B. Design (Fashion Design) w.e.f. 2023-24

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SUBJECT CODE	Category	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
BDFD501	PC	HISTORICAL & ILLUSTRATION	60	20	20	30	20	2	0	2	2	5

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

Course Educational Objectives (CEOs):

- 1. To acquaint the student with the history of fashion.
- 2. To be familiar with the traditional costumes, accessories and embellishments.

Course Outcomes (COs):

- 1. Obtain knowledge of the history of fashion.
- 2. Understand the fashion progress and design.
- 3. Understand the dynamics of fashion and the role of fashion.

Syllabus

UNIT I Ancient Indian Textiles & Costumes

Hrs

Ancient Indian textiles & costumes - Vedic, Mauryan, Kushans, Satavahana, Gupta & Mughal

UNIT 2 Textiles & Costumes in Different Era

6Hrs

Textiles & costumes of Colonial, Victorian, Charles Frederick Worth, Edwardian Era, Raul Poiret World War I World War II, Coco Channel. Factors influencing costume change - style, religion, location, climatic condition, and influence of world affairs.

UNIT 3 European Costumes

6Hrs

European countries - Traditional costumes. Analysis of textile materials, motifs, designs, fabrics, necklines, collars, sleeves, silhouettes, accessories, and hairstyles.

UNIT 4 African Costumes

6Hrs

Traditional costumes. Analysis of motifs, designs, fabrics, colour combinations, necklines, collars, sleeves, silhouettes, accessories, head dress, and embellishments.

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^{*}Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore Shri Vaishnav Institute of Textile Technology

Choice-Based Credit System (CBCS) in Light of NEP-2020 B. Design (Fashion Design) w.e.f. 2023-24

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SUBJECT CODE	Category	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
BDFD501	PC	HISTORICAL & ILLUSTRATION	60	20	20	30	20	2	0	2	2	5

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

UNIT 5 Asian Costumes

6Hrs

Asian countries - Traditional costumes. Garments for different genders and type. Analysis of textile materials, motifs, designs, fabrics, necklines, collars, sleeves, silhouettes, accessories, and embellishments.

Textbooks:

- 1. Katherine Morris Lester, "Historic Costumes A resume of the characteristic types of costume from the most Remote times to the present day", Prentice Hall, Inc., Newyork,
- 2. Paral Buatnagar, "Indian costumes and Textiles", Abhishek Publications, New Delhi, 2000.

References:

- 1. Herbelt Norris, "Medieval costume and fashion", Dover publications, Inc., Newyork,
- 2. Vandana Bhenderi, "Costume, Textiles and Jewellery of India Traditions in Rajasthan", Prakash Books, New Delhi, 2004.
- 3. Fillow J and Bernard N Thomas and Hudson, "Traditional Indian Textiles", Prentice Hall, India, 1993.

List of Practical

- 1. To study the types of historical dresses.
- 2. Understand the property of different fashion era.
- 3. To study the Gupta Kalin costumes.
- 4. Develop dress Satavahana period for male.
- 5. Illustrate the hair styles of African.

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B. Design (Fashion Design) w.e.f. 2023-24

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BDFD501	PC	HISTORICAL & ILLUSTRATION	60	20	20	3 0	20	2	0	2	2	5

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than, 10 marks.

- 6. Develop the design of dress European Costumes.
- 7. Illustrate the accessories of European females.
- 8. Study the types of Asian costumes.
- 9. Develop the male costume of Vedic period
- 10. Illustrate the costume of Mugal's period

Studio Work

- 1. Prepare the Edwardian Era costumes for female.
- 2. Prepare the accessories of the Mourya period.
- 3. Prepare the accessories and embellishments of Nepal.

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B. Des. in Fashion Design w.e.f. 2023-24

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COURSE	CATEGORY	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	P	s	STIUZO
BDFD502	PC	Draping-II	60	20	20	30	20	2	0	2	1	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit: S - Studio. *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

- 1. To create an understanding of the different types of draping techniques.
- 2. To familiarize the students with the practical steps required of design draping successfully.
- 3. Acquire the knowledge to prepare designer garments with the help of draping.

Course Outcomes (COs):

The students will be able to

- 1. To know about the different types of draping.
- 2. To apply the types of pattern design with the help of draping.
- 3. To create the three-dimensional form to an idea for a garment with the help of dress form.

Syllabus

UNIT:1- Off-shoulder dresses

5hrs

Explore female anatomy and drape off-shoulder dress. Describe the development of off shoulder dress on dress form and its variations by using draping method.

UNIT:2 Draping various Necklines and Draping Yoke variations in Bodice Introduction to draping necklines, Different types of necklines, Different types of Gather and Pleats Different types of sleeves and Pintucks. Concept of Princess Darts, Empire Line

5hrs

Bias Grain Garments, Understand the property of bias fabric and its fall. Development of bias grain garments by using draping method Examples: bias dress, butterfly & butterfly twist etc.

UNIT:4-Knitted Garment with Cowl

7hrs

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Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore Shri Vaishnav Institute of Textile Technology Choice Based Credit System (CBCS) in Light of NEP-2020 B. Des. in Fashion Design w.e.f. 2023-24

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BDFD502	PC	Draping-II	60	20	20	30	20	2	0	2	1	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit: S - Studio. *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Describe the steps to Incorporate draped/ cowl in garments. State the steps to utilize property of knit fabric and its fall in effective manner. Development of Cowl garments by using draping method Examples: -neckline cowl (high, low back), armhole cowl, Cowl skirt, etc.

UNIT:5- Asymmetrical dress & Variations

Develop dress with asymmetrical element. Development of dress with asymmetrical elements/ hem by using draping method. Draping Yoke variations in Bodice, Draping Yoke variations in Shirt and Skirts.

Textbooks:

- 1. Draping for the apparel design by Helen joseph Armstrong, 2013.
- 2. Figure Drawing of fashion design by Elisabetta Druid and TizianaPaci,2002.
- 3. The Art of the Fashion Draping by Connie Amaden2018.

References

- Integrating Draping, Drafting and Drawing, Bina Abling, ISBN-10 1501359959
- 2. Pattern making for Fashion Design: Pearson New International Edition, Kindle Edition, Helen Joseph Armstrong.
- 3. Draping for Apparel Design: Bundle Book + Studio Access Card, Helen Joseph-Armstrong 2022
- 4. Draping techniques link Basic bodice block link https://www.youtube.com/watch?v=Ma_u1FmOMdM
- 5. Draping techniques -Basic skirt (http://ecoursesonline.iasri.res.in/)
- 6. Draping techniques by Nick Verreos youtube.com/watch?v=Xi7dlqAeVR8

List of Practical

1. To study the types of draping techniques.

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Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit: S - Studio. *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

- 2. Understand the property of bias fabric and its fall
- 3. To study the Bias grain garments details.
- 4. Develop dress with asymmetrical element.
- 5. Develop of Cowl garments by using draping method of neckline.
- 6. Develop of Cowl garments by using draping method Armhole cowl,
- 7. Develop of off shoulder dress on dress form.
- 8. Prepare the dress for a teenage girl.
- 9. Create the partywear dress with the help of draping.
- 10. Design & construct Marmet dress for fashion show.
- 11. Prepare the pattern and construct the Cowl skirt

- 1. Assignments (Draping techniques), Test Project-World skill-2015/(Prepare a dress using cowl)
- 2. Test project (Draping techniques) world skill -17
- 3. Construct the dress for the female with the help of draping.

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COURSE	CATEGORY	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	P	CREDITS
BDFD503	BS	FASHION EVENTA MANAGEMENT	60	20	20	-	-	3 Cre	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit. *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

- 1. To create an understanding of the different types of fashion events and the planning required for their successful organization.
- 2. To familiarize the students with the various practical steps required for successful organization of fashion events and impart knowledge about the ways in which all the relevant activities could be effectively coordinated.

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes. The students will be able to

- 1. Apply their knowledge in organizing different types of fashion events.
- 2. Have a practical knowledge of the main administrative, design, marketing, operational and risk management steps required for the successful organization of fashion events.

SYLLABUS:

Unit-I Introduction of Event Management and Their Types

10 HRS

Anatomy of Fashion Events: Introduction to event management - Types and category, Sports, Rallies, Wedding, Fashion and corporate events, Principles of Event Management, Key roles, types and purposes of fashion events - fashion show, fairs & trade show, product launch, Role of an event coordinator - Administration, Design, Marketing, Operations, Risk, Creating an event plan.

Unit-II Event Preparation

Initial Planning Requirements: Creating themes for the event, Targeting the audience /vendors, Timing the event and finding a venue, Guest lists and invitations, Organizing the required, production team and preparing duty charts, Budget estimation, seeking sponsorships - writing sponsorship letters.

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BDFD503	BS	FASHION EVENT- MANAGEMENT	60	20	20	-	-	3	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit. *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Unit-III Audio Visual Aids for Event

9 HRS

Venue requirements: Stage/ booth design, Seating patterns and plan, Lighting and allied audiovisual effects, Preparation of Program Booklet, Catering arrangements, Progress monitoring through checklists.

Unit-IV Show Rehearsals and Fine Tuning

8 HRS

Catwalk Presentation Requirements: Models selection, Music and choreography, Final show sequence and rehearsals, fitting sessions, Dressing area arrangements, Commentary requirements, Closing and striking the show.

Unit-V Marketing and Evaluation of the Show

9 HRS

Pre-Show Marketing and post-show follow up: Creating a pre and post-event promotion plan, Building media relations, preparing press release and media kit, Post Show Evaluation and feedback.

Textbooks:

- 1. Guide to Producing a Fashion Show (3rd Edition), Everett, J. C., Swanson, K. K., Fairchild Publications, NY, 2012.
- 2. Professional Event Coordination, Rutherford (Ed.2), S. J., Wiley, 2012.

References:

- 1. How to Produce a Fashion Show, from A to Z, Paula, T., Pearson Prentice Hall, 2012.
- 2. Professional Event Coordination by Silvers Julia Rutherford Wiley; 2 edition (2012),

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BDFD504	PC	Apparel Production Planning and Process Control	60	20	20	30	20	2	0	2	2	5

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit: S - Studio.

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

- 1. To enable the students to understand the production planning in garment industry.
- 2. To emphasis on the improved methods of material control in apparel production.
- 3. To acquaint students with quality concepts for implementing quality in apparel production.

Course Outcomes

Upon completion of this course, the student would know

- 1. Process control in garment manufacture.
- 2. Production planning, line balancing.

Syllabus

UNIT I Process Control Parameters in Garment Manufacturing

6 hrs

Apparel production parameters, planning, SAM, SMV, WIP, Line efficiency, Throughput time and lead time. Time and action calendar. Product data management.

UNIT II Basic Principles of the Lay Planning Process

8 hrs

Automation of lay planning process and cutting room operations; the influence of fabric design on marker making process, marker utilization, bundle distributions, tracking.

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B. Des. in Fashion Design w.e.f. 2023-24

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BDFD504	PC	Apparel Production Planning and Process Control	60	20	20	30	20	2	0	2	2	5

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit: S - Studio. *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

UNIT III Practices Followed for Style Changeover

5 hrs

Operation breakdown and production sequence, operation-wise machinery allocation - basic shirts, trousers, skirts; usage of special attachments.

UNIT IV Material Management

6 hrs

Manufacturing Resources Planning (MRP), just-in-time production system (JIT, Optimized production technology (OPT), Economic Order Quantity (EOQ), ABC analysis in inventory control.

UNIT V Final Inspection

5 hrs

Finishing and packing; packing - ratio packing, solid packing, short shipment, excess shipment, packing requirements; the concept of AQL.

Textbooks:

- 1. Jacob Solinger., "Apparel Production Handbook", Reinhold Publications, 1998, ISBN: 1879570009 / ISBN: 978-1879570009
- 2. Carr H and Latham B., "The Technology of Clothing Manufacturing", Blackwell Science, U.K.,1994, ISBN: 0632037482 | ISBN-13: 9780632037483
- 3. Ruth E. Glock., and Grace I. Kunz., "Apparel Manufacturing, Sewn Product Analysis", Fourth Edition, Pearson Education, 2004, ISBN: 0131119826 ISBN-13: 9780131119826.
- 4. Vilumsone I and Nemes., "Industrial cutting of textile materials", Woodhead Publishing Limited, 2012, ISBN: 978-0081021224/ ISBN: 0081021224.

References:

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BDFD504	PC	Apparel Production Planning and Process Control	60	20	20	30	20	2	0	2	2	5

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit: S - Studio.

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

- Laing R.M., and Webster J., "Stitches & Seams", The Textile Institute, India, 1999, ISBN: 1870812735 | ISBN-13: 9781870812733
- Shaeffer Claire., "Sewing for the Apparel Industry", Prentice Hall, New Jersey, 2001, ISBN: 0321062841 | ISBN-13: 9780321062840
- 3. Singer., "Sewing Lingerie", Cy DeCosse Incorporated, 1991, ISBN: 0865732604 | ISBN-13: 9780865732605
- 4. Patty Brown., and Janett Rice., "Ready-To-Wear Apparel Analysis", Third Edition, Prentice-Hall Inc., New Jersey, 2000, ISBN: 0130254347 | ISBN-13: 9780130254344
- Chuter A.J., "Introduction to Clothing Production Management", Blackwell Scientific Publications, Oxford, 2001, ISBN: 0632039396 | ISBN-13: 9780632039395

Studio Work

- 1. Prepare the Production Layout for the Garment Unit.
- 2. Prepare the Production Plan for Shirt and Trouser.
- 3. Prepare the Inspection sheet.

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BDFD515	PE	SUSTAINABLE FASHION MANAGEMENT	60	20	20	0	0	3	0	0	0	3

Legends: L-Lecture; T-Tutorial/Teacher Guided Student Activity; P-Practical; C-Credit.

Course Educational Objectives (CEOs):

- 1. The general goal of this course is to introduce sustainability management in textile and apparel organizations.
- 2. This sustainability course is also focused on corporate sustainability strategy.

Course Outcomes (COs):

After the completion of the course, the students will know

- 1. the process of sustainability and its procedures.
- 2. Implementation criteria of sustainability in apparel industries.
- 3. Planning and policy decisions for a sustainable strategic approach.
- 4. Correlation between ecology and sustainability management.
- 5. Reporting and auditing of a sustainability management system.

SYLLABUS

UNIT -I Introduction to Sustainability Management

9 Hr

Meaning, definition, dimensions of sustainability, value of sustainability, framework for business sustainability, Transformation Process Model, Leadership and sustainable management: Top Management Strategies for sustainable management.

UNIT- II Sustainability Operating System In An Organization

9 Hrs

SOS basics, critical elements of an SOS, structural elements support SOS, SOS Standards, Sustainability-related Management system for apparel industries, SOS Process Schedule.

UNIT- III Strategic Planning for a Sustainability Operating System

9 Hrs

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Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore Shri Vaishnav Institute of Textile Technology

Choice Based Credit System (CBCS) in Light of NEP-2020 B. Des. in Fashion Design w.e.f. 2023-24

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BDFD515	PE	SUSTAINABLE FASHION MANAGEMENT	60	20	20	0	0	3	0	0	0	3	

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

Purpose and benefits of Strategic Planning by Functional Groups, General Process for Sustainability Planning in garment industry, Pre-Planning Information and Processes, Techniques for Reaching Consensus on Priorities, Strategic Planning Formats for apparel divisions: The Balanced Scorecard and Alignment Tools, Tactical Plan.

UNIT-IV Environmental Policy and Sustainability Management

9 Hrs

Framework for Understanding Environmental Policy- Values Dimension, Political Dimension, Science and Technology dimension in apparel industries, Policy Design Dimension and implementation in apparel firm, Green supply chain management for apparel products.

UNIT -V Sustainability Reporting

9 Hrs

Sustainability reporting, Radical transparency, Reasons for Transparent Reporting, Internal Reporting, Public Report. Corporate Annual Sustainability Report, Sustainability Reporting Process Frameworks & Guidelines: GRIG4, AA1000 SES, Greenhouse Gas Accounting Reporting, ISO related reporting.

TEXTBOOKS:

- 1. Claudia E. Henninger, Kirsi Niinimäki, Marta Blazquez, Celina Jones "Sustainable Fashion Management" routledge taylor and francis group first edition 2022.
- 2. Dr. P. Kandhavadivu "Sustainability In Fashion And Apparels" Woodhead Publishing 2018.

REFERENCES:

Chairperson Board of Studies hri Vaishnav Vidyapeeth ishwavidyalaya, Indore Chairperson Faculty of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore Controller of Examination Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

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Choice Based Credit System (CBCS) in Light of NEP-2020

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BDFD515	PE	SUSTAINABLE FASHION MANAGEMENT	60	20	20	0	0	3	0	0	0	3	

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

1. Claudia E. Henninger (Editor), Panayiota J. Alevizou (Editor), Helen Goworek (Editor) Sustainability in Fashion: A Cradle to Upcycle Approach Palgrave Macmillan; 1st ed. 2017 edition

2. Tsan-Ming Choi (Editor), T. C. Edwin Cheng Sustainable Fashion Supply Chain Management: From Sourcing to Retailing: Springer; Softcover reprint of the original 1st ed. 2015 edition

3. Christian N Madu (Editor), Chu-Hua Kuei (Editor) Handbook of Sustainability Management World Scientific Publishing Company; 1st edition (March 27, 2012)

4. . Steven Cohen Sustainability Management: Lessons from and for New York City, America, and the Planet Columbia University Press; Reprint edition (January 7, 2014)

5. William R. Blackburn The Sustainability Handbook: The Complete Management Guide to Achieving Social, Economic and Environmental Responsibility Routledge; 1st edition (21 December 2015).

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Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore Shri Vaishnav Institute of Textile Technology Choice-Based Credit System (CBCS) in Light of NEP-2020 B. Design (Fashion Design) w.e.f. 2023-24

				TI	EACHIN	G & EVAL	UATIO	N SCH	IEME	C		
			TH	IEORY		PRACTI	CAL					
SUBJECT CODE	Category	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	Th	Т	P	s	CREDITS
BDFD525	PE	INDUSTRIAL ENGINEERING IN GARMENT MANUFACTURING	60	20	20	-	-	3	0	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

Course Educational Objectives (CEOs):

- 1. To enable the students to learn about basics of industrial engineering.
- 2. To provide knowledge on different tools of industrial engineering and its application in apparel industry.

Course Outcomes (COs):

Upon completion of this course, the student would be able to

- 1. Understand the basics of industrial engineering and productivity concepts.
- 2. Method study and its techniques.
- 3. Apply work measurement.
- 4. Understand the concepts of layout and line balancing.
- 5. Interpret the result using statistical process control.

SYLLABUS

UNIT I Introduction to Industrial Engineering

9 Hrs.

Industrial Engineering - evolution, functions, role of industrial engineer; productivity concepts, causes for low productivity in the apparel industry, suggestions for productivity improvement; basic work content, added work content, reduction of work content and ineffective time, work study- introduction and procedure.

UNIT II Methods Study

9 Hrs.

Methods study - introduction, techniques of recording; method analysis techniques; principles of motion economy; method study in garment manufacture; ergonomics - importance, workplace design, fatigue.

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^{*}Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

B. Design (Fashion Design) w.e.f. 2023-24

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SUBJECT CODE	Category	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	Th	Т	P	s	CREDITS
BDFD525	PE	INDUSTRIAL ENGINEERING IN GARMENT MANUFACTURING	60	20	20	-	-	3	0	0	0	3

Legends: L-Lecture; T-Tutorial/Teacher Guided Student Activity; P-Practical; C-Credit.

UNIT III Work Measurement

9 Hrs.

Work measurement – introduction; time study – equipment and procedure; standard data; predetermined time standards; work sampling techniques; incentive wage system; work measurement applied to garment industry- calculation of SAM.

UNIT IV Site Selection & Plant Layout

9 Hrs.

Site selection for the Garment industry; plant layout - types of layouts for Garment manufacturing unit, methods to construct layout.

UNIT V Quality Control Techniques

9 Hrs.

Introduction to Quality Control, Quality control techniques, Control chart and its application, Introduction to Quality Assurance System (ISO9000).

TEXTBOOKS:

1. Khanna O. P. and Sarup A., "Industrial Engineering and Management", Dhanpat Rai Publications, New Delhi, 2005.

George Kanwaty, "Introduction to Work Study", ILO, Geneva, 1989.

3. Norberd Lloyd Enrick, "Industrial Engineering Manual for Textile Industry", Wiley Eastern (P)Ltd., New Delhi, 1988.

4. Enrick N. L., "Time study manual for Textile industry", Wiley Eastern (P) Ltd., 1989.

REFERENCES:

- 1. Chuter A. J., "Introduction to Clothing Production Management", Black well Science, U. S.A., 1995.
- 2. Richard I. Levin. and David S. Rubin., "Statistics for Management", 7th Edition, Prentice-Hall of India Pvt. Ltd., New Delhi, 1997.

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^{*}Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

B. Design (Fashion Design) w.e.f. 2023-24

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SUBJECT CODE	Category	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	Th	Т	P	s	CREDITS
BDFD525	PE	INDUSTRIAL ENGINEERING IN GARMENT MANUFACTURING	60	20	20	-		3	0	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

3.David M. Levine, Timothy C. Krehbiel and Mark L. Berenson., "Business Statistics: A First Course", Pearson Education Asia, New Delhi, 2nd Edition, 2000

4. Panneerselvam R., "Production and Operation Management", Prentice Hall of India, 2002

5. Edward S. Buffa and Rakesh Sarin., "Modern Production and Operations Management", John Wiley & Sons, U. S. A., 1987.

6. Lee J. Krajewski and Larry P. Ritzman., "Operations Management: Strategy and

Analysis", Addison Wesley, 2000.

7. Chase, Aquilano and Jacobs., "Production and Operations Management", Tata McGraw-Hill, New Delhi, 8th Edition, 1999.

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B. Des. in Fashion Design w.e.f. 2023-24

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SUBJECT CODE	Category	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
BDF D535	PE	WASTE MANAGEMENT- TEXTILE AND APPAREL IINDUSTRY	60	20	20	0	0	3	0	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

- 1. To give awareness on the importance of textile recycling.
- 2. To impart knowledge the textile recycling methods.

Course Outcomes (COs):

After completion of this course, the students will be able to:

- 1. Understand the importance of textile recycling.
- 2. Relate the method of recycling the fibre, yarn and fabric.
- 3. Analyse the product can be produced from recycled textile materials.

SYLLABUS

UNIT-I FUNDAMENTALS OF RECYCLING

10 Hrs.

Recycling - introduction, principles, concept, importance, Limitation. Theory of recycling process. Environmental and economic benefits. Value addition process - energy and money values. Recyclables products. General recycling process.

UNIT-II TEXTILE AND APPAREL WASTE MANAGEMENT

9 Hrs.

Textile and apparel industries waste - classification, need for recycling. Challenges in textile recycling. Recyclable and recycled textile products. Wearable and reused textiles. Environmental impacts of textile waste treatment. Scope of textile recycling products. Contribution and development of textile and apparel recycling in Indian sectors. Emerging technologies on waste management.

UNIT-III RECYCLING PROCESS - MECHANICAL

10 Hrs

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R. Des. in Fashion Design w.e.f. 2023-24

			TEACHING & EVALUATION SCHEME											
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SUBJECT	Category	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*							
BDFD535	PE	WASTE MANAGEMENT- TEXTILE AND APPAREL HINDUSTRY	60	20	20	0	0	3	0	0	0	3		

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Product design via waste generation. The textile and apparel recycling process - types - postindustrial, by-product and post-consumer. Special recycling processes. Recycling process for natural fibers. Collection of textile and apparel waste -processing textile waste in to fibre - soring process- use of recycled fibres - suitable product development.

UNIT-IV RECYCLING PROCESS - CHEMICAL

8 Hrs.

Introduction, synthesis and properties. Recycling of PET - recycling methods primary, secondary, tertiary and quaternary recycling. Depolymerization techniques. Application and issues.

UNIT-V RECYCLING TEXTILE WASTEWATER

9 Hrs

Pollution problems in textile industry. Industry standards for water pollutants. Water quality requirements Waste materials generated at each level of textile processing. Effluent treatment - primary, secondary and tertiary treatments. Advance methods for treatment - adsorption, ion exchange, membrane filtration, ozonation, evaporation and crystallization. Optimization of processes for water recycling. Direct reuse of waste water. Reuse of reclaimed/recycled water.

TEXTBOOK

1. Wang, Y, "Recycling in textiles", Wood Head Publishing, UK, 2016.

Reference Books

1. Lucy Norris, Cynthia R. Jasper and Emily Lupton Metrish, "Recycling Indian Clothing", Indiana University Press, 2010

2. Horrocks A R, "Recycling textile and plastic waste", Woodhead publishing Limited, UK, 2015.

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B. Design (Fashion Design) w.e.f. 2023-24

			TEACHING & EVALUATION SCHEME											
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SUBJECT CODE	Category	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	Th	Т	P	s	CREDITS		
BDFD506	PECC	SUMMER INTERNSHIP-I				30	20	0	0	4	0	2		

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit. *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than-10 marks.

Course Educational Objectives (CEOs):

1. To impart practical knowledge on working of apparel/retail industry/textile craft cluster.

Course Outcomes (COs): Upon completion of this Internship, the student will be able to

- 1. Exhibit evidence of increased content knowledge gained through practical experience.
 - 2. Describe the nature and function of the organization in which the internship experience
 - 3. Evaluate the internship experience in terms of their personal, educational, and career needs.

SYLLABUS

The students must carry out the internship or craft documentation for 15-30 days in a reputed apparel export manufacturing unit/apparel retail industry or the textile cluster across the country. They should understand the layout, working, products, and clientele of the manufacturing units /retail/handloom cluster. Students should have high-quality photographs of their internship/craft documentation, which should be part of their report.

Documentation should contain the following: ☐ Introduction □ Objectives ☐ Literature review □ Methodology ☐ Process ☐ Summary and Conclusion

☐ Bibliography

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B. Des. in Fashion Design w.e.f. 2023-24

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BDFD507	SEC	GARMENT DESIGN & DEVELOPMENT	1 -	-	-		50	0	0			1

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit: S - Studio. *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

- 1. To understand and develop an aesthetic sense of garment design.
- 2. To impart knowledge and develop designing skills for creating garment designs.
- 3. To give an in-depth knowledge of the development of garments in tune with industry as well as market requirements.

Course Outcomes (COs):

After completion of this course the students will be able.

- 1. To develop various garments.
- 2. To evaluate and analyze the garment components for dressmaking.

Studio Work:

- 1. Develop the Garment Design for stylized ladies' wear.
- 2. Develop the Garment Design for the Baba suit.
- 3. Develop the Garment design from textile waste materials.
- 4. Develop the Eco-friendly Garment (agender garment).

Reference Books:

- 1. Garment Technology for Fashion Designers, Gerry Cooklin, Blackwell Science, 2011.
- 2. Technology of clothing manufacture, Carr & Latham, Wiley Publisher, 2008.
- 3. Cutting & Sewing Theory, Gayatri Verma & Kapil Dev, Asian Publishers, 2015.

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