

J.D. BIRLA INSTITUTE
Department of Textile Science, Clothing & Fashion Studies
B.Sc (Hons)

Programme Outcomes (PO)

Programme Specific Outcome (PSO)

Course Outcomes

Programme Outcomes (PO)

The programme equips the students with an understanding of design and technology in textile and apparel along with an appreciation of our rich textile culture. The programme strives to build a cadre of professionals in the area of Textiles and Clothing. The courses are pitched at providing a strong theoretical base along with skill enhancement through hands-on training. The course aims to provide knowledge of the latest technological advances in textile and apparel sector as well as sensitize students towards the rich textile heritage, crafts and community. The curriculum provides experiential training to students for professional and career readiness with the right skill set needed in a competitive market scenario.

Programme Specific Outcome (PSO)

PSO1: Gain knowledge in textile production techniques

PSO2: Acquire skills in textile dyeing and printing

PSO3: Get understanding in textile science and textile testing

PSO4: Acquire dexterity in design, surface enrichment and apparel construction

PSO5: Develop entrepreneurial skills in textiles and fashion

PSO6: Boost confidence and public speaking skills through presentations.

| Class/ Paper/Semester | Title | Course Outcome |
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| 1 st year B.Sc (TCFS) Core Course-I | Basic Science & Introduction to Textiles (TCFS 101) | To acquire basic knowledge of physics & chemistry and apply it to the study of textile & clothing science and also to understand the serviceability concepts and relate them to specific textile end-uses, care & selection. |
| 1 st year B.Sc (TCFS) Core Course-I | Fashion Studies & Sustainable Fashion (TCFS 102) | To enable students to gain knowledge of the fashion industry, fashion design concepts and the whole process. It also spreads awareness among the students about the environmental issues of the textile industry and makes them understand about the sustainability concept and fashion. |
| 1 st year B.Sc (TCFS) General Elective-I | Basic Sewing & Fundamentals of Clothing Construction (TCFS 103) | To familiarize the students with the terminologies related to apparel and its construction, also the tools and equipment's used for sewing. Develop an understanding about various finishes used in the textile industry. It also introduces the student to the concepts of drafting, paper patterns, flat pattern making principles etc. |
| 1 st year B.Sc (TCFS) Ability Enhancement Compulsory Course-I | Communication Skills & Personality Development (TCFS 104) | To train the students in verbal communication skills and equips the student with writing skills for effective communication. |
| 1 st year B.Sc (TCFS) Core Course-II | Fibre Science & Yarn Studies (TCFS 201) | To educate the students about the natural and man-made fibres with respect to their processing / manufacture, structure, composition, physical and chemical properties with special reference to their end-uses and also the systems of different yarn preparation, type of yarn used for manufacturing of |

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| | | different fabrics, determining yarn sizes along with types. |
| 1 st yearB.Sc (TCFS) Core Course-II | Fabric Studies and Fabric Manufacture (TCFS 202) | To enables students to gain knowledge in weaving, knitting and nonwoven methods of textile production. It also makes them understand the basic and figured weaves. It helps students to understand and analyse the construction of different fabrics. |
| 1 st yearB.Sc (TCFS) General Elective-II | Pattern Making & Children's Clothing (TCFS 203) | To enables the students to acquire skills in the various stitching processes and learn about pattern making which they use to construct various children's garments. |
| 1 st yearB.Sc (TCFS) Ability Enhancement Compulsory Course-II | Environmental Studies (TCFS 204) | To acquaint the students with the various aspects of environment and motivates them to deal with the present-day scenario of environmental concerns. |
| 2 nd yearB.Sc (TCFS) Core Course-III | Textile Processing & Finishing (TCFS 301) | To enable the students to acquire basic knowledge about the different operations involved in textile processing is taught along with the auxiliaries used in textile processing with a practical knowledge. |
| 2 nd yearB.Sc (TCFS) Core Course-III | Textile Dyeing & Printing (TCFS 302) | To enable the students to learn basics of dyes, principles of dyeing and different styles and methods of printing. It also makes the student become familiar with the different devices, tools and equipment used in dyeing and printing of textiles. |
| 2 nd yearB.Sc (TCFS) Core Course-III | Advanced Pattern Making & Garment Construction (TCFS 303) | To enable the students to understand the various detailed aspects of Women's fashion through developing patterns and constructing garments. |
| 2 nd yearB.Sc (TCFS) General Elective-III | Fundamentals of Design and CAD in Textile Design (TCFS 304) | To helps the students to understand the fundamentals and principles of CAD along with their applications |
| 2 nd yearB.Sc (TCFS). Skill Enhancement Course-III | Term Paper & Seminar (TCFS 305) | To provide an opportunity to students to work independently under guidance, develops an ability to articulate the learning into a document, provides opportunity for using audio visual aids in presentations and enables students to overcome audience fear and become self- confident. |
| 2 nd yearB.Sc (TCFS) Core Course-IV | Traditional Textiles of India & Textile Surface Ornamentation (TCFS 401) | To acquaint the students with the traditional textiles and surface ornamentation techniques of different states of India. Students will get to have a practical knowledge on different types of Indian crafts and embroideries, using traditional, machine and computerized techniques. |
| 2 nd yearB.Sc (TCFS) Core Course-IV | Garment Manufacturing Technology (TCFS 402) | To helps students to learn the latest garment manufacturing technology that are currently practiced in the garment industry. The students will also get to know the importance of maintaining quality standards during garment production and will equip them for working in the garment industry |
| 2 nd yearB.Sc (TCFS) Core Course-IV | Apparel Construction- Men's Wear (TCFS 403) | To acquire skills in handling different kinds of fabrics used in making men's wear. This subject covers both practical and theoretical knowledge on Men's wear garment construction. |
| 2 nd yearB.Sc (TCFS) General Elective-IV | Fashion Illustration & CAD in Fashion Design (TCFS 404) | To imparts skills on practical and theoretical concept of fashion illustration. The students will learn the 2D & 3D forms through orthographic & isometric projections as well as mix media art, sketching and rendering fashion figure and postures in hand and digital software. The subject also covers the process involved in developing the concept of a collection. |

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| 2 nd year B.Sc (TCFS) Skill Enhancement Course- IV | Computer Fundamentals (TCFS 405) | To enable students to understand the basic concept of computer, internet and information system. The students can have a practical idea on spreadsheet, PowerPoint presentation, animation and webpage designing. |
| 3 rd year B.Sc (TCFS) Core Course-V | Textile Economics & Marketing (TCFS 501) | To familiarize students with the concept of demand, laws of supply and consumer protection and standardization. This subject also covers the textile marketing concept and the various elements of marketing such as the marketing mix, pricing, advertising and promotion as well as exports concepts. |
| 3 rd year B.Sc (TCFS) Core Course-V | Advanced Fashion Illustration & Textile Accessories (TCFS 502) | To enable students to understand the concept of prints & textures from nature to create a base for understanding design. The students will gain the skills of different dimensions and perspective. The students can develop an understanding of human figure with various views that conveys the essential basics for fashion drawing as well as design fashion accessories for men, women and children. |
| 3 rd year B.Sc (TCFS) Discipline Specific Elective-V | Advanced Fibre Science, Smart & Intelligent Textiles (DSE (A):1) | To acquaint students with the advanced and specialty textile fibers enabling the students to understand the concept and applications of smart and intelligent textiles. The students will have an idea about various high performance fibers as well as intelligent textiles and their respective functions. |
| 3 rd year B.Sc (TCFS) Discipline Specific Elective-V | Fashion Retail Marketing & Visual Merchandising (DSE (A):2) | To familiarize students with various marketing and merchandising procedures. The students will become familiar with the fashion retailing and brand building. The subject also covers the concept of visual merchandising, focusing on the various elements of visual displays. |
| 3 rd year B.Sc (TCFS) Discipline Specific Elective-V | Textile Care & Conservation (DSE (A):3) | To familiarize students with the concept on care & selection of textile, focusing on laundering maintenance and conservation of textiles. It also covers the importance of museum and exhibition. The students can develop a technical and analytical skills for textile conservation. |
| 3 rd year B.Sc (TCFS) Discipline Specific Elective-V | Project Work (Product Development & Portfolio) (DSE (A):4) | To acquire skills to work independently and therefore widen her knowledge regarding a traditional craft. It involves documentation of the traditional craft and adaptation of traditional designs to contemporary use. |
| 3 rd year B.Sc (TCFS) Core Course-VI | Textile Testing & Quality Control (TCFS 601) | To acquaint students with both the theoretical and practical methods and techniques used in analysis of textile fibers, yarns and fabrics for end-use performance. The students will get familiar with the Apparel Total Quality Management by understanding different quality assurance practices. |
| 3 rd year B.Sc (TCFS) Core Course-VI | Textile & Apparel Industry and Production Planning & Control (TCFS 602) | To acquaint students with the importance of textile industry in Indian economy its origin, development, organization and problems faced by the industry. It also focuses on the trade point of view of the apparel industry. The subject also covers the production planning and control focusing on the production planning and its elements. |
| 3 rd year B.Sc (TCFS). TCFS Discipline Specific Elective-VI | Financial Management & Costing (DSE (B):1) | To enable students to understand the financial accounting and cost analysis in garment industry. Focusing on the financial management and business aspects. This subject also focuses on the budgeting |

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| | | and determining pricing of apparel product. |
| 3 rd year B.Sc (TCFS) Discipline Specific Elective-VI | Grading & Draping (DSE (B):2) | To acquire skills in the basic grading and draping techniques. The students can make garment designs based on themes and develop an understanding of sizing and ability to grade patterns as well as complex garments. |
| 3 rd year B.Sc (TCFS) Discipline Specific Elective-VI | Project Work (Fashion Show & Portfolio) (DSE (B):3) | To enable the students to apply their theoretical and practical knowledge, skill and understanding of design into a collection or range of apparel to demonstrate their creativity. The students have to work according to the theme and construct a range of garments and are geared towards working in the fashion industry. |
| 3 rd year B.Sc (TCFS) Discipline Specific Elective-VI | Historical Costumes of the World (DSE (B):4) | To acquire skills in historic silhouettes and designs in fashion/ costumes and create awareness regarding major political, economic and social happenings in the 20 th century and its influence on the fashion industry. It also covers the ancient garments from since medieval era and also the garments worn across India according to its regions. |