M.Sc. FASHION TECHNOLOGY

SEM	Course Code	Course	Course Title	Ins. Hrs / Week	Credit	Exam Hrs	Marks		Total
							CIA	ESE	
I	20PFT1CC1	Core – I	Advanced Textile Production	6	5	3	25	75	100
	20PFT1CC2	Core – II	Quality Standards and Specification	6	5	3	25	75	100
	20PFT1CC3P	Core – III	Fashion Illustration and Embellishment - Practical	6	4	3	25	75	100
	20PFT1CC4P	Core – IV	Fashion Draping and Construction - Practical	6	4	3	25	75	100
	20PFT1DE1	DSE – I #		6	4	3	25	75	100
			TOTAL	**30**	**22**				**500**
II	20PFT2CC5	Core – V	Research Methods and Statistics	6	5	3	25	75	100
	20PFT2CC6	Core – VI	Technical Textile	6	5	3	25	75	100
	20PFT2CC7P	Core – VII	Computer Aided Designing - Practical - I	6	4	3	25	75	100
	20PFT2CC8P	Core – VIII	Design with Prints – Practical	6	4	3	25	75	100
	20PFT2DE2	DSE – II #		6	4	3	25	75	100
			TOTAL	**30**	**22**				**500**
III	20PFT3CC9	Core – IX	Textile Testing	6	5	3	25	75	100
	20PFT3CC10P	Core – X	Textile Testing - Practical	6	5	3	25	75	100
	20PFT3CC11P	Core – XI	Home Textiles – Practical	6	4	3	25	75	100
	20PFT3CC12P	Core – XII	Computer Aided Pattern Making and Grading - Practical – II	6	4	3	25	75	100
	20PFT3DE3	DSE – III #		6	4	3	25	75	100
	20PFT3EC1	Extra Credit Course – I	Online Course (MOOC)	-	1*	-	-	-	-
			TOTAL	**30**	**22**				**500**
IV	20PFT4CC13	Core – XIII	Advanced Wet Processing	6	5	3	25	75	100
	20PFT4CC14	Core – XIV	Export Documentation	6	5	3	25	75	100
	20PFT4CC15P	Core – XV	Fashion Portfolio Presentation – Practical	6	5	3	25	75	100
	20PFT4PW	Project	Project	12	8	-	-	200	200
	20PCNOC	Online Course		-	1	-	-	-	-
	20PFT4EC2	Extra Credit Course - II	Fashion Technology for Career Examinations	-	5*	3	-	100	100*
			TOTAL	**30**	**24**				**500**
			GRAND TOTAL		**90**				**2000**

***Not considered for grand total and CGPA**

 # Discipline Specific Elective

SEMESTER	COURSE CODE	DISCIPLINE SPECIFIC ELECTIVE
I	20PFT1CE1A	Fashion Marketing and Retailing
	20PFT1CE1B	Computer Application in Fashion Designing
II	20PFT2CE2A	Entrepreneurial Development
	20PFT2CE2B	Home Textiles
III	20PFT3CE3A	Home Science
	20PFT3CE3B	Digital Marketing

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20PFT1CC1	Core – I	ADVANCED TEXTILE PRODUCTION	6	5	100	25	75

Course Outcomes :

At the end of the course, students will be able to

1. Acquire the recent developments in the field of textiles
2. Apply knowledge in yarn manufacturing process.
3. Categorize the techniques of weaving and woven fabrics.
4. Construct knowledge in knitting
5. Interpret the nonwoven and its manufacturing process

UNIT-I: Fibers –Recent development **18 hours**

Fibers-Introduction, Natural polymer-chitin and chitosan, alginate, manufacturing process-Sustainable fibers- introduction, properties and uses lotus, hemp, stinging nettle**,** coffee ground, pine and banana fiber **.**Conventional fibers- carbon, glass, and optical fibers -Structure and end uses

UNIT-II: Yarn manufacturing process **18 hours**

Yarn Spinning System –Staple fibers-Ring Spinning, Rotar Spinning, Friction Spinning, self twist spinning, Electrostatic, and Airjet-Filament-wet, dry and melt spinning, Bicomponent and film splitting reaction spinning.-Integrated Multicomponent yarn-Integrated Composite spinning , cover spinning, Selfil yarn spinning and Acro dynamic spinning.Electro spinning-nano fabrication and its application

UNIT- III: Fabric Manufacturing-Weaving **18 hours**

Weaving- Introduction , Advantages and Disadvantages of shuttle and shuttle less looms-projectile looms, rapier looms,fluid jet and Multiphase looms. Handloom, 3D woven fabric - Classification and woven filters.

UNIT-IV: Knitting **18 hours**

Knitting-introduction,Fabric geometry general terms – stitch density –,patterning in weft and warp knitting – pattern needles and chain links – tension control – relation between loop length and construction –fabric relaxation and shrinkage. Elastometric yarn knitting and pile knitting Flat knitting machine-v bed, 3D knits.

UNIT-V: Non wovens **18 hours**

Nonwovens- basic manufacturing process-staple fibre web formation process, web bonding process-mechanical, thermal, chemical, polymer extrusion based technology-Needle punched process, Finishing process of Nonwovens-mechanical and Chemical #Properties and Uses of Nonwovens.

#……..# Self-Study Portion

TEXT BOOK :

Study Material Prepared By Department.

Unit I Chapter I & II

Unit II Chapter I & II Chapter II& III

Unit III Chapter V & X

Unit IV Chapter III & IV

Unit v Chapter II

Books for Reference:

1. Stephen J Eichhorn, 2009, Handbook of Textile Fibre Structure , Woodhead Publishing, new jersey
2. Dong Zhang, 2014, Advances in Filament Yarn Spinning of Textiles and Polymers, Woodhead Publishing, new jersey.
3. Xiaogang Chen, 2015, Advances in 3D Textiles, Woodhead Publishing, Amsterdam
4. Russel, S. J., 2007, Handbook of nonwovens, Woodhead Publishing Ltd., UK,
5. D.B Ajgaonkar 1998 Knitting Technology, Woodhead Publishing Limited,
6. K. F. Au 2011 Advances in Knitting Technology Woodhead Publishing UK
7. Peters, R. H., Textile Chemistry, Elsevier Scientific Publishing Company, New York, 1975.
8. Hall, A. J, Textile Finishing, Haywood Books, London, 1996

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**		**Title of the Paper**			**Hours**				**Credits**
I	**20FT1CC1**		**ADVANCED TEXTILE PRODUCTION**			**6**				**5**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓		✓	✓	✓		✓	✓	✓	
CO2		✓	✓		✓	✓	✓	✓	✓	
CO3	✓	✓	✓	✓	✓			✓	✓	✓
CO4	✓	✓	✓	✓	✓		✓		✓	
CO5	✓	✓		✓	✓	✓		✓		✓
NUMBER OF MATCHES= 36, RELATIONSHIP : High										

Prepared by : checked by:

1. V.C.Archana 1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20PFT1CC2	Core - II	QUALITY STANDARDS AND SPECIFICATIONS	6	5	100	25	75

Course Outcomes :

At the end of the course, students will be able to

1. Identify the quality standards and importance of quality control in textile industry
2. Indicate quality parameters in textiles
3. Propose the quality factors in apparel and textiles
4. Appraise quality control programs and techniques
5. Estimate quality control in labeling

UNIT-I: INTRODUCTION TO QUALITY STANDARDS 18 hours

Introduction to quality standards - Importance - Benefits - Levels and sources of quality standards #. British standards and ISO standards, ISO 9000, ISO 1400, ASTM, BIS, AATCC Standards. ISO Standards for fiber, yarn, fabric, apparel, sewing and knitting machines. Okeo Tex Standard 100.

UNIT-II: QUALITY INSPECTIO 18 hours

Raw material inspection, In-process inspection – Quality followed in cutting department- Sewing department- Finishing and packing department – Textile Product Evaluation, # Atmospheric conditions for Testing #, Fabric Stretch Properties, dimensional changes in fabric due to laundering - dry cleaning and pressing , seam strength in woven and knitted fabrics.

UNIT-III: QUALITY FACTORS IN APPAREL18 hours

Sensitizing dye stuff, Allergic dyes, Carcinogenic amines, Red listed chemicals as per eco specifications. Eco-management of textile and apparel - Global scenario -Eco mark & environment friendly textiles. Apparel defects- Raw materials to packing, Quality Costs and Customer returns.

UNIT-IV: QUALITY CONTROL PROGRAMME AND TECHNIQUES 18 hours

Starting a quality control program - Implementation of quality system in production line - Product specification and analysis using analytical tools - Quality management through inspection - Testing and sewing quality tools, 4-point and 10- point system – Quality concept and costs; quality assurance; statistical quality control, acceptance sampling, zero defects, six sigma, Quality Cycle.

UNIT-V: LABELING IN APPAREL 18 hours

Introduction to Care Label-Importance of care label- Labeling Systems- American, British, Canadian, and International labeling -shade sorting - factors responsible for shade variation. ECO labeling and marking.

#.....# Self Study Portion

TEXT BOOKS:

T.B – 1 Mehta.P.V and Bhardwaj.S.K, Managing Quality in the Apparel Industry, New age international Ltd Publishers, 1998.

T.B – 2 Kadolph.S.J, Quality assurance for textiles and apparel, 2nd edition, Fair child Publications, Inc, New York, 2008.

T.B-3 Souza.N.D, Fabric Care, New age International (P) Ltd, Publishers, Chennai.

Books for References:

1. Pradip V. Mehta J.S.N. An introduction to quality control for the apparel industry International, 1985
2. Mehta.P.V and Bhardwaj.S.K, Managing Quality in the Apparel Industry, New age international Ltd Publishers, 1998.
3. Glock Ruth E., Glock Apparel Manufacturing: Sewn Product Analysis, 4/E
4. J.E.Booth, Newness Butterworth, London - Principles of Textile Testing

5.Billie J. Collier and Helen E. Epps, Prentice Hall, New Jersey- Textile Testing and Analysis

6. John H. Skinkle, Brooklyn, New York - Textile Testing
7. Groover and Hamby-Handbook of Textile Testing and Quality Control

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**			**Hours**		**Credits**	
I	**20PFT1CC2**			**QUALITY STANDARDS AND SPECIFICATIONS**			**6**		**5**	
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓		✓			✓	✓	✓		✓
CO2		✓	✓		✓	✓	✓	✓		
CO3	✓		✓	✓		✓	✓	✓	✓	✓
CO4		✓	✓		✓	✓	✓	✓		
CO5	✓			✓		✓		✓	✓	✓
Number of Matches= 32, Relationship : Moderate										

Prepared by :

checked by:

1. K. Sudha

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20PFT1CC3P	Core – III	FASHION ILLUSTRATION AND EMBELLISHMENT – PRACTICAL	6	4	100	20	80

Course Outcome:

At the end of the course, students will be able to

1. Acquire fashion figures using Head theory.
2. Draw the different states, countries and seasons.
3. Design the sketch for different wears.
4. Illustrate the sketch for different occasions.
5. Design a garment for Embellishment work.

UNIT 1: PREPARE SKETCHES FOR THE FOLLOWING

1. Lay figure - 7½ Head Theory. **3 hours**
2. Fashion Figure - 8 Head Theory. **3 hours**
3. Sketch the costumes of Fashion figure – 10 Head Theory. **4 hours**

UNIT 2: SKETCHING THE FOLLOWING

1. Sketching of Different States **10 hours**
2. Sketching of Different Countries **10 hours**
3. Sketching for Different Seasons **10 hours**

UNIT 3 : ILLUSTRATE THE FOLLOWING TYPES OF WEAR'S FOR UNISEX

1. Casual Wear **4 hours**
2. Night Wear **4 hours**
3. Executive Wear **4 hours**
4. Ramp Wear **4 hours**

UNIT 4 : ILLUSTRATE THE FOLLOWING OCCASSIONAL WEAR'S FOR UNISEX

1. Cocktail Wear **4 hours**
2. Party Wear **4 hours**
3. Traditional Wear **4 hours**
4. Sports Wear **4 hours**

UNIT 5 : ILLUSTRATE THE FOLLOWING TREND WEAR'S FOR UNISEX

5. Current Trend With Pantone Backdrop **6 hours**
6. Rendering Techniques **6 hours**
7. Surface Embellishment (Wealth Out of Waste) **6 hours**

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**				**Hours**		**Credits**
I	**20PFT1CC3P**			**FASHION ILLUSTRATION AND EMBELLISHMENT – PRACTICAL**				**6**		**4**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓		✓	✓	✓		✓		✓
CO2	✓	✓		✓					✓	
CO3	✓		✓			✓		✓		✓
CO4	✓	✓			✓	✓	✓	✓		
CO5	✓	✓	✓	✓		✓	✓	✓	✓	
Number of Matches= 30, Relationship : Moderate										

Prepared by :

1. K.R.Thenmozhi

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20PFT1CC4P	Core – IV	FASHION DRAPING AND CONSTRUCTION – PRACTICAL	6	4	100	20	80

Course Outcomes:

At the end of the course, students will be able to

1. Create design and idea for draping.
2. Understand and identify the basic draping
3. Design and develop the individual parts of the garment in draping
4. Apply the types of garments in draping. (Party wear, princess wear).
5. Interpret the Different techniques for draping.

UNIT-I FASHION DRAPING **15 hours**

1. Introduction to Draping
2. Illustrate and drape the Blocks

UNIT-II BASIC DRAPING **15 hours**

3. Basic Bodice for Men and Women
4. Waist Line Variation – Natural / Drop / Empire

UNIT-III DESIGN DEVELOPMENT **16 hours**

5. Party Wear – Yoke / Princess
6. Drape the Historical wear with accessories

UNIT-IV PRINCIPLES OF DESIGN **16 hours**

7. Drape the Balance, Rhythm,Harmony
8. Drape the Design for-Emphasis, Proportion

UNIT-V COMBINATION OF DESIGN **16 hours**

9. Fullness – Pleats, Darts, Tucks, Gathers, Ruffles

10. Haute couture Designs- Frocks

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**		**Hours**			**Credits**	
I	**20PFT1CC4P**			**FASHION DRAPING AND CONSTRUCTION – PRACTICAL**		**6**			**4**	
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓		✓			✓	✓	✓		✓
CO2	✓	✓	✓	✓	✓	✓			✓	
CO3				✓		✓	✓	✓	✓	
CO4		✓			✓		✓		✓	✓
CO5	✓	✓	✓	✓	✓	✓		✓		✓
Number of Matches= 31, Relationship : Moderate										

Prepared by :

1. B.Jabeen

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20PFT1DE1A	DSE – I	FASHION MARKETING AND RETAILING	6	4	100	25	75

COURSE OUTCOME:

At the end of the course, students will be able to

1. Identify the marketing techniques
2. Analyze and develop the Marketing segments
3. Understand fashion Retailing
4. Apply the Business Ethics
5. Systemize the Merchandise

UNIT-I: MARKETING **18 hours**

Marketing – Definition, # types and functions #, concept – system – environment –tasks – mix, market survey and research.

UNIT-II: MARKET PLANNING AND DEVELOPMENT **18 hours**

Product planning and development product innovation – organization for product innovation – new product, planning process – manufacturer's criteria for new product – timing of new product – product life cycle – product mix – failure of new product – product line policies and strategies – # factors influencing changes in product mix # – strategic planning process.

UNIT-III: FASHION RETAILING **18 hours**

Classification of on-site Retailers – multi – channel Fashion Retailing – The Global Scene – Trends in On-Site Fashion Retailing – Small Store Applications. Organizational Structures: The need for Organizational Structures – Fashion Retailing Organization Charts – Trends in Organizational Structures.

UNIT-VI: SOCIAL RESPONSIBILITY AND ENVIRONMENTS **18 hours**

Social Responsibility: Business Ethics – Social Responsibility – Trends in Ethics and Social Responsibility. Environments: Choosing the Location - Classification of Shopping Districts - Site Selection – Occupancy Considerations – Trends in Store Locations.

UNIT-V: MERCHANDISING FASHION PRODUCTS **18 hours**

Planning and Executing the purchase – Fashion Buyers Duties and Responsibilities – Trends in Purchase Planning - Purchasing in the Domestic and Off-Shore Markets - The Domestic Market Place – Off-Shore Fashion Markets – Pricing Considerations.

#.....# Self Study Portion

TEXT BOOK:

T.B-1 Apparel Marketing - Study Material prepared by the Department.

UNIT- I Chapter I **T.B-1**

UNIT-II Chapter II **T.B-1**

UNIT-III Chapter III **T.B-1**

UNIT-IV Chapter IV **T.B-1**

UNIT V Chapter V **T.B-1**

Books for References:

1.Kotler, Keller Koshy., "Marketing Management", Jha.Pearson Education", 2009.
2.Elizabeth, Richards.A, David Rachman, " Market Information and Research in Fashion Management", Marketing Classics Press, 2011.
3. Diomond.E, Fashion Retailing, A Multi-Channel Approach, Second Edition, Dorling Kindersley Pvt Ltd., 2007.
4.Myron.M, Lebensburger, " Selling Men's Apparel Through Advertising, McGraw-Hill book Company, 1939

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**			**Hours**			**Credits**
I	**20PFT1DE1A**			**FASHION MARKETING AND RETAILING**			**6**			**4**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓		✓		✓	✓			✓
CO2	✓	✓			✓	✓		✓	✓	✓
CO3			✓	✓	✓	✓	✓	✓		✓
CO4	✓	✓		✓		✓		✓	✓	
CO5	✓	✓	✓	✓	✓		✓		✓	
Number of Matches= 33, Relationship : Moderate										

Prepared by :

1. B.Jabeen

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20PFT1DE1B	DSE – I	COMPUTER APPLICATION IN FASHION DESIGNING	6	4	100	25	75

Course outcome:

At the end of the course, students will be able to

1. Interpret the essentials of CAD software in fashion industry.
2. Explain the practical knowledge with CAD theory.
3. Develop knowledge in selection of colour and selection of fabric related to current fashion trends.
4. Discover the opportunities and applications of CAD in textile industry.
5. Show the importance about presentations and graphics in fashion industry.

UNIT-I: INTRODUCTION **18 hours**

Introduction and definition for CAD, # Computer and Fashion Industry. Acceptance of New Technology #. Quick response Technology. CAD in today's Fashion Industry. Types of CAD Systems– Textile Design System,illustrations / Sketchpad System. Texture Mapping – Draping Software,Embroidery System, Specification and Costing System.

UNIT-II: SILHOUETTE **18 hours**

Silhouette- Introduction # understanding shape # fabric selection and Silhouette, proportion, line, focal point, cut, fit and construction, Coordinating Silhouette, Rendering Silhouette, Computer rendering of Silhouette

UNIT-III: SOFTWARES IN TEXTILES AND APPAREL MACHINERY **18 hours**

Digitizing and grading system, Marker-Making Systems, Pattern Design Software, Robotics in Garment manufacturing Technology. # Commercial Software Systems #.Knitting Machines, Embroidery Machines, Cutting, Spreading, Pattern Making Machine

UNIT-IV: COLOUR AND FABRIC SELECTION **18 hours**

Colour –Introduction, Colour systems, working with Colour, understanding the Colour wheel, Colour and apparel industry, communicating Colour, Colour and digital word, Colour for visualization vs. Colour for production, # Computer Colour Matching #. Fabric selection process, organizing the fabrics, designing textiles, printed fabrics using scanner, Computerized pattern generation.

UNIT-V: PRESENTATION AND GRAPHICS **18 hours**

Introduction, External Presentation, Internal Presentation, # Planning a Presentation – Organization and Composition #. Computer generated Presentation, Computer generated Catalogues, Presentation Board, Multimedia and 3 – D Presentation.

#.....# Self Study Portion

TEXT BOOK:

T.B-1 CAD for Fashion Design, by Rene Weiss Chase, Prentice Hall, Upper Saddle River, London**.**

UNIT- I	Chapter I& II	**T.B-1**
UNIT- II	Chapter VII	**T.B-1**
UNIT- III	Chapter II&III	**T.B-1**
UNIT- IV	Chapter V&VI	**T.B-1**
UNIT- V	Chapter VIII	**T.B-1**

Books for References:

1.Mikell P.Groover, Emory W.Zimmers, Jr. – "CAD / CAM Computer – Aided Design and Manufacturing" – 1983.

2.Alison Beazley and Terry Bond, "Computer – Aided Pattern Design and Product Development" – Blackwell Publishing, 2003.

3.Stacy Stewart Smith, "CAD for Fashion Design and Merchandising" – Fair Child Publications, 2013.

4.Laura Nugent, "Computerized Pattern Making for Apparel Production" – Fair Child Publications,2008

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**			**Hours**			**Credits**
I	**20PFT1DE1B**			**COMPUTER APPLICATION IN FASHION DESIGNING**			**6**			**4**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1		✓	✓	✓		✓	✓	✓		✓
CO2	✓	✓		✓	✓		✓	✓	✓	✓
CO3	✓		✓	✓		✓			✓	✓
CO4			✓	✓	✓	✓	✓		✓	✓
CO5	✓				✓		✓	✓		✓
Number of Matches= 33, Relationship : Moderate										

Prepared by :

1. V.C.Archana

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20PFT2CC5	Core – 5	RESEARCH METHODS AND STATISTICS	6	5	100	25	75

Course Outcomes:

At the end of the course, students will be able to

1. Explain the fundamental principles and techniques of methodology concerning research.
2. Analyze the statistical procedure, numerical data and draw inferences.
3. Demonstrate the knowledge about sampling and scaling techniques for the research study.
4. Show the importance of measure of tendency, dispersion and correlation for the research study.
5. Knowledge about parametric and non-parametric signification in research study.

UNIT-I: RESEARCH METHODOLOGY **18 hours**

Meaning of Research, Objectives of Research, Types of Research, Research Process, and Criteria of Good Research. Defining the Research Problem, necessity of defining the problem, Technique involved in defining a problem. Research Design – Meaning and Needs, # Features of Good Design, Important Concepts relating to Research Design #.

UNIT-II: SAMPLING AND SCALING TECHNIQUES **18 hours**

Sample Design # different types of sampling designs # – probability and non- probabililty methods. Technique of developing measurement tools, Meaning of scaling, rating scale, scale construction techniques – arbitrary scales, differential scales, summated scales, cumulative scales, factor scales.

UNIT-III: DATA COLLECTION **18 hours**

Methods of Data Collection, Primary Data - Observation Method, # Interview Method, Questionnaires, Schedules, Difference between Questionnaires and Schedules #. Secondary Data - Selection of Appropriate Method for Data Collection, Case Study Method. Processing of data – editing and coding of data.

UNIT-IV: MEASURE OF CENTRAL TENDENCY, DISPERSION &

CORRELATION **18 hours**

Meaning and Scope of Statistics #, Measure of Central Tendency – mean, median and mode. Measures of dispersion – range, quartile deviation, mean deviation, standard deviation and co-efficient variation. Correlation – Definition, difference between co-efficient of Correlation and Rank Correlation, Regression analysis.

UNIT-V: TESTS OF SIGNIFICANCE **18 hours**

Tests of Significance/ Hypothesis – meaning. Parametric Tests for Small Sample – Student's t-distribution, Fisher's Test – ANOVA (One Way and Two Way). Non-Parametric Tests for Large Sample – Chi-Square, # important characteristics of x^2 #.

#.....# Self Study Portion

TEXT BOOKS:

T.B-1 Kothari .C.R, Research Methodology methods and techniques, 2nd Edition, New Age International Publishers, New Delhi, 2004.

T.B-2 Manoharan.M, Statistical Methods Theory and Practice, Palani Paramount Publications, Tamil Nadu, 1992.

UNIT-I	Chapter I, II & III	**T.B-1**
UNIT-II	Chapter IV & V	**T.B-1**
UNIT-III	Chapter VI & VII	**T.B-1**
UNIT-IV	Chapter VI, VII, IX & X	**T.B-2**
UNIT-V	Chapter XVIII & XIX	**T.B-2**

Books for References:

1.Gupta.S.P, "Statistical Methods", Sulthan Chand and Sons, New Delhi, 1996.
2.Devada.R.P, "A Handbook on Methodology of Research", Sri Ramakrishna Vidyalaya Coimbatore, 1989.
3.Agarval.V.P, "Statistical Methods", Sterling Publishers, Private Limited, 1990.
4.Best.J.M. & Kahn.J.V, "Research in Education', Prentice Hall of India Limited, New Delhi, 1989.

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**				**Hours**		**Credits**
II	**20PFT2CC5**			**RESEARCH METHODS AND STATISTICS**				**6**		**5**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓		✓		✓		✓		✓
CO2	✓	✓		✓			✓	✓		
CO3	✓	✓		✓		✓	✓	✓		
CO4	✓	✓	✓	✓	✓		✓	✓		✓
CO5	✓	✓		✓	✓	✓		✓		
Number of Matches= 31, Relationship : Moderate										

Prepared by :

1. R. Jeevitha

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20PFT2CC6	Core – VI	TECHNICAL TEXTILE	6	5	100	25	75

Course Outcomes:

At the end of the course, students will be able to

1. Acquire the fibers in technical textiles.
2. Identify the recent development in technical textiles.
3. Understand the concept of textile technology. .
4. Categorize the minor and allied industries.
5. Analysis the different research organization..

UNIT-I: TECHNICAL TEXTILE **18 hours**

Definition and Scope of Technical Textiles. Technical Textiles-Field of applications. Role of Fibers in Technical textile-classic fibres and special fibres. Fabric Structure –Woven, Knitting and Non-Woven-Laid scrims, Braiding and rope making. # Different types of Fabric in Technical Textiles – Properties#.

UNIT-II: RECENT DEVELOPMENT IN TECHNICAL TEXTILES **18 hours**

Role of textiles in agriculture - Horticulture-Forestry and fishing. Features of build tech-Textile reinforcement, Textile roofing and membranes. Clothing-Components of clothing and footwear industry. Geo textile-Soil sealing, Drainage, Textile for civil and hydraulic engineering. # Components of Home tech-furniture #. Textiles in industry - Filtration textile reinforcement.

UNIT-III: DEVELOPMENTS IN TEXTILE TECHNOLOGY **18 hours**

Medical and hygienic textiles. Textiles for transportation –automotive, aerospace, shipbuilding and railway vehicle industries. Textiles for environment protection. # Textile for personal and property protection # - Work wear and fire protection. Packtech-Industrial and consumer pack. Sport textiles-sporting and leisure applications.

UNIT-IV: TEXTILE INDUSTRIES OF INDIA MINOR & ALLIED INDUSTRIES **18 hours**

Origin and Growth of Major Textile Industries – Cotton, Wool, Silk and Jute. Growth of synthetic and manmade textiles-Viscose rayon, Nylon and polyester # Recent Developments in these Industries #. Origin and Growth of Minor Textile Industries and Allied Industries – Coir, Leather, Paper, Chemicals, Dyes Textile Machinery

UNIT-V: SMALL SCALE INDUSTRIES AND RESEARCH ORGANIZATION **18 hours**

Origin, Growth and Development of Hosiery and Readymade Garment ,Handloom, Power loom and Kadhi Industries Ministry of textiles-Role and its functions. Research Organization –

SITRA, NITRA, SASMIRA, AITRA, TEA, SIMA, NIFT, CIRCOT, BITRA, MANDRA, Indian Jute Research Association # Export promotion Council-AEPC, ISEPC #.

#.....# Self Study Portion

TEXT BOOK:

T.B-1 Horrocks, A.R. and Anand, S.C, Handbook of Technical Textiles, The Textiles Institute, Wood Head Publishing Ltd., England, 2000.
T.B-2 Study material prepared by the department.
T. B-3 Textile Economics - Study Material prepared by the Department.

UNIT-I	Chapter I & II	**T.B-1 & 2**
UNIT-II	Chapter XIX	**T.B-1 & 2**
UNIT- III	Chapter XV	**T.B -1 & 2**
UNIT-IV	Chapter XVIII	**T.B-2 & 3**
UNIT-V	Chapter XVI	**T.B-2 & 3**

Books for References:

1. Pandy.S.N, Potential for the use of natural fibers in civil engineering, Jute technological research laboratory, 2002.
2. Rigby, A.J.andAnand S.C, Non-Woven in medical healthcare products, technical textiles, Int., 1996.

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**			**Hours**		**Credits**	
II	**20PFT2CC6**			**TECHNICAL TEXTILE**			**6**		**5**	
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓		✓		✓	✓			
CO2	✓	✓		✓		✓	✓	✓		
CO3	✓	✓		✓		✓		✓		✓
CO4				✓		✓	✓	✓		
CO5	✓	✓		✓		✓	✓	✓		
Number Of Matches= 30, Relationship : Moderate										

Prepared by :

1. R.Jeevitha

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20PFT2CC7P	Core – VII	COMPUTER AIDED DESIGNING PRACTICAL – I	6	4	100	20	80

Course Outcomes:

At the end of the course, students will be able to

1. Develop the Principles of related fields into the use of Rich peace softwares.
2. Analyze relationship between design elements for parametric modelling
3. Prepare and Evaluate design solutions based on defined criteria
4. Design and Modify the functions of richpeace software.
5. Demonstrate digital proficiency(use of computer, basic operating system functions, network,drive and drive navigation) etc.

UNIT-1: CROQUIES

1. Development of Croquies based on the Head Theories for Children, women and men in Various poses. **9 hours**

UNIT-2: ELEMENTS OF DESIGN

2. Creating a garment for-printed design. – Children's wear. **9 hours**

3. Creating a garment for – Stripped and checks Design- men's wear. **9 hours**

4. Creating a garment for – One way and Overall Design- women's wear. **9 hours**

UNIT-3: SPECIAL OCCASION COSTUMES

5. Create the special occasion costume of any state – Both Men and Women. **9 hours**

6. Create the special occasion costume of any state – Both Men and Women. **9 hours**

UNIT-4: BRIDAL WEAR

7. Create the bridal wear costumes based on culture (any 2) – Both Men and Women. **9 hours**

8. Create the bridal wear costumes based on culture (any 2) – Both Men and Women. **9 hours**

UNIT-5: FASHION ACCESSORIES AND ORNAMENTS

9. Designing different types of Fashion Accessories with eco friendly **9 hours**

- Hand bag (Jute bag ,silk bags)
- Hats/Head coverings.

10. Designing different types of intimate garment. **9 hours**

- Disabled wears
- Pregnancy wears

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**				**Hours**		**Credits**
II	**20PFT2CC7P**			**COMPUTER AIDED DESIGNING PRACTICAL – I**				**6**		**4**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	1.		2.	✓	1.		✓	✓	✓
CO2		3.		4.	✓	2.		✓	✓	✓
CO3	✓	5.			✓			✓	✓	✓
CO4	✓	6.			✓	✓		✓		✓
CO5		7.		8.		✓		✓	✓	✓
Number of Matches= 33, Relationship : Moderate										

Prepared by :

1. C. Jenitta

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20PFT2CC8P	Core – VIII	DESIGN WITH PRINTS -PRACTICAL	6	4	100	20	80

Course outcomes:

At the end of the course, students will be able to

1. Construct designs with discharge, resist and various print methods
2. Contrast and design garments based on prints
3. Illustrate the direct print methods
4. Develop the Accessories with direct prints
5. Choose various methods of print technique

UNIT 1 - Resist Printing

1. Design samples with different Tie and Dye methods **15 hours**
2. Design samples with types of Batik

UNIT II - Garment Designing and Construction for Kids in Casual style

1. Construct Casual style of garment for girls with Tie and Dye methods **15 hours**
2. Construct Casual style of garment for boys with Tie and Dye methods

UNIT III - Direct Printing **15 hours**

1. Design samples with stencil print creating stencils
2. Design samples with different types of Block printing
3. Design samples with Screen Printing technique

UNIT IV - Accessories Designing and Construction for men and Women. **15 hours**

1. Design and construct a hand bag with stencil print
2. Design a head gear with any type of Block printing methods
3. Design and construct a sling bag with Screen Printing technique

UNIT IV - Painting and Imagination **15 hours**

1. Design a Sample and a garment with Fabric Painting
2. Design and Create any garment or accessories with any of the above methods

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**		**Title of the Paper**			**Hours**			**Credits**	
II	**20PFT2CC8P**		**DESIGN WITH PRINTS PRACTICAL**			**6**			**4**	
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓	✓		✓	✓	✓	✓	
CO2	✓		✓	✓	✓	✓		✓	✓	✓
CO3	✓	✓		✓	✓	✓	✓		✓	
CO4			✓	✓		✓	✓	✓		✓
CO5	✓	✓	✓	✓	✓	✓			✓	✓
Number of Matches= 37, Relationship : High										

Prepared by :

1. V. C. Archana

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20PFT2DE2A	DSE – II	ENTREPRENEURIAL DEVELOPMENT	6	4	100	25	75

COURSE OUTCOME:

At the end of the course, students will be able to

1. Acquire the parameters to assess opportunities and constraints for new business ideas, market strategies.
2. Discuss the strategies for implementation of ideas.
3. Schedule the finance for business.
4. Develop and lead a business in successful manner.
5. Analyze challenges facing by entrepreneur and labor recruitment.

UNIT-I: Business Idea creation & Market Assessment **16 hours**

Business ideas, methods of generating ideas, and opportunity recognition Steps involved in Setting up Business – identifying, selecting a Good Business opportunity, Market Survey and Research-Techno Economic Feasibility Assessment –# Preparation of Preliminary Project Reports # – Project Appraisal – Sources of Information

UNIT-II: **Preparation for Business plans** **16 hours**

Preparing a Business Plan- Meaning and significance of a business plan, Importance of BP, components of a BP, and feasibility study Business Opportunity Identification, Managing a successful business, Preparation for product – Pricing – Objectives, Influencing factors, methods strategies for new products and existing products, # Product Life Cycle (PLC) #.

UNIT-III: **Financial plan for Business** **16 hours**

Financing the New Venture: Importance of new venture financing, types of ownership securities, venture capital, types of debt securities, Determining ideal debt-equity mix, and # Financial institutions and banks#, choosing the legal form of new venture, protection of intellectual property, and marketing the new venture.

UNIT-IV: Government Support to Entrepreneur **15 hours**

Licensing in Entrepreneurship, Government's schemes Entrepreneur - **Multiplier Grants Scheme (MGS) for IT Research and Development,** T**he Venture Capital Assistance Scheme, Credit Guarantee, Raw Material Assistance, MSME Market Development Assistance, Atal Incubation Centres (AIC),** # Taxation benefits to small scale industry#.

UNIT-V: **Challenges Faced by Entrepreneur** **15 hours**

Labor recruitment, HR management, production planning, Achievement Motivation Training, Self Rating, Business Games, Thematic Apperception Test – Stress Management, #Entrepreneurship Development Programs – Need, Objectives#.

#.....#

TEXT BOOKS:

T.B-1 Gupta and Srinivasan N.P., Entrepreneurial Development, Sultan Chand & Sons, New Delhi.

T.B-2 Donald F Kuratko, " Entrepreneurship – Theory, Process and Practice", 9th Edition, Cengage Learning 2014

Books for References:

1.S.S. Khanka, "Entrepreneurial Development", S.Chand& Company Ltd., Edn.2001, New Delhi.

2.Hisrich R D, Peters M P, "Entrepreneurship" 8th Edition, Tata McGraw-Hill, 2013.

3.Mathew J Manimala, "Entrepreneurship theory at cross roads: paradigms and praxis" 2nd Edition Dream tech, 2005.

4. Rajeev Roy, 'Entrepreneurship' 2nd Edition, Oxford University Press, 2011.

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**				**Hours**		**Credits**
II	**20PFT2DE2A**			**ENTREPRENEURIAL DEVELOPMENT**				**6**		**4**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓	✓		✓	✓	✓		
CO2	✓	✓	✓	✓		✓	✓		✓	
CO3			✓	✓		✓	✓			✓
CO4		✓	✓	✓			✓		✓	
CO5	✓		✓	✓	✓	✓		✓	✓	
Number of Matches= 31, Relationship : Moderate										

Prepared by :

1. M. Abirami

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20PFT2DE2B	DSE – II	HOME TEXTILES	6	4	100	25	75

Course Outcome:

At the end of the course, students will be able to

1. Recognize the different types of home furnishing.
2. Design the production method of different types of home textile products.
3. Practice the student of interior design knowledge on the foundation in various aspects of fabrics can be applied in design of interiors.
4. Experiment the finishing process to enhance the fabric end-use potential.
5. Improve the product with color and pattern into fabric to enhance the sale ability of textile products.

UNIT I: **INTRODUCTION TO HOME TEXTILES** **18 hours**

Definition, Types of Home textiles (Woven and non-woven). Factors influencing, selection of Home textiles. Recent trends in Home Textiles.

UNIT II: **FLOOR AND WALL COVERINGS** **18 hours**

Definition of floor covering-Types of floor covering - hard, soft, and resilient floor covering, #Uses and care of floor covering.# Definition of wall covering, Uses and care of wall coverings.

UNIT III: **DOOR AND WINDOW TREATMENTS** **18 hours**

Definition and parts of Door and Windows. Definition - Curtains and Draperies, Materials used for Curtains and Draperies, Types of curtains - Draw, tailored, pleated, cafe curtains, three tire curtains. Type of draperies – swags. Accessories - rods hook, rails, racks, curtain tape pins.

UNIT IV: **SOFT FURNISHING. FOR LIVING AND BEDROOM** **18 hours**

Definition for Living and Bedroom linens-Types of living and bedroom linens-Sofa, sofa covers, Wall hangings, Cushion/cushion covers, Upholsteries, Bolster and bolster covers, Bed sheets, covers, Blankets, blanket covers, Comfort and comfort covers, Bed spreads, Mattress and mattress covers, #Pillow and pillow covers, Pads, Uses and care advantages and disadvantages#.

UNIT V: **SOFT FURNISHING FOR KITCHEN AND BATHROOM LINEN** **18 hours**

Definition-Types of kitchen linens, Dish cloth, hand towels, Fridge, mixie and grinder covers. Their uses and care. Definition for dinning, Bathroom linens – types#. Factors affecting the selection of table and bathroom linens. Use and care #.

#.....# Self Study Portion

TEXT BOOK:

T.B.1 Home Textile –Study Material prepared by the Department.

Books for References:

1. Cheryl Mendelson, Home Comforts the Art and Science Keeping house Published by Scriber, New York. 2005.

2. Hanlyn octopus, Cushions and Pillows- Professional Skills made easy, Octopus Publishing group – New York, 2001.

3. Magi Mc McCormick Gordon, the Ultimate Sewing Book 200 sewing ideas for you & your home. Collins & Brown, London, 2002.

4. Anne van Wagner Childs Leisure Arts- Inc., Sew- no- more Home Décor ,Arkansas, U.S.A,1993.

5. Mary Mulasi, Garments with style, Chiton Book Company,Pennsylvania,1995.

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**				**Hours**		**Credits**
II	**20PFT2DE2B**			**HOME TEXTILES**				**6**		**4**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓			✓	✓	✓	✓		✓
CO2	✓	✓		✓		✓	✓	✓		
CO3	✓	✓					✓		✓	
CO4	✓			✓	✓	✓			✓	
CO5	✓	✓				✓		✓		✓
Number of Matches= 32, Relationship : Moderate										

Matching Percentage: 64%

Prepared by :

1. K.R.Thenmozhi

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1-29%	30-59%	60-69%	70-89%	90-100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very poor	Poor	Moderate	High	Very high

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
III	20PFT3CC9	Core-IX	Advanced Textile Testing	6	5	100	25	75

Course Outcomes:

At the end of this course, students will be able to

1. Identify the standards of testing
2. Understand the textile testing methods
3. Acquire knowledge in advanced properties of textile
4. Analyse the microbial activity and tests
5. Evaluate the tests in performance textiles

UNIT-I: FABRIC TESTING **17 Hours**

Testing –#Introduction- Textiles in Testing, Importance of fabric testing, scope of fabric testing. #Methods of tests for fabric dimensions and other physical properties-thickness, weight, crimp, shrinkage, air permeability, water permeability, Aesthetic properties of fabric: drape, stiffness, crease recovery, Importance of Standards. Sampling methods and Sampling Errors.

UNIT-II: POLYMER TESTING METHOD **18 Hours**

Introduction to Polymers -Characterization Approaches of polymers, Gel permeation Chromatography-Theory, Principle-Experimental Protocol- Applications of GPC. Thermal Analysis-, Principle-Experimental Protocol -Thermo gravimetric analysis—Rheological Analysis-High pressure Capillary Rheometry.

UNIT- III: ADVANCED CHARACTERIZATION TECHNIQUES **17 Hours**

Thermal and Water Vapour Resistivity –SGHP instrument, Moisture Management-MMT, Air Permeability-method of testing, IR Thermograph.

UNIT-IV: TESTS FOR DYED AND FINISHED FABRICS **19 Hours**

Color Fastness -Introduction _Grey Scale -Colour fastness to Rubbing-Crockmeter-Colour fastness to Washing- Colour fastness to Light- Colour fastness to Sublimation, Fire Retardency Test-Oil and Water Repellency tests-hydrostatic pressure tests-Antimicrobial tests-Procedure and Assesments.

UNIT-V:TESTING OF TECHNICAL TEXTILES **19Hrs**

Introduction to Composite material Testing-Physical Testing-Surface Morphology, Analytical Testing-Sandwich Core materials, Composite Core material, Reinforced Plastics, Thermal Properties-Transition temperatures -thermo-mechanical analyzer, Mechanical Testing-Tensile Testing, Compression Testing, Flexural Testing ,Impact testing, Hardness Testing, Sheer Testing and peel Testing

#.....# Self Study Portion

T.B-1 Booth J.E., Principles of Textile Testing, CBS Publishers and Distributors, New Delhi, 1996.
T.B -2Saville B.P., Physical testing and textile, wood head publishing Ltd, England, 1999.
T.B-3Groover, E and B Hamby.D.S., Textile Testing and Quality Control, John Wiley and Sons inc, New York, 1960.

Books for References:

1.Sheraz Ahmad, AbherRasheed, Ali Afzal, and Faheem Ahmad,Advanced Textile Testing Techniques, Taylor and Francis 2017

2. J. E. Booth,Principles of Textile testing Butterworths 1986

3.Jinlian Hu, Fabric Testing, Woodhead publications 2008

4.B.J Collier H Epps , Textile testing and Analysis 1998

5.Sheraz Ahmad, AbherRasheed, Ali Afzal, and Faheem AhmadAdvanced Textile Testing Techniques,Taylor and Francis publications 2017

6. B P Saville,Physical Testing of Textiles, Woodheadpublications ,1999

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**				**Hours**		**Credits**
III	**20PFT3CC9**			**TEXTILE TESTING**				**6**		**5**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓	✓	✓		✓	✓	✓	✓
CO2	✓	✓	✓		✓	✓		✓	✓	
CO3		✓	✓	✓		✓	✓	✓	✓	✓
CO4	✓	✓	✓		✓	✓	✓	✓	✓	✓
CO5	✓		✓	✓		✓		✓	✓	✓
Number of Matches= 40 , Relationship : High										

Prepared by: checked by:

1.Archana V C 1.Dr.M.Aneez Mohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
III	20PFT3CC10P	Core-X	TEXTILE TESTING-PRACTICAL	6	5	100	20	80

Course Outcomes:

At the end of this course, students will be able to

1. Determine the fiber properties tests
2. Demonstrate the tests for fiber and Yarn
3. Summarize the antimicrobial tests
4. Categorize the fabric test with various properties
5. Calculate the test results with coefficients

I. FIBER TESTS **20 Hours**

1.To determine the Fiber Maturity by Caustic soda method
2. To determine the flame tests of fibers
3. To determine Solubility Test of fibers

II. YARN TEST **25 Hours**

4. To determine the Yarn Count using Wrap Reel Method
5. To determine the Yarn Count using Beasley's Balance Method.
6. To determine the Yarn Twist using Single Yarn Twist Tester.
7. To determine the Course Length and Loop Length for Knitted Fabric.

III. FABRIC TEST **30Hours**

8. To determine the Thickness of a Fabric using Thickness Tester.
9. To determine the count of the fabric using Quadrant Balance.
10. To determine the stiffness of a fabric using Stiffness tester.
11. To determine the drape of a fabric using Drape meter.
12.To determine the abrasion resistance using Martindale abrasion Tester
13. To determine the crease of a fabric using Crease recovery tester.
14. To determine the Cover Factor for a fabric

IV. FABRIC ANTIMICROBIAL TEST **15 Hours**

16. To determine the antibacterial tests in a fabric
17. To determine the antifungal tests in a fabric.
18.To determine the antiviral tests in a fabric

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code			Title of the Paper				Hours	Credits
III	20PFT3CC10P			TEXTILE TESTING-PRACTICAL				6	5
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓			✓	✓	✓		✓
CO2	✓	✓	✓	✓	✓		✓	✓	✓	✓
CO3		✓	✓	✓	✓	✓		✓	✓	✓
CO4	✓	✓	✓		✓	✓	✓	✓	✓	✓
CO5	✓		✓	✓	✓		✓	✓	✓	✓
Number of Matches=41 , Relationship : High										

Prepared by:

1.Archana V C

checked by:

1.Dr.M.Aneez Mohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
III	20PFT3CC11P	Core-XI	HOME TEXTILES - PRACTICAL	6	4	100	20	80

Course Outcome

At the end of this course, students will be able to

1. Compose design and construct home textile products.
2. Acquire knowledge in different types of home textile products.
3. Compile the range of textile products used for home furnishing.
4. Summarize the future forecast and advanced technology in interior designing.
5. Predict and extend apparels used for home furnishing.

Designing and Constructing Home Textile Products

1. LIVING ROOM LINENS -Cut Works,Smocking ,Collage Work., Pleats, Frills, Ruffles, Lace, Bead Work.

a. Sofa Covers **25 Hours**

b. Cushion

c. Carpet

d. Wall Hangings

e. Curtains

f. Draperies

g. Door Screen

h. Mask -health & hygiene product (non woven, Surgical, pitta, N95(any one method)

2. KITCHEN LINEN **15 Hours**

a.Apron
b.Gloves
c. kitchen towels
d. Cloth bag

3. TABLE LINENS - - Hand / Machine Embroidery, (or)Printing **17 Hours**

a. Runner

b .Napkins

c. Tea Co sea
d. Table Mat

4. BED LINEN - Tie and Dye, Quilting ,Appliqué, Patch Work. 15 Hours

a. Bed Spread
b. Baby Blanket
c. Pillow
d. Pillow Covers

5. BATH LINEN -Using Pile Material, Resin finish or Rubberized Fabrics(shower cap) 18 Hours

a. Hand Towel
b. Bath Towel
c. Bath Robes
d. Shower Caps

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code			Title of the Paper			Hours			Credits
III	20PFT3CC11P			HOME TEXTILES -PRACTICAL			6			5
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓			✓	✓	✓		✓
CO2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO3		✓	✓	✓	✓	✓		✓	✓	✓
CO4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO5	✓		✓	✓	✓		✓	✓	✓	✓
Number of Matches=43 , Relationship : High										

Prepared by: checked by:

1.Abirami.M 1.Dr.M.Aneez Mohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
III	20PFT3CC12P	Core-XII	COMPUTER AIDED PATTERN MAKING AND GRADING - PRACTICAL - II	6	4	100	20	80

Course Outcomes:

At the end of this course, students will be able to

1. Demonstratethe basic concept of CAD software.
2. Apply the standard measurements of patterns for different garments.
3. Manipulate the pattern with grading software.
4. Design and modify the functions of garment using CAD software.
5. Demonstrate digital proficiency.

UNIT-I: DRAFTING.

1. Draft the pattern for children's garment. **6 Hours**
2. Draft the pattern for women's wear. **6 Hours**
3. Draft the pattern for men's wear. **6 Hours**
4. Draft the pattern for different types of pleated skirt. **6 Hours**
5. Draft the pattern for different types of collar. **6 Hours**

UNIT-II: GRADING.

6. Grade the pattern for children's garment. **6 Hours**
7. Grade the pattern for women's garment. **6 Hours**
8. Grade the pattern for men's garment. **6 Hours**
9. Grade the pattern for different types of pleated skirt. **6 Hours**
10. Grade the pattern for different types of collars. **6 Hours**

UNIT-III: MARKER PLANNING.

11. Marker planning for children's garment. **6 Hours**
12. Marker planning for women's garment. **6 Hours**
13. Marker planning for men's garment**.** **6 Hours**
14. Marker planning for different types of pleated skirt. **6 Hours**

15. Marker planning for different types of collars. **6 Hours**

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**				**Hours**		**Credits**
III	**20PFT3CC12P**			**COMPUTER AIDED PATTERN MAKING AND GRADING - PRACTICAL - II**				**6**		**4**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓			✓	✓	✓		✓
CO2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO3		✓	✓	✓	✓	✓		✓	✓	✓
CO4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO5	✓		✓	✓	✓		✓	✓	✓	✓
Number of Matches= 36 , Relationship : High										

Prepared by : checked by:

1.C.Jenitta 1.Dr. M. Aneez Mohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
III	20PFT3DE3A	DSE – III	HOME SCIENCE	6	4	100	25	75

Course Outcomes:

At the end of this course, students will be able to

1. Acquire knowledge on basic food science.
2. Understand the functions and source of nutrients values.
3. Discussthe basic principles of planning a house and designing life space.
4. Analyse the principles and stages of child development.
5. Explain about extension education and formal education.

UNIT-I: FOOD SCIENCE **18 Hours**

Functions of Food**,** Food Groups # and its nutritive values. Food preparation- Cooking Method and its classification, conservation of nutrients – Enhancing nutritive value of food items – methods of food enrichment.Food Preservation – principles, methods, preservative and its types.Food analysis- Purpose of analysis and standards.

UNIT-II: NUTRITION SCIENCE **18 Hours**

Fundamentals of nutrition – Functions and sources of macro and micro nutrients – Deficiency diseases – Basal metabolism rate (BMR), Minimum nutritional requirement and recommended dietary allowances (RDA) and formulation of RDA and dietary guidelines with reference to men and women, community nutrition, # National and International Organizations#. Food Microbiology- Food born Disease.

UNIT-III: FAMILY RESOURCE AND MANAGEMENT **18 Hours**

Concepts of home management –Importance of family resources (Human and Non-Human) – Decision making – work simplifications and its techniques – Housing and its factors - # Interior design (Elements, principles of design and color schemes) # - Household equipments. Accessories for Home Decoration- Functional and Decoration.

UNIT-IV: HUMAN DEVELOPMENT **18 Hours**

Principles of development - # Stages of growth and development (Conception to old age) # - Theories of human development – problems in childhood – Disabilities during childhood, Children with Behaviors Difficulties – Types of Behaviors Difficulties and Guidance.

UNIT-V: NON – FORMAL EDUCATION AND EXTENSION EDUCATION **18 Hours**

Extension education – History and development of home science extension – objective and characteristics of home science extension.Difference between formal and extension education – Government and non-government organizations for extension education.# Monitoring Supervision and Evaluation Formal, Non Formal and Extension Education.

#.....# Self Study Portion

TEXT BOOKS:

T. B – 1 Mullick.P, Text Book of Home Science,Kalyani Publishers, 2010.

T. B – 2 Khosla.A and Monacha.R, UGC NET/SET Home Science, Danika publishers of Trueman's Specific Series, 2012.
T. B – 3 Yadla.V.L and Jasrai.S, Kalyani Reference Book for UGC NET in Home Science, Kalyani Publishers, 2006.

UNIT- I	Chapter I&III	**T.B-3 &T.B-1**
UNIT- II	Chapter II&III	**T.B – 3**
UNIT- III	Chapter VI&I	**T.B – 2&T.B-1**
UNIT-IV	Chapter VII	**T.B-3**
UNIT- V	Chapter VIII	**T.B-3 &T.B-2**

Books for References:

1. ShanthiGhosh, "Nutrition and Child Care – A Practical Guide", Jay Pee Brothers Medical Publishers, Private Limited, New Delhi, 1997.

2. Davidson.S.S, Passmore.P, Broke.J.F,"Human Nutrition and Dietetics", 9th Edition, F & S Living Stone Limited, Edinburgh and London,1993.

3. Jeliffee.D.B,"Assessment of the Nutritional Status of the Community", World Health Organization, Geneva,1966.

4. Devadas.R.P, "Nutrition in Tamil Nadu", Sangham Publishers, 1972.

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**			**Hours**		**Credits**
III	**20PFT3CE3A**			**HOME SCIENCE**			**6**		**4**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)			
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓	✓	✓	✓	✓	✓		
CO2	✓	✓		✓	✓	✓	✓	✓		
CO3	✓	✓	✓	✓	✓	✓	✓	✓		
CO4	✓	✓	✓	✓	✓		✓	✓		
CO5	✓	✓	✓	✓	✓		✓	✓		
Number of Matches= 37, Relationship : High										

Prepared by:
1. K.R.Thenmozhi

checked by:
1. Dr. M. Aneez Mohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
III	20PFT3DE3B	DSE-III	DIGITAL MARKEING	6	4	100	25	75

Course outcome:

At the end of this course, students will be able to

1. Enumerate about Digital Marketing
2. Examine the types of Digital Marketing
3. Discriminate the Media Marketing
4. Acquire Knowledge about E-Marketing
5. Recommend the use of OperationalDigital Marketing

UNIT-I: DIGITAL MARKETING **17 Hours**

Digital-Introduction, Digital marketing-Definition and Function, #Classifications of digital marketing# Digital marketing plans-Situation Analysis, Goal, Strategy and Action &Control, Digital transformation, Programmatic marketing.

UNIT-II: MARKETING IN DIGITAL WORLD **18 Hours**

Introduction, Digital customers- Online buying behaviour, Privacy, Marketing goes digital- Personalization, Viral marketing, Affiliate marketing, # Public relations and reputation management# Strategic digital marketing.

UNIT-III:SOCIAL MEDIA MARKETING **18 Hours**

Social marketing- Introduction, Blogging, Consumer reviews and ratings, Social networking, Social sharing, # Social media service and support# Social media plan- Goals, Audience,Channel Strategy, Measuring outcome and Advertisement.

UNIT-IV:E- MARKETING **18 Hours**

E-Marketing definition, Types of E- marketing- E-mail marketing, Social media marketing, Video marketing, Article marketing, Affiliate marketing, Advantages of E-marketing, # Efficiency of E- marketing#.

UNIT-V: OPERATIONAL DIGITAL MARKETING **19 Hours**

Introduction for Search Engine Optimization, SEO-Keyword selection, On-site optimization, Off-site optimization and Strategy. Advertising online- Programmatic advertising, Online ad formats, # Search advertising#, Network advertising.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B-1 Sodia and Chatley, Fashion Marketing and Merchandising, Kalyani Publication, New Delhi, 2008.

T.B-2 Alan Charlesworth**,** Third Edition DIGITAL MARKETING A Practical Approach.UK-1996.

T.B-3 Simon Kingsnorth, DIGITAL MARKETING STRATEGY An integrated approach to online marketing,New delhi-2016.

Books for References:

1.RohanYamagishi, "DIGITAL MARKETING"-Asia 2014.

2.Aron Levin, "Influencer marketing for Brands"- What Youtube and Instagram can teach you about the future of Digital marketing-Sweden 2020.

3.Godes.D and Mayzlin, D. 2004 Using Online Conversations to study word-of-mounth communication. Marketing Science, Vol 23, No. 4, pp. 545-560.

4. Fitzgerald, M., Kruschwitz, M., Bonnet, D. and Welch, M. 2013 Embracing Digital Technology. MIT Sloan Management Review.

5. Webster, F. E. and Wind, Y.1972 A general model for understanding organizational buying behavior. Journal of Marketing, Vol. 36, No. 2 (Apr.), pp.12-19.

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code			Title of the Paper			Hours			Credits
III	20PFT3CE3B			DIGITAL MARKEING			6			4
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓		✓	✓	✓	✓	✓	✓
CO2	✓		✓	✓	✓	✓		✓		
CO3		✓	✓	✓	✓	✓	✓		✓	✓
CO4	✓			✓	✓	✓	✓		✓	✓
CO5	✓		✓		✓	✓		✓	✓	✓
Number of Matches= 37, Relationship : High										

Prepared by: checked by:

1.Jabeen.B 1.Dr.M.Aneez Mohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
IV	20PFT4CC13	CORE XIII	ADVANCED WET PROCESSING	6	5	100	25	75

Course Outcomes:

At the end of this course, students will be able to

1. Understand the recent developments in the field of textiles wet processing.
1. 2.Summarize water treatments followed in dyeing industries.
2. Compare the techniques of dyeing.
3. Predict knowledge about printing and finishing.
4. 5.Discuss the eco-friendly process in chemical processing.

UNIT-I: INTRODUCTION TO TEXTILES, DYES AND DYEING 18 Hours

Modern textiles, colour, dyes and dyeing, preparation for dyeing, classification of dyeing – natural and synthetic, dyeing and finishing, # properties of yarns #

UNIT-II: WATER TREATMENT 18 Hours

Standard water quality for textile dyehouse - typical textile dye house water quality, important parameters of water. Water hardness, water softening, boiler water, dyehouse effluent and its treatment. # water pollution #

UNIT-III: DYEING 18 Hours

Dyes, dye selection, dyeing methods, dyeing machinery - loose fiber and sliver, # yarn dyeing # , fabric dyeing – beam dyeing machine, specific articles, continuous dyeing equipment – padding mangle. Mordants.Recent Trends – Microwave Dyeing, Super Critical CO2 Dyeing, Ultrasonic Dyeing, Plasma Treated Dyeing – Principle, Mechanism and procedure for Dyeing.

UNIT-IV: PRINTING ANDFINISHING 18 Hours

Printing, Flat screen printing, Rotary screen printing, Engraved roller printing, Printing styles, Pigment printing, printing with soluble dyes, Thickeners. Recent advancement in printing industry – digital inkjet printing, 3D printing, laser printing, sublimation printing.

Finishing, # Physical finishes and Chemical finishes #, Finishes applied to fiber classes, functional finishers - Anti-Microbial Finish. Anti-Bacterial Finish. Insect Repellant Finish.Flame Retardant Finish, Fireproof Finish, Bullet Proof Finish, Water Repellant Finish, Water Proof Finish, Denim Finish, Resin Finish, Anti – Pilling Finish, Soil Release Finish, Silicone Finish.

UNIT-V: ECO FRIENDLY PROCESSING 18 Hours

Enzymes – enzymes used in textile industry.Enzymatic - desizing, scouring, bleaching, bio washing, denim wash, bio polishing. # Recent innovation in textile wet processing #

#.....# Self Study Portion

TEXT BOOKS:

T.B - 1 Textile fibers, dyes, finishes, and processes. Howard L. Needles 1986 NOYES PUBLICATIONS, USA.

T.B – 2 Basic principles of textile coloration, Arthur D Broadbent, 2001 society of dyes and colourists, England.

T.B – 3 Textile processing with enzymes, A. Cavaco-Paulo, G.M.Gubitz 2003 WOODHEAD PUBLISHING LTD CAMBRIDGE ENGLAND.

Study Material Prepared By Department.

Unit I Chapter IV **T.B-2**,

Unit II Chapter VIII **T.B-2**

Unit III Chapter XI **T.B-2**

Unit IV Chapter VI **T.B-1**

Unit V Chapter VI **T.B-3**

Books for Reference:

1. Chakaraborty.J.N, "Fundamentals and Practices in Coloration of Textiles", Woodhead Publishing India Private Limited, 2010.
2. Manivaskam.N, "Treatment of Textile Processing Efficient", Sakthi Publications, Coimbatore, 1995.
3. Peters, R. H., Textile Chemistry, Elsevier Scientific Publishing Company, New York, 1975.
4. Hall, A. J, Textile Finishing, Haywood Books, London, 1996
5. Hall A J, The standard Hand Book of Textiles' Woodhead Publication, 2004.
6. Chakaraborty.J.N, "Fundamentals and Practices in Coloration of Textiles", Woodhead Publishing India Private Limited, 2010.

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code			Title of the Paper			Hours			Credits
IV	20PFT4CC13			ADVANCED WET PROCESSING			6			5
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓		✓	✓	✓	✓	✓	✓		
CO2	✓	✓	✓		✓	✓	✓	✓	✓	
CO3	✓	✓	✓	✓	✓	✓		✓	✓	✓
CO4	✓	✓	✓		✓	✓	✓			✓
CO5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NUMBER OF MATCHES= 41, RELATIONSHIP : High										

Prepared by:

1. S.Mythili

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
IV	20PFT4CC14	Core-XIV	EXPORT DOCUMENTATION	6	5	100	25	75

Course Outcome:

At the end of this course, students will be able to

1. Paraphrase the overview of trade.
2. Enumerate the International trade documents.
3. Distinguish export and import documentation procedures.
4. Explainthe trade regulations and foreign exchange market.
5. Categorize the recent developments in foreign trade.

UNIT-I : OVERVIEW OF TRADE **17 Hours**

Globalization-Features of International Trade-Trends, Composition and direction of International trade.Problems in foreign trade. #Composition of Import and export of India#

UNIT-II: INTERNATIONAL TRADE DOCUMENTS&EXCHANGE MARKET 19 Hours

Regional trade documents, Foreign Trade Documents, Regulatory Documents, Commercial Documents # Letter of Credit # Contract Terms and Export Documents,Nature of Foreign Exchange market,Cost differences,Trade and Tariffs.

UNIT-III: EXPORT AND IMPORT PROCEDURES **18 Hours**

Getting established as an Exporter, Entering into Export Contract, Execution of Export Order, Post Shipment Procedures, Export Promotion Measures, # Incentives and Facilities to Exporters #.The Import Process, Customs Clearance for Imports.

UNIT-IV: EXPORT MARKETING **19 Hours**

Export marketing- Introduction, Features, Distinguish between Domestic & International marketing, Buyer's online portals- Introduction ,Online portals used for Indian exports business, Export terms, Export pricing, Export costing. Advantages of exports in Indian economy(Textile industry) .

UNIT-V: RECENT DEVELOPMENTS IN FOREIGN TRADE **17 Hours**

World Trade Organization (WTO) – Regional Trade Agreements – European Union –# Current trends in International Trade # – GATT –IBRD-International bank for reconstruction and development-IMF.

#.....# Self Study Portion

TEXT BOOKS:

T.B-1 Jeevanandam.C, Foreign Trade, 1 st Edition, Sultan Chand and Sons, New Delhi, 2005.

T.B-2 Joshi.P, Apparel and Textile Exports, CBS Publishers, New Delhi, 2006.

T.B-3 Export Documentation – Study Material prepared by the Department.

UNIT-I Chapter I **T.B-1**

UNIT-II Chapter III **T.B-1**

UNIT-III Chapter IV&V **T.B-1**

UNIT-IV Chapter I **T.B-3**

UNIT-V Chapter XII& II**T.B-1 and 3**

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**				**Hours**		**Credits**
IV	**20PFT4CC14**			**EXPORT DOCUMENTATION**				**6**		**5**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO2	✓	✓	✓			✓		✓		
CO3	✓	✓	✓	✓			✓	✓	✓	✓
CO4	✓	✓		✓	✓	✓	✓	✓	✓	
CO5	✓	✓	✓			✓		✓		
Number of Matches= 36 , Relationship : High										

Prepared by: checked by:

1.Abirami.M Dr.M.AneezMohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
IV	20PFT4CC15P	Core – XV	Fashion Portfolio Presentation – Practical	6	5	100	20	80

Course outcomes:

At the end of this course, students will be able to

1. Develop the abilities to support the design careers.
2. Predict different types of boards.
3. Evaluate various techniques related to drafting, draping, and constructing of garments.
4. Developand applyan individual style.
5. Design and construct an own style for different occasions.

1. Trend Forecasts **4 Hours**
2. Theme Write Up **4 Hours**
3. Mood Board **4 Hours**
4. Theme Board **4 Hours**
5. Color Board **4 Hours**
6. Customer Profile **4 Hours**
7. Fabric Sourcing – Swatches **5 Hours**
8. Design Development **5 Hours**
9. Illustration with Backdrops **5 Hours**
10. Specification Sheet **5 Hours**
11. Pattern Making **10 Hours**
12. Garment Construction **20 Hours**
13. Final Presentation **6 Hours**
14. Prepare the Garments (2-4 Garments) **10 Hours**

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**			**Hours**		**Credits**
IV	**20PFT4CC15P**			**Fashion Portfolio Presentation – Practical**			**6**		**5**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓		✓	✓		✓	✓	✓		✓
CO2	✓	✓		✓	✓	✓	✓	✓		✓
CO3	✓	✓	✓	✓	✓	✓	✓	✓		✓
CO4	✓	✓	✓	✓			✓	✓	✓	✓
CO5			✓	✓	✓		✓	✓	✓	✓
Number of Matches= 39, Relationship : High										

Prepared by: checked by:

1. K.R.Thenmozhi 1. Dr. M. Aneez Mohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
IV	20PFT4PW	Project	Project	12	8	200	-	200

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
IV	20PFT4EC2	Extra Credit Course-II	Fashion Technology for Career Examinations	-	5	100	-	100

Course outcomes:

At the end of this course, students will be able to

1. Acquire Knowledge on food science, human nutrition and balanced diets.
2. Understand Portfolio Management, dividend decisions, Motivated Workforce and reduced
2. Employee Grievances
3. Analyse the concepts of textile fibres and fashion design
4. Discuss the basic communication and educational challenges in contemporary society.
5. Explain the tools for data collection and research design

UNIT: 1 FOOD AND NUTRITION SCIENCE

Food science and food analysis-Food science and quality control-Human nutritional requirements- Types of assessment of nutritional status. Food Biotecnology-Healthy and healing foods-public nutrition-Therapeutic nutrition

UNIT: 2INSTITUTIONAL MANAGEMENT

Management of hospitality and social institutes-Management of educational institutes-Management of special institutes for physically, mentally and socially challenged-Challenges and problems faced by institutions-Advanced management and organization- Management of human resources.

UNIT: 3CLOTHING AND TEXTILES

Textile design- principles and concepts. Fashion design- Fashion cycles, business and merchandising. General properties and fine structure of all textile fibers.Definition and classification of yarns- identification of yarns. Fabric construction, definition and types of woven, non-woven, knitted construction techniques. Consumer and textiles and clothing- Recent developments in textile and clothing

UNIT: 4DEVELOPMENT AND EDUCATIONAL COMMUNICATION

Basics of communication- Systems and theories of Communication -Concept of development-Role of communication and development- Strategies for developmental communication-Classroom -Communication for publicity and public relations-Change and challenges in communication in contemporary society.

UNIT: 5METHODS OF RESEARCH

Trends in research in home science-Research design-Types of research-Selection of preparation of tools for data collection-Type of variables and their selection-Data collection and classification/coding-Analysis of data through parametric and non-parametric statistics-Report writing- presentation of data, interpretation and discussion

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	**Code**			**Title of the Paper**			**Hours**			**Credits**
IV	**20PFT4EC2**			**Fashion Technology for Career Examinations**			**-**			**5**
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1		✓		✓	✓		✓	✓	✓	
CO2	✓	✓	✓	✓	✓	✓		✓	✓	✓
CO3	✓	✓	✓	✓	✓	✓	✓	✓	✓	
CO4	✓		✓	✓	✓	✓	✓	✓	✓	✓
CO5	✓	✓		✓	✓		✓		✓	✓
Number of Matches= 40, Relationship : High										

Prepared by:

1. K.Sudha

checked by:

1. Dr. M. Aneez Mohamed

Note:

Mapping	1–29%	30–59%	60–69%	70–89%	90–100%
Matches	1-14	15-29	30-34	35-44	45-50
Relationship	Very Poor	Poor	Moderate	High	Very High