

Sem	Course Code	Core Paper I:	Total Marks: 100		Hours Per Week	Credits
I	21UARCT101	Professional English - I	CIA : 50	ESE :50	4	4

**Course Objectives:**

1. To develop the language skills of students
2. To enhance the lexical, grammatical and socio-linguistic and communicative competence
3. To focus on developing students' knowledge of domain specific registers and the required language skills

**Course Outcomes (CO): On completion of the course, students should be able to**

CO1	Identify the correct usage of vocabulary and grammar in speaking and writing	<b>K1 – K4</b>
CO2	Demonstrate the language skills through academic writing	
CO3	Apply the communicative skills by responding to given situations	
CO4	Communicate leadership quality and team building	
CO5	Analyze the information in various circumstances	

**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze**

<b>Unit –I</b>	<b>Communication</b>
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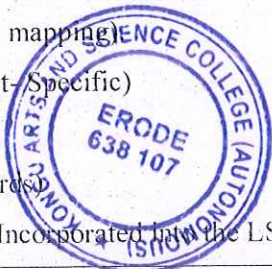
**Listening:** Listening to audio text and answering questions -Listening to Instructions  
**Speaking:** Pair work and small group work.  
**Reading:** Comprehension passages –Differentiate between facts and opinion  
**Writing:** Developing a story with pictures.  
**Vocabulary:** Register specific - Incorporated into the LSRW tasks

<b>Unit – II</b>	<b>Description</b>
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**Listening:** Listening to process description.-Drawing a flow chart.  
**Speaking:** Role play (formal context)  
**Reading:** Skimming/Scanning-  
 Reading passages on products, equipment and gadgets.  
**Writing:** Process Description –Compare and Contrast  
 Paragraph-Sentence Definition and Extended definition-Free Writing.  
**Vocabulary:** Register specific -Incorporated into the LSRW tasks.

<b>Unit – III</b>	<b>Negotiation Strategies</b>
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**Listening:** Listening to interviews of specialists / Inventors in fields (Subject specific)  
**Speaking:** Brainstorming. (Mind mapping)  
 Small group discussions (Subject-Specific)  
**Reading:** Longer Reading text.  
**Writing:** Essay Writing (250 words)  
**Vocabulary:** Register specific - Incorporated into the LSRW tasks



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<b>Unit – IV</b>	<b>Presentation Skills</b>
Listening: Listening to lectures. Speaking: Short talks. Reading: Reading Comprehension passages Writing: Writing Recommendations Interpreting Visuals inputs Vocabulary: Register specific - Incorporated into the LSRW tasks	

<b>Unit – V</b>	<b>Critical Thinking Skills</b>
Listening: Listening comprehension- Listening for information. Speaking: Making presentations (with PPT- practice). Reading: Comprehension passages –Note making. Comprehension: Motivational article on Professional Competence, Professional Ethics and Life Skills) Writing: Problem and Solution essay– Creative writing –Summary writing Vocabulary: Register specific - Incorporated into the LSRW tasks	

**TEXT BOOK**

1. Professional English for Life Sciences - TANSCHÉ

**REFERENCE BOOK**

1. A Handbook of English for Engineers and Technologists, BS Publications, Eliah P, 2003.
2. English for Professionals, Vayu Education of India, Dr.SheemaMiglani&ShikhaGoyal, 2010.
3. Business English, Tata McGraw-Hill Edition, Dona J.Young, 2012

**WEB RESOURCES**

1. <https://www.classcentral.com/course/swayam-business-english-communication-10097>

Course Designed By	Verified By	Approved By HOD
Ms.R.S.Cindhu	Dr.N.Sangeetha	Dr.S.Manjula

**QUESTION PAPER PATTERN**

Time: 3 hours <b>SECTION-A (10 X 1 = 10 Marks)</b> (Vocabulary) (MCQ, Info-gap questions –domain specific vocabulary)	<b>Max. Marks: 50</b> <b>SECTION-B (4 X 10 = 40 Marks)</b> (Reading :Two long domain-specific comprehension passages with questions pertaining to understanding and analysis – 20 Marks) (Writing: Descriptive/narrative/persuasive writing questions pertaining to domain-specific vocabulary – 20 Marks)
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Mapping of COs with POs and PSOs:

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	S	S	S	M	M	M	S	S	M	S	M	S
CO 2	S	S	S	S	M	M	S	S	S	S	M	S
CO 3	S	S	S	M	M	M	S	S	S	S	S	S
CO 4	S	S	S	S	M	M	S	S	S	S	M	S
CO 5	S	S	S	M	M	M	S	S	S	S	S	S

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

*John*

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Sem	Course code	CORE II PRINCIPLES OF PATTERN MAKING	Total Marks:100		Hours Per Week	Credits
			CIA : 50	ESE :50		
I	21UARCT102				4	4

**Course Objectives:**

1. To enable the students to learn the necessity of body measurements in pattern making
2. To understand the recent concepts and trends in pattern making
3. To enrich the skills in pattern alteration and grading

**Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Identify the principles of body measurements	K1 – K4
CO 2	Outline the basic techniques of pattern making	
CO 3	Analyze the standards of good fit in garments	
CO 4	Apply the methods of pattern alteration and grading	
CO 5	Generalize the layout styles in pattern making	

**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze; K5 : Evaluate; K6 : Create**

**Unit –I :** **Body measurements**

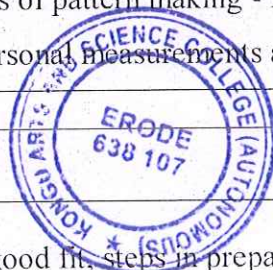
Body measurements - preparation for taking measurements, ladies, men's and children's measurements; Significance of standardizing body measurements; 3D body scanning technology in fashion and apparel industry. Preparation of fabric for cutting - terminologies - importance of grain in cutting and construction, steps in preparing the fabric for cutting.

**Unit – II :** **Pattern making**

Pattern making - methods of pattern making - Drafting and draping, merits and demerits; Types of paper patterns - Patterns for personal measurements and commercial patterns.

**Unit – III :** **Fitting and Dart Manipulation**

Fitting - Standards of a good fit, steps in preparing the blouse for fitting, check the fit of a blouse, solve fitting problems in a blouse and fitting techniques.



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Styles created by shifting of blouse darts, adding fullness to the bodice, converting darts to seam and partial yokes, incorporating darts into seams forming yokes and converting darts to a partial yoke design.

**Unit – IV :**

**Pattern alteration**

Pattern alteration - Methods of altering patterns - General principles for pattern alteration - common pattern alterations in a blouse; Pattern grading - definition - grading the basic bodice, front bodice and sleeves; A study on Computer Aided Design (CAD) software in pattern making industry.

**Unit – V :**

**Pattern layout**

Pattern layout - rules in layout, types of layouts for length wise striped designs, fabric with bold designs, asymmetric designs, one way designs; Procedure to be followed for insufficiency in fabrics, transferring pattern markings, stay stitching and ease stitching.

**TEXT BOOK**

- |   |   |
|---|---|
| 1 | Practical Clothing Construction - Part I and Part-II, Mary Mathews, Cosmic Press, Chennai (2019). |
|---|---|

**REFERENCE BOOKS**

- |   |   |
|---|---|
| 1 | Pattern Making in Fashion, Lucia Mors De Castro, Evergreen Publications, Spain (2010).                                |
| 2 | Dress Pattern Designing, Natalie Bray, Blackwell Publication, New Delhi (2004).                                       |
| 3 | Zarapkar System of Cutting, Zarapkar K. R., Navneet Publications Ltd., Mumbai (2000).                                 |
| 4 | Master Patterns and Grading for Women's Outsizes, Gerry Cooklin, Blackwell Science Ltd., London (1995).               |
| 5 | Pattern Grading for Women's Clothing, The Technology of Sizing, Gerry Cooklin, Blackwell Science Ltd., London (1990). |

**Web Resources**

- |   |   |
|---|---|
| 1 | <a href="https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making">https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making</a> |
| 2 | <a href="https://www.clothingpatterns101.com/pattern-drafting.html">https://www.clothingpatterns101.com/pattern-drafting.html</a>                                       |

Course Designed By

Ms. A. Deepika Priya

Verified By

Dr.N.Radhika

Approved By HOD

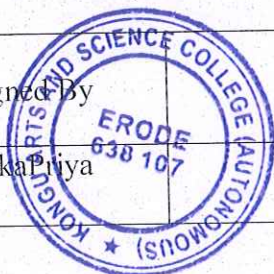
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QUESTION PAPER PATTERN		
SECTION – A	SECTION – B	SECTION – C
10 x 1=10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 3 = 15 Marks (Either or choice) Two questions from each unit	5x5 = 25 Marks (Either or choice) Two questions from each unit

Mapping of COs with POs and PSOs:

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	S	M	L	S	L	S	S	S	S	M	S
CO2	S	S	M	M	L	L	S	S	S	M	S	M
CO3	S	S	M	L	M	M	S	S	S	S	M	S
CO4	S	S	M	L	M	L	S	S	S	S	S	S
CO5	S	S	M	L	M	M	S	S	S	S	S	S

S-Strong, M-Medium, L-Low

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Sem	Course code	CORE PRACTICAL I BASICS OF APPAREL DESIGNING	Total Marks:100		Hours Per Week	Credits
I	21UARCP103		CIA : 50	ESE : 50	4	4

**Course Objectives:**

1. To enable the students to learn the functions of basic sewing machine and garment construction
2. To prepare the students to construct the various components of apparel designing
3. To educate about care and maintenance of sewing machines

**Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Demonstrate the working mechanism of various sewing machines	K1 – K4
CO 2	Construct samples for different types of fullness	
CO 3	Analyze the application methods of neckline finishes, plackets and fasteners	
CO 4	Develop sleeves and yokes with and without fullness	
CO 5	Identify and apply collars and pockets in different position of the garments	

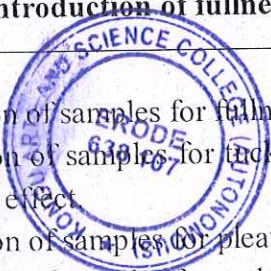
**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze; K5 : Evaluate; K6 : Create**

**Unit –I : Fundamentals of Sewing**

1. Threading practice and sample preparation for Single Needle Lockstitch Machine, overlock machine, flat lock machine and fashion maker machine.
2. Preparation of samples for seam - plain, top stitch, welt, lapped, slot, flat fell, french seam, Mantua makers and piped seam.
3. Preparation of samples for seam finishes - pinked finish, Edge stitched, double stitch finish, overcast, herringbone and bound seam edge finish.
4. Hems - stitched and turned hem, seam binding hem finish, catch stitched hem, narrow machine stitched hem, rolled or whipped hem and shell edged hem.

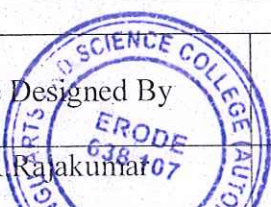
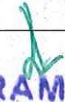
**Unit – II : Introduction of fullness**

1. Preparation of samples for fullness - darts - single pointed and double pointed darts.
2. Preparation of samples for tucks - pin, piped or corded, shell or scalloped, cross, group tucking with scalloped effect.
3. Preparation of samples for pleats - knife, box, inverted, kick, cartridge and pinch.
4. Preparation of samples for gathering by hand, machine, elastic, shirring or gauging.
5. Preparation of samples for ruffles - single, double.



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<b>Unit – III :</b>	<b>Neckline finishes</b>
<p>1.Preparation of samples for facing - bias facing, shaped facing, and decorative facing.</p> <p>2.Preparation of samples for binding - single and double bias binding.</p> <p>3. Preparation of samples for plackets - continuous, bound and faced placket, zipper Placket and tailored placket.</p> <p>4. Preparation of fasteners - Button and buttonhole, press button, shank button, fabric loops and hooks and eye.</p>	
<b>Unit – IV :</b>	<b>Sleeves and Yokes</b>
<p>1. Preparation of samples for sleeves - plain sleeve, puff sleeve, bishop sleeve, raglan sleeve, circular sleeve.</p> <p>2. Preparation of samples with yoke - yoke without fullness, yoke with fullness within the yoke.</p>	
<b>Unit – V :</b>	<b>Collars and Pocket</b>
<p>1. Preparation of samples for collar - Peter Pan collar, Shirt collar, Chinese collar, shawl collar.</p> <p>2. Preparation of samples for pocket - Patch pocket and bound pocket. Side seam pocket.</p> <p>3. Safety practices while working on sewing machine, care and maintenance of sewing machine.</p>	

<b>REFERENCE BOOKS</b>		
1	The Complete Book of Sewing, DeniBown, Dorling Kindersley Limited, USA (2003).	
2	A Guide to Fashion Sewing – Second Edition, Connie Amaden - Crawford, Fairchild Publications, USA (1994).	
<b>Web Resources</b>		
1.	<a href="https://sewguide.com/learn-to-sew-beginners/">https://sewguide.com/learn-to-sew-beginners/</a>	
2	<a href="https://www.textileschool.com/498/types-of-plackets/">https://www.textileschool.com/498/types-of-plackets/</a>	
Course Designed By	Verified By	Approved By HOD
Mr.R.Rajakumar	Mr.K.V.Arunkumar	Dr.S.Manjula
		
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Mapping of COs with POs and PSOs:

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	M	M	M	M	M	S	S	S	M	S	M
CO2	S	M	L	L	M	L	L	S	M	M	L	S
CO3	S	M	M	L	L	L	M	S	S	M	L	S
CO4	S	L	M	L	L	L	M	S	S	M	L	M
CO5	S	L	S	L	S	S	S	S	S	M	M	M

S-Strong, M-Medium, L-Low

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Sem	Course code	ALLIED PRACTICAL I FASHION ILLUSTRATION	Total Marks:100		Hours Per Week	Credits
I	21UARAP104		CIA : 50	ESE :50	4	4

**Course Objectives:**

1. To develop understanding of a human figure for fashion drawings
2. To draw fashion croquis and to explore the basic medium of art
3. To improve student's drawing skills

**Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Sketch the fashion illustration techniques using different mediums	K1 – K4
CO 2	Illustrate various head theories to develop croquis	
CO 3	Illustrate the human anatomy	
CO 4	Outline the garment styles with the help of fabric rendering	
CO 5	Practice fashion illustrations for various garment styles	

**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze; K5 : Evaluate; K6 : Create**

**Unit – I : Basic Techniques of Drawing**

Line and line drawing-hatching, cross hatching and contoured hatching, perspective view drawing-one point, two point and three point perspective, sketching with mediums-pencil, charcoal, ink and poster

**Unit – II : Head Theory**

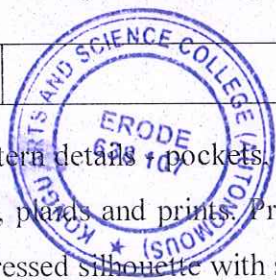
Drawing croquis - 10 and 12 head theory - front and back of male and female, Achieving different poses of croquis - stick and fleshy (any 3).

**Unit – III : Human Anatomy**

Human anatomy - eye, ear, nose, hands, legs and lips. Various types of hairstyles. Developing illustrations from the picture of magazine - face, front pose, back pose.

**Unit – IV : Illustrating Pattern Details**

Illustrating pattern details - pockets, sleeves, yokes, skirts, tops and trousers (any 3 types). Rendering - stripes, checks, plaids and prints. Practicing pleats and gathers in garment style. Rendering of drapes, falls and folds on dressed silhouette with soft pencil - light and shadow effects using soft pencil.



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<b>Unit – V :</b>		<b>Various Garment Styles</b>	
Creating illustrations with various garment styles for men, women and children for different seasons - summer, winter, autumn and spring. Texture rendering - stripes, checks and prints.			
<b>REFERENCE BOOKS</b>			
1	Fashion Illustration Techniques, Maite La Fuente, Evergreen Publications, China (2008)		
2	Advanced Fashion Sketch Book, BinaAbling, OM Books International, New Delhi (2005).		
3	Introduction to Drawing, John Jackson, Eagle Editions, London (2002).		
4	Elements of Fashion and Apparel Design, Sumathi, G.J,New Age International Publications, New Delhi (2002).		
5	Fashion Design Illustration: Children, Ireland Patrick John, Batsford Ltd., London (1995).		
Course Designed By		Verified By	Approved By HOD
Ms.A.DeepikaPriya		Dr.N.Radhika	Dr.S.Manjula

**Mapping of COs with POs and PSOs:**

CO \ PO/PSO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	S	M	L	M	L	S	S	S	M	L	S
CO2	S	S	M	M	L	L	S	S	S	M	L	S
CO3	S	S	M	L	L	L	S	S	S	M	L	S
CO4	S	S	M	L	M	L	S	S	S	S	M	S
CO5	S	S	M	M	M	L	S	S	S	M	S	S

S-Strong, M-Medium, L-Low



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Sem	Course Code	Foundation Course – I: Environmental Studies	Total Marks: 50		Hours Per Week	Credits
I	21ES01			CIA : -	ESE :50	2

**Course Objectives:**

1. To identify the major challenges in environmental issues and find the possible solutions.
2. Develop socio-economic skills for sustainable development.
3. To analyze an overall impact of specific issues and develop environmental management plan.

**Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Compile different types of ecosystem and its energy flow.	K1 – K4
CO 2	Analyze the impacts of Natural resources	
CO 3	Apply the concepts of biodiversity and its conservation.	
CO 4	Create awareness on disaster management and measures to prevent pollution.	
CO 5	Outline the environmental policies and its practices.	

**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze; K5 : Evaluate; K6 : Create**

**Unit – I**

**Ecosystems**

Ecosystems: Meaning - Structure and function of Ecosystem; Types of Ecosystem; Structure and function of the following Ecosystem: (a) Forest Ecosystem (b) Grassland Ecosystem (c) Desert Ecosystem (d) Aquatic Ecosystems; Energy flow in an Ecosystem: Food Chains, Food Webs and Ecological Pyramids. Need for a Balanced Ecosystem and Restoration of degraded Ecosystem.

**Unit – II**

**Natural Resources: Renewable and Non-renewable Resources**

Land Resources and land use change; Land degradation, Soil erosion and desertification.

Deforestation: Causes and impacts due to mining, Dam building on Environment, Biodiversity and Tribal Populations.

Water: Use and over-exploitation of surface and ground water, Floods, Droughts, Rain water Harvesting.

Energy Resources: Renewable and Non Renewable Energy Sources, Use of Alternate Energy Sources, growing energy needs.

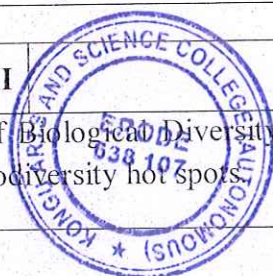
**Unit – III**

**Biodiversity and Conservation**

Levels of Biological Diversity: Genetic, Species and Ecosystem diversity; Biogeographic zones of India; Biodiversity hot spots

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India as a Mega-Biodiversity Nation; Endangered and Endemic species of India.  
Threats to biodiversity: Habitat loss, Poaching of Wildlife, Man - Wildlife conflicts, Biological invasions; Conservation of Biodiversity: In-situ and Ex-situ conservation of biodiversity.

**Unit – IV** **Disaster Management & Environmental Pollution**

Disaster: Types – Natural and Manmade; Earthquakes, Volcanic eruption, Landslides, Flood, Drought, Fire, Nuclear, Chemical and Biological Disasters.

Disaster Management: Floods, Earthquake, Cyclones and Landslides.

Causes, Effects and Control measures of: (a) Air Pollution (b) Water Pollution (c) Soil Pollution (d) Noise Pollution (e) Thermal Pollution (f) Radioactive Pollution.

Solid Waste Management, E - Waste Management - Sources, Characteristics & Disposal methods  
Environmental Sanitation – Socioeconomic Benefits

**Unit – V** **Environmental Policies & Practices**

Climate Change, Global Warming, Ozone layer depletion, Acid Rain and Impacts on Human Communities and Agriculture.

Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water(Prevention & control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act.

International Agreements: Montreal and Kyoto.

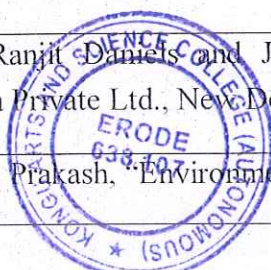
Public Awareness Campaign: Clean India Movement – Swachh Bharat Abhiyan.

**TEXT BOOKS**

2.	Environmental Studies for Under Graduate Course, 1 <sup>st</sup> edition, Bharathiar University, Coimbatore, 2004.
3.	Environmental Studies (for Non-Engineering Students) by Prof. B.Sudhakara Reddy, Prof. T.Shivaji Rao, Prof. U.Tataji and Prof. K.Purushotham Reddy, published by Maruthi Publications, Guntur. (Prescribed by APSCHE).
4.	Environmental Studies by Dr.M.Satyanarayana, Dr.M.V.R.K.Narasimhacharyulu, Dr.G.Rambabu and Dr.V.VivekaVardhani, Published by Telugu Academy, Hyderabad.

**REFERENCE BOOKS**

4.	Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
5.	R.J.Ranjit Daniels and JagadishKrishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
6.	S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007.



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**Web Resources**

1. <https://www.edx.org/course/subject/environmental-studies>
2. <https://byjus.com/biology/types-of-pollution/>

Course Designed By

Verified By

Approved By HOD

Ms.T.Radha

Ms.C.Radhamani

Dr.S.Manjula

**QUESTION PAPER PATTERN**

**SECTION – A**

**100 X ½ = 50 Marks**

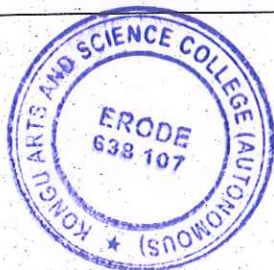
Answer ALL the questions

Multiple Choice Questions

**Mapping of COs with POs and PSOs:**

CO \ PO/PSO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	M	M	S	S	L	S	M	L	M	M	S	L
CO 2	M	L	S	M	L	S	S	M	M	M	M	M
CO 3	M	L	S	M	M	S	S	M	L	M	S	M
CO 4	S	M	S	S	M	S	M	S	M	M	S	M
CO 5	M	M	M	S	M	S	S	S	M	S	S	S

S-Strong, M-Medium, L-Low



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Sem	Course Code	Core Paper III : Professional English - II	Total Marks: 100		Hours Per Week	Credits
			CIA : 50	ESE :50		
II	21UARCT201				4	4

**Course Objectives:**

1. To develop the language skills of students
2. To enhance the lexical, grammatical and socio-linguistic and communicative competence
3. To focus on developing students' knowledge of domain specific registers and the required language skills

**Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Identify the correct usage of vocabulary and grammar in speaking and writing	K1 – K4
CO 2	Demonstrate the language skills through academic writing	
CO 3	Apply the communicative skills by responding to given situations	
CO 4	Communicate leadership quality and team building	
CO 5	Analyze the information in various circumstances	

**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze**

Unit –I	Communicative Competence
<p>Listening – Listening to two talks/lectures by specialists on selected subject specific topics - (TED Talks) and answering comprehension exercises (inferential questions)</p> <p>Speaking: Small group discussions (the discussions could be based on the listening and reading passages- open ended questions)</p> <p>Reading: Two subject-based reading texts followed by comprehension activities/exercises</p> <p>Writing: Summary writing based on the reading passages</p>	

Unit – II	Persuasive Communication
<p>Listening: listening to a product launch- sensitizing learners to the nuances of persuasive communication</p> <p>Speaking: debates – Just-A Minute Activities</p> <p>Reading: reading texts on advertisements ( on products relevant to the subject areas) and answering inferential questions</p> <p>Writing: dialogue writing- writing an argumentative /persuasive essay.</p>	

Unit – III	Digital Competence
<p>Listening to interviews (subject related)</p> <p>Speaking: Interviews with subject specialists (using video conferencing skills)</p> <p>Creating Vlogs (How to become a vlogger and use vlogging to nurture interests – subject related)</p> <p>Reading: Selected sample of Web Page (subject area) Writing: Creating Web Pages</p>	



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Reading Comprehension: Essay on Digital Competence for Academic and Professional Life.  
The essay will address all aspects of digital competence in relation to MS Office and how they can be utilized in relation to work in the subject area.

<b>Unit – IV</b>	<b>Creativity and Imagination</b>
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Listening to short (2 to 5 minutes) academic videos (prepared by EMRC/ other MOOC videos on Indian academic sites – E.g. <https://www.youtube.com/watch?v=tpvicScuDy0>)

Speaking: Making oral presentations through short films – subject based Reading : Essay on Creativity and Imagination (subject based)

Writing – Basic Script Writing for short films (subject based)

-Creating blogs, flyers and brochures (subject based)

-Poster making – writing slogans/captions (subject based)

<b>Unit – V</b>	<b>Workplace Communication &amp; Basics of Academic Writing</b>
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Speaking: Short academic presentation using PowerPoint

Reading & Writing: Product Profiles, Circulars, Minutes of Meeting. Writing an introduction, paraphrasing

Punctuation (period, question mark, exclamation point, comma, semicolon, colon, dash, hyphen, parentheses, brackets, braces, apostrophe, quotation marks, and ellipsis)

Capitalization (use of upper case)

**TEXT BOOK**

1	Professional English For Life Sciences II–TANSICHE
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**REFERENCE BOOK**

1	A Handbook of English for Engineers and Technologists, BS Publications, Elish P, 2003.
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2	English for Professionals, Vayu Education of India, Dr.SheemaMiglani&ShikhaGoyal, 2010.
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3	Business English, Tata McGraw-Hill Edition, Dona J.Young, 2012
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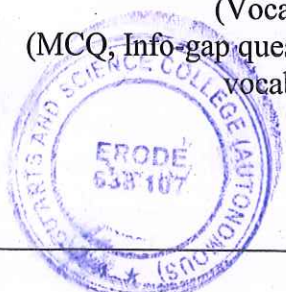
**WEB RESOURCES**

	<a href="https://www.classcentral.com/course/swayam-business-english-communication-10097">https://www.classcentral.com/course/swayam-business-english-communication-10097</a>
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Course Designed By  Ms.R.S.Cindhu	Verified By  Dr.N.Sangeetha	Approved By HOD  Dr.S.Manjula
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**QUESTION PAPER PATTERN**

Time: 3 hours	Max. Marks: 50
<p style="text-align: center;"><b>SECTION-A (10 X 1 = 10 Marks)</b> (Vocabulary) (MCQ, Info-gap questions –domain specific vocabulary)</p>	<p style="text-align: center;"><b>SECTION-B (4 X 10 = 40 Marks)</b> (Reading :Two long domain-specific comprehension passages with questions pertaining to understanding and analysis – 20 Marks) (Writing: Descriptive/narrative/persuasive writing questions pertaining to domain-specific vocabulary – 20 Marks)</p>



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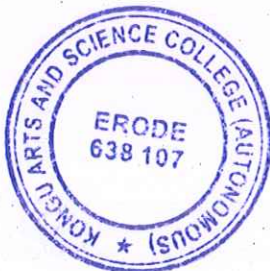


## Mapping of COs with POs and PSOs:

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	S	S	S	M	M	M	S	S	M	S	M	S
CO 2	S	S	S	S	M	M	S	S	S	S	M	S
CO 3	S	S	S	M	M	M	S	S	S	S	S	S
CO 4	S	S	S	S	M	M	S	S	S	S	M	S
CO 5	S	S	S	M	M	M	S	S	S	S	S	S

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

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Sem	Course code	CORE IV FIBRE TO FABRIC	Total Marks:100		Hours Per Week	Credits
II	21UARCT202		CIA : 50	ESE :50	5	5

**Course Objectives:**

1. To enable the students to learn about various types of fibres and its applications
2. To understand the concepts of yarn formation
3. To impart knowledge on various fabric formation methods

**Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Identify the properties of fibres, yarns and fabrics	K1 -K4
CO 2	Classify the textile fibres, yarns and fabrics	
CO 3	Examine the yarn count	
CO 4	Outline the working principle involved in spinning	
CO 5	Explain the various methods of fabric formation	

**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze; K5 : Evaluate; K6 : Create**

**Unit –I :****Introduction to textile fibres**

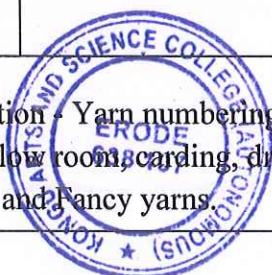
Textiles – Introduction - Classification of fibres - natural and manmade fibres - primary and secondary characteristics of textile fibres. Identification of textile fibres- Microscopic test, Burning test and Solubility test

**Unit – II :****Manufacturing process of fibres**

Manufacturing process, physical, chemical, thermal and biological properties and uses of natural fibres - cotton, linen, jute, pineapple, hemp, silk, wool, hair fibres and manmade fibres - rayon and its types, nylon, polyester and acrylic.

**Unit – III :****Yarns**

Yarn – definition - Yarn numbering systems. Spinning – sequence of process, objectives and working principle of blow room, carding, drawing, combing, roving and ring spinning. Yarn classification. Simple yarns and Fancy yarns

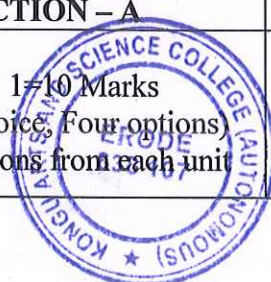


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<b>Unit – IV :</b>	<b>Woven and knit fabrics</b>
Weaving – Basic weaves- plain, twill and satin. Fancy weaves- pile, double cloth, leno, swivel, dobby and Jacquard. Knitting - Basic weft knit and warp knit structures. Comparison of weaving and knitting.	
<b>Unit – V :</b>	<b>Decorative fabric formation</b>
Nonwovens - principle of web formation and bonding. Felt fabric formation. Decorative fabric formation methods - braiding- netting- crocheting and tatting.	
<b>TEXT BOOK</b>	
1	Textiles – Fibre to Fabric, Corbmann B.P, International student’s edition, McGraw Hill 2 Book Company, Singapore (1985)

<b>REFERENCE BOOKS</b>		
1	Nonwovens- Process, Structure, Properties and Applications, T.Karthik, Prabhakaran.C, Rathinamoorthy.R, Woodhead Publishing Ltd. (2017)	
2	Textile Mechanisms in Spinning and Weaving Machines, GanapathyNagarajan, Woodhead Publication Ltd., New Delhi (2014).	
3	Textile Science, Gohi, CBS Publisher and Distributors, New Delhi (2005).	
4	Introduction to Textiles- KanwarVarinder Pal Singh, Kalyani Publishers, NewDelhi, (2004).	
<b>Web Resources</b>		
1	<a href="https://www.onlinecourses.swayam2.ac.in/cec19_te01/preview">https://www.onlinecourses.swayam2.ac.in/cec19_te01/preview</a>	
2	<a href="https://www.textileinfomedia.com/blog/spinning-process-a-conversion-process-of-fibres-into-yarn/">https://www.textileinfomedia.com/blog/spinning-process-a-conversion-process-of-fibres-into-yarn/</a>	
<b>Course Designed By</b>	<b>Verified By</b>	<b>Approved By HOD</b>
Dr.S.Manjula	Dr.N.Radhika	Dr.S.Manjula

<b>QUESTION PAPER PATTERN</b>		
<b>SECTION – A</b>	<b>SECTION – B</b>	<b>SECTION – C</b>
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 3 = 15 Marks (Either or choice) Two questions from each unit	5x5 = 25 Marks (Either or choice) Two questions from each unit



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## Mapping of COs with POs and PSOs:

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	M	L	L	M	M	S	M	M	L	S	M
CO2	S	M	L	M	M	M	S	M	M	M	S	M
CO3	S	S	M	M	L	L	S	M	L	S	S	L
CO4	S	M	M	M	L	M	S	L	S	M	S	L
CO5	S	S	M	M	L	M	S	L	M	M	S	S

S-Strong, M-Medium, L-Low

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Sem	Course code	CORE PRACTICAL II FIBRE TO FABRIC	Total Marks:100		Hours Per Week	Credits
II	21UARCP203		CIA :50	ESE :50	3	3

**Course Objectives:**

1. To enable the students to identify various types of fibres
2. To understand the concepts of yarn count and twist
3. To impart knowledge on various fabric parameters

**Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Identify the textiles fibres using different techniques	K1 - K4
CO 2	Examine the yarn count	
CO 3	Analyze the level of twist imparted to yarn	
CO 4	Predict fabric count and weight	
CO 5	Analyze the fabric's dimensional parameters	

**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze; K5 : Evaluate; K6 : Create**

**Unit – I :**

**Identification of textile fibers**

Fibers – cotton, silk, wool, nylon, polyester, linen, rayon, jute

Microscopic method

Flame test

Chemical test

**Unit – II :**

**Testing of yarn count**

Count of the yarn using Wrap Reel

Count of the yarn using Beesley's Balance

**Unit – III :**

**Testing of yarn twist**

Twist of the Yarn using Twist Tester

**Unit – IV :**

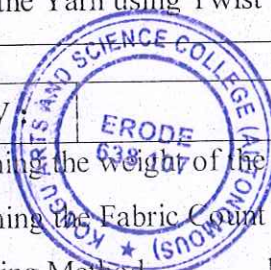
**Testing of fabric count and weight**

Determining the weight of the fabric by Quadrant scale

Determining the Fabric Count by

a. Ravelling Method

b. Pick Glass Method



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<b>Unit – V :</b>	<b>Testing of dimensional parameters of fabric</b>
Test of Shrinkage	
Test of Absorbency	

REFERENCE BOOKS	
1	Identification of Textile Fibres, Edited by Max.M.Houck, Woodhead Publishing Ltd., New Delhi (2009)
2	Introduction to Textiles, KanwarVarinder Pal Singh, Kalyani Publishers, New Delhi (2004).
3	Textiles – Fibre to Fabric, Corbmann. B.P, International student's edition, McGraw Hill 2 Book Company, Singapore (1985).
4	Fabric Science -5 <sup>th</sup> edition, Joseph J Pizzuto, Fairchild Publications, Newyork (1980).

Course Designed By	Verified By	Approved By HOD
Dr.S.Manjula	Dr.N.Radhika	Dr.S.Manjula

**Mapping of COs with POs and PSOs:**

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	M	M	L	M	M	S	L	M	L	S	L
CO2	S	S	M	L	M	L	S	L	L	M	S	L
CO3	S	M	M	L	L	L	S	L	M	M	S	L
CO4	S	S	M	L	L	L	S	M	M	M	S	L
CO5	S	S	M	L	S	L	S	M	L	S	S	L

S-Strong, M-Medium, L-Low



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Sem	Course code	ALLIEDII SEWING TECHNOLOGY	Total Marks:100		Hours Per Week	Credits
			CIA :50	ESE :50		
II	21UARAT204				4	4

**Course Objectives:**

1. To enable the students to study the various aspects of sewing
2. To impart knowledge on sewing components
3. To provide a framework on sewing federal standards

**Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Analyze the type of sewing machineries and its function	K1 - K4
CO 2	Describe the stitching mechanism	
CO 3	Outline on spreading methods	
CO 4	Report on various marking methods	
CO 5	Classify stitches and seams	

**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze; K5 : Evaluate; K6 : Create**

**Unit – I :**

**Sewing Machineries**

Sewing Machineries- Classification of sewing machines, parts, functions of single needle machine, over lock machine, bar tacking machine, button hole making machine, button fixing machine, blind stitching machine, fabric examining machine. Special attachments, care and maintenance, common problems and remedies.

**Unit – II :**

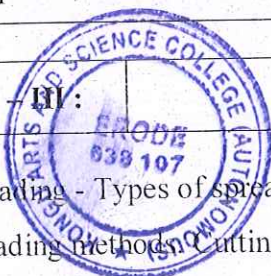
**Stitching mechanism**

Stitching mechanism- Needles, bobbin and bobbin case, bobbin winding, upper and lower threading, throat plates, take ups, tension discs- upper and lower thread tension, pressure foot and its types. Feed mechanisms - drop feed, differential feed, needle feed, compound feed, unison feed, puller feed.

**Unit – III :**

**Spreading**

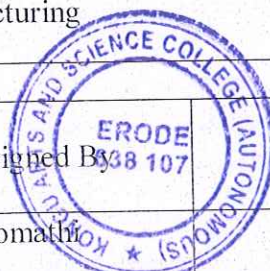
Spreading - Types of spread and its quality, spreading equipment and tools used in spreading, spreading methods, cutting technology – straight knife, round knife, band knife cutting machine, Computer controlled cutting machine, drills and notches.



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<b>Unit – IV :</b>	<b>Marking</b>
Marking methods, positioning, marking, types of markers, efficiency of a marker plan. Requirements of marker planning. Pressing equipments - purpose, pressing equipments and methods - iron, steam press, steam air finisher, steam tunnel, special types - pleating, permanent press.	
<b>Unit – V :</b>	<b>Standards</b>
Sewing federal standards for stitch and stitch classification, federal standards for seam and seam classification, fabric sewability, Sewing threads- types, essential qualities of a sewing thread, manufacturing process of cotton and synthetic threads, twisting process.	
<b>TEXT BOOK</b>	
1	Apparel Manufacturing: Sewn Product Analysis, Ruth.E.Glock, Grace I.Kunz, Dorling Kindersley (India) Pvt. Ltd., New Delhi (2005).

<b>REFERENCE BOOKS</b>	
1	Sewing for the Apparel Industry, Claire Shaeffer, Dave Garza Publications, New Jersey (2001)
2	A Guide to Fashion Sewing, Connie Amaden – Crawford, Fairchild Publications, USA (2001).
3	Encyclopedia of a Sewing Machine Techniques, Nancy Bendnar, Joann Pugh, Gannon Sterling Publishing Co. Inc., New York. (1999).
4	A Complete Book of Sewing, Deni Bown, Dorling Kindersley, Dorling Kindersley Publications, London (1996).
5	Sewing, Hilary Mare, Sunbrust Books, London (1994).
6	The Technology of Clothing Manufacture – Second Edition, Harold Carr and Barbara Latham, Blackwell Science, London (1994).

<b>Web Resources</b>	
1	<a href="https://www.onlineclothingstudy.com/2020/11/understanding-spreading-modes-for.html">https://www.onlineclothingstudy.com/2020/11/understanding-spreading-modes-for.html</a>
2	<a href="https://www.carnegietextile.com/different-types-of-fabric-cutting-machines-used-in-apparel-manufacturing">https://www.carnegietextile.com/different-types-of-fabric-cutting-machines-used-in-apparel-manufacturing</a>
Course Designed By	Verified By
Ms.K.Gomathi	Mr.K.V.Arunkumar
	
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Approved By HOD	
Dr.S.Manjula	



**QUESTION PAPER PATTERN**

SECTION – A	SECTION – B	SECTION – C
10 x 1=10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 3 = 15 Marks (Either or choice) Two questions from each unit	5x5 = 25 Marks (Either or choice) Two questions from each unit

**Mapping of COs with POs and PSOs:**

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	M	M	L	L	M	M	S	M	S	L	M
CO2	S	S	M	L	M	L	S	S	S	M	L	L
CO3	S	S	M	L	L	L	M	S	S	S	M	M
CO4	S	S	M	L	M	M	S	S	S	S	M	L
CO5	S	S	M	L	L	L	S	S	M	S	L	M

S-Strong, M-Medium, L-Low



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Sem	Course Code	Foundation Course – II: Value Education	Total Marks: 50		Hours Per Week	Credits
II	21VE01		CIA : -	ESE :50	2	2

**Course Objectives:**

1. To inculcate human values in the minds of students.
2. To introduce the different types of rights, duties and the glimpses of Indian Constitution to the students.
3. To sensitize students on various gender issues and to bring about value change.

**Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Identify the values to be adopted in their personal, Professional and social life.	K1 – K4
CO 2	Develop personality and social cohesion through various skills inculcated.	
CO 3	Construct co-ordinal relationship with the family members.	
CO 4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.	
CO 5	Buildup social sense and commitment and to discriminate social evils from virtues.	

**K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze; K5 :Evaluate; K6 :Create**

**Unit –I Role of Value-Based-Education in Society and the Salient values for life**

**Introduction-** Goal of Education -Value Education or Value-Based Education-Concept of Values-Definitions of Values- Role of Value-Based-Education in Society- Values and Ethics

**Value Education** - its purpose and significance in the present world – Value system

**Salient values for life** - Truth, commitment, honesty and integrity, forgiveness and love, empathy and ability to sacrifice, care, unity , and inclusiveness, Self esteem and self confidence, punctuality.

**Unit – II The Art of Nurturing Soft Skills**


Time, task and resource management – Problem solving and decision making skills- Interpersonal and Intra personal relationship - Stress Management – Team work – Positive and creative thinking.

**Unit – III Harmony in Family**

Family values - Components, structure and responsibilities of family | Neutralization of anger - Adjustability - Threats of family life - Caring for needy and elderly | Timely commitment for sharing ideas and concerns.



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<b>Unit – IV Youth Empowerment</b>		
The significance of youth period – Autonomy Versus dependence – Feeling of Inferiority – Vocational Problems – Social discrimination – Peer Group Influence.		
<b>Unit – V Social Values, Etiquettes and Handling Social Evils</b>		
Faith, Service and Secularism - Social Sense and Commitment - Gender Equity - Students and Politics - Social Awareness, Social Etiquettes, Consumer Awareness, Consumer Rights and Responsibilities - Redressal Mechanisms.		
Corruption, Cyber crime, Terrorism – Alcoholism, Drug addiction – Dowry – Domestic violence.		
<b>TEXT BOOK</b>		
1	VALUE EDUCATION Compiled and Edited by Dr. V.Krishnaveni, Dr. K.G. Santhiya and Dr. V. Anbumani, Published by Kongu Arts and Science College, Erode, 2018 (UNIT 1 – UNIT 5)	
2	VALUE EDUCATION : NEED OF THE HOUR, Dr. YojanaYatinPatil, , Published by Pasaaydaan Foundation, 2015 (UNIT I)	
<b>REFERENCE BOOKS</b>		
1	S.Ignacimuthu , “ Values for Life - Better Yourself Books”, Mumbai, 1991.	
2	Shiv Khera, “You Can Win”, Macmillan Publishers India Ltd, Revised Edition, 2010.	
<b>Web Resources</b>		
1	<a href="https://harappa.education/harappa-diaries/social-etiquette">https://harappa.education/harappa-diaries/social-etiquette</a> (UNIT V)	
Course Designed By	Verified By	Approved By HOD
Dr.V.Krishnaveni	Dr.K.G.Santhiya Dr.V.Anbumani	Dr. S.Manjula
<b>QUESTION PAPER PATTERN</b>		
	<b>SECTION – A</b>	
	<b>100 X ½ = 50 Marks</b>	
	Answer ALL the questions	
	Multiple Choice Questions	
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Mapping of COs with POs and PSOs:


CO \ PO/PSO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	S	S	S	S	S	S	S	S	S	S	M	S
CO 2	M	S	S	M	S	M	S	S	S	S	M	S
CO 3	M	S	S	M	S	M	S	M	M	M	L	M
CO 4	S	S	S	S	S	M	S	S	S	S	M	S
CO 5	S	M	S	S	S	S	S	S	S	S	M	S

S-Strong, M-Medium, L-Low



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Sem	Course Code	CORE PAPER - IV FIBRE TO FABRIC	Total Marks : 100		Hours Per Week	Credits
III	17UARCT301		CIA : 25	ESE: 75	6	5

**OBJECTIVES:**

- To enable the students to learn about various types of fibres and its applications
- To understand the concepts of yarn formation
- To impart knowledge on various fabric formation methods

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Identify and classify the different types of fibres  
 CO2 Explain the manufacturing process and properties of various fibres  
 CO3 Understand the process of spinning  
 CO4 Classify yarns and analyse its attributes  
 CO5 Elaborate the various fabric formation methods

**UNIT – I**

Textiles – Introduction - Classification of fibres – natural and manmade fibres– primary and secondary characteristics of textile fibres. Identification of textile fibres- Microscopic test, Burning test and Solubility test.

**UNIT II**

Manufacturing process, properties (physical, chemical, thermal and biological) and uses of natural fibres – cotton, linen, jute, pineapple, hemp, silk, wool, hair fibres and manmade fibres – rayon and its types, nylon, polyester and acrylic.

**UNIT III**

Spinning – sequence of process, objectives and working principle of blow room, carding, drawing, combing, roving and ring spinning. Open end rotor spinning system.

**UNIT IV**

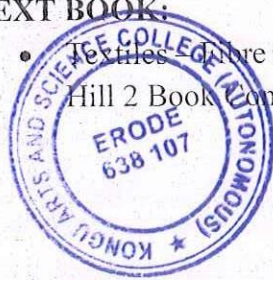
Yarn – definition - Yarn numbering systems – Direct and indirect system of yarn count. Yarn twist. Classification of yarns – Simple yarns, Fancy yarns and Textured yarns.

**UNIT V**

Basic fabric formation methods – Woven, Knitted and Nonwoven fabrics. Felt fabrics and its properties. Decorative fabric formation methods - braiding- netting- crocheting and tatting.

**TEXT BOOK:**

- Textiles of Fibre to Fabric, Corbmann B.P, International student's edition, McGraw Hill 2 Book Company, Singapore 1985.





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**BOOKS FOR REFERENCE:**

1. Handbook of Nonwovens- Edited by R J Russell, Woodhead Publishing Ltd, England, 2007.
2. Introduction to Textiles- Kanwar Varinder Pal Singh, Kalyani Publishers, NewDelhi, 2004.
3. Knitting Technology- B.Ajgoankar, Universal Publishing Corporation, Mumbai, 1998.
4. Fabric Science -5th edition , Joseph J Pizzuto , Fairchild Publications, Newyork ,1980.

<b>QUESTION PAPER PATTERN</b>		
<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 10 = 30 Marks Answer any three Questions One Question from each unit

  
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Sem	Course Code	CORE PAPER V FASHION CLOTHING PSYCHOLOGY	Total Marks : 100		Hours Per Week	Credits
			CIA : 25	ESE: 75	6	
III	17UARCT302					4

**OBJECTIVES:**

- To enable the students to learn the terminologies and concepts related to fashion
- To foster an understanding of fashion forecasting and merchandising techniques
- To impart knowledge about national and international fashion centres

**COURSE OUTCOME:**

- On successful completion of the course, the students will be able to
- CO1 Understand the fashion terminologies and varied consumer needs  
 CO2 Identify the trends in clothing behavior and changes in fashion  
 CO3 Summarise the activities involved in fashion and colour forecasting  
 CO4 Elaborate the consumer characteristics and fashion implications  
 CO5 Create an understanding of the fashion centers of the world

**UNIT I**

Fashion – Definition, Origin of fashion, Importance of clothing, Fashion terms and definitions. Theories explaining the need of clothing- Modesty theory, Immodesty theory, Protection theory, Adornment theory. Adoption of Fashion.

**UNIT II**

Factors influencing fashion changes – Psychological needs of fashion, Social psychology of fashion, Technological, Economical, Political and Legal, Seasonal influence. Fashion cycles – Stages of fashion cycles, Length of fashion cycles, Consumer groups in fashion cycles.

**UNIT III**

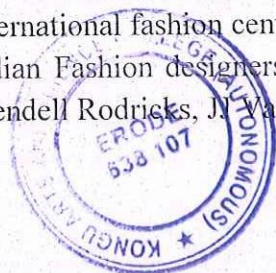
Fashion forecasting – Activities involved in fashion forecasting, Role of a fashion forecaster. Market research, Evaluating the collection. Fashion forecasting services and resources. Colour forecasting. Psychology of colours.

**UNIT IV**

Consumer characteristics – Age, Gender, Race, Ethnicity, Income and Social class. Clothing choices – Self- identity, Self- esteem. Consumer perceptions, Personality and dress, Dress as nonverbal communication.

**UNIT V**

Fashion designers – types – Classicist, Idealist, Influenced, Realist, Thinking, Poetic. International fashion centers – France, Italy, United States, United Kingdom, Germany, Japan. Indian Fashion designers – Manish Malhotra, Ritu Kumar, Manish Arora, Tarun Tahiliani, Wendell Rodricks, J. Valaya, Ritu Beri, Rohit Bal, Rohit Khosla, Anjumodi.



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**TEXT BOOK:**

- Fashion- From Concept to Consumer- Gini Stephens Frings, Pearson Education (Singapore) Pvt.Ltd., Delhi (2002).


**BOOKS FOR REFERENCE:**

1. Apparel merchandising, An Integrated approach- M.Krishna Kumar, Abhishek Publications, Chandigarh (2010).
2. Inside fashion design, Fifth edition, Sharon Lee Tate, Pearson Education (Singapore) Pvt.Ltd., Delhi (2004).
3. Consumer behavior in fashion, Michael R.Solomon, Nancy J.Rabolt, Pearson Education, Inc., Delhi (2004).
4. Elements of fashion and apparel design- Sumathi.G.J, New age International Publishers, New Delhi (2002).
5. Visual merchandising and display, Fourth edition, Martin M.Pegler.S.V.M, Fairchild Publications, New York (1998).
6. Fashion merchandising- An Introduction, Fourth edition, Elaine Stone, Mc Graw- Hill Book Company, New York (1971).

<b>QUESTION PAPER PATTERN</b>		
<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
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Sem	Course Code	CORE PRACTICAL - IV FIBRE TO FABRIC	Total Marks : 100		Hours Per Week	Credits
			CIA : 40	ESE: 60		
III	17UARCP303				4	4

**OBJECTIVES:**

- To enable the students to identify various types of fibres
- To understand the concepts of yarn count and twist
- To impart knowledge on various fabric parameters

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to

- CO1 Identify the different types of fibres
- CO2 Determine the yarn count
- CO3 Describe the methods of fabric testing
- CO4 Demonstrate the handling of testing equipments
- CO5 Examine the fabric count by using various techniques

**LIST OF EXPERIMENTS:****1. Identification of Textile Fibers**

Fibers – cotton, silk, wool, nylon, polyester, linen, rayon, jute

- Microscopic method
- Flame test
- Chemical test

**2. Testing of yarns**

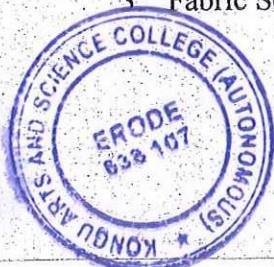
- Count of the yarn using Wrap Reel
- Count of the yarn using Beesley's Balance
- Twist of the Yarn using Twist Tester

**3. Testing of fabrics**

- Determining the weight of the fabric by Quadrant scale
- Determining the Fabric Count by
  - a. Ravelling Method
  - b. Pick Glass Method
- Test of Shrinkage
- Test of Absorbency

**BOOKS FOR REFERENCE:**

1. Introduction to Textiles- Kanwar Varinder Pal Singh, Kalyani Publishers, NewDelhi, 2004.
2. Textiles – Fibre to Fabric, Corbmann. B.P, International student's edition, McGraw Hill 2 Book Company, Singapore 1985.
3. Fabric Science -5th edition, Joseph J Pizzuto , Fairchild Publications, Newyork, 1980.



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Sem	Course Code	ALLIED - III COMPUTER AIDED DESIGNING PRACTICAL - I	Total Marks : 100		Hours Per Week	Credits
			CIA : 40	ESE: 60		
III	17UARAP304				6	4

**OBJECTIVES:**

- To gain familiarity with various tools used for creating designs
- To improve skills in garment designing
- To impart knowledge in digital fashion designing

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to

- CO1 Describe the fundamentals of fashion designing using software  
 CO2 Develop their knowledge in designing software related to colour harmony  
 CO3 Compile their own ideas into garment designs  
 CO4 Predict the designs related to trend forecast  
 CO5 Design the men's and women's garments with various features

**1. Application of Principles of Design in Dress Design**

- Balance
- Rhythm
- Emphasis
- Proportion
- Harmony

**2. Application of Colour Harmony in Dress Design**

- Monochromatic
- Analogous
- Complementary
- Double complementary
- Split complementary
- Triad complementary

**3. Children's Garments**

- Jabla
- Summer frock
- Yoke Frock

**4. Women's Garments**

- Skirt and Top
- Salwar and Kameez
- Nightie

**5. Men's Garments**

- SB Vest
- Shirt
- T- Shirt

**REFERENCES :**

Using any designing software tutorials



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Sem	Course Code	SKILL BASED - I BASICS OF DRAPING PRACTICAL	Total Marks : 75		Hours Per Week	Credits
			CIA : 30	ESE: 45		
III	17UARSP305				6	3

**OBJECTIVES:**

- To introduce the art of draping and to acquaint with the basic principles of draping
- To enable students to create their designs on a three dimensional form using draping method
- To develop the skill and ability to design and develop patterns by trueing for different garments

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to

- CO1 Develop three dimensional designs on the dress form in basic style
- CO2 Modify the basic bodice pattern into stylized garments
- CO3 Design various kinds of fullness in draping
- CO4 Create different types of skirts, yokes and collars
- CO5 Develop new apparel designs on the dress form

**LIST OF EXPERIMENTS:**

1. Introduction to draping and dress forms. Draping basic front and back.
2. Bodice variation – Neckline variation, Armhole variation, Waistline variation, and Dart manipulation- French Dart , Flange Dart, Neck line Dart, Bust line dart, and Armhole dart,
3. Draping Basic Skirt and its variation – Pleated skirt, Flared skirt. Draping fullness – Cows and Flounces
4. Draping yokes - Shirt yoke, Midriff yoke, Hip yoke. Draping collars – Peter pan, Mandarin, Shirt collar.
5. Garment draping –Drape garments in dress forms using the above components.

**BOOKS FOR REFERENCE:**

1. The Art of Fashion Draping – Connie Amaden, Craw Ford, OM books International, New Delhi (2005).
2. Draping for Fashion Design – Hilde Jaffe & Nurie Relis, Prentice Hall Inc., USA (2000).
3. The Theory of Fashion Design, Brockman, Magritha, John Wiley Sons, New York (2008).
4. Design through Draping, Sheldon, Marhta, Burgers Publishing company, Minneapolis, USA (2004).
5. Modern Pattern Design, Popin, Hariet, Funk and Wagnalls, New York and London (2012).



  
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Sem.	Course Code	Course Name	Total Marks: 75		Hours Per Week	Credits
			CIA: -	ESE: 75		
III	17UAIN306	NON MAJOR ELECTIVE I E-COMMERCE			2	2

**OBJECTIVE:**

To give conceptual knowledge about advertising and sales promotion techniques to build on strong consumer relationship.

**COURSE OUTCOMES:**

At the end of the course students will be able to

CO1 Remember the concepts of e-commerce technology and its perspectives.

CO2 Understand the growth and evolution of e-commerce adoption in India.

CO3 Apply the e-commerce framework in business.

CO4 Analyze the applications of e-business and e-learning

CO5 Evaluate the usage of e - payment and e - money system.

**UNIT I**

e-Commerce – Meaning – E-commerce in India – Traditional Commerce Vs E-Commerce – Advantages – Myths.

**UNIT II**

Evolution and growth of e-commerce – impact of internet on business performance - driving force of e-commerce – Internet usage – Future of e-commerce in India.

**UNIT III**

Classifications of e-commerce – business to business electronic commerce – models in B2B – B2C – C2C – B2G – intraorganisa tional e-commerce.

**UNIT IV**

E-commerce framework – anatomy of e-commerce – applications - e- Banking – e-Learnig – employment placement and job market.- e –tailing and online publishing.

**UNIT V**

Electronic payment system – traditional payment system – internet based payment system – essential requirements of e –payment system. E-Money– benefits – different types – properties.

**TEXT BOOK:**

Dr. K. Abirami Devi & Dr. M. Alagammai, “ E-Commerce”, Margham Publishers, 2012, Chennai

**BOOKS FOR REFERENCE:**

1. David Whistley “e-commerce Strategy, Technology and Applications”, TATA Mc Graw Hill Publishing Company Ltd., 2010, New Delhi.
2. Dr. C.S. Rayudu “E-Commerce E-Business”, Himalaya Publishing House, 2009, Chennai.
3. Nidhi Dhawan, “Introduction to e-commerce”, Internatyional Book House P. Ltd., 2010, New Delhi
4. Jibitesh Mishra, “e-Commerce”, Macmillan Publications, 2011, New Delhi.

<b>QUESTION PAPER PATTERN</b>
<b>SECTION - A</b>
<b>5 x 15 = 75 Marks</b> (Either or choice) Two questions from each unit



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Sem	Course Code	CORE PAPER - VI FABRIC STRUCTURE AND DESIGN	Total Marks : 100		Hours Per Week	Credits
			CIA : 25	ESE: 75		
IV	17UARCT401				6	5

**OBJECTIVES:**

- To impart basic knowledge about woven fabrics
- To enable the students to identify various weave structures
- To educate on the elements of woven design

**COURSE OUTCOME:**

On completion of the course, the students will be able to

- CO1 Identify and classify the different structures of woven design
- CO2 Illustrate draft and peg plan for a given design of a woven fabric
- CO3 Construct basic weaves and their derivatives
- CO4 Construct fancy weaves for toweling , ornamentation and upholstery applications
- CO5 Identify the relationship between the fabric structure and its properties

**UNIT –I**

Elements of woven design, Methods of fabric representation, weave repeat unit, draft and lifting plan; Construction of elementary weaves –Plain weave and its modifications, Twill weave and its modifications, Satin and Sateen weaves –their derivatives.

**UNIT-II**

Ordinary Honeycomb weave ,Brighten Honey comb weave, Huck –a-back weave: Crepe weave- Construction upon sateen base, Combination of floating weave with plain threads, Reversing of small motif and Insertion of one weave over another; Mock leno weave - Perforated fabric and Distorted thread effect.

**UNIT-III**

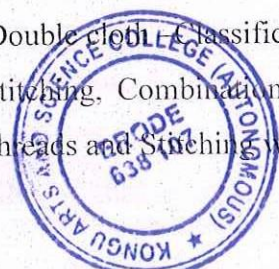
Extra warp and Extra weft figuring –Single and two colours, Comparison between Extra warp and Extra weft figuring; Backed fabrics – Warp backed and Weft backed fabrics, Comparison between Warp backed and Weft backed fabrics.

**UNIT-IV**

Pile fabric – Formation of pile –Weft pile – Plain back velveteen, Twill back velveteen, Weft plush, Corduroy– Length and Density of pile in velveteen, Fast pile structure ; Warp pile – Terry pile, Wire pile.

**UNIT-V**

Double cloth – Classification, Self stitched Double cloth – Face to back stitching, Back to face stitching, Combination stitching; Centre stitched Double cloth–Stitching with center warp threads and Stitching with center weft threads.



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**TEXT BOOK:**

- Fabric Structure and Design, N.Gokarnesan, New Age International (P) Limited, New Delhi (2004).

**BOOKS FOR REFERENCE:**

1. Watsons Textile Design and Colour. Z J Grosicki, Woodhead Publishing Limited, England (2004).
2. Watsons Advanced Textile Design, Z J Grosicki, Woodhead Publishing Limited, England (2004).
3. Textiles – Fibre to Fabric, Corbman B P , International Students Edition, McGraw Hill Book Co., Singapore (1985).

QUESTION PAPER PATTERN		
Section A	Section B	Section C
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 10 = 30 Marks Answer any three Questions One Question from each unit

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Sem	Course Code	CORE PAPER-VII CARE AND MAINTENANCE OF TEXTILES	Total Marks : 100		Hours Per Week	Credits
			CIA : 25	ESE: 75		
IV	17UARCT402				6	4

### OBJECTIVES

- To enable the students to learn the practical aspects of laundering
- To equip the students with the knowledge on handling laundry equipments
- To impart knowledge on care labels

### COURSE OUTCOME:

On successful completion of the course, the students will be able to

- CO1 Understand the manufacturing process of soap, detergents and their applications
- CO2 Develop skills in preparation of starch and its applications
- CO3 Build knowledge on various laundry and drying equipments
- CO4 Analyze various stages of laundering of natural and manmade fabrics
- CO5 Identify the stain types and to apply suitable stain removable treatment process

### UNIT-I

Water- hard and soft water, types of hardness, methods of softening water. Laundry soaps – Manufacture of soap - Hot and cold process. Composition of soap, criteria for good soap, types of soap, drawback of soaps. Detergents- definition, soap less detergents, chemical action. Detergent powder manufacture process- active ingredients, advantages of modern detergents.

### UNIT-II

Finishes – classification of Stiffening agents, Starch - kinds of starch, starch preparation- cold water and hot water method, other types of stiffening agents. Optical whiteners - Laundry blues, fluorescent brightening agents. Bleaches- definition and types. Indigenous cleaning agents.

### UNIT-III

Laundry equipment – for storage, steeping and washing, mechanical washing aids- suction washer, cloth wringer, wash boiler, washing machine and latest trends in washing machine. Equipments in institutional and commercial laundries - washer cum centrifuge and extractors, hydroextractors. Drying equipments – outdoor and indoor types. Driers- types. Irons and ironing board – types of iron (box, flat, automatic, steam iron). Ironing board - different types.



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**UNIT-IV**

Types of laundries and their functions- home laundries, institutional laundries, hospitals, and hotels, commercial laundries. Principles of washing – washing by kneading and squeezing , Laundering of different fabrics – cotton and linen, woollens, coloured fabrics, silks, rayon and nylon.

**UNIT-V**

Special types of Laundry – water proof coats, silk ties, leather goods, furs, plastics, lace. Dry cleaning – using absorbents, using grease solvents and dry cleaning machine. Storing – points to be noted. Stain removal – blood, food stains, lead pencil, lipstick, mildew, nose drops, paint, perfume, chewing gum, tar, and turmeric and kum- kum. Care labels – washing, bleaching, drying and ironing

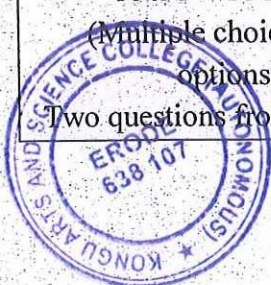
**TEXT BOOK:**

1. Fundamentals of Textiles and their Care (Fifth Edition) - Susheela Dantyagi , Orient Longman Ltd Hyderabad , India (2002). (Unit – I,III and V)
2. Fabric Care – Noemia D'Souza, New Age International (P) Ltd Delhi (1998). (Unit – II and IV)

**BOOKS FOR REFERENCE:**

1. The text book of textile and laundry- Tripti Mishra, Ritu Publications, Jaipur India (2012)
2. Art of cloth washing- Meenakshi Rastogi, Sonali Publications, New Delhi (2009)
3. Cloth Washing and Ironing – Meenakshi Rastogi, Sonali Publications, New Delhi (2009)
4. Clothing Care and Repair – Singer, Cy DeCosse Incorporated, Minnetonka (1995).
5. Removing Stains – Cassandra Kent, Dorling Kindersley, London (1997).

<b>QUESTION PAPER PATTERN</b>		
<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
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Sem	Course Code	CORE PRACTICAL V WOMEN'S APPAREL	Total Marks : 100		Hours Per Week	Credits
			CIA : 40	ESE: 60		
IV	17UARCP403				6	4

**OBJECTIVES:**

- To learn the concepts of drafting and paper patterns
- To impart knowledge about taking body measurements
- To familiarize the students with the concepts of garment construction

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to

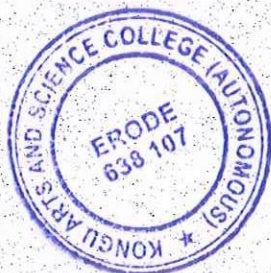
- CO1 Create an understanding of concepts of pattern making
- CO2 Experiment with taking of correct body measurements
- CO3 Identify the materials suitable for Women's garments
- CO4 Design the garments with application of different seams and fullness
- CO5 Develop their skills in garment construction

**LIST OF EXPERIMENTS:**

1. Plain Salwar/ Chudidar –with cord attached at waist line.
2. Kameez – with slit, with /without placket opening, fashioned neck, with sleeves.
3. Nightie – full length, with yoke, front or back opening, with sleeves.
4. Maxi– Bodice and Skirt attached, with collar, with sleeves.
5. Circular Skirt – with tape or elastic waist band.
6. Saree Blouse – front or back open, waistband at front, with sleeves.
7. Ladies shirt– with or without collar, with darts, with sleeves.
8. Kitchen Apron – with pocket, strap attached.

**BOOKS FOR REFERENCE:**

1. Zarapkar System of Cutting – K.R.Zarapkar and Shri Arvind K.Zarapkar, Navneet Publications Ltd., Gujarat , 2014.
2. Practical Clothing Construction – Part I and II, Mary Mathews ,Cosmic Press Chennai, 2012.
3. Master Patterns and Grading for Women's Outsizes, Gerry Cooklin, Blackwell Science Lyd., Germany, 1995.
4. Cutting and Tailoring Practicals part 2 - Anwani, Eshwari and Hans, Lakhraj, Published by R.B. publications , Delhi,2000.



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Sem	Course Code	ALLIED - IV COMPUTER AIDED DESIGNING PRACTICAL - II	Total Marks : 100		Hours Per Week	Credits
			CIA : 40	ESE: 60		
IV	17UARAP404				5	3

**OBJECTIVES:**

- To enable the students to learn a complete graphic design
- To educate the students with new and enhanced features used in the software
- To create various effects using designing software

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to

- CO1 Identify and use the appropriate tools for the designing process
- CO2 Apply CAD software for creating fashion mood boards
- CO3 Create designs for making digital cards and posters
- CO4 Develop their own colour palette for future fashion trend
- CO5 Create pattern making, grading and marker planning by using CAD

## 1. Creating photo effects - I

- i) Black and white effect
- ii) Sketch effect
- iii) Painting effect
- iv) Rain effect
- v) Rainbow effect

## 2. Creating photo effects - II


- i) Light effect
- ii) Paper and cloth effect
- iii) Mixing photographs
- iv) Photo mosaic effect
- v) Text effect & 3D effect

## 3. Designing greeting cards, visiting cards and theme related mood boards.

## 4. Prepare pattern and grade the following:

- i) Basic front
- ii) Basic back
- iii) Basic skirt
- iv) Basic sleeve



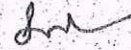
  
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5. Prepare Marker planning for the following:


- i) Basic front
- ii) Basic back
- iii) Basic skirt
- iv) Basic sleeve

**BOOKS FOR REFERENCE:**

1. Pattern making for Fashion Design, Fourth Edition, Helen Joseph Armstrong, Dorling Kindersley Pvt. Ltd., New Delhi (2009).
2. Digital Fashion Illustration with Photoshop and Illustrator, Kevin Tallon, Anova Books Company Ltd., United Kingdom (2008).
3. Master Patterns and Grading for Women's Outsizes, Gerry Cooklin, Blackwell Science Ltd., London (1995).



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Sem	Course Code	SKILL BASED - II FABRIC ORNAMENTATION PRACTICAL	Total Marks : 100		Hours Per Week	Credits
			CIA : 30	ESE: 45		
IV	17UARSP405				5	3

**OBJECTIVES:**

- To impart basic skills in hand embroidery
- To learn and enrich the knowledge on traditional embroidery
- To inculcate the details of various fabric ornamentation techniques

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to


- CO1 Identify and use embroidery tools with safety precautions
- CO2 Classify the temporary and permanent stitches
- CO3 Develop garment parts with bead / sequin work
- CO4 Apply smocking and applique work in garments
- CO5 Differentiate and develop various traditional embroidery stitches and designs

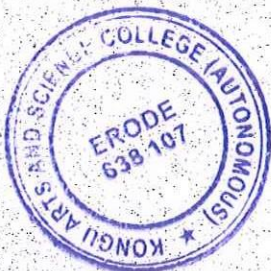
**LIST OF EXPERIMENTS:**


1. Hand embroidery – Outline stitches, Filling Stitches, Decorative Stitches - (10 samples)
2. Traditional embroidery –Kashidha of Kashmir ; Phulkari of Punjab, Kutch embroidery of Gujarat, Mirror work of Rajasthan.
3. Kantha of Bengal, Kasuti of Karnataka, Chickenkari work of Luck now, Chamba rumal of Himachal Pradesh .
4. Smocking – 3 types, Appliqué work (Hand/Machine),
5. Bead work, Zardosi, and Sequin work.

**BOOKS FOR REFERENCE:**

- 1.100 Embroidery stitches – Anchor Embroidery Stitches, J.&P. coats Ltd , Bangalore (1981)
2. Needle Play – Erica Wilson, E. P. Charles Scribners Sons, Newyork (1975)
3. Traditional Embroideries of India – Shailaja D. Naik , A.P.H. Publishing Corporation , Delhi . (2012).
4. Embroidery – Gabi Tubbes ,Quadrille Publishing Ltd , London .( 1995).

  
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Sem.	Course Code	Course Name	Total Marks: 75		Hours Per Week	Credits
			CIA:	ESE: 75		
IV	17UAIN406	NON MAJOR ELECTIVE II BUSINESS COMMUNICATION	-	75	2	2

**OBJECTIVE:**

To impart knowledge on business communication

**COURSE OUTCOMES:**

- At the end of the course, students will be able to
- CO1 Remember basic communication skills to enhance business.
- CO2 Understand the drafting of various business letters.
- CO3 Apply of mechanism of preparing quotations for supply orders.
- CO4 Analyze collection letters and circulars to enhance business models.
- CO5 Evaluate the credit sources and inform the customers about their status of credit.

**UNIT -I**

Business Communication: Meaning –Role of Communication in business- Elements - Process.

**UNIT- II**

Channels of Communication – external –outward and inward – internal – vertical – horizontal – Consensus- informal Channels- Grapevine.

**UNIT- III**

Enquiries –Quotations –Letter of Complaint- Adjustment Letters- Types of Adjustment Letters.

**UNIT- IV**

Collection Letters –Stages in collection letter - Structure of a Sales Letters – follow up letters - Circular Letters.

**UNIT- V**

Sources of credit information – status enquiries and replies – informing the customer – credit in sales campaign.

**TEXT BOOK:**

1. Urmila Rai & S.M. Rai, "Business Communication", Himalaya Publishing House, 2016, Mumbai.

**BOOKS FOR REFERENCE:**

1. Dr.V.K. Jain & Dr. Om Prakashbiyani, " Business Communication", S.Chand, 2015, New Delhi.
1. Rajendra Pal Korahill," Essentials of Business Communication", Sultan Chand and Sons, 2016, New Delhi,
2. Kathiresan, Dr. Radha, "Business Communication", Prasanna Publishers & Distributors, 2015, Chennai.

<b>QUESTION PAPER PATTERN</b>
<b>SECTION - A</b>
<b>5 x 15 = 75 Marks</b> (Either or choice) Two questions from each unit



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Sem	Course Code	ADVANCE LEARNERS COURSE- (A) TREND FORECASTING	Total Marks : 100		Hours Per Week	Credits
IV	17UARAL407		CIA : -	ESE: 100	-	2

**OBJECTIVES:**

- To choose the right forecasting technique
- To examine and understand how trends evolve and are interpreted by industry
- To determine the possible trends from the collected data and use the information to extrapolate what could happen in the future

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to

- CO1 Identify the right method of forecasting
- CO2 Summarize the role of a fashion forecaster
- CO3 Elaborate the service and resources related to fashion
- CO4 Build the essential knowledge in qualitative and quantitative forecasting methods
- CO5 Determine the techniques in color forecasting

**Unit I**

Trend forecasting- Introduction, Objectives. Importance of forecasting, Elements of forecasting, Principles of forecasting, Theories explaining forecasting, Steps in forecasting, Major areas of forecasting, Advantages and limitations in forecasting.

**Unit II**

Fashion forecasting, Role of fashion forecaster, Long- term forecasting, Short- term forecasting, Direction of fashion change, Forecasting with Trend, Seasonality and Cycles, Time series and Trends, Constant pattern, Linear pattern. Role of internet in fashion forecasting

**Unit III**

Fashion forecasting process, Activities. Market research- Consumer research, Shopping, Sales records, Evaluating the collections- Fashion trends, Trends for target markets, Colour forecasting, textile development and sales forecasting. Fashion services and resources- Collection reports, Trend reports, Consulting services, Fashion editing, Trade publications.

**Unit IV**

Forecasting methods- Subjective approach- Qualitative methods, Objective approach- Quantitative methods. Fashion forecasting techniques- Delphi technique, Scenario writing, Subjective approach, Time-series forecasting. Forecast accuracy, Forecast error measures, Future of fashion forecasting



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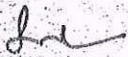
**Unit V**

Colour forecasting- Steps in Colour forecasting - Colour forecast reports. Dimensions of Colour, Colours in Marketing, Consumers and the Psychology of Colours. Forecasting with Colour Cycles, Colour Research, Sources for Colour Ideas and Palettes.


**BOOKS FOR REFERENCE**

1. Krishnakumar.M, Apparel merchandising -An Integrated approach, Abhishek Publications, Chandigarh, (2010).
2. Evelyn L.Brannon, Fashion forecasting, Second Edition, Fairchild Publications Inc., New York, (2005).

<b>QUESTION PAPER PATTERN</b>		
<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
10 x 2 = 20 Marks Answer any ten Questions Out of twelve	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 15 = 45 Marks Answer any three Questions Out of five (One Question from each unit)

  
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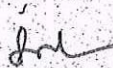
## TEXT BOOK

- Apparel Costing, A functional Approach – Krishnakumar, M, Abishek Publications, Chandigarh, 2012


## BOOKS FOR REFERENCE

1. Apparel Merchandising: The line starts here, *2nd Edition*, Jeremy A. Rosenau, David L. Wilson, Fair child Publications, Inc, New York, (2006).
2. Fashion from concept to consumer, Gini Stephens.F Person Education, South Asia, (2005).
3. S.P.Jain and KL. Narang, "Cost Accounting", Kalyani Publishers, New Delhi. Edn.2005
4. R.S.N. Pillai and V. Bagavathi, "Cost Accounting", S. Chand and Company Ltd., New Delhi. Edn.2004.

QUESTION PAPER PATTERN		
Section A	Section B	Section C
10 x 2 = 20 Marks Answer any ten Questions Out of twelve	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 15 = 45 Marks Answer any three Questions Out of five (One Question from each unit)

  
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Sem	Course Code	CORE PAPER - VIII KNITTING TECHNOLOGY	Total Marks : 100		Hours Per Week	Credits
			CIA : 25	ESE: 75		
V	17UARCT501				6	5

**OBJECTIVES:**

- To enable the students to learn about basics of knitting
- To impart knowledge on knit structures
- To understand the concepts of knit fabric formation

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Understand the basics of knitting and knit structures
- CO2 Summarize the characteristics and working principle of weft knitting
- CO3 Illustrate the structures of weft knitting
- CO4 Elaborate the working principle of warp knit structures
- CO5 Develop knowledge on maintenance of knit materials

**UNIT - I**

Knitting - Definition, History of knitting, Characteristics of knitted goods. Comparison of Weaving and Knitting. Types of knitting - Hand knitting and machine knitting. Terms and definitions used in knitting. Classification of warp and weft knitting machines.

**UNIT - II**

Weft knitting – Classification of weft knit structures. Parts of weft knitting machine. Characteristics of Plain, Rib, Purl and Interlock structures. Working of Single Jersey, Rib, Purl Interlock circular knitting machines. End uses of weft knit fabrics.

**UNIT - III**

Symbolic representation of Weft knit structures - Plain, Rib, Purl and knit structures. Effect of knit, tuck and float stitches on fabric properties. Jacquard knitting - Pattern wheel, Pattern drum, Tape patterning device, Electronic devices.

**UNIT - IV**

Warp knitting - Classification of Warp knit structures. Working of Tricot, Raschel, Simplex and Milanese knitting machines. End uses of warp knit fabrics.

**UNIT - V**

Yarn quality requirements for knitting. Defects in knitted fabrics - causes and remedies. Care and maintenance of knitted material – Blocking, Pressing, Damp finishing, Cleaning and Storing.



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**TEXT BOOK:**

- Knitting Technology, David Spencer, Woodhead Publishing Limited, England (2001).

**BOOKS FOR REFERENCE:**

1. Knitting Technology, D.B.Ajgoankar, Universal Publishing Corporation, Mumbai (1998).
2. Knitted Clothing Technology, Terry Brackenbury, Blackwell Science Ltd., Australia, (1992).
3. Textiles - Fibre to Fabric, Corbman B P , International Student's Edition, Mc Graw Hill Book Co., Singapore (1985).

QUESTION PAPER PATTERN		
Section A	Section B	Section C
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 10 = 30 Marks Answer any three Questions One Question from each unit

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Sem	Course Code	CORE PAPER – IX TEXTILE PROCESSING	Total Marks : 100		Hours Per Week	Credits
			CIA : 25	ESE: 75		
V	17UARCT502				5	4

**OBJECTIVES:**

- To enable the students to learn the preparatory steps of processing
- To impart knowledge on various dyeing techniques
- To provide the details of different printing style

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Understand the sequence of textile processing
- CO2 Analyze various chemicals used in the preparatory and dyeing processes
- CO3 Understand the working of dyeing machineries
- CO4 Perceive knowledge on various principles of printing process
- CO5 State the methods of application of finishes

**UNIT - I**

Production sequence of textile fabrics - flowchart - brief description; Fabric Preparation - Singeing, Desizing, Scouring, Synthetic fiber heat setting, Wool carbonizing, Degumming and Weighting of silk.

**UNIT - II**

Bleaching - methods - Hypochlorite, Hydrogen peroxide, Sodium Chlorite; Mercerization - Chain type - Chainless Mercerization; Dyeing – classification, properties of dyes - direct, vat, reactive, acid, basic, sulphur dyes; Natural dyes - types and colours commonly used and its significance.

**UNIT - III**

Stages of dyeing - different methods - Fibre Dyeing - Methods - Stock Dyeing , Top Dyeing; Yarn Dyeing - Methods - Skein Dyeing , Package Dyeing, Warp Beam Dyeing; Fabric Dyeing - Open width Dyeing, Rope form Dyeing; Garment Dyeing - Methods - Exhaust Process, Continuous Process.

**UNIT - IV**

Printing - Definition - Preparation of printing paste; Styles of Printing - Direct Printing - Block, Roller, Rotary, Screen; Stencil printing; Resist printing - Batik, Tie and Dye printing; Discharge Printing; Heat Transfer printing; Digital printing.



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**UNIT - V**

Finishing – Types of finish: Mechanical finishes - Luster, Drape, Texture; Functional finishes - Wrinkle free finishes, Water Repellant, Flame Retardant, Soil Release finish; Special Purpose finish - Anti Bacterial finish, Silicone finish, Denim finish, Phase Change Finish.

**TEXT BOOK:**

- Understanding Textiles, Sixth Edition, Billie J. Collier and Phyllis G.Tortora, Prentice Hall Inc., New Jersey (2001).

**BOOKS FOR REFERENCE:**

1. Textiles, Ninth Edition, Sara J. Kadolph and Anna L. Langford, Prentice Hall Inc., New Jersey (2002).
2. The Complete Technology Book on Textile Processing with Effluents Treatment, NIIR Board, Asia Pacific Business Press Inc., Delhi, India (1998).
3. Textile Finishing, Dr.N.Nalankilli and S.Jayaprakasam, S.S.M Institute of Textile Technology, S.S.M.I.I.T Staffs and Students Co-operative Stores, Komarapalayam, Tamilnadu, India (1997).
4. Technology of Textile Processing, Vol.VI, Dr.V.A.Shenai, Sevak Publications, Mumbai, India (1997).

QUESTION PAPER PATTERN		
Section A	Section B	Section C
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 10 = 30 Marks Answer any three Questions One Question from each unit



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Sem	Course Code	CORE PRACTICAL - VI FABRIC STRUCTURE ANALYSIS	Total Marks : 100		Hours Per Week	Credits
V	17UARCP503		CIA : 40	ESE: 60	4	3

**OBJECTIVES:**

- To enable the students to identify various weaves and knit structures
- To educate on the elements of woven designs
- To impart knowledge on representation of knits

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Identify and represent plain weave and its derivatives on point paper
- CO2 Identify and represent twill weave and its derivatives on point paper
- CO3 Identify and represent the structures of toweling fabrics on point paper
- CO4 Identify and represent the compound weaves on point paper
- CO5 Identify and analyze the structure of basic knits

**UNIT - I**

**Identification of Woven sample, Design, Draft, Peg plan and necessary calculations:**

- Plain weave
- Warp Rib
- Weft Rib
- Matt Rib

**UNIT - II**

**Identification of Woven sample, Design, Draft and Peg plan and necessary calculations:**

- Ordinary Twill
- Pointed Twill
- Satin
- Sateen

**UNIT - III**

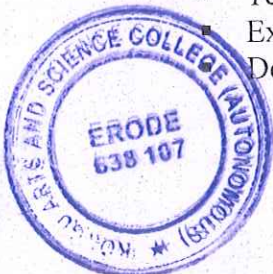
**Identification of Woven sample, Design, Draft and Peg plan and necessary calculations:**


- Huck a back
- Honeycomb
- Mock leno weave

**UNIT - IV**

**Identification of Woven sample, Design, Draft and Peg plan and necessary calculations:**

- Terry pile
- Extra figuring
- Double cloth



  
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**UNIT - V**

**Identification of Knitted sample, its various representations and necessary calculations:**


- Plain Knit
- Rib Knit
- Interlock
- Tricot
- Raschel

**BOOKS FOR REFERENCE:**

1. Watson's Textile Design and Colour, Z J Grosicki, Woodhead Publishing Limited, England (2004).
2. Knitting Technology, D.B.Ajgoankar, Universal Publishing Corporation, Mumbai (1998).

  
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Sem	Course Code	CORE PRACTICAL - VII TEXTILE PROCESSING	Total Marks : 100		Hours Per Week	Credits
			CIA : 40	ESE: 60		
V	17UARCP504				5	3

**OBJECTIVES:**

- To gain knowledge in preparing samples for processing
- To impart practical knowledge on various dyeing methods
- To educate the students about different printing techniques

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Understand the fabric preparation process
- CO2 Demonstrate the process of dyeing
- CO3 Build Knowledge on natural dyeing process
- CO4 Create different design patterns using direct printing method
- CO5 Develop new designs using resist style of printing

**UNIT - I****Preparation of Samples for Processing:**

- Desizing
- Scouring
- Bleaching
- Degumming

**UNIT - II****Dyeing of Samples:**

- Direct Dye
- Sulphur Dye
- Vat Dye
- Disperse Dye

**UNIT - III****Dyeing of Samples:**

- Reactive Dye
- Acid Dye
- Basic Dye
- Vegetable Dyes (any one)



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**UNIT - IV**

**Direct method of Printing Samples:**

- Block printing – Vegetable/ Wooden blocks /Nail blocks
- Stencil printing
- Screen printing


**UNIT - V**

**Resist method of Printing Samples:**


- Tie and Dye printing- any three methods with single/ double/ multi colours
- Batik printing - any three methods with single/ double/ multi colours

**BOOKS FOR REFERENCE:**

1. Textiles, Ninth Edition, Sara J. Kadolph and Anna L. Langford, Prentice – Hall Inc., New Jersey (2002).
2. Understanding Textiles, Sixth Edition, Billie J. Collier and Phyllis G.Tortora, Prentice -Hall, Inc., New Jersey (2001).
3. Technology of Textile Processing, Vol.VI, Dr.V.A.Shenai, Sevak Publications, Mumbai, India (1997).

  
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Sem	Course Code	ELECTIVE PAPER - I A HISTORIC COSTUMES AND TEXTILES OF INDIA	Total Marks : 100		Hours Per Week	Credits
			CIA : 25	ESE: 75	5	4
V	17UARET505					

**OBJECTIVES:**

- To impart comprehensive knowledge on development of Indian Traditional textiles
- To impart knowledge on Indian costumes and various kinds of embroideries
- To enhance the knowledge on jewellery and embroideries of different periods of history

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Identify the costumes worn during various historical periods
- CO2 Categorize the jewellery worn during various historical periods
- CO3 Understand the various textile materials prevalent in India
- CO4 Understand the colors, stitches used in Indian traditional embroidery
- CO5 Elaborate the Indian traditional costumes

**UNIT- I**

Origin of Costume – Classification of Costume - Study of men's and women's costumes during the following periods -Indus valley, Mauryan and Sunga period, Gupta period, Pallava period, Chola period, Mughal period and British period.

**UNIT – II**

Indian Jewellery – Jewelleries used in the period of Indus valley civilization, Mauryan period, Gupta period, Pallava and Chola period, Mughal period, Symbolic and Temple jewellery of South India.

**UNIT- III**

Study of dyed and printed textiles of India – Bhandhani, Patola, Ikkat, Kalamkari. Study of Woven textiles of India – Dacca Muslin, Banarasi/ Chanderi brocades, Baluchar, Himrus and Amrus, Kashmir shawls, Pochampalli, silk sarees of Kancheepuram.

**UNIT – IV**

Traditional embroidery –Kashidha of Kashmir, Phulkari of Punjab, Gujarat – Kutch embroidery, Embroidery of Rajasthan, Kasuti of Karnataka, Chickenkari work of Lucknow, Kantha of Bengal.



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**UNIT – V**

Traditional costume of different states of India – Jammu and Kashmir, Rajasthan, Nagaland, Gujarat, Karnataka, Andhra Pradesh, Tamil Nadu, Kerala, Maharashtra.

Study of Tribal costumes in India – Rajasthan, Andhra Pradesh, Odisha, Nagaland, Maharashtra, Himachal Pradesh

**TEXT BOOK:**

1. Traditional Indian Costumes and Textiles, Dr. Parul Bhatnagar, Abishek Publications, Chandigarh (2004).

**BOOKS FOR REFERENCE:**

1. Costumes of Indian Tribe, Prakash Chandra Mehta, Discovering Publishing House Pvt. Ltd., New Delhi (2011).
2. Costumes and Textiles of Royal India, Ritu Kumar, Christie's Books, London (1999).
3. Indian Jewellery – M.L.Nigam, Lustre Press Pvt. Ltd, India (1999).
4. Traditional Embroideries of India, Dr.Shailaja D. Naik, APH Publishing Corporation, New Delhi (1996).
5. Indian Costume, G.H.Ghosyre, Popular books Pvt. Ltd, New Delhi (1996).
6. World Dress – Beazley Mitchell, Reed Consumer Books Ltd., London (1994).
7. Costumes of India and Pakistan, Dar S.N, DB Taraporevala Sons and Co., Bombay (1956).

QUESTION PAPER PATTERN		
Section A	Section B	Section C
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 10 = 30 Marks Answer any three Questions One Question from each unit



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Sem	Course Code	SKILL BASED – III BUSINESS AND ACCOUNTING	Total Marks : 75		Hours Per Week	Credits
			CIA : 20	ESE: 55	5	3
V	17UARST508					

**OBJECTIVE:**

- To gain knowledge on business and accounting concept in day-to-day activities

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Understand the basics of business
- CO2 Build knowledge on accounting
- CO3 Apply knowledge on trial balance
- CO4 Identify the profit and loss of a concern
- CO5 Estimate the elements of costing

**UNIT – I**

Business - Nature and objectives - Forms of business organization: Sole trader, Partnership firm and Company - Advantages and Limitations.

**UNIT – II**

Accounting - Meaning - Importance - Accounting Concepts and Conventions - Rules of accounts - Double entry system - Difference between Single entry and Double entry system - Journal - Ledger.

**UNIT – III**

Trial balance - Subsidiary books - Purchases book, Sales book, Purchases returns book, Sales returns book and Cash book: Single, Double and Triple column cash book.

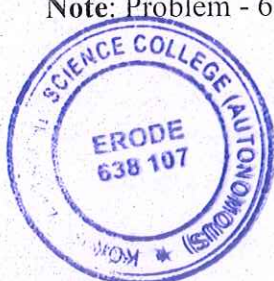
**UNIT – IV**


Final Accounts of sole trading concern - Trading and Profit and loss a/c and Balance sheet with simple adjustment.

**UNIT – V**

Cost accounting - elements - Classifications - Preparation of simple cost sheet - Material Issue: FIFO and LIFO only - Overheads - Classification - Allocation and apportionment of overhead cost (Simple Problems).

**Note:** Problem - 60% Theory - 40%




  
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**BOOKS FOR REFERENCE:**

1. Financial Accounting, T.S.Reddy and Dr.A.Murthy, Margham Publications, Chennai (2015).
2. Business Organization and Management, Y.K.Bhushan, Sultan Chand and Sons, New Delhi (2014).
3. Business Organization and Office Management, R.K.Sharma, Shashi K. Gupta, Kalyani Publisher, New Delhi (2014).
4. Principles of Accountancy, S.P.Jain and K.L.Narang, Kalyani Publisher, New Delhi (2014).
5. Cost Accounting, Dr.M.Wilson, Himalaya Publishing House, New Delhi (2014).
6. Cost Accounting, S.P.Jain and K.L.Narang, Kalyani Publisher, New Delhi (2011).

<b>QUESTION PAPER PATTERN</b>		
<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 3 = 15 Marks (Either or choice) Two questions from each unit	3 x 10 = 30 Marks Answer any three Questions One Question from each unit

  
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Sem	Course Code	ADVANCE LEARNERS COURSE A BASICS OF TECHNICAL TEXTILES	Total Marks : 100		Hours Per Week	Credits
			CIA : -	ESE: 100		
V	17UARAL509				-	2

**OBJECTIVES:**

- To enable the students to learn about the various categories of technical textiles
- To impart knowledge about the potential of technical textiles
- To gain insight on the commercial applications of technical textiles

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Categorize the various segments of technical textiles
- CO2 Perceive knowledge on application of agrotech, clothtech and buildtech
- CO3 Analyze the functions of geotech, homotech and indutech
- CO4 Summarize the application areas of meditech, mobiltech and oekotech
- CO5 Identify the materials used in packtech, protech and sport tech

**UNIT - I**

Introduction, definition, market overview and growth projections of technical textiles. Classification of technical textiles. High performance fibres used for technical textiles, their characteristics and application areas.

**UNIT - II**

Agrotech- fibres used – properties required and applications. Buildtech – textiles used in construction – products covered. Clothtech – specific components and applications in garments and shoes.


**UNIT - III**

Geotech – functions and application areas. Homotech – major product classifications and market trends. Indutech – industrial products and components.

**UNIT - IV**

Meditech – non implantable materials, implantable materials, health care and hygiene products  
Mobiltech – automotive textiles and its components. Oekotech – textiles in environmental protection applications.



  
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**UNIT - V**

Packtech – textile packaging materials and its uses. Protech – clothing requirements for thermal protection, ballistic protection, UV protection, protection from electro-magnetic radiations, micro organisms, chemicals and pesticides etc. Sport tech - textiles used in leisure and sports industries.

**TEXT BOOK:**

- Handbook of Technical Textiles, A.R.Horrocks and S.C.Anand, Woodhead Publishing Ltd., England (2000).

**BOOKS FOR REFERENCE:**

1. An Introduction to Healthcare and Medical Textiles, Wen Zhong, Destech Publications Inc., (2013).
2. Technical Textiles: Technology, Developments and Applications, Dr.V.K.Kothari, IAFL Publications, New Delhi (2008).
3. Textiles for Protection, Scott.R.A., Woodhead Publishing Ltd., England (2005).
4. High Performance Fibres, J W S Hearle, Woodhead Publishing Ltd., England (2000).
5. Textiles in Automotive Engineering, Woodhead Publishing Ltd., England (2001).

<b>QUESTION PAPER PATTERN</b>		
<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
10 x 2 = 20 Marks Ten questions out of 12	5 x 7 = 35 Marks (Five Questions Either or choice) Two Questions from each unit	3 x 15 = 45 Marks Three Questions out of five One Question from each unit

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Sem	Course Code	ADVANCE LEARNERS COURSE B BASICS OF JEWELLERY DESIGNING	Total Marks : 100		Hours Per Week	Credits
			CIA : -	ESE: 100		
V	17UARAL510				-	2

**OBJECTIVES:**

- To impart basic knowledge on types of jewellery
- To understand about gemstones and its properties
- To learn the techniques in the field of jewellery making

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Build knowledge on basics of jewellery making
- CO2 Understand the process of jewellery making
- CO3 Explain the traditional jewelleries of India
- CO4 Elaborate the history of Indian jewellery
- CO5 Determine the treatment given for gem stones

**UNIT - I**

Introduction to jewellery and its components – Tools used in jewellery manufacturing – Safety measures taken while making jewellery -Dimensions used in the jewellery

**UNIT- II**

Process of jewellery making – Designing, Moulding, Casting, Polishing; Embellishment processes- Finishing, Plating, Quality checking, Packaging and transporting.

**UNIT - III**

Traditional jewellery of India ; Bridal Jewellery – Antique Jewellery – Bead Jewellery – Custom Jewellery – Copper Jewellery – Fashion Jewellery - Filigree Jewellery – Gold Jewellery – Handmade Jewellery – Ivory Jewellery- Jadam Jewellery.


**UNIT - IV**

History of Indian Jewellery; Kundan Jewellery- Lac Jewellery- Meenakari Jewellery- Navaratna Jewellery- Pachchikam Jewellery – Silver Jewellery- Stone Jewellery – Temple Jewellery- Tribal Jewellery.

**UNIT - V**

Gemology – Introduction – Properties of Gem stones- Different Stones used in the jewellery art, its cuts and shapes – Treatments given for gem stones – Heat, Radiation, Waxing/oiling, fracline filling.



  
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**BOOKS FOR REFERENCE:**


1. Jewellery Making and Beading for Dummies, Heather Dismore, John Wiley and Sons Publications, New Jersey (2013)
2. Basic Jewellery Making, Sandy Allison, Ted Walker, Alan Wycheck, Stackpole Books, United States (2005).
3. Making Wire Jewelry, Helen Clegg, Mary Larom, Lark Books Publication, New York (1997).

QUESTION PAPER PATTERN		
Section A	Section B	Section C
10 x 2 = 20 Marks Ten questions out of 12	5 x 7 = 35 Marks (Five Questions Either or choice) Two Questions from each unit	3 x 15 = 45 Marks Three Questions out of five One Question from each unit



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Sem	Course Code	CORE PAPER - X GARMENT QUALITY AND COST CONTROL	Total Marks : 100		Hours Per Week	Credits
			CIA : 25	ESE: 75		
VI	17UARCT601				5	5

**OBJECTIVES:**

- To create an awareness on quality standards
- To gain knowledge on quality control specifications and procedures
- To update cost control details in apparel manufacturing

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Understand the basics of quality parameters
- CO2 Summarize the quality specifications
- CO3 Outline the apparel production control
- CO4 Identify the various production systems
- CO5 Develop knowledge on cost control

**UNIT - I**

Quality - Quality Control definition – Quality parameters for woven, knitted, nonwoven – Establishing merchandising standards - related to aesthetics, fit, style, line, value, pattern, fabric durability tests and flammability tests - Quality control of raw materials – fabrics, sewing threads, buttons, hooks, snaps, metal or plastic findings, trimmings and zippers.


**UNIT - II**

Establishing Processing quality specifications – Training quality control personnel – Quality standard control – Quality control inspection, Procedures for processing - Quality control of finished garments – Quality control for packaging , Warehousing/Storage and Shipping.

**UNIT - III**

Production Control - Meaning, Aims and Functions – Production analysis and quality specifications – Qualitative production analysis and Quantitative production analysis – Scope of apparel manufacturing activity – Coordinating departmental activities – Organizational policies.



  
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**UNIT - IV**

Type of control forms (16 forms) and its purpose – Basic production systems – Whole garment, departmental whole garment, subassembly systems and progressive bundle systems – Flow process grids and charts – Basic flow process grids construction – Flow process grids for production control.

**UNIT - V**

Functions of cost control - Types of costs and expenses – Apparel manufacturing cost categories – sales cost control, purchasing cost control, production cost control and administration cost control – Cost ratio policies – The manufacturing budget – Break even analysis.

**TEXT BOOK:**

- Apparel Manufacturing Hand Book - Analysis Principles and Practice, Solinger J, Columbia Media Corporation (1988).

**BOOKS FOR REFERENCE:**

1. Managing Quality in the Apparel Industry, Mehta.P.V and Bhardwaj.S.K, New Age International (p) Ltd., New Delhi (2006).
2. Apparel Manufacturing Analysis, Solinger. J, Textile Books, Newyork (1961).

QUESTION PAPER PATTERN		
Section A	Section B	Section C
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 10 = 30 Marks Answer any three Questions One Question from each unit



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Sem	Course Code	CORE PRACTICAL – VIII FASHION PORTFOLIO PRESENTATION	Total Marks : 100		Hours Per Week	Credits
			CIA : 40	ESE: 60		
VI	17UARCP602				4	4

**OBJECTIVES:**

- To introduce students the rudiments of sketching and its concepts
- To develop the ability to perform higher order thinking skills in the areas of fashion
- To get acquainted to develop fashion ensembles through research on selected themes by a design process

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Infer the concepts of fashion portfolios
- CO2 Develop skills in making moodboards
- CO3 Analyze and create design styles for various themes
- CO4 Gain new insights through universal colouring system and fabric textures
- CO5 Exhibit the innovative design collections based on selected themes

Design and develop Fashion Portfolios (4 themes) with the following boards;

1. Designer profile, Customer profile and Name board
2. Mind map and Mood board
3. Flat sketches (Minimum 4 for a theme)
4. Fabric board, Colour board and Accessory board
5. Story board and Photographic board

**BOOKS FOR REFERENCE:**

1. Fashion Rendering, Ranjana Singhal and Kannaki Bharali, Om Books International, Uttar Pradesh, India (2010).
2. Professional Fashion Illustration, Julian Seaman, B.T.Batsford Limited, London (1995).
3. Essential Fashion Illustration Colour and Medium, PacoAsensio, Rockpot Publishers, United States of America (2008).
4. Design Portfolio - Moving from Traditional to Digital, Diane M.Bender, Fairchild Books, Inc., New York (2008).



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Sem	Course Code	CORE PRACTICAL - IX MEN'S APPAREL	Total Marks : 100		Hours Per Week	Credits
VI	17UARCP603			CIA : 40	ESE: 60	6

**OBJECTIVES:**

- To familiarize the students with men's garment patterns
- To enable the students to understand various methods and styles of men's garment construction
- To impart knowledge on cost calculation

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Construct S.B.Vest with various styles
- CO2 Construct Slack shirt with various styles
- CO3 Construct Nehru kurtha and Pyjama with various styles
- CO4 Construct Trouser with various styles
- CO5 Construct T-Shirt and Bermudas with various styles

**UNIT - I**

S.B.Vest – With/ without collar, Button Attached, Sleeveless.

**UNIT – II**

Slack shirt – Full open, shirt collar, Patch Pocket.

**UNIT – III**

Nehru kurtha – Stand collar, Side pocket, Half Open.

Pyjama - Elastic /Tape attached waist.

**UNIT – IV**

Trouser – Darts at back, Side Pocket, Waistband with loops, Fly with Button /Zip.

**UNIT – V**

T-Shirt – Full open, Open Collar, Zip attached.

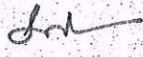
Bermudas – Patch Pocket.




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**BOOKS FOR REFERENCE:**

1. Practical Clothing-Construction, Part I and II, Mary Mathews, Cosmic press, Chennai (2014).
2. Zarapkar System of Cutting, K R Zarapkar, Navneet Publications Ltd., Mumbai (2010).
3. Cutting and Tailoring Theory, EswariAnwani, Lakhraj Hans, R.B.Publications, New Delhi (2006).
4. Cutting and Tailoring Theory, GayathriVerma, Kapildev, Asian Publications, New Delhi (2005).
5. A Guide to Fashion Sewing, Connie Amaden, Fairchild Publications, USA (1992).

  
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Sem	Course Code	ELECTIVE PAPER – II A FASHION MARKETING AND RETAILING	Total Marks : 100		Hours Per Week	Credits
			CIA : 25	ESE: 75		
VI	17UARET604				5	4

**OBJECTIVES:**

- To acquire knowledge and skills on the basic concepts of fashion marketing
- To understand the nature of fashion merchandising and its functions
- To impart knowledge on fashion merchandising

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Understand the fundamentals of marketing
- CO2 Infer the basic concepts of fashion retailing
- CO3 Understand the role of merchandiser in fashion industry
- CO4 Study the importance of pricing in marketing
- CO5 Gain insight on fashion promotional activities

**UNIT - I**

Market - Meaning, Definition and Classification; Fashion Market - Activities of Fashion Marketing, Fashion Market Size and Structure, Marketing Environment - Micro and Macro Marketing Environment; Product – Definition, Features, New Product Planning and Development, Product Mix.

**UNIT – II**

Fashion Retailing - Definition, History and Importance; Classification of Retailers – Onsite Retailing and Off site Retailing; Types of Retail Store; Trends in Retailing.

**UNIT - III**

Merchandising – Meaning - Concepts of Six Rights - Structure of Merchandising - Role and Responsibility of a Merchandiser, Functions of a Merchandiser, Types of Merchandiser- Export House, Buying House and Buying Agency.

**UNIT - IV**

Pricing Policies and its Importance, Objectives, Factors Influencing Pricing - Internal and External Factors, Price Determination for New Products and Kinds of Setting Price.



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**UNIT - V**

Fashion Advertising - Preparation of Advertising for Apparel Market, Advertising Media used in Apparel Market – Indoor, Outdoor, Direct and Promotional; Advertising Department - Structure and Functions, Advertising Agencies - Structure and Functions, Advertising Budget.

**TEXT BOOK:**

- Fashion Marketing- Mike Easey, Black Well Science Ltd., United Kingdom (1995).

**BOOKS FOR REFERENCE:**

1. Apparel Merchandising, An Integrated Approach, Krishnakumar.M, Abishek Publications (2010).
2. Apparel Merchandising, Robin Mathew, Book Enclave Publishers, Jaipur (2008).
3. Retail Management, Chetan Bajaj, RajnishTuli and Nidhi.V.Srivastava, Oxford University Press, New Delhi (2005).
4. Advertising, C N Sonatakki, Kalyani Publishers New Delhi (1989).
5. Marketing, RSN Pillai and Bhagavathi.S, Chand And Company Ltd, New Delhi (1987).

QUESTION PAPER PATTERN		
Section A	Section B	Section C
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 10 = 30 Marks Answer any three Questions One Question from each unit

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Sem	Course Code	ELECTIVE PAPER - III A ORGANIZATION OF GARMENT UNIT	Total Marks : 100		Hours Per Week	Credits
			CIA : 25	ESE: 75		
VI	17UARET607				5	4

**OBJECTIVES:**

- To enable the students to develop the business plan
- To understand the structure of a garment unit
- To impart knowledge on factory design and layout

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Build Knowledge on entrepreneurship
- CO2 Analyze the various financial institutions for the best financial deals
- CO3 Understand the different departments in a garment unit
- CO4 Develop wide knowledge on factory design and layout
- CO5 Demonstrate the export procedures

**UNIT – I**

Entrepreneurship- Meaning, definition and types needs for Entrepreneurs, quality and types of Entrepreneurship. Difference between Entrepreneur and Manager. Management – Definition , Management as a process - Planning, organizing, Directing, Controlling and Co-ordination.

**UNIT – II**

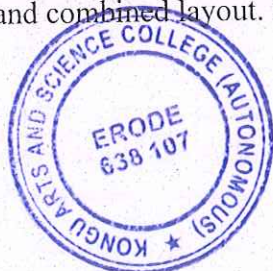
Institution supporting entrepreneurs – DIC, NSIC, SISI, SIPCOT, TII, KVIC, CODISSIA, Commercial Banks - SBI. Organizational structure of a garment unit – Hierarchical organization, production planning and control.

**UNIT – III**

Different department in garment unit – Design department, Finance department, Purchasing department, Production department, Organizing different sections – hierarchy. Personnel involved in all departments, nature of the job.

**UNIT – IV**

Factory Design – importance of factory design, factors affecting factory design, types of buildings (single and multi storey) - advantages and limitation. Factory layout – process, product and combined layout. Design requirement- requirements relating to health, safety and welfare.



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**UNIT – V**

Performance of Indian Garment Export, SWOT Analysis, Setting up of garment unit for export market, Export Document, Export finance – Payment method, Export shipping.


**TEXT BOOK:**

- Principles of Management, Dinakar Pagare, Sultan Chand and Sons Publication, Delhi (2006).


**BOOKS FOR REFERENCE:**

1. Apparel Costing, A Functional Approach, Krishna Kumar.M, Abishek Publication, Chandigarh (2011).
2. Introduction to Clothing Production Management, AJ Chester, Second Edition, Wrenbury Associates Ltd., England (1998).
3. Entrepreneurship Development in India, Dr. C.B.Gupta, Dr. N.P.Srinivasan, Sultan Chand and Sons Publication, Delhi (1997).
4. The Technology of Clothing Manufacture, Harold Carr and Barbara Latham, Black Well Science Publication, London (1994).

<b>QUESTION PAPER PATTERN</b>		
<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 7 = 35 Marks (Either or choice) Two questions from each unit	3 x 10 = 30 Marks Answer any three Questions One Question from each unit

  
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Sem	Course Code	SKILL BASED – IV COMPUTER AIDED DESIGNING PRACTICAL - III	Total Marks : 75		Hours Per Week	Credits
			CIA : 30	ESE: 45		
VI	17UARSP610				5	3

**OBJECTIVES:**

- To familiarize the students with textile design software
- To acquaint the students with the various tools used for designing
- To gain knowledge on tools used in Adobe Illustrator

**COURSE OUTCOME:**

On successful completion of the course, the students will be able to:

- CO1 Create various weaves and colour combinations
- CO2 Apply practical knowledge on creation of designs
- CO3 Experiment with tools for creating Jacquard weaves
- CO4 Understand the basics of Adobe Illustrator
- CO5 Elaborate the role of Illustrator in dress design

**UNIT - I****Weave:**

- Creation of various weaves
- Plain, Twill, Satin, Honeycomb, Huck a back weaves, fancy weaves
- Creation of various stripes, checks, plaids designs
- Application of colours
- Fabric Simulation

**UNIT - II****Design and repeat:**

- Creation of designs
- Tracing of designs
- Repeat setting
- Changing of repeat
- Application of colours

**UNIT - III****Jacquard:**

- Creation of designs
- Tracing of designs
- Repeat setting
- Application of colours
- Application of weaves



  
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#### UNIT - IV

##### Adobe Illustrator:

- Creation of logos
- Creation of designs
- Tracing of designs
- Text effects
- Photo effects

#### UNIT - V

##### Garment Sketch in Illustrator:

- Garment flats- Men
- Garment flats- Women
- Garment flats- Children
- Garment colour combinations
- Story board


##### BOOKS FOR REFERENCE:

1. Fashion Designers Handbook for Adobe Illustrator, Marianne Center and Frances Vereker, Blackwell Publications, USA (2007).
2. Creative Fashion Design with Illustrator, Kevin Tallon, Batsford Ltd., United Kingdom (2006).



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