PERIYAR UNIVERSITY

Periyar Palkalai Nagar
Salem – 636011



DEPARTMENT OF

TEXTILES AND APPAREL DESIGN



SCHOOL OF PROFESSIONAL STUDIES

BACHELOR OF VOCATION (B.VOC)

CHOICE BASED CREDIT SYSTEM (CBCS) &

OUTCOME BASED CURRICULUM DESIGN (OBE)

REGULATIONS AND SYLLABUS (5.0)

2015–2016 (1.0); 2018–2019 (2.0); 2022–2023 (3.0); 2023–2024 (4.0)

IN COMPLIANCE WITH THE UGC GUIDELINES

NATIONAL SKILLS QUALIFICATIONS FRAMEWORK (NSQF)

TAMIL NADU STATE COUNCIL FOR HIGHER EDUCATION (TANSCHE)

EFFECTIVE FROM

ACADEMIC YEAR 2026 – 2027 ONWARDS

B.Voc TEXTILES AND APPAREL DESIGN

Regulations and Syllabus

Effective from the academic year 2026 - 27 and thereafter (TANSCHE)

The department was established during the year 2015-2016.The Undergraduate course offered by the Department is B.Voc in Textiles and Apparel Design which gives an in-depth knowledge of fashion designing, Basics of textiles, Sewing Machine Operator, Quality in apparel production, Draping, Quality Control, Garment Construction, Textile Analysis, Textile Processing, Merchandiser, Apparel merchandising, Industrial Engineering and Computer Application in Designing.

Duration of the Programme

The three-year undergraduate program in B.Voc Textiles and Apparel Design consists of six semesters under Choice Based Credit System with NOS/QP packs approved by the Sector Skill Council.

Eligibility for Admission

A Pass 10+3 Year Diploma, A Pass in Higher Secondary Examination (Academic or Vocational Stream) conducted by the Government of any state, No age Limit.

Teaching Methodologies

The teaching method will be Student Centered approach like On-the-Job Training, Internship, field trip and demonstration.

Examinations

Semester pattern is followed. The examination for the Semester I, III and V will be held in November/December and for Semester II, IV and VI will be in the month of April/May. NSDC Assessment will be held on the Sewing Machine Operator, Production Supervisor, Industrial Engineering and Sourcing Manager Levels followed by NOS.

Scheme for valuation

Evaluation will be done on a continuous basis and will be evaluated four times for a course. The first evaluation will be in the 7th week, the second in the 11th week, third in the 16th week and the end – semester examination in the 19th week. Evaluation will be done by multiple choice questions, analytical and descriptive types.

Credit Calculation

Method of teaching	Hours	Credit
Lecture	1	1
Tutorial/Demonstration	1	1
Practical/Internship/On the job training/ self-Learning	2	1

Scheme for Internal Marks in Theory (Maximum marks - 25)

Attendance	-	05 marks
Assignment	-	05 marks
Internal Tests Best one of two tests	-	10 marks
Model Exam	-	05 marks

Scheme for Internal Marks in Practical (Max.marks-40)

Record	-	20 marks
Model Exam	-	20 marks

Question Paper Pattern (Theory)		
Duration of the Examination - 03 hours		Maximum Marks: 75 Marks
Part A MCQ	Answer All Questions **Each Units: 04 Questions** (Lower order thinking skills K1 – 02 Questions; K2 – 02 Questions)	20 x 1 = 20 marks
Part B Analytical	Answer any 3 out of 5 questions **Each Units: 01 Question** (Higher order thinking skills K4 - All Questions)	03 x 5 =15 marks
Part C Descriptive	Answer All Questions (Either or Choice) **Each Units: 02 Questions** (Lower order thinking skills K2 – from any two units; Middle order thinking skills K3 – from any three units)	05 x 8 = 40 marks

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

- **PEO 1:** Graduates will be employable at various levels in the textile, apparel, fashion, and allied industries, utilizing the knowledge and skills acquired through the B.Voc. Textiles and Apparel Design programme.
- **PEO 2:** Graduates will demonstrate creativity, innovation, and technical competence in textile design, apparel design, product development, and related industry practices.
- **PEO 3:** Graduates will possess entrepreneurial and managerial skills to establish and manage businesses, undertake freelance assignments, and provide consultancy services in the textile and apparel sector.
- **PEO 4:** Graduates will adapt to emerging technologies, sustainable practices, and recent developments in textiles and apparel, and engage in lifelong learning and research activities.

GRADUATE ATTRIBUTES:

1. **Textile and Apparel Knowledge:**

   Apply knowledge of fibres, yarns, fabrics, textile processing, apparel products and their end-use applications, with awareness of textile material selection and performance.

2. **Technical and Vocational Competence:**

   Demonstrate professional skills in sewing, garment construction, pattern making and apparel production, following appropriate industrial methods and workmanship standards.

3. **Design and Creative Thinking:**

   Apply design development, fashion illustration, textile design, product development and creative problem-solving skills to develop innovative and aesthetically appropriate products.

4. **Research and Analytical Skills:**

   Analyze market trends, consumer needs, textile and apparel information, and identify relevant design and product opportunities using systematic approaches.

5. **Industry Readiness and Employability:**

Apply vocational training and industrial exposure to perform effectively and pursue employment opportunities in the textile and apparel sector, with appropriate workplace skills and professional attitudes.

6. **Sustainability and Quality:**

Apply sustainable practices, environmental responsibility and quality standards in textile and apparel design, production and merchandising, while promoting efficient resource utilization.

7. **Entrepreneurship and Innovation:**

Demonstrate entrepreneurship, leadership, design thinking, innovation and freelancing capabilities in the fashion and textile domain, with awareness of business and market opportunities.

8. **Production and Industrial Engineering:**

Apply management tools, production techniques and industrial engineering principles to improve processes, productivity and product quality, with emphasis on efficiency and continuous improvement.

9. **Communication and Teamwork:**

Demonstrate effective communication, professional etiquette, teamwork and professional behaviour in diverse working environments, contributing positively to organizational goals.

10. **Personal and Professional Development:**

Demonstrate ethical values, healthy lifestyle practices, environmental consciousness and commitment to lifelong learning, supporting responsible personal and professional growth.

11. **Digital and Technological Competence:**

Utilize modern tools, digital technologies, CAD systems and industry-relevant software for textile and apparel design and production, adapting to emerging technological developments.

PROGRAMME SPECIFIC OUTCOMES:

PS01. Apply knowledge of fibres, yarns, fabrics, dyes, finishes, and apparel products to analyze textile materials and their end-use applications.

PS02. Demonstrate professional sewing, garment construction, pattern making, and apparel production skills.

PS03. Execute fundamental design development processes, including fashion illustration, textile design, product development, and creative problem-solving.

PS04. Apply research and analytical skills to identify market trends, consumer needs, and design opportunities.

PS05. Utilize vocational training and industrial exposure to secure employment and perform effectively in the textile and apparel sector.

PS06. Apply sustainable practices and quality standards in textile and apparel design, production, and merchandising

PS07. Demonstrate entrepreneurial abilities, leadership qualities, design thinking, innovation, and freelancing competencies in the fashion and textile domain.

PS08. Apply management tools, production techniques, and industrial engineering principles to improve processes, productivity and product quality

PS09. Exhibit effective communication skills, professional etiquette, teamwork, and consistent performance in diverse working environments.

PSO10. Achieve personal and professional growth through healthy lifestyle practices, ethical values, environmental consciousness, and lifelong learning.

PSO11. Utilize modern tools, digital technologies, CAD systems, and industry-relevant software for textile and apparel design and production.

MAPPING OF PROGRAMME SPECIFIC OUTCOMES (PSOs) WITH GRADUATE ATTRIBUTES (GAs)

PROGRAMME SPECIFIC OUTCOMES (PSOs)	GRADUATE ATTRIBUTES (GAs)										
	1	2	3	4	5	6	7	8	9	10	11
PSO1	✓										
PSO2		✓									
PSO3			✓								
PSO4				✓							
PSO5					✓						
PSO6						✓					
PSO7							✓				
PSO8								✓			
PSO9									✓		
PSO10										✓	
PSO11											✓

MAPPING OF PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) WITH PROGRAMME SPECIFIC OUTCOMES (PSOs)

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)	PROGRAMME SPECIFIC OUTCOMES (PSOs)										
	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
PEO 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PEO 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PEO 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PEO 4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

B.VOC PROGRAMME CURRICULUM FRAMEWORK 2026-27 ONWARDS

The programme is structured under the Multiple Entry and Multiple Exit system with National Skills Qualifications Framework (NSQF) level mapping. Entry is provided at the beginning of each academic year, and exit is provided after successful completion of each academic year. The First Year is mapped to NSQF Level 4.5, the Second Year to NSQF Level 5, and the Third Year to NSQF Level 5.5.

FIRST YEAR- NSQF LEVEL: 4.5									**DURATION: 01 Year**		
Part	**Subject Code**	**Semester I**	**Credit**	**Hours**			**Marks**		
				L	**T**	**P**	**CIA**	**EA**	**Total**
	General Education Component								
I	26UPTAD2T01	Language – I **Applied Tamil – I (T)**	**3**	2	1	-	25	75	100
II	26UPTAD2P01	English – I **Professional English – I (P)**	**3**	1	1	2	40	60	100
III	26UPTAD2C01	Core Course – I **Basics of Textiles (T)**	**4**	3	1	-	25	75	100
	26UPTAD2E01	Elective Course – I (Discipline Specific) **Fibre to Fabric (P)**	**2**	-	1	2	40	60	100
			12	**14**					
	Skill Component								
	26UPTAD2C02	Core Course – II **Fashion Designing (T)**	**4**	2	2	-	25	75	100
	26UPTAD2C03	Core Course – III **Portfolio Process - Basic Seams and Apparel Manufacturing Techniques (P)**	**4**	-	3	2	40	60	100
	26UPTAD2M01	**Minor Project and Viva voce – I**	**3**	3			40	60	100
IV	26UPTAD2S01	Skill Enhancement Course – I **Basic Hand Embroidery (P)**	**3**	1	1	2	40	60	100
	26UPTAD2I01	**Internship Assessment – I**	**4**	#21 Hours/Week			40	60	100
			18	**16**					
		Total	**30**	**30**			**900**		

Note # After completing the Internship, Internship Assessment will be conducted in the beginning of the IInd semester

FIRST YEAR- NSQF LEVEL: 4.5				DURATION: 01 Year					
Part	Subject Code	Semester II	Credit	Hours			Marks		
				L	T	P	CIA	EA	Total
	General Education Component								
I	26UPTAD2T02	Language – II **Applied Tamil II (T)**	**3**	2	1	-	25	75	100
II	26UPTAD2P02	English – II **Professional English II (P)**	**3**	1	1	2	40	60	100
III	26UPTAD2E02	Elective Course – II (Discipline Specific) **Chemical Processing of Textiles (T)**	**3**	2	1	-	25	75	100
	26UPTAD2C04	Core Course – IV **Drafting and Computerized Pattern Making Practical (P)**	**3**	-	2	2	40	60	100
			12	**14**					
	Skill Component								
	26UPTAD2C05	Core Course – V **Industrial Garment Machineries and Equipments (T)**	**4**	3	1	-	25	75	100
	26UPTAD2Q01	**Qualification Pack–I: Sampling Tailor** (AMH_Q0701_v4.0)	**5**	2	2	2	*100		
	26UPTAD2M02	**Minor Project and Viva voce – II**	**3**	3			40	60	100
IV	26UPTAD2S02	Skill Enhancement Course – II **Portfolio Process - Training on Quality in Apparel Production (P)**	**2**	-	1	2	40	60	100
	26UPTAD2I02	**Internship Assessment – II**	**4**	#21 Hours/Week			40	60	100
			18	**16**					
		Total	**30**	**30**			**900**		

Note * The assessment will be conducted by Sector Skill Council (Apparel Made ups and Home Furnishing Sector Skill Council)

Note # After completing the Internship, Internship Assessment will be conducted in the beginning of the IIIrd semester

SECOND YEAR - NSQF LEVEL: 5				DURATION:02 Years					
Part	**Subject Code**	**Semester III**	**Credit**	**Hours**			**Marks**		
				L	**T**	**P**	**CIA**	**EA**	**Total**
	General Education Component								
I	26UPTAD2T03	Language – III **Applied Tamil – III (T)**	**3**	2	1	-	25	75	100
II	26UPTAD2P03	English – III **Professional English – III (P)**	**3**	1	1	2	40	60	100
III	26UPTAD2C06	Core Course – VI **Textiles and Apparel Quality Control (T)**	**3**	2	1	-	25	75	100
	26UPTAD2E03	Elective Course – III (Discipline Specific) **Basic Draping (P)**	**3**	-	2	2	40	60	100
			12	**14**					
	Skill Component								
	26UPTAD2C07	Core Course – VII **Fashion Illustration Practical (P)**	**4**	1	2	2	40	60	100
	26UPTAD2C08	Core Course – VIII **Portfolio Process – Apparel Merchandising Techniques and Skills (P)**	**4**	1	2	2	40	60	100
	26UPTAD2M03	**Minor Project and Viva voce – III**	**3**	3			40	60	100
IV	26UPTAD2S03	Skill Enhancement Course – III **Entrepreneurship Development (T)**	**3**	2	1	-	25	75	100
	26UPTAD2I03	**Internship Assessment – III**	**4**	#21 Hours/Week			40	60	100
			18	**16**					
		Total	**30**	**30**			**900**		

Note # After completing the Internship, Internship Assessment will be conducted in the beginning of the IVth semester

SECOND YEAR - NSQF LEVEL: 5				DURATION:02 Years					
Part	Subject Code	Semester IV	Credit	Hours			Marks		
				L	T	P	CIA	EA	Total
	General Education Component								
I	26UPTAD2T04	Language – IV **Applied Tamil IV (T)**	**3**	2	1	-	25	75	100
II	26UPTAD2P04	English – IV **Professional English IV (P)**	**3**	1	1	2	40	60	100
III	26UPTAD2E04	Elective Course – IV (Discipline Specific) **Digital Design Studies in Apparel Industry (P)**	**4**	-	3	2	40	60	100
V	26UPTAD2V01	Value Education – I **Environmental Studies (T)**	**2**	2	-	-	25	75	100
III			**12**	**14**					
	Skill Component								
	26UPTAD2C09	Core Course - IX **Industrial Garment Costing (T)**	**3**	2	1	-	25	75	100
	26UPTAD2C10	Core Course – X **Garment Construction – Kids' Wear (P)**	**3**	-	2	2	40	60	100
	26UPTAD2Q02	**Qualification Pack–II: Merchandiser – Apparel, Made-ups & Home Furnishing** (AMH_Q0911_v4.0)	**5**	2	2	2	*100		
	26UPTAD2M04	**Minor Project and Viva voce – IV**	**3**	3			40	60	100
IV	26UPTAD2I04	**Internship Assessment – IV**	**4**	#21 Hours/Week			40	60	100
			18	**16**					
		Total	**30**	**30**			**900**		

Note * The assessment will be conducted by Sector Skill Council (Apparel Made ups and Home Furnishing Sector Skill Council)

Note # After completing the Internship, Internship Assessment will be conducted in the beginning of the Vth semester

THIRD YEAR - NSQF LEVEL: 5.5									
DURATION:03Years									
Part	**Subject Code**	**Semester V**	**Credit**	**Hours**			**Marks**		
				L	**T**	**P**	**CIA**	**EA**	**Total**
III	26UPTAD2C11	Core Course – XI **Design Thinking for Innovation (T)**	**4**	3	1	-	25	75	100
	Discipline Specific Theory Elective Course – I (Select anyone)								
	26UPTAD2E05	**Traditional Textiles of India (T)**	**3**	3	-	-	25	75	100
	26UPTAD2E06	**Care and Maintenance of Textiles – I (T)**							
	26UPTAD2E07	**Home Textiles – I (T)**							
	Discipline Specific Practical Elective Course – I (Select anyone)								
	26UPTAD2E08	**Boutique Designer – I (Men's Clothing) (P)**	**3**	-	2	2	40	60	100
	26UPTAD2E09	**Boutique Designer – I (Women's Clothing) (P)**							
	26UPTAD2E10	**Surface Embellishments and Traditional Embroidery (P)**							
V	26UPTAD2V02	Value Education – II **Yoga and Fitness (P)**	**2**	2			40	60	100
III			**12**	**13**					
	Skill Component								
	26UPTAD2C12	Core Course – XII **Fabric Structure Analysis (P)**	**3**	1	1	2	40	60	100
	26UPTAD2C13	Core Course – XIII **Graphic Design Studies in Apparel Industry (P)**	**4**	-	3	2	40	60	100
	26UPTAD2C14	Core Course – XIV **Portfolio Process – Industrial Engineering Practice and Documentation In Apparel Industry (P)**	**4**	1	2	2	40	60	100
	26UPTAD2M05	**Minor Project and Viva voce – V**	**3**	3			40	60	100
IV	26UPTAD2I05	**Internship Assessment – V**	**4**	#21 Hours/Week			40	60	100
			18	**17**					
		Total	**30**	**30**			**900**		

Note # After completing the Internship, Internship Assessment will be conducted in the beginning of the VIth semester

THIRD YEAR - NSQF LEVEL: 5.5				DURATION: 03 Years					
Part	Subject Code	Semester VI	Credit	Hours			Marks		
				L	T	P	CIA	EA	Total
	General Education Component								
III	26UPTAD2C15	Core Course – XV **Sustainable Apparel Production (T)**	4	2	2	-	25	75	100
	Discipline Specific Theory Elective Course – II (Select anyone)								
	26UPTAD2E11	**Technical Textiles (T)**	3	3	-	-	25	75	100
	26UPTAD2E12	**Care and Maintenance of Textiles – II (T)**							
	26UPTAD2E13	**Home Textiles – II (T)**							
	Discipline Specific Practical Elective Course – II (Select anyone)								
	26UPTAD2E14	**Boutique Designer – II (Men's Clothing) (P)**	3		2	2	40	60	100
	26UPTAD2E15	**Boutique Designer – II (Women's Clothing) (P)**							
	26UPTAD2E16	**Ornaments and Accessories (P)**							
IV	26UPTAD2S04	Skill Enhancement Course - IV **Professional Competency Skills (T)**	2	2	-	-	25	75	100
III			**12**	**13**					
	Skill Component								
	26UPTAD2C16	Core Course – XVI **Lean Six Sigma Concepts in Apparel Industry (T)**	3	2	1	-	25	75	100
	26UPTAD2C17	Core Course – XVII **Fashion Portfolio Presentation (P)**	2	1	-	2	40	60	100
	26UPTAD2Q03	**Qualification Pack – III: Industrial Engineer (IE) – Apparel (AMH_Q2001_v4.0)**	5	2	2	2	*100		
	26UPTAD2M06	**Minor Project and Viva voce – VI**	3	3			40	60	100
IV	26UPTAD2I06	**Internship Assessment – VI** (Field Training/Work Based Learning)	3	#16 Hours/Week			40	60	100
V	26UPTAD2X01	**Extension Activity**	2	2			20	30	50
			18	**17**					
		Total	**30**	**30**			**950**		

Note * The assessment will be conducted by Sector Skill Council (Apparel Made ups and Home Furnishing Sector Skill Council)

Note # After completing the Internship, Internship Assessment will be conducted

Semester

I

Semester – I

Language – I: Applied Tamil – I (T)

மொழிப்பாடம் – I: பயன்முறைத்தமிழ் I (T)

பாடக் குறியீடு : 26UPTAD2T01 **மதிப்பெண்கள்** : 100 மதிப்பெண்கள் (அகமதிப்பீடு: 25; புறமதிப்பீடு: 75)

L:T:P – 2:1:0 **கற்பித்தல் கால அளவு** : 45 மணி நேரம் **மதிப்பீட்டுப் புள்ளிகள்** : 03

பாட விளக்கம் (Course Description):

இப்பாட நெறியானது மாணவர்களுக்குத் தமிழ் மொழியின் தொன்மை, எழுத்து முறைகளின் தோற்றம் மற்றும் வளர்ச்சி, சரியான ஒலிப்பியல் மற்றும் உச்சரிப்புப் பயிற்சிகள், இலக்கிய மற்றும் பொது வாசிப்புத் திறன், துணி மற்றும் ஆடை வடிவமைப்புத் துறைசார் வணிகத் தொடர்பாடல் உத்திகள் மற்றும் தமிழகத் தொல்லியல் களஆய்வு ஆவணப்படுத்தல் முறைகளை முழுமையாகக் கற்பிக்கும் வகையில் வடிவமைக்கப்பட்டுள்ளது.

பாட விளைவுகள் (Course Outcomes – COs)

வரிசை எண்	பாட விளைவுகள் (Course Outcomes)	கற்றல் களம் (Domains of Learning)
CO1	தமிழ் மொழியின் தொன்மையான எழுத்து வடிவங்களை அறிந்து பிழையற்ற எழுத்துத் திறன் பெறுதல்.	Cognitive Level
CO2	தமிழ் ஒலியியலின் அடிப்படை விதிகளை உணர்ந்து தெளிவான உச்சரிப்பு மற்றும் சொல்வளத் திறன் அடைதல்.	
CO3	இலக்கியங்கள், நாளிதழ்களைச் சரளமாக வாசித்து மேடைகளிலும் பொது வெளியிலும் தடையின்றி உரையாடும் திறன் பெறுதல்.	
CO4	ஆடை வடிவமைப்புத் துறைசார் வணிகக் கலைச்சொற்களைப் பயன்படுத்தி அறிக்கைகள், வணிகக் கடிதங்கள் மற்றும் பதிவேடுகளை உருவாக்கும் திறன் பெறுதல்.	Cognitive / Psychomotor
CO5	தமிழகத்தின் நடுகற்கள், கல்வெட்டுகள், சிற்பங்கள், ஓவியங்கள் மற்றும் கட்டிடக்கலை வரலாற்றுச் சான்றுகளைக் களஆய்வு செய்து ஆவணப்படுத்தும் திறன் பெறுதல்.	

பாடத்திட்ட அலகுகள் (Syllabus Units)

அலகு	அலகின் தலைப்பு	பாடப் பகுதிகள்
I	**எழுத்துத்திறன்**	எழுத்து – எழுத்தின் தோற்றம் – ஓவிய எழுத்து முறை (Pictography) – அசை எழுத்து முறை (Syllabic Writing) – ஒலியன் எழுத்து முறை (Phonetic Writing) – தமிழ் எழுத்து வடிவங்கள் – தமிழி எழுத்து – வட்டெழுத்து – தொல்காப்பியத்தில் விளக்கப்படும் எழுத்து வடிவம் – நிறுத்தக்குறிகள்.

II	**உச்சரிப்புத்திறன்**	தமிழ் ஒலியியல் – ஒலியுறுப்புகள் – உயிரொலிகள் – மெய்யொலிகள் – ஒலிப்பு வேறுபாடுகள் – உயிர் ஒலிகளுக்கான வரைபடம் – தமிழில் கூட்டொலிகள் – நா நெகிழ் பயிற்சி, நா பிறழ் பயிற்சி, சொல்லிணைப் பயிற்சி, ஒலி பிறப்பியல் அடியொற்றிப் பயிற்சி – சொற்களஞ்சியம்: பிறமொழிச் சொல் நீக்கமும் கலைச்சொல்லாக்கமும் – வல்லின எழுத்துகள் மிகும் இடங்களும் மிகாத இடங்களும்.
III	**வாசிப்புத்திறன்**	வாசித்தல், வாசிப்புப் பயிற்சி – இலக்கியங்களின் பாடல்களை வாசிக்கச் செய்தல் – பேச்சுத் திறனை வளர்த்தல் – கலந்தாய்தல், உரையாடல், சொற்போர், கருத்தரங்கு, குழு ஆய்வு, சிந்தனை மேடை, பட்டிமன்றம், வழக்காடு மன்றம், வினாடி மன்றம், மாதிரி மன்ற அமைப்புகள் – தலைப்புகள் கொடுத்துப் பேசச்செய்தல் – செய்தித்தாள் வாசித்தல், மக்களுடன் உரையாடல் பயிற்சியளித்தல்.
IV	**படைப்புத்திறன்**	துறை சார்ந்த வணிகவியல் கலைச்சொற்கள்: துணி, ஆடை மற்றும் வடிவமைப்பு (Textile/Fashion) சார்ந்த வணிகக் கலைச்சொற்களின் பயன்பாடுகள் – தொழில்முறை ஆவணங்கள்: துறை சார்ந்த வணிகக் கட்டுரைகள் எழுதுதல் மற்றும் ஒரு குறிப்பிட்ட துணி நூல் வணிக நிறுவனம் குறித்த முறையான ஆய்வறிக்கை தயாரித்தல் – வணிகத் தொடர்பாடல்: வணிகம்சார் நிகழ்வு / செய்திகளைத் திறனாய்வு செய்தல், அலுவல் கடிதங்கள், படிவங்கள் உருவாக்குதல் மற்றும் தகவல் தொடர்புப் பதிவேடுகளைப் பராமரித்தல்.
V	**செயல்திறன் (களஆய்வு)**	நடுகல்: நடுகல் படி எடுக்கும் முறை, நடுகற்கள் காணப்படும் இடங்கள், நடுகற்களின் உருவ அமைதி, நடுகற்களும் மக்கள் நம்பிக்கையும் – கல்வெட்டு: (திருவாதவூர், சித்தன்னவாசல், அழகர்மலை, ஆனைமலை, திருப்பரங்குன்றம், அரச்சலூர் ஆகிய இடங்களின் கல்வெட்டுகளும் விளக்கங்களும்) – சிற்பம்: (சிற்பங்களின் வகைகள், தமிழ்நாட்டுச் சிற்பங்கள், பல்லவர் காலச் சிற்பங்கள், பாண்டியர், சோழர் சிற்பங்கள்) – ஓவியம்: ஓவியக் கலைச்சொற்கள், தமிழ்நாட்டு ஓவியங்கள் (திருவீழிமிழலை, காஞ்சிபுரம், திருவண்ணாமலை, திருவரங்கம், சிதம்பரம், தஞ்சாவூர், கும்பகோணம், மதுரை, புதுக்கோட்டை), பாண்டியர், பல்லவர், சோழர், விஜயநகர கால நாயக்கர் ஓவியங்கள் – கட்டிடக்கலை: தோற்றம், மரபு, கோயில்கள், அரண்மனைகள் வாயிலாகக் கிடைக்கும் செய்தி மற்றும் விவரங்களை ஆவணப்படுத்துதல்.

பார்வை நூல்கள் மற்றும் வளங்கள் (Reading Lists and Resources)

1. மு. வரதராசனார், *தமிழ் இலக்கிய வரலாறு*, சாகித்திய அகாதெமி, புதுதில்லி.
2. அ. கி. பரந்தாமனார், *நல்ல தமிழ் எழுத வேண்டுமா?*, பாரி நிலையம், சென்னை.
3. கா. பட்டாபிராமன், *மொழிப்பயன்பாடு*, நியூ செஞ்சுரி புக் ஹவுஸ், சென்னை.

பரிந்துரைக்கப்படும் நூல்கள் (Highly Recommended, Not Compulsory):

1. சு. இராசரத்தினம், *தமிழ் ஒலியியல் மற்றும் உருபனியல்*, மணிவாசகர் பதிப்பகம், சென்னை.
2. நடன. காசிநாதன், *தமிழகக் கல்வெட்டுகளும் நடுகற்களும்*, தமிழ்நாடு அரசு தொல்லியல் துறை, சென்னை.
3. சா. பாலுசாமி, *தமிழ்நாட்டுச் சுவரோவியங்கள்*, நியூ செஞ்சுரி புக் ஹவுஸ், சென்னை.

எதிர்கால ஆய்விற்கான நூல்கள் (Good for Students with Future Interests):

1. இரா. நாகசாமி, *தமிழ்நாட்டுக் கலைகள் மற்றும் கட்டிடக்கலை வரலாறு*, தொல்லியல் கழகம், சென்னை.
2. மா. சந்திரமூர்த்தி, *தமிழ்நாட்டுக் கோயிற் கலைகள்*, தி பார்க்கர் வெளியீடு, சென்னை.
3. தமிழ்நாடு பாடநூல் கழகம், *தொழிற்கல்வி: ஆடை வடிவமைப்பு மற்றும் வணிகத் தொடர்பாடல்*, சென்னை.

SEMESTER – I

ENGLISH – I

PROFESSIONAL ENGLISH – I (P)

Course Code: 26UPTAD2P01 **Marks:** 100 Marks (Internal-40; External-60)

L:T:P – 1:1:2 **Course Duration** : 60 Hours **Credit:** 03

Course Description:

This course develops fundamental English language and communication skills required for academic, professional and workplace contexts. It focuses on listening, speaking, reading and writing skills, along with vocabulary, grammar, comprehension, presentation and interpersonal communication. The course provides opportunities for students to participate in discussions, role plays, presentations and workplace-oriented communication activities while developing clarity, confidence and critical thinking.

Course Outcomes (COs)

By the End of the Course, Students will be able to

S. No.	Outcomes	Domain of Learning
CO1	Demonstrate effective listening skills to understand the meaning, context and key information in talks, lectures and interviews.	Cognitive
CO2	Read and comprehend academic and professional texts using appropriate reading strategies.	Cognitive
CO3	Communicate ideas effectively in group discussions, role plays and oral presentations.	Affective
CO4	Prepare coherent written content including summaries, descriptions, essays and creative writing using appropriate language conventions.	Cognitive
CO5	Use appropriate vocabulary, grammar and communication strategies in academic and professional contexts.	Cognitive

Unit	Unit Title	Learning Chapters
I	**Communicative Competence**	**Listening:** Listening to talks and lectures; identifying the main idea, key information and context. **Speaking:** Small-group discussions; expressing opinions and responding appropriately. **Reading:** Reading texts followed by comprehension activities; identifying main ideas, supporting information and contextual meaning. **Writing:** Summary writing; organizing information and presenting ideas clearly.

II	**Description**	**Listening:** Listening to process descriptions and identifying sequence and important details. **Speaking:** Role play in everyday and workplace situations. **Reading:** Skimming and scanning techniques for reading passages. **Writing:** Process description; comparison and contrast. **Grammar:** Verbs – linking verbs.
III	**Negotiation Strategies**	**Listening:** Listening to interviews and identifying key information, opinions and responses. **Speaking:** Negotiation strategies; expressing agreement, disagreement, suggestions and alternatives. **Visual Thinking:** Mind mapping for organizing ideas. **Reading:** Reading longer texts and identifying arguments, supporting ideas and conclusions. **Grammar:** Verbs – helping verbs and action verbs. **Writing:** Essay writing.
IV	**Presentation Skills**	**Listening:** Listening to short academic and professional videos. **Speaking:** Oral presentations using visual and multimedia inputs; presentation techniques and audience interaction. **Reading:** Reading comprehension passages and interpreting visual information. **Writing:** Essay writing on creativity and imagination; interpreting visual inputs. **Grammar:** Adjectives and their appropriate use in descriptions and presentations.
V	**Critical Thinking Skills**	**Listening:** Listening comprehension and identification of key ideas and viewpoints. **Speaking:** Short academic presentations using PowerPoint. **Reading:** Note-making from academic and professional texts; reading motivational articles related to professional competence, professional ethics and life skills. **Writing:** Creative writing and summary writing. **Grammar:** Adverbs and their appropriate use in communication.

READING LISTS AND RESOURCES

TEXTBOOKS

1. TANSCHE. *English for Arts and Social Sciences*. Government of Tamil Nadu.
2. Raman, M., & Sharma, S. (2012). *Technical Communication: Principles and Practice*. Oxford University Press, New Delhi.
3. Lata, P., & Kumar, S. (2011). *Communication Skills*. Oxford University Press, New Delhi.
4. Allen, M. *Smart Thinking: Skills for Critical Understanding and Writing*.
5. Selly, J. (2000). *Oxford Guide to Speaking and Writing*.
6. Agarwala, N. K. (2014). *English Grammar and Composition*. Goyal Brothers Prakashan, New Delhi.
7. Thangasamy, K. S. (2014). *Communicative English for College Students*. Arichum Blooms, Gandhigram, Tamil Nadu.

REFERENCE BOOKS

8. McCarthy, M., & O'Dell, F. (2004). *English Idioms in Use*. Cambridge University Press.
9. Neal, J. M., & Brown, S. S. (1997). *Newswriting and Reporting*. Surjeet Publications, Delhi.
10. **Hewings, M. (2013).** *Advanced Grammar in Use***. 3rd ed. Cambridge University Press.**
11. **Hamp-Lyons, L., & Heasley, B. (2006).** *Study Writing: A Course in Writing Skills for Academic Purposes***. 2nd ed. Cambridge University Press.**
12. **Bailey, S. (2018).** *Academic Writing: A Handbook for International Students***. 5th ed. Routledge.**

ONLINE LEARNING RESOURCES

13. IGNOU eGyanKosh – English language and communication learning resources.
14. British Council – English language and professional communication resources.
15. Purdue Online Writing Lab (OWL) – Academic writing, grammar and communication resources.

SEMESTER – I

CORE COURSE – I

BASICS OF TEXTILES (T)

Course Code: 26UPTAD2C01 **Marks:** 100 Marks (Internal-25; External-75)

L:T:P – 3:1:0 **Course Duration** : 60 Hours **Credit:** 04

Course Description:

This course provides a fundamental understanding of textile fibres, yarn formation, yarn numbering systems, weaving, knitting and nonwoven fabric formation. It introduces the properties and applications of textile fibres, basic spinning processes, yarn characteristics, weaving and knitting technologies, fabric structures, common fabric defects, and the production and applications of nonwoven fabrics.

Course Outcomes (COs)

By the End of the Course, Students will be able to,

S. No	Outcomes	Domains of Learning
CO1	Explain the classification, production, properties, identification and applications of different textile fibres.	Cognitive
CO2	Explain the basic processes of yarn production, yarn numbering systems, yarn quality parameters and different types of yarns including fancy yarns and their applications.	
CO3	Distinguish different types of looms and their working principles and examine common woven fabric defects, their causes and remedies.	
CO4	Explain the terminology, production methods and classification of knitted fabrics and identify common knitted fabric defects, their causes and remedies.	
CO5	Explain the methods of nonwoven fabric production, their properties and applications in various fields.	

Unit	Unit Title	Learning Chapters
I	Textile Fibers	Definition and classification of textile fibres; filament and staple fibres; primary and secondary properties of textile fibres; production, properties and applications of cotton, flax, silk, wool, viscose, polyester and nylon; basic fibre identification methods – physical and chemical tests; applications of textile fibres.
II	Spinning	Introduction to spinning and raw materials; ginning; bale opening; blow room process; carding; combing; drawing; roving; ring spinning and rotor spinning; winding – cone and cheese packages. Yarn numbering systems – direct and indirect systems, Tex, Denier, English Cotton Count (Ne) and Metric Count (Nm); yarn twist and S and Z twist; yarn quality parameters;

		classification of yarns – simple, ply, blended and fancy yarns; yarn package forms – hank, cop, cone, cheese and beam, and their applications.
III	Weaving	Introduction to weaving and preparatory processes – winding, warping and sizing; basic weaving terms – warp, weft, selvedge, shedding, shed, picking, beat-up, reed and heald; loom parts and their functions; principles and functions of primary, secondary and auxiliary motions; passage of material through a plain power loom; classification and introduction to projectile, rapier and air-jet looms; basic weaves – plain, twill and satin; introduction to EPI and PPI; woven fabric defects – types, causes and remedies.
IV	Knitting	Comparison of weaving and knitting; basic knitting terms – loop, stitch, course, wale, gauge and stitch density; types of knitting needles, sinkers and cam settings; basic weft and warp knitting methods; basic weft knitted structures – plain, rib, purl and interlock; comparison of warp and weft knitting; warp knitting terminology – overlap, underlap, closed lap and open lap; properties and applications of knitted fabrics; knitted fabric defects – types, causes and remedies.
V	Non-woven	Definition and classification of nonwoven fabrics; fibres used in nonwoven production; web formation methods; bonding methods – mechanical, chemical and thermal bonding; spun-bond and melt-blown processes; properties, applications and end uses of nonwoven fabrics in apparel, medical, hygiene, industrial and other fields.

READING LISTS AND RESOURCES

Compulsory

1. Kadolph, S. J. (2012/2013). *Textiles Basics*.
2. Kadolph, S. J., & Marcketti, S. B. (2017). *Textiles*.
3. Sinclair, R. (Ed.). (2014). *Textiles and Fashion: Materials, Design and Technology*. Woodhead Publishing.
4. Fuchs, H., & Kittelmann, W. (2006). *Nonwoven Fabrics: Raw Materials, Manufacture, Applications, Characteristics, Testing Processes*.
5. *Naik, S., & Naik, S. D. (2013). Weaving and Knitting Technology.*
6. Nonwovens: Process, Structure, Properties and Applications. *(2017).*

Highly Recommended, not Compulsory

7. Gandhi, K. (Ed.). (2019). *Woven Textiles: Principles, Technologies and Applications*. 2nd ed. Woodhead Publishing.
8. Cook, J. G. (1984). *Handbook of Textile Fibres: Natural Fibres*.
9. Ehrmann, A., & Blachowicz, T. (2017). *Examination of Textiles with Mathematical and Physical Methods*. Springer.
10. *Industrial Applications of Natural Fibres: Structure, Properties and Technical Applications*. (2010).
11. *El Messiry, M. (2017). Natural Fiber Textile Composite Engineering.*
12. Handbook of Natural Fibres, Volume 1: Types, Properties and Factors Affecting Breeding and Cultivation. *(2020).*

Good for Students who have Future Interests

13. *NIIR Board. (2009). The Complete Technology Book on Textile Spinning, Weaving, Finishing and Printing.*
14. *Alvarez, N. C. (2017). Secrets of Spinning, Weaving, and Knitting in the Peruvian Highlands.*
15. *Handbook of Natural Fibres, Volume 1: Types, Properties and Factors Affecting Breeding and Cultivation. (2011).*
16. *Ahmad, S., Rasheed, A., & Nawab, Y. (Eds.). (2020). Fibers for Technical Textiles. Springer.*
17. *Muthu, S. S. (Ed.). (2022). Sustainable Approaches in Textiles and Fashion: Fibres, Raw Materials and Product Development. Springer.*

SEMESTER – I

ELECTIVE COURSE – I (DISCIPLINE SPECIFIC)

FIBRE TO FABRIC (P)

Course Code: 26UPTAD2E01 **Marks:** 100 Marks (Internal-40; External-60)

L:T:P – 0:1:2 **Course Duration** : 45 Hours **Credit:** 02

Course Description:

This course provides hands-on experience in the identification and analysis of textile fibres, yarns and fabrics using standard laboratory methods and instruments. Students will develop practical skills in fibre identification, yarn count and twist determination, woven and knitted fabric analysis, fabric defect identification and fabric selection for apparel end uses.

Course Outcomes (COs)

By the End of the Course, Students will be able to

S. No	Outcomes	Domains of Learning
CO1	Identify textile fibres using microscopic, burning and chemical methods.	Psychomotor
CO2	Determine yarn count and twist using appropriate instruments and practical methods.	
CO3	Identify the construction and physical characteristics of woven and knitted fabrics using appropriate tools and instruments.	
CO4	Detect the common fabric defects and select suitable fabrics for specific apparel end uses.	

Unit	Unit Title	Learning Chapters
I	**Fiber identification**	Identify textile fibres using microscopic, burning and chemical methods – cotton, silk, jute and rayon; record observations and identify fibres based on their physical, microscopic, burning and chemical characteristics.
II	**Yarn Analysis**	Determine yarn count using the wrap reel and weighing balance method. Determine yarn count using Beesley's Balance from yarn packages and fabric samples. Determine twist per inch (TPI) using a twist tester.
III	**Fabric Analysis**	**Woven Fabric Analysis:** Determine Ends Per Inch (EPI) and Picks Per Inch (PPI) using a pick/counting glass; determine GSM using a quadrant balance and weighing balance; determine bending length using a stiffness tester. **Knitted Fabric Analysis:** Determine Courses Per Inch (CPI) and Wales Per Inch (WPI) using a pick/counting glass; determine GSM using a GSM cutter and weighing balance.

IV	**Fabric Defect Analysis and End-use Application**	Identification of weaving defects, knitting defects and common processing defects; classification of defects based on their appearance and characteristics; analysis of probable causes; selection of suitable fabrics for specific apparel end uses.
Laboratory Equipment: Projection microscope, fibre identification chemicals, burning test kit, pick/counting glass, wrap reel, weighing balance, quadrant balance, Beesley's balance, twist tester, stiffness tester, GSM cutter, scissors, measuring tools, needles/pins and thread separator.		

READING LISTS AND RESOURCES

Compulsory

1. Houck, M. M. (Ed.). (2009). *Identification of Textile Fibers*. Woodhead Publishing.
2. Behera, B. K., & Hari, P. K. (2010). *Woven Textile Structure: Theory and Applications*. Woodhead Publishing.
3. Gokarneshan, N. (2009). *Fabric Structure and Design*. New Age International.
4. Ray, S. C. (2012). *Fundamentals and Advances in Knitting Technology*. Woodhead Publishing.
5. Banerjee, P. K. (2014). *Principles of Fabric Formation*. CRC Press.

Highly Recommended – Not Compulsory

7. Gandhi, K. (Ed.). (2019). *Woven Textiles: Principles, Technologies and Applications*. 2nd ed. Woodhead Publishing.
8. Hu, J. (2004). *Structure and Mechanics of Woven Fabrics*. Woodhead Publishing/CRC Press.
9. Hayavadana, J. (2016). *Woven Fabric Structure, Design and Product Planning*.
10. Shenton, J. (2014). *Woven Textile Design*.
11. Kyosev, Y. (2019). *Warp Knitted Fabrics: Construction*.
12. Crow, A. E. (2013). *Knitting: Colour, Structure and Design*.

Good for Students Who Have Future Interests

13. Adanur, S. (2019). *Handbook of Weaving*.
14. Anbumani, N. (2007). *Knitting Fundamentals, Machines, Structures and Developments*.
15. Messenger, J., & Wilson, H. (2003). *Textile Technology*.
16. Gandhi, K. (Ed.). (2019). *Woven Textiles: Principles, Technologies and Applications*. 2nd ed. Woodhead Publishing.

SEMESTER – I

CORE COURSE – II

FASHION DESIGNING (T)

Course Code: 26UPTAD2C02 **Marks:** 100 Marks (Internal-25; External-75)

L:T:P – 2:2:0 **Course Duration** : 60 Hours **Credit:** 04

Course Description:

This course introduces the fundamental concepts, terminology and principles of fashion and fashion design. It provides an understanding of the elements and principles of design, colour theories and their application in apparel design. The course also covers fashion cycles, trends, figure types, figure irregularities, styling, design development and wardrobe planning for different age groups, occasions and seasons. The course develops students' ability to analyze and apply fundamental fashion design concepts in apparel.

Course Outcomes (COs)

By the End of the Course, Students will be able to

S. No.	Outcomes	Domains of Learning
CO1	Explain fundamental concepts, terminology, fashion cycles, trends and the roles of fashion professionals in the apparel industry.	Cognitive
CO2	Explain and analyze the elements of design and their application in structural and decorative apparel design.	
CO3	Explain and analyze the principles of design and their application in apparel and dress design.	
CO4	Explain colour theories, dimensions, colour harmonies and their application in apparel design.	
CO5	Analyze figure types, figure irregularities and factors influencing apparel design and explain suitable design and wardrobe planning approaches for different users, occasions and seasons.	

Unit	Unit Title	Learning Chapters
I	Fashion Industry terms	**Fashion and Fashion Design:** Definition and concepts of design, style, fashion, trend, fad, classic and collection. Fashion cycle – recurring and interrupted cycles. Fashion forecasting and its importance in the apparel industry. High fashion, fast fashion and prêt-à-porter. **Fashion Design Terminology:** Toile, mannequin, size, fit, portfolio, theme, season, fashion show, embellishment, knock-off, counterfeit, chic, custom-made/bespoke, prêt-à-porter, avant-garde and haute couture. **Fashion Professionals:** Fashion director, fashion editor, costume designer and fashion designer – roles and responsibilities in styling,

		design development and garment production. **Fashion Idea Development:** Introduction to brainstorming and mind mapping as methods for generating and organizing fashion ideas. **Essential Fashion Vocabulary:** Identification and understanding of **50 essential terms commonly used in the fashion and apparel industry**, including terminology related to fashion, design, garments, production, retail, trends and styling.
II	Elements of design	**Design:** Definition and types of design – structural and decorative design; characteristics and requirements of good structural and decorative design. **Elements of Design: Line** – horizontal, vertical, diagonal, curved, wavy, circular, semi-circular and zig-zag. **Shape and Form** – two-dimensional shapes and three-dimensional forms. **Colour** – colour as an element of design. **Size** – relationship of size and proportion in apparel design. **Texture** – tactile and visual characteristics of textile and apparel surfaces. **Application of Elements:** Application of structural and decorative design using the elements of design in apparel and fashion products. Visual effects of different lines, shapes, sizes and textures on garment appearance.
III	Principles of design	**Balance:** Symmetrical/formal and asymmetrical/informal balance. **Rhythm:** Rhythm through repetition, radiation and gradation. **Emphasis:** Convergence, isolation/separation, exception, subordination and contrast. **Harmony:** Concept and application of harmony in apparel design. **Proportion:** Standard, altered, hierarchical and exaggerated/out-of-proportion applications. **Application of Principles:** Relationship between the principles of design and garment appearance; application of balance, rhythm, emphasis, harmony and proportion in apparel and dress design.

IV	Colour and its application	**Colour:** Definition and importance of colour in fashion and apparel design. **Colour Theories:** Prang colour system and Munsell colour system. **Dimensions of Colour:** Hue, value and intensity/chroma. **Colour Classification:** Warm, cool and neutral colours. **Psychological Attributes of Colour:** Psychological and visual effects of colour in apparel and fashion. **Colour Harmonies:** Achromatic, Monochromatic, Analogous, Single complementary, Double complementary, Split complementary, Clash, Triadic, Tetradic. **Application of Colour:** Selection and application of colour harmonies in apparel and dress design; relationship between colour, garment appearance, wearer and occasion.
V	Design development for various Figure types	**Figure Types and Figure Irregularities:** Characteristics of different body and figure types – tall, short, slender, stout, pear/triangle, hourglass, rectangular/column, trapezoid/quadrilateral, diamond, inverted triangle/wedge and oval/apple. **Figure Analysis and Apparel Design:** Influence of silhouette, line, shape, proportion, colour and design details on the visual appearance of different figure types. **Factors Influencing Design Application:** Age group, occasion, season, location, lifestyle and functional requirements. **Wardrobe Planning:** Principles of wardrobe planning; selection and coordination of garments for formal, casual, party and sportswear. **Apparel Design for Different Users:** Design considerations for men, women and children based on figure characteristics, age, occasion and seasonal requirements. **Design Development:** Selection of appropriate silhouettes, design elements, principles and colour combinations for different figure types and apparel requirements.

READING LISTS AND RESOURCES

Compulsory

1. Blair, J. E. (1992). *Fashion Terminology*. Prentice Hall.
2. Sumathi, G. J. (2007). *Elements of Fashion and Apparel Design*. New Age International.
3. *The Fashion Design Manual*. (1996). Macmillan Education AU.
4. Sorger, R., & Udale, J. (2006). *The Fundamentals of Fashion Design*.
5. Bleicher, S. (2011). *Contemporary Color: Theory and Use*. Cengage Learning.
6. Best, J. (Ed.). (2012). *Colour Design: Theories and Applications*. Woodhead Publishing.
7. Jones, S. J. (2011). *Fashion Design*. Laurence King Publishing.

Highly Recommended, not Compulsory

8. Udale, J. (2014). *Textiles and Fashion: Exploring Printed Textiles, Knitwear, Embroidery, Menswear and Womenswear*. A&C Black.
9. Calderin, J. (2009). *Form, Fit, Fashion: All the Details Fashion Designers Need to Know But Can Never Find*. Rockport Publishers.
10. Hopkins, J. (2012). *Fashion Design: The Complete Guide*. A&C Black.
11. Sorger, R., & Udale, J. (2017). *The Fundamentals of Fashion Design*. 2nd ed. Bloomsbury.

Good for Students Who Have Future Interests

12. McKelvey, K., & Munslow, J. (2011). *Fashion Design: Process, Innovation and Practice*. Wiley.
13. Seivewright, S. (2012). *Basics Fashion Design 01: Research and Design*. AVA Publishing.
14. Sorger, R. (Ed.). (2017). *The Fashion Designer's Textile Directory*. Thames & Hudson.

SEMESTER – I

CORE COURSE – III

PORTFOLIO PROCESS - BASIC SEAMS AND APPAREL MANUFACTURING TECHNIQUES (P)

Course Code: 26UPTAD2C03 **Marks:** 100 Marks (Internal-40; External-60)

L:T:P – 0:3:2 **Course Duration** : 75 Hours **Credit:** 04

Course Description:

This course provides practical training in basic hand sewing, seams, seam finishes, fullness, garment components and basic garment assembly techniques. Students develop hands-on skills in constructing and assembling garment components using appropriate sewing techniques and industrial sewing machines, with emphasis on accuracy, workmanship, quality and sustainable practices in apparel manufacturing.

Course Outcomes (COs)

By the End of the Course, Students will be able to

S. No	Outcomes	Domains of Learning
CO1	Demonstrate basic hand sewing, temporary and permanent stitches, button and fastening techniques, and repair methods.	Psychomotor
CO2	Construct basic seams, seam finishes and fullness techniques using appropriate sewing methods.	
CO3	Construct and assemble basic garment components such as collars, pockets, sleeves, yokes, plackets and necklines using industrial sewing machines.	
CO4	Assemble garment components into a basic men's shirt while maintaining construction accuracy, workmanship and quality at identified checkpoints.	

Unit	Unit Title	Learning Chapters
I	Hand Sewing	Basic hand sewing techniques; button sewing – two-hole and four-hole buttons, snap buttons and hooks; buttonhole; hemming; patch work; stitch repair methods; sustainable hand-sewing techniques and appropriate use of materials.
II	Basic seams and seam Finishes	**Basic Seams:** Plain seam, top stitch, single top-stitched seam, double top-stitched seam, welt seam, French seam, flat-felled seam, slot seam and piped seam. **Seam Finishes:** Pinked finish, edge-stitched finish, double edge-stitched finish, and bound-edge finish. **Fullness Techniques:** Darts, tucks, pleats, gathers, shirring, smocking. **Sustainable Seam Construction:** Material-efficient seam construction and appropriate selection and use of sustainable sewing materials.

III	Garment Components	Construction of basic collars – stand collar, band collar and shawl collar; pockets – patch pocket and welt pocket; sleeves – plain, raglan and puff sleeves; sleeve cuffs; yokes – single and double; plackets – continuous, faced, shirt-front and sleeve plackets; zipper placket; necklines – shaped, bias and binding finishes.
IV	Assembling a Garment	Preparation and assembly of component parts of a basic men's shirt; sewing sequence and construction techniques; joining of major garment components; finishing operations; identification of quality checkpoints during garment assembly; checking seam accuracy, alignment, stitch quality, appearance and workmanship.
Laboratory equipment: Hand sewing needles, sewing threads, scissors, measuring tools, seam ripper, pins, single needle lockstitch machine, overlock machine – 3-thread and 5-thread, ironing equipment and other basic garment construction tools and equipment.		

READING LISTS AND RESOURCES

Compulsory

1. Oszust, J. (2020). *Sewing Guide: Hand Sewing, Machine Sewing and Examples*. Merchant & Mills.
2. Denham, C. N. (2014). *Sewing Book: Hand Sewing Techniques / Machine Know-How / Tools / Notions / Projects / Patterns*.
3. Knight, L. (2019). *Handbook of Sewing Stitches: An Illustrated Guide to Techniques and Materials*.
4. Mollie Makes. (2018). *How to Sew: With Over 80 Techniques and 20 Easy Projects*.
5. Smith, J. (2011). *Guide to Basic Garment Assembly for the Fashion Industry*.

Highly Recommended – Not Compulsory

6. Dorn, R. (2008). *The Sewing Machine*.
7. Vasbinder, N. (2014). *Super Stitches Sewing: A Complete Guide to Machine-Sewing and Hand-Stitching Techniques*.
8. Jindal, R. (1998). *Handbook for Fashion Designing: Best Drafting Techniques*.
9. Fischer, A. (2015). *Sewing for Fashion Designers*.

Good for Students Who Have Future Interests

10. Karthik, T., Ganesan, P., & Gopalakrishnan, D. (2017). *Apparel Manufacturing Technology*.
11. *Apparel Engineering and Needle Trades Handbook*.
12. *Super Stitches Sewing: A Complete Guide to Machine-Sewing and Hand-Stitching Techniques*.

SEMESTER – I

MINOR PROJECT AND VIVA VOCE – I

Course Code: 26UPTAD2M01 **Marks:** 100 Marks (Internal-40; External-60)

L+T+P = 3 **Course Duration** : 45 Hours **Credit:** 03

Course Description:

This course introduces students to the fundamentals of identifying problems and developing innovative product ideas in the field of textiles and apparel. Students will identify a relevant problem, propose an innovative solution, examine its uniqueness, utility, market potential and economic and environmental sustainability, and document the project systematically. The project enables students to apply creative thinking, basic research, product development and presentation skills through an individual or team-based practical project.

Course Outcomes (COs)

By the End of the Course, Students will be able to

Unit	Unit Title	Learning Chapters
1.	Problem Identification	Identify a relevant problem, need or opportunity in textiles, apparel or related fields. Define the problem clearly and establish its relevance to contemporary market, societal or industrial requirements.
2.	Solution Proposed/Idea	Generate and propose an innovative solution or product idea using appropriate creative thinking, brainstorming and problem-solving techniques. Describe the proposed product, materials, processes and basic development approach.
3.	Uniqueness	Establish the uniqueness and distinctive features of the proposed product or solution. Compare the proposed idea with existing products or solutions, where applicable, and identify its competitive advantages.
4.	Utility value/ Value proposition	Identify and explain the functional, aesthetic, social or commercial benefits of the proposed product or solution. Establish how the innovation addresses the identified problem or user requirement.
5.	Scalability	Examine the market potential of the proposed product or solution by identifying the potential market size, market segment, target users and possibilities for further development or production.
6.	Economic sustainability	Examine the economic feasibility and commercialization potential of the proposed product or solution. Identify major material, production and other associated costs and consider its potential for business or commercial application.
7.	Environment sustainability	Evaluate the environmental aspects of the proposed product or solution, including responsible material selection, resource efficiency, waste reduction, reuse, recycling and other relevant sustainable practices.
8.	Documentation	Prepare a systematic project report covering Components I–VII with appropriate descriptions, sketches, process documentation, high-quality photographs and supporting evidence. Develop a short video demonstrating the innovative product or solution and present the project for evaluation and viva voce.

SEMESTER – I

SKILL ENHANCEMENT COURSE – I

BASIC HAND EMBROIDERY (P)

Course Code: 26UPTAD2S01 **Marks:** 100 Marks (Internal-40; External-60)

L:T:P – 1:1:2 **Course Duration** : 60 Hours **Credit:** 03

Course Description:

This course provides practical training in basic and decorative hand embroidery techniques. Students will develop skills in selecting suitable fabrics, threads, needles and embroidery tools; transferring and developing motifs; executing different types of embroidery stitches; and combining stitches to create decorative floral and surface designs. The course also introduces sustainable embroidery practices and enables students to apply embroidery techniques in the development of useful apparel and home-based products.

Course Outcomes (COs)

By the End of the Course, Students will be able to

S. No.	Outcomes	Domains of Learning
CO1	Demonstrate basic and flat embroidery stitches with appropriate control of fabric, thread and needle.	Psychomotor
CO2	Apply different filling stitches to develop decorative embroidery surfaces and motifs.	
CO3	Execute different knotted embroidery stitches to create decorative effects and motifs.	
CO4	Combine basic, filling, knotted and floral embroidery stitches to develop decorative motifs and useful textile products.	

Unit	Unit Title	Learning Chapters
I	Basic / flat stitches	Running stitch – whipped and laced, backstitch, chain stitch, stem stitch, herringbone stitch, seed stitch, cross stitch, couching.
II	Filling stitches	Satin stitch, short and long satin stitch, Cretan stitch, fishbone stitch, buttonhole stitch, blanket stitch, feather stitch, fly stitch, Kadai Kamal, pattern darning, Romanian stitch, weaving stitch.
III	Knotted stitches	French knot, long French knot, Peking knot, bullion knot, coral stitch.
IV	Floral embroidery stitches	Lazy daisy, spider wheel, 3D cast-on stitch, looped stem stitch, tassel flower, pom-pom, woven picot stitch flower.
Core Skills		Develop any three useful textile products or decorative articles using the embroidery techniques learned in Units I–IV, such as blouse/kurti neck designs, greeting or gift articles, wall décor, accessories, table mats, floral motifs on handkerchiefs, cushion covers, handbags or pillow covers.

Laboratory Equipment and Materials: Embroidery needles, embroidery threads, cotton and other suitable fabrics, embroidery hoop/frame, embroidery scissors, fabric marking tools, tracing paper, design transfer materials, thimble, needle threader, measuring tools and other basic embroidery accessories.

READING LISTS AND RESOURCES

Compulsory

1. Webb, M. (2006). *Embroidery Stitches*.
2. Ritu. (1995). *Attractive Embroidery Designs*. Indica Publishers.
3. Shailaja, M., & Naik, D. (1996). *Traditional Embroideries of India*. KPH Publishing Corporation.
4. Holland, A. S. (1985). *Treasury of Smocking Designs*. New York.

Highly Recommended, not Compulsory

5. Singh, D. J., & Davidson, J. (2017). *How to Teach Yourself Cutwork Embroidery*.
6. Singh, D. J., & Davidson, J. (2016). *Learning Patchwork: Traditional Patchwork Techniques*.
7. Singh, D. J., & Davidson, J. (2016). *Learn to Quilt*.
8. Singh, D. J., & Davidson, J. (2016). *Learning Decorative Stitches: The Art of Shirring and Smocking*.

Good for Students Who Have Future Interests

9. Howard, C. (1956). *Design for Embroidery: From Traditional English Sources*.
10. *Modern Embroidery Series*. MBD Publishers, 1995.
11. Pynan, K., & Carole. (1982). *The Harmony Guide to Decorative Needle Craft*. Lyric Books Ltd.

SEMESTER – I

INTERNSHIP ASSESSMENT – I

Course Code: 26UPTAD2I01 **Marks:** 100 Marks (Internal-40; External-60)

L:T:P – 21 Hours/Week **Course Duration** : 10-15 days **Credit:** 04

Course Description:

This course provides students with an opportunity to gain first-hand exposure to the textile and apparel industry through internship, field training or work-based learning. Students will observe industrial operations understand the organization and functioning of different departments, identify the machinery and equipment used, document the knowledge and skills gained, and reflect on their workplace experience. The course develops students' professional awareness, workplace attitudes, problem-solving ability, documentation skills and understanding of career and placement opportunities in the industry.

Course Outcomes (COs)

By the End of the Course, Students will be able to

S. No	Report List	Learning Chapters
I	Front Sheets	Letter of Undertaking, Daily Attendance Sheet, Internship Certificate
II	Overview of the Company	Brief History, Nature of Business, Types of Machineries and Equipment used, Number of employees, Major Customers, Organizational Structure, Introduction of all the departments and their functions
III	Knowledge and Skills Gained	a. Knowledge acquired b. Skills learned c. Observed attitudes and gained values: d. The most challenging task performed:
IV	Self-Evaluation	Problem Identification Problems Identified in the Company Recommendations and Suggestions for the Problem Overview of Placement Opportunities
V	Summary	Personal Experiences Recommendations and suggestions Overview of the work based learning experience and feedback Conclusion
VI	Appendix	Samples of the work done during the internship.