemes, government Schemes and subsidy for startups, difference between angel investor and venture capitalist. | | | | | | | |
| Unit:5 | Intellectual Property Rights | | | | | 3hours | |
| Intellectual property rights in fashion business, Patents: meaning and law regarding Patent, what can be patented, conditions of patent, rights of patentees, Trademark: meaning and definition Brand: definitions, distinction between Trademark and Brand Copyrights: meaning and concept, features of Copyright. | | | | | | | |
| | | | | | Total Lecture hours | 15 hours | |
| Text Books | | | | | | | |
| 1 | Start-up: A Practical Guide to Starting and Running a New Business, Tom Harris, Springer, 07-Aug2018 | | | | | | |
| 2 | Business Model Canvas: A GoodToolwithBadInstructions?RodKing,2017 | | | | | | |

| | |
|---|--|
| 3 | Handbook of Deep Trade Agreements Aaditya Mattoo, Nadia Rocha, Michele Ruta, 2020 |
| 4 | Entrepreneurship and Local Economic Development a Comparative Perspective on Entrepreneurs, Universities and Governments, 2018 |

Reference Books

| | |
|---|---|
| 1 | Corbman BP, Textiles– FibretoFabric, International Students Edition, Mc. Graw Hill book Co, Singapore, 1985 |
| 2 | Entrepreneurship and Economic Development, 2010 |
| 3 | Start Your Own Business, Sixth Edition by The Staff of Entrepreneur Media Selling Your Startup by Alejandro Cremades · 2021 |

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

| | |
|---|---|
| 1 | https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism_643 |
| 2 | https://textilelearner.blogspot.com/2012/07/basic-woven-fabric-structure-plain |
| 3 | http://textilefashionstudy.com/category/fabric-manufacturing-technology-2 |
| 4 | http://www.warporweft.com/types-of-looms |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | M | S | M | S | S | S |
| CO2 | M | S | L | S | S | S |
| CO3 | M | S | M | S | S | S |
| CO4 | L | S | M | S | S | S |
| CO5 | L | S | L | S | S | S |

*S-Strong; M-Medium; L-Low

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|--|--|---|----------|----------|-----------------------|-----------------|
| Course code | 23BFC3SP | ORNAMENTS AND ACCESSORY MAKING PRACTICAL | L | T | P | C |
| Skill Enhancement Course- IV | | | - | - | 2 | 2 |
| Pre-requisite | Familiar with types of ornaments and accessories | | | | 2020- 2021 | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| <ol style="list-style-type: none"> 1. To create and develop ornaments and accessories. 2. To design ornaments and accessories for various occasion. | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| 1 | Develop new accessories with fabrics | | | | | K6 |
| 2 | Understand new techniques of creating ornaments. | | | | | K2 |
| 3 | Discover new ideas of creating ornaments and accessories. | | | | | K3 |
| 4 | Create a complete set of ornaments for bridal and other special dress | | | | | K6 |
| 5 | Organize items need for creating accessories and ornaments efficiently | | | | | K6 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Create the Following Accessories with Fabric. | | | | | | 20 hours |
| <ul style="list-style-type: none"> • Handbag / cellphone pouch • Slipper or shoe • Belt for men and women • Mask and Gloves | | | | | | |
| Create the following ornaments. | | | | | | 30 hours |
| <ul style="list-style-type: none"> • Hair ornaments • Ear ornaments • Neck ornaments • Hand ornaments • Finger ornaments • Hip ornaments • legs ornaments • Head fascinators | | | | | | |
| Create set of ornaments to suit a dress. | | | | | | 10 hours |
| <ul style="list-style-type: none"> • Set of ornaments for bridalwear / fashion show/ office wear/ casual wear/ dance costumes. | | | | | | |
| Record Notebook – Fix photographs of the items created and explain the details of materials used and the method of construction | | | | | | |
| Total Lecture hours | | | | | | 60 hours |

| Text Books | |
|---|--|
| 1 | Jewellery Making, A Complete Course for Beginners, Jinks McGrath, Apple Press, 2007 |
| 2 | The Workbench Guide to Jewellery Techniques, Anastasia Young, Thames and Hudson, 2010 |
| Reference Book | |
| 1 | The Bag Making Bible: The Complete Creative Guide to Sewing Your Own Bags - Lisa Lam, Amy Butler, Published by David & Charles, 2010 |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
| 1 | https://www.youtube.com/watch?v=pdwJZZSUjfs |
| 2 | https://www.youtube.com/watch?v=4jNCJm3j0ec |
| 3 | https://www.youtube.com/watch?v=RehISbeKeMo |
| 4 | https://www.youtube.com/watch?v=bpjpvxos200 |
| 5 | https://www.youtube.com/watch?v=7OTfnxojulM |

| Mapping with Programme Outcomes | | | | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | P10 |
| CO 1 | S | S | S | S | M | L | L | M | M | S |
| CO 2 | S | S | S | S | M | M | L | M | L | S |
| CO 3 | S | S | S | S | M | M | L | M | L | S |
| CO 4 | S | S | S | S | S | S | S | S | M | S |
| CO 5 | M | L | L | L | M | M | L | S | M | S |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|--|--|---|----------|----------|----------|-----------------|
| Course code | 23BFC4C1 | INDUSTRIAL GARMENT MACHINERIES | L | T | P | C |
| Core VII - | | | 4 | - | - | 4 |
| Pre-requisite | Basic knowledge about garment manufacturing machineries | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| <ol style="list-style-type: none"> 1. Gain knowledge of the industrial practices in all the stages of garment manufacturing. 2. Familiarize with the techniques and technology adopted in the garment industry. 3. Gain familiarity with the federal standards of stitch and seam classification. | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Understand the stitching mechanism | | | | | K2 |
| CO2 | Relate to the cutting and spreading methods in industries | | | | | K1 |
| CO3 | Connect to the industrial marking and pressing methods | | | | | K4 |
| CO4 | Analyse the type of sewing machines and its functions | | | | | K4 |
| CO5 | Classify stitches and seams according to the federal standard | | | | | K2 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | Stitching Mechanism | | | | | 15hours |
| Stitching mechanism- Needles, bobbin and bobbin case, bobbin winding, loops and loop spreader, upper and lower threading, auxiliary hooks, throat plates, take ups, tension discs- Upper and lower thread tension, stitching auxiliaries, pressure foot and its types, Feed mechanisms- drop feed, differential feed, needle feed, compound feed, unison feed, puller feed. | | | | | | |
| Unit:2 | Cutting and Spreading Methods | | | | | 15hours |
| Spreading – Types of spread and its quality, parts and functions of spreading equipment, spreading methods. Marking methods, positioning marking types of markers, efficiency of a marker plan, requirements of marker planning | | | | | | |
| Unit:3 | Marking and Pressing Methods | | | | | 15 hours |
| Cutting equipment– Parts and functions of Straight knife cutting machine, rotary cutting machine, band knife cutting machine, die cutters. Pressing–purpose, pressing equipment’s and methods– iron, steam press, steam air finisher, steam tunnel, special types– pleating, permanent | | | | | | |
| Unit:4 | Sewing Machineries | | | | | 15hours |
| Sewing Machineries - Classification of sewing machines, parts and functions of Single Needle lockstitch machine, over lock machine, bar tacking machine, button hole machine, button fixing machine, blind stitching machine, fabric examining machine. Special attachments, care and maintenance of sewing machines, Common problems and remedies | | | | | | |
| Unit:5 | Packaging, Sewing Threads, Stitches and Seams | | | | | 15hours |
| Garment Packaging–Types of package forms, Sewing threads-types, essential qualities of a sewing thread, Federal standards for stitch and stitch classification, Federal standards for seam and seam classification. Introduction to AI in Textile Industry | | | | | | |

| | | |
|---|---|-----------------|
| | Total Lecture hours | 75 hours |
| Text Books | | |
| 1 | The Technology of Clothing Manufacture – Harold Carr and Barbara Latham, Blackwell Science, 1994. | |
| 2 | Apparel Manufacturing Handbook: Analysis, Principles and Practice 2nd Edition – Jacob Solinger, Bobbin Blenheim Media Corp, 1988. | |
| Reference Books | | |
| 1 | Reader's digest Sewing guide, Complete Guide to Sewing 13th Edition, The Reader's Digest Association Inc, Pleasant Ville, 1997. | |
| 2 | A complete guide for sewing – Coles M Sew, Heinemann Professional Publishing, Singapore, 1977. | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | |
| 1 | https://clothingindustry.blogspot.com/2018/04/packaging-process-garment-industry.html | |
| 2 | https://www.youtube.com/watch?v=palmFFnMT1E | |
| 3 | https://www.youtube.com/watch?v=67K0RMJVB_U | |
| 4 | https://www.youtube.com/watch?v=HIBcn9Igirc | |
| 5 | https://www.youtube.com/watch?v=QOofEoJQyro | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | M | L | M | S | S | M |
| CO2 | M | L | M | S | S | M |
| CO3 | M | L | M | S | S | M |
| CO4 | M | L | M | S | S | M |
| CO5 | S | L | M | S | S | M |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|---|---|--|----------|----------|----------|----------------|
| Course code | 23BFC4P1 | GARMENT CONSTRUCTION – ADULT WEAR PRACTICAL | L | T | P | C |
| Core VIII | | | - | - | 3 | 3 |
| Pre-requisite | Basic knowledge about sewing machine and construction. | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| <ol style="list-style-type: none"> 1. Design garments for women and men 2. Impart skills in pattern drafting 3. Construct garments by sewing | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Design garments for women and men | | | | K6 | |
| CO2 | Develop patterns for women and men using drafting method | | | | K1 | |
| CO3 | Select the necessary tools needed for sewing | | | | K2 | |
| CO4 | Construct garments by sewing | | | | K4 | |
| CO5 | Discover new techniques in pattern making and garment construction | | | | K5 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| 1.Design,Draftandconstruct the following garments for a Woman (Minimum 4 garments) | | | | | | |
| | | | | | | 45hours |
| <ul style="list-style-type: none"> • Saree Petticoat • Salwar • Kameez • Wrap around skirt and tops. • Nightie • Blouse | | | | | | |
| 2.Design, Draft and construct the following garments for a Man (Minimum 3 garments) | | | | | | 30hours |
| <ul style="list-style-type: none"> • Bermuda • T Shirt • Nehru Kurta • Pyjama • Slack Shirt • Pant | | | | | | |
| Total Lecture hours | | | | | | 75hours |
| Text Books | | | | | | |
| 1 | Practical Clothing Constructing- Part I and II, Mary Mathews, Cosmic Press, Chennai, 1986. | | | | | |
| 2 | Zarapker System of Cutting- Zarapker. K.R, Navneet Publications ltd, India, 2011. | | | | | |
| Reference Books | | | | | | |
| 1 | Cutting and sewing theory, Gayatri Verma, Kapil Dev, Computer tech Publication Ltd, India, 2019. | | | | | |
| 2 | Patterncuttingandmakingup,theprofessionalapproach,MartinM.ShobenandJanetP.Ward,Rout Ledge Taylor and Francis Group, London and New York, Revised edition, 2011. | | | | | |

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|---|
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] |
|---|

| | |
|---|---|
| 1 | http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827 |
| 2 | https://www.youtube.com/watch?v=FsD-Pc9WPm0 |
| 3 | https://www.youtube.com/watch?v=rJf5Jlpt8j4 |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | S | M | S | M | L |
| CO2 | S | S | L | M | L | L |
| CO3 | S | L | S | S | M | M |
| CO4 | S | M | M | S | M | M |
| CO5 | M | M | S | S | M | L |

*S-Strong; M-Medium; L-Low

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|---|--|------------------------------------|----------|----------|----------|----------------|
| Course code | 23BFC4S1 | MARKETING AND MERCHANDISING | L | T | P | C |
| Skill Enhancement Course VI | | | 2 | - | - | 2 |
| Pre-requisite | Basic knowledge fashion and consumer | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| <ol style="list-style-type: none"> 1. Impart knowledge on the underlying concepts of marketing and fashion marketing 2. Familiarise with the fashion products, consumer, communications, research and forecasting 3. Describe the role of merchandisers in the garment industry and their types | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Understand the basic concepts of marketing and fashion marketing | | | | K2 | |
| CO2 | Describe the types of fashion products and the consumer behavior | | | | K1 | |
| CO3 | Explain the process of communication, marketing research and forecasting | | | | K1 | |
| CO4 | Discover the importance of merchandisers and their types | | | | K3 | |
| CO5 | Interpret types of stores, design, layouts and merchandise presentation | | | | K2 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | Introduction to Marketing | | | | | 12hours |
| Marketing – Meaning, Marketing management philosophies, Marketing and Fashion Marketing, The fashion market–structure and size. Marketing environment– Micro and Macro marketing. Marketing Mix– Product, price, promotion and place; Marketing Functions– Assembling, Standardization and packaging; Digital Marketing– meaning, scope and advantages | | | | | | |
| Unit:2 | Fashion Products and the Consumer | | | | | 12hours |
| Marketing fashion products importance and classification of products; the product mix and range planning; the fashion product life cycle; Fashion Consumer Role of consumer behavior in marketing, types of consumer decisions, the decision process, factors that influence decisions- consumer attitudes, consumer motivation, Consumer personality, opinion leadership, family and social status | | | | | | |
| Unit:3 | Marketing Communication, Research and Forecasting | | | | | 12hours |
| Fashion marketing communications – traditional approach and integrated approach Fashion marketing research–purpose and significance, stages in their search process Fashion forecasting– meaning and importance, basics of predicting trends–colour, theme, shape, key events, Target market; trend forecasting process | | | | | | |
| Unit:4 | Types of Merchandisers | | | | | 12hours |
| Merchandiser – essential qualities of a merchandiser; types and functions of merchandisers – fashion merchandiser, visual merchandiser, export merchandiser and retail merchandiser; Visual Merchandising–Elements of Visual Merchandising–Needs–Psychology–Types of Display; Elements of display. | | | | | | |
| Unit:5 | STORE MANAGEMENT IN MERCHANDISING | | | | | 12hours |

| | |
|--|---|
| Store Management in Merchandising- Introduction, Objectives, Types of Stores, Location of a Store, Store Layout, Types of Store Layouts, Store Space Allocation. | |
| Store Design- Introduction, Concept of Store Design, Exterior of a store, Interior of a store, Merchandising ePresentation- Tools and techniques | |
| | Total Lecture hours |
| | 60 hours |
| Text Books | |
| 1 | Fashion Marketing, Mike Easey, Wiley-Blackwell Publishing, 2009. |
| 2 | Fashion Merchandising and Merchandising, Mary G. Wolfe, The Good heart- Willcox Co., Inc, Illinois, 2014. |
| 3 | Fashion–From concept to consumer–Gini Stephens Frings, Prentice Hall (1999). |
| 4 | Fashion Marketing Management, V. Ramesh and A. Arunraj Babu, Woodhead Publishing India, 2019 |
| Reference Books | |
| 1 | Marketing, Philip Kotler, Gary Armstrong, Veronica Wong, John Saunders, Pearson Education, India, 2008 |
| 2 | Fashion- from Concept to Consumer, 9th Edition, Gini Stephens Frings, Pearson Education Ltd, Harlow, 2014 |
| 3 | Fashion Marketing, Janet Bogdanovic and Liz Clamp, Routledge, 1994 |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
| 1 | https://www.iknockfashion.com/need-of-trend-forecasting/ |
| 2 | http://www.createafashionbrand.com/the-5-basics-of-trend-prediction/ |
| 3 | https://www.fibre2fashion.com/industry-article/7054/decoding-the-process-of-trend-forecasting-in-fashion |
| 4 | https://textilelearner.blogspot.com/2013/10/role-of-merchandiser-in-apparel-industry.html |
| 5 | https://clothingindustry.blogspot.com/2017/12/merchandiser-merchandising-garment.html |
| 6 | https://blog.hubspot.com/marketing/what-is-digital-marketing |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | L | S | S | M | M | M |
| CO2 | L | M | S | M | S | M |
| CO3 | L | M | S | S | M | M |
| CO4 | L | S | S | M | M | S |
| CO5 | L | L | S | S | S | S |

*S-Strong; M-Medium; L-Low

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|--|---|--|--|----------|----------|----------------|----------|
| Course code | 23BFC4SP | COMPUTER AIDED DESIGN PRACTICAL | | L | T | P | C |
| Skill Enhancement Course - VII | | | | - | - | 2 | 2 |
| Pre-requisite | Basic knowledge on computers | | | | | | |
| Course Objectives: | | | | | | | |
| The main objectives of this course are to: | | | | | | | |
| 1. Enable the students to design garment designs using computers. | | | | | | | |
| 2. Try various colour combinations and textural effects. | | | | | | | |
| 3. Create and manipulate fashion figures for various garment designs. | | | | | | | |
| Expected Course Outcomes: | | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | | |
| CO1 | Understand and practice the tools and techniques of the CAD | | | | | K2 | |
| CO2 | Apply the skills in area of garment designing | | | | | K3 | |
| CO3 | Develop various colours and textures in computers | | | | | K6 | |
| CO4 | Create garment designs for child, man and woman with CAD | | | | | K6 | |
| CO5 | Create Jewellery designs using CAD | | | | | K6 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | | |
| 1.Creating Small Designs/Motifs | | | | | | 9hours | |
| <ul style="list-style-type: none"> • Designs for Hand kerchief • Neckline Designs • Embroidery Designs • Chest Prints for T-shirts | | | | | | | |
| 2.Create anyone Children garment design from the following list | | | | | | 7hours | |
| <ul style="list-style-type: none"> • Jabla and Knicker • Baba Suit • Frock | | | | | | | |
| 3.Create any one Women garment design from the following list | | | | | | 7hours | |
| <ul style="list-style-type: none"> • Gown/Maxi • Salwar Kameez • Midi and Tops • Lehngas | | | | | | | |
| 4.Create any one Men garment design from the following list | | | | | | 7hours | |
| <ul style="list-style-type: none"> • S B Vest • T-Shirt with Burmuda • Shirt and Pant • Kurta Pyjama | | | | | | | |
| Total Lecture hours | | | | | | 30hours | |
| Text Books | | | | | | | |
| 1 | Fashion Design Drawing & Presentation, Ireland Patrick John, BT Batsford Ltd, 2006. | | | | | | |
| 2 | Fashion Design Illustration: Children, Ireland Patrick John, BT Batsford Ltd, 2003. | | | | | | |
| Reference Books | | | | | | | |
| 1 | Fashion Sketch Book, Bina Abling, Fair Child Publication, New York, 2006. | | | | | | |

| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
|---|---|
| 1 | https://www.youtube.com/watch?v=iX7O4fNQijA |
| 2 | https://www.youtube.com/watch?v=8pmgi7q3Gbo |
| 3 | https://www.youtube.com/watch?v=x8BsIME4gi4 |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | M | S | S | M | M | M |
| CO2 | M | S | M | S | S | S |
| CO3 | S | M | L | M | M | M |
| CO4 | S | S | S | L | M | L |
| CO5 | M | M | L | M | S | S |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|--|--|--|----------|----------|----------------------------|-----------------|
| Course code | 23BFC5C1 | COSTUMES AND TEXTILES OF INDIA | L | T | P | C |
| Core IX | | | 5 | - | - | 4 |
| Pre-requisite | | Basic knowledge on costumes and Indian states | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| 1. Impart knowledge and understanding of the diverse and valuable traditional Indian textiles. | | | | | | |
| 2. Appreciate the various styles of traditional Indian costumes. | | | | | | |
| 3. Value the beauty and intricacy of the Indian Jewelleries and embroideries. | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Discover the beginning and origin of costumes | | | | | K2 |
| CO2 | Recognize the dyed and printed textiles of India | | | | | K1 |
| CO3 | Compare and contrast the various costumes of India | | | | | K4 |
| CO4 | Appraise the jewelleries of India | | | | | K5 |
| CO5 | Value the traditional embroideries of India | | | | | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | Origin and Growth of Costume | | | | | 15hours |
| Beginning and growth of Costume- Painting, Cutting and Tattooing. Ancient costumes– Indus valley civilization, Vedic period, Maurya period, Mughal period. Costumes of India- Pre and post independence era | | | | | | |
| Unit:2 | Dyed and Printed Textiles of India | | | | | 15hours |
| Study of dyed and printed textiles of India –Bhandhani, Patola ,ikkat, kalamkari- in all the above types and techniques used. Study of woven textiles of India – Dacca Muslin, Banarasi/Chanderibrocades, Baluchar, Himrus and Amrus, Kashmir shawls, Pochampalli, silksarees of Kancheepuram. | | | | | | |
| Unit:3 | Traditional Costumes of India | | | | | 15hours |
| Traditional Costume of different States of India- Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Assam, Orissa, West Bengal, Maharashtra, Rajasthan, Uttar Pradesh, Jammu and Kashmir, Gujarat. | | | | | | |
| Unit:4 | Indian Jewellery | | | | | 15hours |
| Indian Jewellery – Jewelleries used in the period of Indus valley civilization, Mauryan period, the Pallava and Chola Period, Symbolic Jewellery of South India, Mughal period. Temple Jewellery Of South India, Tribal jewellery | | | | | | |
| Unit:5 | Traditional Embroideries of India | | | | | 15 hours |
| Traditional embroideries of India–Origin, Embroidery stitches used– embroidery of Kashmir ,Phulkari of Punjab, Gujarat– Kutch and Kathiawar, embroidery of Rajasthan, Kasuti of Karnataka, Chicken work of Lucknow, Kantha of Bengal. | | | | | | |
| | | | | | Total Lecture hours | 75 hours |

| Text Books | |
|---|---|
| 1 | The costumes and textiles of India–Jamila Brij Bhushan,D B Taraporevala Sons &Co, Bombay,1958. |
| 2 | Indian Costume–G.S.Ghurye, Popular Prakashan Pvt Ltd, India, 1967. |
| 3 | Indian Jewellery–M.L Nigam, Lustre Press PvtLtd,India,1999. |
| 4 | Traditional Embroideries ofIndia– Shailaja D. Naik ,APH Publishing,India,1996. |
| Reference Books | |
| 1 | Costumes of India– Dorris Flyn, Oxford & IBH PublishingCo,Delhi,1971. |
| 2 | Costumes of India and Pakistan–Das S.N,DB Taraporevala Sons and co, Bombay,1956. |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
| 1 | https://www.youtube.com/watch?v=7HXVXieq7pM |
| 2 | https://www.craftsvilla.com/blog/famous-indian-embroidery-styles |
| 3 | https://www.culturalindia.net/jewellery/types/meenakari.html |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | M | M | M | L | M | S |
| CO2 | M | S | M | M | M | S |
| CO3 | M | S | L | L | L | S |
| CO4 | L | M | M | M | L | S |
| CO5 | M | S | M | M | M | S |

*S-Strong; M-Medium; L-Low

| | | | | | | | |
|--|--|---|--|----------|----------|-----------------|----------|
| Course code | 23BFC5C2 | GARMENT QUALITY AND COST CONTROL | | L | T | P | C |
| Core X | | | | 5 | - | - | 4 |
| Pre-requisite | Basic knowledge on garment and quality | | | | | | |
| Course Objectives: | | | | | | | |
| The main objectives of this course are to: | | | | | | | |
| <ol style="list-style-type: none"> 1. To learn the concepts of garment quality control 2. To study the different quality management systems 3. To know about different quality process | | | | | | | |
| Expected Course Outcomes: | | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | | |
| CO1 | Define and establish quality standards | | | | | K2 | |
| CO2 | Describe functions of quality control | | | | | K1 | |
| CO3 | Analyze on garment cost and cost control | | | | | K4 | |
| CO4 | Appraise on different quality management systems | | | | | K4 | |
| CO5 | Evaluate the quality based on the parameters | | | | | K5 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | | |
| Unit:1 | Quality Control and its Standards | | | | | 15hours | |
| Definition and Scope of Quality control – establishing merchandising standards- establishing raw material quality control specifications – quality control of raw material. Establishing Processing quality specification – Quality control inspection procedures for processing- Quality control of finished garments – Quality control for packaging, warehousing and shipping – Statistical Quality control- Sampling plans –Industry-wide quality standards. | | | | | | | |
| Unit:2 | Functions of Production Control | | | | | 15hours | |
| Function of production control– Production analysis– Quality specifications–quantitative specifications– Basic production systems– whole garment, departmental whole garment, sub assembly systems and progressive bundle systems, Principles for choosing a production system –Evaluating production systems | | | | | | | |
| Unit:3 | Functions of Cost Control | | | | | 15hours | |
| Functions of cost control, types of costs and expenses – Apparel manufacturing cost categories – sales cost control, purchasing cost control, production cost control, administration cost control –cost ration policies – the manufacturing budget –cash flow controls – standard cost sheet, break-even– charts. | | | | | | | |
| Unit:4 | Quality Management | | | | | 15 hours | |
| Quality – Evolution of Quality management – Quality function and quality planning – Basic concepts of Total Quality Management (TQM) – Principles of TQM – Quality Trilogy – FourpillarsofTQM–PDCAcycle&PDSAcycle–Kaizanconcept–5“SPhilosophy–Qualitycircles. | | | | | | | |
| Unit:5 | Environmental Management System | | | | | 15hours | |
| Environmental Management System(EMS)–Meaning & Definition–ElementsofEMS–BenefitsofEMS–EnvironmentalPolicies–ImplementationofISO14000– study on other management system: SA 8000, OHSAS18000 and WRAP. | | | | | | | |
| Total Lecture hours | | | | | | 75 hours | |

| Text Books | |
|---|---|
| 1 | Apparel Manufacturing Analysis, Solinger, Jacob, New York, Textiles books, 1961. |
| 2 | Managing Quality In The Apparel Industry, Pradip V Mehta, Sathish K Bhardwaj, New Age International, 1998 |
| Reference Books | |
| 1 | Apparel manufacturing h and book, analysis Principles and Practice, Solinger, Jacob, Columbia media corp, 1988. |
| 2 | Quality Control Hand book, J. M. Juran, publications McGraw-Hill Education, 1988. |
| 3 | Total Quality Management, Basker S, Anu radha Publications, Kumbakonam, 2017. |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
| 1 | https://textilelearner.blogspot.com/2011/08/quality-control-system-in-garments-2589.html |
| 2 | https://www.fibre2fashion.com/industry-article/3055/quality-systems-for-garment- |
| 3 | https://onlinegarmentsacademy.blogspot.com/2019/07/quality-control-of-apparel-industry.html |
| 4 | https://www.sciencedirect.com/science/article/pii/B9781782422327000163 |
| 5 | https://www.textileschool.com/488/quality-control-in-garment-manufacturing/ |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | M | M | S | S | M |
| CO2 | S | M | S | M | S | L |
| CO3 | M | M | M | S | M | M |
| CO4 | S | S | M | S | M | M |
| CO5 | M | S | S | L | M | L |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|---|--|------------------------|----------|----------|----------|-----------------|
| Course code | 23BFC5C3 | Textile Testing | L | T | P | C |
| Core XI | | | 5 | - | - | 4 |
| Pre-requisite | Basic knowledge on garment and quality | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| 1. To learn about fibre, yarn and fabric quality testing. | | | | | | |
| 2. Acquire better understanding importance of quality testing | | | | | | |
| 3. To learn the fibre testing methods of different fibre properties. | | | | | | |
| 4. To study the yarn and fabric properties. | | | | | | |
| 5. To understand the relationship of quality parameters with fabric end use | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Learn the basic terms and definition of apparel testing and methods of evaluation. | | | | | K2 |
| CO2 | Understanding the various principles and methods are used for fibre, yarn, fabric testing. | | | | | K1 |
| CO3 | Learn about the testing parameters and machineries. | | | | | K4 |
| CO4 | About the properties of various materials | | | | | K4 |
| CO5 | Understanding the garment and accessory testing methods | | | | | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | QUALITY CONTROL: DEFINITION AND ITS IMPORTANCE. | | | | | 15hours |
| Humidity: Definition and its influence on fiber properties Standard atmospheric condition, Standard testing atmosphere. Standard regain, Moisture content and regain. Measurement of atmospheric condition – wet and dry bulb Hygrometer and sling Hygrometer | | | | | | |
| Unit:2 | FIBRE TESTING | | | | | 15hours |
| Fiber Testing: Fiber length – Baer sorter and Fibro graph, Fiber strength – Stelometer, Fiber fineness – Micronaire, Fiber maturity, Trash content - determination – Trash analyzer. | | | | | | |
| Unit:3 | YARN TESTING | | | | | 15hours |
| Yarn testing: Determination of yarn count – quadrant, Analytical & Beesley balance. Twist – Direction of twist and amount of twist, Strength of yarn-Single yarn strength tester. Crimp – Shirley crimp tester. Hairiness – Uster Hairiness tester. | | | | | | |
| Unit:4 | FABRIC TESTING | | | | | 15 hours |
| Fabric Testing: Fabric strength tester – Tensile strength, tearing strength & bursting strength. Abrasion – Types of abrasion – pilling – Martindale pill box tester. | | | | | | |
| Unit:5 | FABRIC TESTING | | | | | 15hours |
| Drape – Drape meter, Fabric stiffness - Shirley stiffness Tester, crease recovery – Shirley crease recovery tester. Thermal conductivity, water absorbency test, Water repellency tester. | | | | | | |

| | | |
|---|---|-----------------|
| | Total Lecture hours | 75 hours |
| Text Books | | |
| 1 | Elliot B. Grover., Dame S. Hamby. (2016). <i>Handbook of Textile Testing and Quality Control</i> . New Delhi: Wiley India Edition. | |
| 2 | Kothari, V. K. (1999). <i>Testing and Quality Management</i> (Vol.1). New Delhi: IAFL Publications. | |
| 3 | Angappan, P. & Gopalakrishnan, R. (2002). <i>Textile Testing</i> . Komarapalayam: SSM Institute of Textile Technology. Komarapalayam | |
| Reference Books | | |
| 1 | Koushik, C.V. & Chandrasekaran, R. (2004). <i>Textile Testing</i> . New Delhi: NCUTE Publication. Marjorie | |
| 2 | A. Taylor. (1990). <i>Technology of Textile Properties</i> . London: Forbes publications Ltd. | |
| 3 | Booth, J.E. (2018). <i>Principles of Textile Testing</i> . New Delhi: CBS Publishers and Distributors Pvt. Ltd. | |
| 4 | Saville, B. P. (2002). <i>Physical Testing of Textiles</i> . Cambridge: Wood head Publishing Ltd. | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | |
| 1 | http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827 | |
| 2 | https://www.textilesphere.com/2020/04/colour-fastness-in-textile-testing.html | |
| 3 | https://textilelearner.net/features-working-principle-of-crockmeter/ | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | S | M | M | M | S |
| CO2 | S | S | M | S | S | S |
| CO3 | M | S | S | S | S | M |
| CO4 | M | S | S | S | S | M |
| CO5 | M | S | S | S | S | M |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|---|----------------------|--|----------|----------|-----------------|-----------------|
| Course code | 23BFC5P1 | TEXTILE TESTING PRACTICAL | L | T | P | C |
| | Core – XII | | - | - | 5 | 4 |
| | Pre-requisite | Knowledge about quality Parameters of textile fiber, yarn and fabric | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| 1. Helps students to understand the fundamentals of textile testing. | | | | | | |
| 2. Understand and practice the various testing procedures from fiber to garments. | | | | | | |
| 3. Understand and practice to handle various textile testing equipment | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | | Understand to handle the different textile testing equipments and maintenances | | | | K2 |
| CO2 | | Understand the domain Knowledge to operate the textile testing equipment | | | | K3 |
| CO3 | | Evaluate the quality of fiber and yarn and record the findings | | | | K5 |
| CO4 | | Evaluate the quality of fabric and record the findings | | | | K5 |
| CO5 | | Evaluate the quality of garment and record the findings | | | | K5 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Test the given sample for the following properties | | | | | | 75 hours |
| 1. Determination of lea strength & CSP using lea strength tester. | | | | | | |
| 2. Analysis of Blend composition of given fabrics. | | | | | | |
| 3. Determination of thickness of fabric using fabric thickness gauge. | | | | | | |
| 4. Determination of CRA of fabric using crease recovery tester. | | | | | | |
| 5. Determination of Fabric Pilling Using ICI Pill Box | | | | | | |
| 6. Determination of Fabric Bursting Strength. | | | | | | |
| 7. Determination of color fastness of given sample to washing | | | | | | |
| 8. Determination of color fastness of given sample to rubbing by using crockmeter | | | | | | |
| 9. Determination of color fastness of given sample to perspiration by using perspirometer | | | | | | |
| 10. Determination of dimensional stability % of given fabric/garment to washing. | | | | | | |
| Total Lecture hours | | | | | 75 hours | |
| Text Book(s) | | | | | | |
| 1 | | General Principles of Testing, Bureau of Indian Standards, New look Publications, 2018. | | | | |
| 2 | | AATCC Textile Testing Materials Educational Resources, AATCC Publications, Atlanta, 2019. | | | | |
| 3 | | Principles of Textile Testing , J.E. Booth, CBS Publishers & Distributors Pvt Ltd, 2018. | | | | |
| Reference Books | | | | | | |
| 1 | | Testing and Quality Management, V.K, Kothari, IAFL Publications, 1999 | | | | |
| 2 | | Textiles- Yarns, Fabrics, and General Test Methods (Annual book of ASTM Standards volume 0701), ASTM Intl, 1999. | | | | |
| | | | | | | |
| | | | | | | |

| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
|--|---|
| 1 | http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827 |
| 2 | https://www.textilesphere.com/2020/04/colour-fastness-in-textile-testing.html |
| 3 | https://textilelearner.net/features-working-principle-of-crockmeter/ |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | S | S | S | M | S | S |
| CO2 | M | M | M | S | S | M |
| CO3 | S | M | M | M | M | S |
| CO4 | S | S | S | M | S | S |
| CO5 | M | S | S | S | S | M |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|---|--|---------------------------------|----------|----------|----------|----------------|
| Course code | 23BFC5E1 | APPAREL BRAND MANAGEMENT | L | T | P | C |
| Discipline Specific Elective -I | | | 4 | - | - | 3 |
| Pre-requisite | Basic knowledge in apparel business process | | | | | |
| Course Objectives: | | | | | | |
| <p>The main objectives of this course are to:</p> <ol style="list-style-type: none"> 1. Get familiarize the students with the concepts and strategies involved in Branding for effective Brand Building. 2. Identify the variables that drive the success of Brands. 3. Develop and implement winning Brand Strategies in an array of competitive contexts. | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Understand concepts and strategies involved in Branding for effective Brand Building. | | | | | K2 |
| CO2 | Learn about the brand positioning strategies | | | | | K3 |
| CO3 | List out the various Brand appraisal methods | | | | | K3 |
| CO4 | Learn develop and implement winning Brand Strategies in an array of competitive contexts | | | | | K2 |
| CO5 | Learn about the variables that drives the success of Brands | | | | | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | Significance of Branding | | | | | 12hours |
| <p>Brand–Definition,Evolution,functions,brandsignificance;branding–types and strategies internationalapparelbrands-identificationofperspectivesandchallengestobuildbrand-Indian garment brands and prospects of Indian brands</p> | | | | | | |
| Unit:2 | Brand Positioning | | | | | 12hours |
| <p>Importance of Branding Positioning–Basic branding concepts Brand Image, Brand Identity, Brand Equity and Brand Personality- Meaning and Definition, Types, Elements; Brand Ambassadors- Celebrity Branding; Brand Loyalty; Product Vs Corporate Branding: Major Branding decisions. Positioning strategies of international garment retailers</p> | | | | | | |
| Unit:3 | Brand Appraisal | | | | | 12hours |
| <p>Brand appraisal– Definition and methods- exploration,market,customer,competitionanalysis,reasoningofbrandsimportanceandmethodsinvolved-laddering,emotionalandrational,Brandmapping–circle,prismandtriangle</p> | | | | | | |
| Unit:4 | Brand Repositioning | | | | | 12hours |
| <p>Brand Identity and Extension: Brand identity and articulation – name, colour, design, logo and symbols, brand service advertising and cross-cultural influence; brand extension – need and types;AdvantagesandDisadvantages;labellingandlicensingofapparelproducts– types,licenseagreement,andinternationalpropertyrights;needfordevelopingbrandnamesandlabelsfor apparel manufactured and exported from India</p> | | | | | | |

| | | |
|---|---|-----------------|
| Unit:5 | Brand Measurement | 12hours |
| Brand measurement- definition, need and methods – audit, track, brand over time – managing brand image- need, concepts of management, forces affecting brand and maintenance of brand, Study on brands and brand management of Indian Garment | | |
| Total Lecture hours | | 60 hours |
| Text Books | | |
| 1 | Brand Management: Texts and Cases, Niraj. Kumar, Himalaya Publishing House, 2015 | |
| Reference Books | | |
| 1 | Brand Management, Harsh V Verma, Excel books, 2010 | |
| 2 | Brand Management Text and Cases, Mathur U.C., Macmillan India Ltd. 2006 | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | |
| 1 | https://www.tutorialspoint.com/brand_management | |
| 2 | https://www.managementstudyguide.com/brand-management.htm | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | L | L | L | S | M | S |
| CO2 | L | L | L | S | M | S |
| CO3 | L | L | L | S | M | S |
| CO4 | L | L | L | S | M | S |
| CO5 | L | L | L | S | M | S |

*S-Strong; M-Medium; L-Low

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|---|---|--|--|--|--|----------|-----------------|----------|----------|
| Course code | 23BFC5EP | FASHION PHOTOGRAPHY PRACTICAL | | | | L | T | P | C |
| Discipline Specific Elective -II | | | | | | - | - | 4 | 3 |
| Pre-requisite | Basic knowledge on garment presentation | | | | | | | | |
| Course Objectives: | | | | | | | | | |
| The main objectives of this course are to: | | | | | | | | | |
| 1. Understand the concepts of photography and editing process. | | | | | | | | | |
| 2. Give ideas on developing a photo and enable photography techniques in various fields. | | | | | | | | | |
| 3. Enable students to know about image editing with special effects. | | | | | | | | | |
| Expected Course Outcomes: | | | | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | | | | |
| CO1 | Remember general principles of photography | | | | | | K1 | | |
| CO2 | Understand the lighting techniques for indoor or outdoor photography | | | | | | K2 | | |
| CO3 | Apply the techniques in the field of modelling, magazine, fashion shows etc... | | | | | | K3 | | |
| CO4 | Evaluate the right image selection for the purpose of photography | | | | | | K4 | | |
| CO5 | Create images with the help of computer applications | | | | | | K6 | | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | | | | |
| Photography: | | | | | | | 20 hours | | |
| 1. Product Photography | | | | | | | | | |
| 2. Modelling Photography | | | | | | | | | |
| 3. Indoor and Outdoor Photography | | | | | | | | | |
| Special effects: | | | | | | | 20 hours | | |
| 1. Black and White Image | | | | | | | | | |
| 2. Gray Scale Image | | | | | | | | | |
| 3. Mono Colour Image | | | | | | | | | |
| 4. Negative Image | | | | | | | | | |
| 5. Cut Colour Image | | | | | | | | | |
| Image editing: | | | | | | | 20 hours | | |
| 1. Collage work | | | | | | | | | |
| 2. Creative image editing | | | | | | | | | |
| 3. Creative layout | | | | | | | | | |
| Total Lecture hours | | | | | | | 60 hours | | |
| Text Books | | | | | | | | | |
| 1 | Basic Industrial Arts, Plastics, Graphics Arts, W.R. Miller, Power Mechanics, McKnight & McKnight Publishing Company, US, 1978. | | | | | | | | |
| 2 | Photography, Illinois, Mc Knight Publishing Company, US, 1978. | | | | | | | | |
| Reference Books | | | | | | | | | |
| 1 | Photography Course, John Hedge, John Hedge Co, UK, 1992. | | | | | | | | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | | | | | | | | |
| 1 | https://shutterstoppers.com/photoshop-tutorial-fashion-photography/#:~:text=A%20simple%20beauty%20edit%20is,can%20easily%20make%20it%20darker. | | | | | | | | |
| 2 | https://enviragallery.com/editing-fashion-photography-for-beginners/ | | | | | | | | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|-----|-----|-----|-----|-----|-----|-----|
| CO1 | S | S | S | L | L | S |
| CO2 | M | M | S | L | L | S |
| CO3 | S | S | S | L | M | S |
| CO4 | M | L | S | M | L | S |
| CO5 | S | L | S | M | L | S |

| | | | | | | |
|---|---|--------------------------------|----------|----------|----------|-----------------|
| Course code | 23BFC6C1 | THE BUSINESS OF FASHION | L | T | P | C |
| Core XIII | | | 6 | - | - | 4 |
| Pre-requisite | | Knowledge about fashion | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| 1. Gain a better understanding of a fashion designer at the national and international level | | | | | | |
| 2. Impart knowledge on new product development, sales promotion, retailing and pricing | | | | | | |
| 3. Move towards a sustainable fashion | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Describe the factors influencing fashion changes | | | | | K3 |
| CO2 | Weigh the contributions of the fashion designers nationally and internationally | | | | | K5 |
| CO3 | Understand the steps involved in new product development and sales promotion | | | | | K2 |
| CO4 | Analyze the scope and functions of retailing and pricing | | | | | K4 |
| CO5 | Evaluate the environmental pollution created by fashion products and move towards sustainable fashion | | | | | K5 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | World of Fashion-An Overview | | | | | 18hours |
| Factors influencing fashion changes – Accelerating and Decelerating factors Understanding Fashion designer – types – classicist, idealist, influenced, realist, thinking poet. Minimalists, Village India, Studio line. World Fashion Centers – Milan, Paris, London and New York | | | | | | |
| Unit:2 | Legendary Fashion Designers | | | | | 18hours |
| Study of International Fashion Designers of the World – Yves Saint Laurent, Valentino, Pierre Cardin, Ralph Lauren, Karl Lager field, Donna Karen, Giorgio Armani, Coco Chanel, Calvin Klien, Christian Dior. An overview of Indian Fashion Designers – Manish Malhotra, Manish Arora, Ritu Beri, Tarun Tahiliani, Rohit Bal, Wendell Rodricks, JJ Valaya. | | | | | | |
| Unit:3 | Fashion Products and Promotion | | | | | 18 hours |
| The fashion industry and new product development; product mix and range planning. Fashion and Seasons. Fashion Promotion – Fashion Communication; Fashion Advertising and Publicity; Personal Selling – importance and steps involved; Fashion Shows – types and steps involved in organizing a show; Sales promotion methods/strategies | | | | | | |
| Unit:4 | Fashion Retailing | | | | | 18hours |
| Fashion Retailing – Scope and functions, Types of Stores, Challenges for fashion retail in India, E-retailing – growth and development, Major players of fashion goods online. Pricing policies and strategies for apparel products, Functions and factors Influencing pricing, pricing strategies for new products, methods off setting prices | | | | | | |

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|--|---|----------------------------|
| Unit:5 | Sustainable Fashion | 18hours |
| Sustainable Fashion–meaning and significance; Environmental concerns related to fashion; Linear fashion and circular fashion; 4R’s in sustainability – Repair, recycle, reuse and reduce. Moving towards sustainable fashion - Eco fashion, Slow fashion; Environmental impact of fast fashion | | |
| | | Total Lecture hours |
| | | 90 hours |
| Text Books | | |
| 1 | Drakeet-al, Retail Fashion: Promotion and Advertising, Macmillan Publication Company. New York, 1992. | |
| 2 | Gini Stephens Frings, Fashion–From Concept to Consumer, 6 th edition, Prentice Hall,1999. | |
| Reference Books | | |
| 1 | Leslie Davis Burnset-al, The Business of Fashion: Designing, Manufacturing and Marketing, 4 th Edition, Bloomsbury Academic publisher,2011 | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | |
| 1 | https://247wallst.com/special-report/2018/10/01/the-30-most-influential-fashion-designers-of-all-time/8/ | |
| 2 | https://www.reviewsxp.com/blog/top-fashion-designers/ | |
| 3 | https://en.wikipedia.org/wiki/Fashion_capital | |
| 4 | https://www.fibre2fashion.com/ | |
| 5 | http://www.technopak.com/Files/fashion-retail-scenario-in-india.pdf | |
| 6 | https://en.wikipedia.org/wiki/Sustainable_fashion | |
| 7 | https://fashionunited.uk/news/fashion/re-defining-sustainability-repair-recycle-reuse-and-reduce/2016052520528 | |
| 8 | https://get-green-now.com/environmental-impact-fast-fashion/ | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | M | S | S | M | M | S |
| CO2 | S | S | M | M | M | S |
| CO3 | M | S | L | M | M | S |
| CO4 | M | S | M | M | M | S |
| CO5 | L | M | L | M | M | M |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|--|--|---------------------|-----------|----------|----------|----------|
| Course code | 23BFC6D | Dissertation | L | T | P | C |
| Core | CC-XIV | | 12 | - | - | 8 |
| Pre-requisite | Basic knowledge in industry | | | | | |
| Course Objectives: | | | | | | |
| <p>The main objectives of this internship are:</p> <ul style="list-style-type: none"> ➤ To define the industry process ➤ To compare the all department process ➤ To schedule the project procedure ➤ Experiment the project ➤ To developed the project and conclude it | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | ➤ Identify the relevant objects of an application domain. | | | | | K2 |
| CO2 | ➤ Classify and design the application. | | | | | K5 |
| CO3 | ➤ Implement their own innovative ideas. | | | | | K2 |
| CO4 | ➤ Encourage students to experiment articles based on the research. | | | | | K6 |
| CO5 | Equipped to prepare project documentation. | | | | | K1 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| <p>The student has to attach himself / herself with an organization related to his / her specialization Approved by the Department for a period of 2 weeks for Industrial Internship Training with Project. One personnel of that industry and a faculty of the Department will be external and internal guides of the project respectively. The project theme, work flow and other related guidelines can be had from the Industry. The development of the project may be done in the Department by utilizing 12 lab hours per week and the monitoring of the progress and project evaluation for 50 marks can be collectively done by both internal and external guides. At the end of the internship, the student should prepare a project documentation report (not less than 50 pages, A4 size). Student should also produce a certificate of internship from the organization. The final project viva-voce for 50 marks should be conducted by the Department with two examiners and the cumulative 100 marks will be given by the Department.</p> | | | | | | |

| COs | PO1 | PO2 | PO3 | PO4 | PO5 |
|-----|-----|-----|-----|-----|-----|
| CO1 | S | S | S | S | M |
| CO2 | S | M | S | S | M |
| CO3 | S | S | S | S | S |
| CO4 | M | S | S | S | S |
| CO5 | M | S | S | S | S |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|---|---|---------------------------------------|----------|----------|----------------------------|-----------------|
| Course code | 23BFC6E1 | TECHNICAL TEXTILES | L | T | P | C |
| | | | 5 | - | - | 3 |
| Discipline Specific Elective -III | | Basic knowledge about Business | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| <ol style="list-style-type: none"> 1. Acquire knowledge in technical textile. 2. Develop an understanding of fiber in technical textile. 3. Become familiar with various usage of technical textile. | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Understand the characteristics of technical textiles its types | | | | | K2 |
| CO2 | Discover the properties of Technical textiles and its types | | | | | K3 |
| CO3 | Interpret the area of applications of types of technical textiles | | | | | K3 |
| CO4 | Recognize the underlying concepts | | | | | K1 |
| CO5 | Apply the concepts in creation of garments | | | | | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Unit:1 | Introduction to Technical Textiles | | | | | 15 hours |
| Introduction to Technical textiles, definition and scope of technical textiles, developments in fibres- Natural fibres, polyamide, polyester, viscose rayon, polyolefin, high performance fibres and glass and ceramics, Application of technical textiles. | | | | | | |
| Unit:2 | Functional Apparels and Medical Textiles | | | | | 15 hours |
| Functional apparels: Design and engineering of functional clothing, requirements smart characteristics: structural, aesthetic, functional, comfort and fit for clothing. Medical textile: Materials used and classification. Requirements and application. Textiles for Health care and Hygiene products. | | | | | | |
| Unit:3 | Protective Wear | | | | | 15 hours |
| Selection of materials, requirements and functions of flame resistant, chemical, mechanical, Electrical and radiation protective clothing. | | | | | | |
| Unit:4 | Sports Wear | | | | | 15 hours |
| Sportswear requirements- functional fibers, yarns and fabrics suitable for sports wear- Sweat management for sports application. Footwear Clothing: Fabric requirements, finishing adapt ability. | | | | | | |
| Unit:5 | Smart and Intelligent Textiles | | | | | 15 hours |
| Smart fibers: Nano fibers, Photo adaptive fibers, Chameleon fibers, Conductive fibers – properties and applications in textiles and apparels. Phase change materials: properties and applications. Shape memory polymers and properties. Stimuli sensitive intelligent textiles. | | | | | | |
| | | | | | Total Lecture hours | 75 hours |

| Text Books | |
|-------------------|---|
| 1 | Handbook of Technical Textiles, A.R Horrock, S.C Anand, Wood head Publishing, 2000. |
| 2 | Handbook of Industrial Textiles, S.Adanur, Technomic Publication, 2001. |

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| 3 | Textiles for Sports wear, Roshan Shishoo, Woodhead Publishing, 2015. |
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| Reference Books | |
|------------------------|--|
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|---|---|
| 1 | Design and manufacture of Textile Composites, M.C Kanna, Hearle O Hear, Textile process, Textile Institute, Manchester, 2004. |
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| 2 | Handbook of Medical Textiles, VBartels, Woodhead Publishing, 2011. |
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| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | |
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|---|---|
| 1 | https://nptel.ac.in/courses/116/102/116102057/ |
|---|---|

| | |
|---|---|
| 2 | https://www.classcentral.com/course/swayam-testing-of-functional-and-technical-textiles-13051 |
|---|---|

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | M | S | S | S | M | M |
| CO2 | S | S | S | S | M | M |
| CO3 | M | S | S | S | S | S |
| CO4 | S | S | S | S | M | M |
| CO5 | S | S | S | S | M | M |

*S-Strong; M-Medium; L-Low

| | | | | | | |
|---|--|---|----------|----------|----------|-----------------|
| Course code | 23BFC6EP | DESIGN PROCESS AND PRODUCT DEVELOPMENT PRACTICAL | L | T | P | C |
| Discipline Specific Elective -IV | | | - | - | 5 | 3 |
| Pre-requisite | Basic knowledge on garment presentation | | | | | |
| Course Objectives: | | | | | | |
| The main objectives of this course are to: | | | | | | |
| 4. Understand the designing process. | | | | | | |
| 5. Give ideas on developing a product. | | | | | | |
| 6. Enable students to know sequence of steps involves in product developmet. | | | | | | |
| Expected Course Outcomes: | | | | | | |
| On the successful completion of the course, student will be able to: | | | | | | |
| CO1 | Remember general principles of design | | | | K1 | |
| CO2 | Understand the design process | | | | K2 | |
| CO3 | Apply the techniques garment designing in product development | | | | K3 | |
| CO4 | Evaluate the garment outfit. | | | | K4 | |
| CO5 | Create ready to wear and haute couture outfits | | | | K6 | |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | |
| Prepare ready to wear outfit and haute couture | | | | | | 45 hours |
| Instructions | | | | | | |
| <ul style="list-style-type: none"> The students should prepare Two ready to wear outfits and one haute couture outfit based on chosen theme for Kids, Men and Women’s wear It is mandatory for students to prepare product development record for their examination. The product and record will be evaluated by a Team of Internal & External Experts. This will be followed by the Viva-Voce. | | | | | | |
| Total Lecture hours | | | | | | 45 hours |
| Text Books | | | | | | |
| 1 | Fashion Design and Product development, Harold Carr, John Pomeroy, Blackwell Publication,199 2. | | | | | |
| 2 | Portfolio design+ Presentation, Anna Kiper, Batas ford publications, 2014. | | | | | |
| 3 | Portfolio presentation for fashion designers, Linda Tain, Fair child Publishers,2010. | | | | | |
| Reference Books | | | | | | |
| 1 | Portfolio Management, S. Kevin, Prentice hall of India, PHI publications, 2006. | | | | | |
| 2 | Design with Color: The design guide to over 1000 color combination, Alles, Jeanne, Chronicle Book s, 1992. | | | | | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | | | | | |
| 1 | https://youtu.be/HEsmu45SKv4 | | | | | |
| 2 | https://youtu.be/buERDxlBn8w | | | | | |
| | | | | | | |

| Cos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|------------|------------|------------|------------|------------|------------|------------|
| CO1 | M | S | S | S | M | M |
| CO2 | S | S | S | S | M | M |
| CO3 | M | S | S | S | S | S |
| CO4 | S | S | S | S | M | M |
| CO5 | S | S | S | S | M | M |

*S-Strong; M-Medium; L-Low

| | | | | | | | |
|---|-----|--|-----------------|---------------------|--------------|--------------------|----------|
| Title of the Course | | ESSENTIAL REASONING AND QUANTITATIVE APTITUDE | | | | | |
| Paper Number | | Professional Competency Skill | | | | | |
| Category | PCS | Year | III | Credits | 2 | Course Code | 23BFC6S1 |
| | | Semester | VI | | | | |
| Instructional Hours per week | | Lecture | Tutorial | Lab Practice | Total | | |
| | | 1 | 1 | - | 2 | | |
| Objectives of the Course | | <ul style="list-style-type: none"> • Develop Problem solving skills for competitive examinations • Understand the concepts of averages , simple interest , compound interest | | | | | |
| UNIT-I: | | Quantitative Aptitude: Simplifications=averages-Concepts –problem-Problems on numbers-Short cuts- concepts –Problems | | | | | |
| UNIT-II: | | Profit and Loss –short cuts-Concepts –Problems –Time and work - Short –uts -Concepts -Problems. | | | | | |
| UNIT-III: | | Simple interest –compound interest- Concepts- Prolems | | | | | |
| UNIT-IV: | | Verbal Reasoning : Analogy- coding and decoding –Directions and distance –Blood Relation | | | | | |
| UNIT-V: | | Analytical Reasoning : Data sufficiency Non-Verbal Reasoning : Analogy ,Classification and series | | | | | |
| Skills acquired from this course | | Students relating the concepts of compound interest and simple interest | | | | | |
| Recommended Text | | 1."Quantitative Aptitude" by R.S aggarwal ,S.Chand & Company Ltd 2007 | | | | | |
| Website and e-Learning Source | | https://nptel.ac.in | | | | | |