

UNIVERSITY OF JAMMU

SYLLABI AND COURSES OF STUDY FOR HOME SCIENCE SEMESTER III FOR THE EXAMINATION TO BE HELD IN THE YEARS 2017, 2018 AND 2019

Course Code	Subject	Maximum Marks		Credits	Duration Of Examination
		University Examination	Internal Assessment		
UHSTC301	Elements of Food Science & Normal Nutrition	80	20	4	2.30hrs
UHSPC301	Practical	25	25	2	3hrs
UHSTC302	Introduction to Textiles Science	80	20	4	2.30hrs
UHSPC302	Practical	25	25	2	3hrs
UHSTC303	Computer Science and Application in Home Science	80	20	4	2.30hrs
UHSPC303	Practical	25	25	2	3hrs
UHSPS304 *	Image styling and Fashion Illustration (Practical)	50	50	4	6.hrs
UHSPS305 *	Nutrition Health Communication (Theory)	80	20	4	2.30hrs

*The candidates are required to select any one Skill Enhancement Course

B.Sc. Home Science (Semester III)**Core Course****ELEMENTS OF FOOD SCIENCE AND NORMAL NUTRITION****Course code: UHSTC301**

Duration of Examination: 2.30hrs

Max marks = 100

External Assessment =80

Internal Assessment = 20

Syllabus for Examination to be held in the year 2017, 2018 & 2019*Recommended credits: 4(4hrs. per week)***THEORY****Objectives:**

- 1) To understand the concept of Food Science and Normal Nutrition,
- 2) To understand the basic structure, composition & methods of cooking foods.
- 3) To know how various foods influence dietary practices of individuals.
- 4) To get familiar with the nutritional needs at different stages of growth, starting from birth.
- 5) To know the importance and techniques of Food Preservation.
- 6) To understand the concept of adulteration & the efforts of the Government to check the menace.

UNIT-I**Introduction to Food Science**

- ❖ Definition, importance, applications and Basic Terminology used in Food Science.
- ❖ Concept of Normal Nutrition, RDA for different age groups
- ❖ Definition, importance, objectives and methods of cooking food.
- ❖ Effect of cooking on nutritive value of foods.

UNIT- II**❖ Composition of different foods- I**

- ❖ Cereals – Structure, Composition, Parboiling.
- ❖ Pulses- Structure, Composition.
- ❖ Vegetables – Composition, Nutritive value, Pigments.
- ❖ Fruits - Composition, Nutritive value, Pigments.
- ❖ Milk– Composition, Milk Products Used in Cookery, Pasteurization.

UNIT- III**Composition of different foods- II**

- ❖ Fleshy foods- Meat, Fish, Poultry- Composition, Nutritive Value, Post Mortem Changes in Muscle.
- ❖ Egg- Structure, Composition, Nutritive values.
- ❖ Leavening Agents –
 - Natural (Air & Steam).
 - Chemical – (Baking Soda & Baking Power)
 - Biological – (Liquid & Dry yeast)
 - Beverages – Classification, Nutritive value, Role in diet.

UNIT-IV**Nutrition through lifecycle**

- ❖ Pregnancy.
- ❖ Lactation.

- ❖ Infancy
- ❖ Adolescence.
- ❖ Adulthood
- ❖ Old age

UNIT- V

Preservation and quality standards

- ❖ Food Adulteration – Concept-Adulteration of different foods.
- ❖ Govt. regulations regarding Standard of Quality- AGMARK, ISI, PFA, HACCP, FSSAI
- ❖ Food spoilage- causes – Microbiological, Action of Enzymes, Chemical Reactions, and Physical Factors.
- ❖ Methods of preservation- Use of High and Low temperature, Dehydration, Irradiation

NOTE FOR PAPER SETTING: *THEORY EXAMINATION*

Total time 2 ½ hours only

❖ *The external examinations in theory shall consist of the following*

1. Five (5) short answers to the questions representing all units/syllabi i.e. at least one from each unit (without detailed explanation having 70 to 80 words, to be completed in approximately 6 minutes) and having 3 marks for each answer . (*All Compulsory*) (3x5=15)
2. Five (5) medium answers to the questions representing all units/syllabi i.e. at least one from each unit (with explanation having 250-300 words, to be completed in approximately 12 minutes) and having 7 marks for each answer (*All Compulsory*) (7x5=35)
3. Five (5) long answers to the questions representing whole of the syllabi (with detailed analysis/explanation/critical evaluation/solution to the stated problems ,within 500-300 words, to be completed in approximately 30 minutes) and having 15 marks each answer. (*Any two to be attempted*) (15x2=30)

Distribution of Internal assessment (20 marks)

Theory	Syllabus to be covered in the examination	Time allotted	Weightage (Marks)
Internal Assessment Test: One long answer type question of 10 marks and five short answer type question of 2 marks each	Upto 50 % (after 45 days)	1 hour	20

References:

1. Rodey, Sunetra. (2012). Food Science and Nutrition, Oxford Publications.
2. Charley, H. (1999). Food Science, 4th Ed, John Wiley & Sons.
3. Dowell, P. & Bailey, A. (1980) . The Book of Ingredients , Dorling Kinderley Ltd, London.
4. Ebrahim, G.J. (2000). Nutrition in Mother & Child Health, ELBS.
5. Frazier, W.C. & Westhoff, D.C. (1988), 4th Ed. Food Microbiology. Mc Grawhill Inc.
6. Ghosh, S. (1992). The Feeding & Care of Infants & Young Children, VHAI, 6th Ed. New Delhi.
7. Gopalan C. Nutrition & Health Care. Nutrition Foundation of India . Special publication series.
8. Gopalan C. et al. (1991). Nutritive Value of Indian Foods, ICMR.
9. Gulthrie, A.H. (1986). Introductory Nutrition, 6th Ed. The C.V Mosby Company.

10. Hughes D. & Bennion, M. (1970). Introductory Foods, Macmillan & Co, New York.
11. Polter, N.N& Hotchkiss, J.H(1996) : Food Science, 5th Ed. CBS Publication & Distribution, New Delhi.
12. Prevention of Food Adulteration Act (1994): Govt. of India.
13. Ronsivalli, L.J. & Vieia, E.R (1972) Elementary Food Science, 3rd Ed. Chapman & Hall, New York.
14. Swaminathan, M.S (1985) Essentials of Food & Nutrition VI: Fundamental aspects VII- Applied aspects.
15. Srilakshmi (2007). Food Science, 4th Ed. New Age International Ltd.
16. www.fssai.gov.in
17. Raina U, Kashyap S, Narula V, Thomas S, Suvira, Vir S, Chopra S (2010). Basic Food Preparation: A Complete Manual, Fourth Edition. Orient Black Swan Ltd.
18. Sethi Mohini and Rao E (2011). Food Science (Experiments and Applications), 2ndEd. CBS Publishers & Distributers Pvt. Ltd.

PRACTICALS

Course code: UHSPC301

Duration of Examination: 3hrs

Recommended credits: 2 (3hrs. per week)

Max marks: 50

External Assessment: 25

Internal Assessment: 25

- ❖ Planning & Preparation of days' diet for pregnant & lactating mother.
- ❖ Planning & preparation of days' diet for adolescents & aged.
- ❖ Planning & preparation of a) Weaning foods b) Packed lunch for Pre-schoolers.
- ❖ Preparation and preservation of Jams, preserves, Sauces & Pickles.
- ❖ Cooking of vegetables using different methods.
- ❖ Recipes incorporating milk /milk products.
- ❖ Recipes incorporating leavening agents.
- ❖ Evaluating food labels

Note for practical examination (total marks: 50)

Practical	Syllabus to be covered in examination	Weightage (Marks)
Daily evaluation of practical records/ viva voce/ attendance etc		25 (including 20% for attendance, 40% for viva voce + test and 40% for day to day performance)
Final practical performance + viva voce (<i>External Examination</i>)	100% syllabus	25 (40% paper + 10% viva voce)
Total		50

B.Sc. Home Science (Semester III)**INTRODUCTION TO TEXTILE SCIENCE****Course code:** UHSTC302

Duration of Examination: 2.30hrs

Max marks = 100

External assessment =80

Internal assessment = 20

Syllabus for Examination to be held in the year 2017, 2018 & 2019*Recommended credits : 4(4hrs. per week)***THEORY****OBJECTIVES:**

1. To understand the concept of Textile Science and the terminologies related to Textile Science
2. To acquaint students with the knowledge of fiber, yarn and fabric properties and their measurements.
3. To provide knowledge about the concepts of dyeing, printing and finishing.
4. To familiarize the students with testing of textile fibers, yarns and fabric.

Unit – I Fibers

- ❖ Introduction to Textile Science, Terminologies used in Textile Science – Fiber, Yarn, Textile, Polymerization, Polymer Orientation.
- ❖ Textile Fibers: Classification, Primary and Secondary Properties.
- ❖ History, Origin, Production and Properties of Natural Fibers: Cotton, Wool, Silk And Linen, Manmade Fibers: Rayon, Polyester, Nylon and Acrylic.

Unit – II Yarns

- ❖ Yarn construction:
 - Mechanical Spinning (Cotton system, Wool system, Worsted system)
 - Chemical Spinning (Wet, Dry, Melt)
- ❖ Types of yarns: Staple and Filament, Simple yarns, Complex yarns
- ❖ Yarn Properties-Yarn Numbering, Yarn Twist, Difference between Threads and Yarns
- ❖ Textured yarns: Types and properties
- ❖ Blends: Types of blends and purpose of blending

Unit – III Fabric construction

- ❖ Methods of construction - Weaving: Definition, Classification, Characteristics of Different Basic Weaves, and Methods of Weave Construction.
- ❖ Other Methods of Fabric Construction: Knitting, Crocheting, Bonding, Felting, Braiding and Lacing.
- ❖ Non Woven Fabrics

Unit – IV Fabric finishes and Color application

- ❖ Importance and classification of finishes:
 - Physical: Singeing, Napping, Brushing, Shearing, Sizing, Sanforizing, Tentering and Calendaring.
 - Chemical : Scouring, Bleaching, Mercerization
 - Special purpose: Flame Retardant, Water Repellant, Durable Press, Moth Proofing.
- ❖ Dyes and their types
- ❖ Printing and their types

Unit – V Textile testing

- ❖ Importance of Textile Testing

- ❖ Fiber testing – Fiber dimensions and their measurement
- ❖ Yarn testing – Twist, Strength, Yarn Numbering System – Tex, Denier, Count.
- ❖ Fabric testing – Weight, Thickness, Strength – Breaking, Tear and Bursting, Abrasion – Flex, Pilling and Crease Recovery.

NOTE FOR PAPER SETTING: THEORY EXAMINATION**Total time 2 ½ hours only**❖ **The external examinations in theory shall consist of the following**

1. Five (5) short answers to the questions representing all units/syllabi i.e. at least one from each unit (without detailed explanation having 70 to 80 words, to be completed in approximately 6 minutes) and having 3 marks for each answer . **(All Compulsory) (3x5=15)**
2. Five (5) medium answers to the questions representing all units/syllabi i.e. at least one from each unit (with explanation having 250-300 words, to be completed in approximately 12 minutes) and having 7 marks for each answer **(All Compulsory) (7x5=35)**
3. Five (5) long answers to the questions representing whole of the syllabi (with detailed analysis/explanation/critical evaluation/solution to the stated problems ,within 500-300 words, to be completed in approximately 30 minutes) and having 15 marks each answer. **(Any two to be attempted) (15x2=30)**

Distribution of Internal assessment (20 marks)

Theory	Syllabus to be covered in the examination	Time allotted	Weightage (marks)
Internal Assessment Test One long answer type question of 10 marks and five short answer type question of 2 marks each)	Upto 50 % (after 45 days)	1 hour	20

References:

1. Booth, J.E. Principles of Testing Textiles, Fabrics, Yarns And Fabrics, Butterworth, London 1998.
2. Corbman, P.B. Textiles- Fibre to Fabric, 6th Ed. McGraw Hill Book Co. 2000.
3. Dhantyagi, S. Fundamentals of Textiles and Their Care, Orient Longman, Bombay,
4. Clark, W. An Introduction to Textile Printing, Newnes- Butterworth, Boston, 1999.
5. Grewal, Neelam: Text Book of Home Science (Clothing and Textiles), A.P. Publishers, Books Market, Chowk Adda Tanda, Jalandhar.
6. Randhawa, Rajwinder K. Clothing and Textiles and their care: Pradeep Publications, Jalandhar.
7. Sekhri S., (2013) Textbook of Fabric Science: Fundamentals to Finishing, PHI Learning, Delhi

PRACTICALS**Course code:** UHSPC302

Max marks: 50

Duration of Examination: 3hrs

External Assessment: 25

Recommended credits: 2 (3hrs. per week)

Internal Assessment: 25

- ❖ Identification of fibers-natural and synthetic- by Physical, Burning and Microscopic Tests.
- ❖ Yarn Identification: Single, ply, cord, textured, elastic, monofilament, multifilament and spun yarn
- ❖ Thread count and balance
- ❖ Weaves Identification and their design interpretation on graph: Plain and Variations, Twill, Satin, Sateen And Jacquard.
- ❖ Dyeing- Basic and Tie and Dye (making of one article)
- ❖ Printing-Stencil, Block (making of one article)

Note for practical examination (Total marks: 50)

Practical	Syllabus to be covered in examination	Weightage (Marks)
Daily evaluation of practical records/ viva voce/ attendance etc		25 (including 20% for attendance, 40% for viva voce + test and 40% for day to day performance)
Final practical performance + viva voce (external examination)	100% syllabus	25 (40% paper + 10% viva voce)
Total		50

B.Sc. Home Science (Semester III)**COMPUTER SCIENCE & APPLICATIONS IN HOME SCIENCE****Course code:** UHSTC303

Duration of Examination: 2.30hrs

Max marks = 100

External assessment =80

Internal assessment = 20

Syllabus for Examination to be held in the year 2017, 2018 & 2019*Recommended credits: 4(4 hrs. per week)***THEORY****Objectives:***To enable the students to:*

1. *To understand the Computer applications in Home Science.*
2. *To be able to use Computers for Education, Information .*
3. *Understand and use MS-Word and MS-Excel, Ms Power point*
4. *Create hyperlink between MS-Word and MS-Excel.*

Unit I: Using MS-Word

- ❖ Creating and formatting a document, Starting window, Elements of Word Window, Entering and Editing text Toolbars and their Icons.
- ❖ Table creation and operations.
- ❖ Auto correct, Auto Text, Spell Check, Thesaurus.
- ❖ Word Art, Inserting Objects.
- ❖ Mail-merge.
- ❖ Page set-up, Page Preview.
- ❖ Printing a document.

Unit II: Using MS-Excel

- ❖ Creating a work sheet, starting MS-Excels, Selecting Cells Toolbars and Their Icons.
- ❖ Entering & Editing text, Entering Numbers
- ❖ Sorting Data, Auto Sum.
- ❖ Use of Functions, Formulas
- ❖ Naming Cells and Ranges.
- ❖ Generating Graphs and Charts.
- ❖ Creating Hyperlink to Word document.
- ❖ Printing Worksheets.

Unit III MS-PowerPoint

- ❖ Starting PowerPoint
- ❖ Creating Power Point Presentation
- ❖ Editing Text on Slide
- ❖ Formatting Text
- ❖ Formatting Paragraphs
- ❖ Checking Text
- ❖ Using Clip Art Gallery
- ❖ Develop a Slide Show

Unit IV Internet

- ❖ Computer Network (LAN, MAN, WAN)
- ❖ Meaning, features and use of Internet
- ❖ Software & Hardware Requirements of Internet
- ❖ Searching information on Internet
- ❖ Creation & use of E-mails

Unit V Computer Applications in Home Science

- ❖ Concept of Computer and Designing
- ❖ Need, scope and use of Computer Application Designing in Extension and Communication
- ❖ Need, scope and use of Computer Application Designing in Management
- ❖ Need, scope and use of Computer Application Designing in clothing and textiles

NOTE FOR PAPER SETTING: THEORY EXAMINATION**Total time 2 ½ hours only**❖ *The external examinations in theory shall consist of the following*

4. Five (5) short answers to the questions representing all units/syllabi i.e. at least one from each unit (without detailed explanation having 70 to 80 words, to be completed in approximately 6 minutes) and having 3 marks for each answer . **(All Compulsory) (3x5=15)**
5. Five (5) medium answers to the questions representing all units/syllabi i.e. at least one from each unit (with explanation having 250-300 words, to be completed in approximately 12 minutes) and having 7 marks for each answer **(All Compulsory) (7x5=35)**
Five (5) long answers to the questions representing whole of the syllabi (with detailed analysis/explanation/critical evaluation/solution to the stated problems ,within 500-300 words, to be completed in approximately 30 minutes) and having 15 marks each answer. **(Any two to be attempted) (15x2=30)**

References:

1. Anita Goel,.(2001).Fundamentals of Computers: Forthcoming title in Pearson -Education
2. V Rajaraman,(2007).Fundamentals of Computers, Fourth Edition, PHI.
3. Kihrwadkar A, Pushpanadan, (2006), Information and Communication Technology in Education, Sarup and Sons, Delhi
4. Sampath K (1998), Introduction to Educational Technology, Sterling Publishers Pvt. Ltd
6. Sagar Krshna (2007), ICTs and Teacher Training, Authors Press, Delhi
7. Valerie Q (1998), Internet in a nutshell, Shroff Publishers and Distributors Pvt. Ltd, Delhi

PRACTICALS**Course code:** UHSPC303

Duration of Examination: 3hrs

Recommended credits: 2 (3hrs. per week)

Max marks: 50

External Assessment: 25

Internal Assessment: 25

- 1.Window
 - Moving windows, Display Properties.
 - Exploring Disk, Files & Folders.
2. MS-Word

- Creating new word document, Open existing document, Save, Print, Page Setup, Close, Exit.
 - Edit, View, Insert, Format, Tools menus
3. MS- Power Point- Preparing a 5 slide presentation on any of the issues related to Home Science
 4. MS Excel
 - Printing & Saving sheets, Entering & Editing text, Page Setup
 - Edit, Insert, Format, Tools menus
 5. Understanding the use of Internet search engines, and issues related to security and safety .
 6. Computer Software for Designing :Use any of the following software, available, for making IEC material and Teaching Aids
 - Word Processor
 - Presentation Software
 - Corel Draw
 - Paint
 - Photoshop
 - PageMaker

Note for practical examination (Total marks: 50)

Practical	Syllabus to be covered in examination	Weightage (Marks)
Daily evaluation of practical records/ viva voce/ attendance etc		25 (including 20% for attendance, 40% for viva voce + test and 40% for day to day performance)
Final practical performance + viva voce (external examination)	100% syllabus	25 (40% paper + 10% viva voce)
Total		50

B.Sc. Home Science (Semester III)
Skill Enhancement Course (SEC)

Course code: UHSPS304

**IMAGE STYLING AND FASHION ILLUSTRATION
(PRACTICALS)**

Max marks = 100

External Assessment =50

Internal Assessment = 50

Duration of Examination: 3hrs

Recommended credits: 4(6 hrs. per week)

Syllabus for the examination to be held in the year 2017, 2018 and 2019

Objectives:

1. *To understand the practical aspects of the Clothing and Textiles*
2. *To introduce the concept of fashion illustrations to enable the students to benefit vocationally*
3. *To develop, in students, skills related to Image styling and Fashion Illustration.*
4. *To develop among students skills for garment designing.*

Unit I Physical traits and personality

- ❖ Body and figure types ,Body proportion ,Figure type & problems ,Personality
- ❖ Figure analysis – identifying your physical self and Sketching body features, Stylization of model figures
- ❖ Developing a fashion figure male, female and children
- ❖ Basic figure drawing varying postures

Unit II Identifying clothing needs and wardrobe planning

- ❖ Elements of a basic wardrobe
Wardrobe analysis and organization
Wardrobe style identification
Organization and categorization of wardrobe, Optimizing wardrobe
- ❖ Personal shopping
Preview of apparel / accessory stores ad brands in context to style, size and budget

Unit III Introduction to fashion illustration

- ❖ Vocabulary, Tools
- ❖ Creating textures using different mediums
 - Collecting and studying textures
 - Working with different media and techniques to simulate textures

UNIT IV. Rendering fabric textures

- ❖ Sketching silhouettes in various fabric textures :fur, satin, denim, tissue, silk, chiffon, knits, plaids, corduroy and others

UNIT V Garment types and its features in appropriate textures and styles

- ❖ Garment details (neckline, sleeves, pockets etc.)
 - ❖ Sketching garments
 - ❖ Design a costume for a specific event or profession

RECOMMENDED READINGS

1. Funder, D.C. 2001, The Personality Puzzle (2nd ed), New York: W.W. Norton
2. Phares, J.E. 1991, Introduction to Personality (3rd ed), New York: Harper Collins
3. Abing, B. 2001, Fashion Rendering with Colour, Illustrated ed. Prentice and Hall.
4. Ireland, P.J. 1996, Fashion Design Illustration- Men, B.T. Batsford, London.
5. Ireland, P.J. 2003, Introduction to Fashion Design, B.T. Batsford, London.

Note for practical examination (Total marks: 100)

Practical	Syllabus to be covered in examination	Weightage (Marks)
Daily evaluation of practical records/ viva voce/ attendance etc		50 (including 20% for attendance, 40% for viva voce + test and 40% for day to day performance)
Final practical performance + viva voce (external examination)	100% syllabus	50 (40% paper + 10% viva voce)
Total		100

B.Sc. Home Science (Semester III)
Skill Enhancement Course (SEC)

Course code: UHSTS305

**NUTRITION HEALTH COMMUNICATION
(THEORY)**

Max marks = 100

External Assessment =80

Internal Assessment = 20

Duration of Examination: 2.30hrs

Recommended credits: 4(4 hrs. per week)

Objectives:

1. *To develop among students an understanding of the Need for Nutrition Health Communication*
2. *To make them aware about different nutrition health programmes operational in India*
3. *To introduce them to various communication techniques for Behaviour Change and application of these on ground*

Unit I Nutrition and Health Education

- ❖ Objectives, principles and scope of nutrition and health education and promotion
- ❖ National Nutrition Policy and Programmes - Integrated Child Development Services (ICDS) Scheme, Mid Day Meal Programme (MDMP), National Programmes for Prevention of Anaemia, Vitamin A deficiency, Iodine Deficiency Disorders
- ❖ Need for Nutrition Health Education in India

Unit II Concepts and Theories of Communication in Nutrition – Health

- ❖ Definitions of concepts
- ❖ Formal – Non-formal Communication, Participatory communication
- ❖ History, need and relevance of NHC in India

Unit III The Components and Processes of NHC

- ❖ Concept of Behavior Change Communication (BCC) from imparting information to focusing on changing practices.
- ❖ Components of BCC: Sender, Message, Channel, Receiver
- ❖ Various types of communication – interpersonal, mass media, visual, verbal/ non-verbal.
- ❖ Features of successful BCC

Unit IV Programs and Experiences of NHC: Global and Indian perspective

- NHC in developed and developing nations: some examples
- Evolution of NHC in India: Traditional folk media to modern methods of communication.
- Communication for urban and rural environment; for target specific audience.

Unit V Nutrition - Health – Communication in Government Programs and NGOs

- Evolution of NHC/ IEC in Government nutrition health programs - shift in focus from knowledge gain to change in practices.
- Overview of NHC/IEC in government programs (Activities, strengths and limitations)
- NHC in ICDS, RKSK
- Nutritional counseling in micronutrient deficiency control programs: Control of IDA

Learning Activities:

1. Visit to an ongoing NHC program in ICDS: one rural, one urban.
2. Visit to a health centre (ANC clinic run by Government health department and observe quality of counseling imparted to pregnant women (especially awareness of anemia, importance of IFA). [All the above will be assessed by the students for the plus and minus points from the NHC perspective].
3. To visit an NGO either rural or urban and observe one NHC program implemented for women, school children or adolescence (For all the above observation appropriate observation check lists will be made and used)
4. Based on the above observations and interviews
 - a. To design and plan NHC sessions on a specific nutrition topic for any vulnerable group: children, adolescents, women taking into account all components of NHC.
 - b. Submit the visual, the script of the session: Hindi / English , the communication strategy and evaluation plan.
 - c. To implement one NHC session in the field.

NOTE FOR PAPER SETTING: THEORY EXAMINATION**Total time 2 ½ hours only**

❖ *The external examinations in theory shall consist of the following(Learning activities shall be a part of the theory examinations)*

1. Five (5) short answers to the questions representing all units/syllabi i.e. at least one from each unit (without detailed explanation having 70 to 80 words, to be completed in approximately 6 minutes) and having 3 marks for each answer . **(All Compulsory)** **(3x5=15)**
2. Five (5) medium answers to the questions representing all units/syllabi i.e. at least one from each unit (with explanation having 250-300 words, to be completed in approximately 12 minutes) and having 7 marks for each answer **(All Compulsory)** **(7x5=35)**
3. Five (5) long answers to the questions representing whole of the syllabi (with detailed analysis/explanation/critical evaluation/solution to the stated problems ,within 500-300 words, to be completed in approximately 30 minutes) and having 15 marks each answer. **(Any two to be attempted)** **(15x2=30)**

RECOMMENDED READINGS

1. Field Guide to Designing Communication Strategy, WHO publication-2007.
2. Behaviour Change Consortium Summary(1999-2003), <https://www.ncbi.nlm.nih.gov> > NCBI > Literature
3. Communication Strategy to Conserve/Improve Public Health. John Hopkins University- Centre for Communication Programs.
4. Michael Favin and Marcia Griffiths (1999), Nutrition Tool Kit-09-Communication for Behaviour Change in Nutrition Projects. Human Development Network-The World Bank -1999
5. Harvard Institute of International Development (1981) Nutrition Education in Developing Countries, New York: Oelgeschlager Gunn and Hain Publishers Inc.
6. Hubley. J (1993) Communicating Health. London: Teaching Aids at Low Cost, London, UK.
7. Academy for Educational Development (1988). Communication for Child Survival, AED, USA.
8. Facts for Life (1990). A Communication Challenge. UNICEF / WHO / UNESCO / UNFPA, UK.

9. Wadhwa A and Sharma S (2003). Nutrition in the Community-A Textbook. Elite Publishing House Pvt. Ltd. New Delhi.
10. Park K (2011). Park's Textbook of Preventive and Social Medicine, 21st Edition. M/s Banarasidas Bhanot Publishers, Jabalpur, India.
11. Bamji MS, Krishnaswamy K and Brahmam GNV (Eds) (2009). Textbook of Human Nutrition, 3rd Ed. Oxford and IBH Publishing Co. Pvt. Ltd. New Delhi.
12. ICMR (1989) Nutritive Value of Indian Foods. National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
13. ICMR (2011) Dietary Guidelines for Indians - A Manual. National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
14. Jelliffe DB, Jelliffe ERP, Zerfas A and Neumann CG (1989). Community Nutritional Assessment with special reference to less technically developed countries. Oxford University Press. Oxford.
15. World Health Organization (2006). WHO Child Growth Standards: Methods and development: Length/height-for-age, weight-for-age, weight-for-length, weight-for-height and body mass index-for-age (<http://www.who.int/childgrowth/standards/en/>).

UNIVERSITY OF JAMMU

SYLLABI AND COURSES OF STUDY FOR HOME SCIENCE SEMESTER IV FOR THE EXAMINATION TO BE HELD IN THE YEARS 2018, 2019 and 2020

Course Code	Subject	Maximum Marks		Credits	Duration Of Examination
		University Examination	Internal Assessment		
UHSTC401	Residential Space Design & Household Equipments	80	20	4	2.30hrs
UHSPC401	Practical	25	25	2	3hrs
UHSTC402	Perspectives in Human Development	80	20	4	2.30hrs
UHSPC402	Practical	25	25	2	3hrs
UHSTC403	Communication for Extension Education	80	20	4	2.30hrs
UHSPC403	Practical	25	25	2	3hrs
*UHSPS404	Basic Bakery Technology and Entrepreneurship (Practical)	50	50	4	6 hrs
*UHSPS405	Textile Design (Practical)	50	50	4	6 hrs

*The candidate must select any one Skill Enhancement Course

B.Sc. Home Science (Semester IV)**Core Course****RESIDENTIAL SPACE DESIGN & HOUSEHOLD EQUIPMENTS****Course code:** UHSTC401

Duration of examination: 2.30hrs

Max marks = 100

External assessment =80

Internal assessment = 20

Syllabus for Examination to be held in the year 2018, 2019 & 2020*Recommended credits : 4(4 hrs. per week)***OBJECTIVES:***To help the students to:*

1. *Gain knowledge in principles of planning various types of residential spaces.*
2. *Gain knowledge on furnishings and be able to choose furnishing material keeping the financial consideration in mind.*
3. *Develop the skill of Drawing House plans, furniture layouts, creating designs for furnishing items.*

Unit – I Residential Space planning

- ❖ Basic Concepts in Space Planning and Design, Factors affecting choice of family housing
- ❖ Concept of house, housing, architecture
- ❖ Functions and concept of adequacy of space
- ❖ Characteristics of space, principles of planning spaces; planning and designing
- ❖ Types of house plans: floor, elevation, structural drawings and perspective plans
- ❖ Types of houses: Row, Semi-detached, detached, independent houses or flats/apartments, multi-storeyed buildings
- ❖ Basic norms and space standards in operation – NBC and MPD

Unit III Structural components of a building- innovations and new materials

- ❖ Structuring spaces: indoor and outdoor; space articulation: zones in spatial planning.
- ❖ Analysis of furniture needs of different zones in a house/workstations
- ❖ Conventional/Non-Conventional building materials, Concept of pre-fabrication and modular construction
- ❖ Foundation – effectiveness of different types of foundations
- ❖ Damp-proofing and water-proofing methods
- ❖ Flooring - types
- ❖ Roofs- types
- ❖ Doors and Windows- types, purpose of lintels and arches
- ❖ Staircase - types

Unit IV: Interior Environment and Services: Climatic Considerations

- ❖ Lighting: types of lighting systems, energy efficient lighting systems, user specific lighting for specific areas.
- ❖ Water and Plumbing systems: water supply system, waste water disposal, water harvesting.
- ❖ Insulation: sound and thermal – materials used and types of insulation
- ❖ Partitions and Panelling - types
- ❖ Safety systems: fire protection – materials and systems used

- ❖ Security systems

Unit – IV Household Equipment

- ❖ Material used for household Equipment:
 - Base materials: Aluminum, Iron, Steel, Copper, Brass, Glass, Plastic.
 - Finishes: Mechanical and applied.
 - Insulating materials: Mica, Fiber Glass, Mineral, Wool, Rock, Wool, Plastics, Frames, and Rubber etc.
 - Selection, Use and Care of Equipments used in household.
- ❖ Classification of Household equipment in terms of portable & non- portable.
 - Electrical: Motor driven, Food related (cooking devices, cookers), laundry, personal care and recreation.
 - Non- Electrical : cleaning (brooms, brushes, maps)
 - Small Kitchen tools: Knives Peelers, graters, strainers, & spoons.

Unit – V: Furniture and furnishings

- ❖ Factors needed in Furniture buying.
- ❖ Different styles of furniture.
- ❖ Different materials used for furniture construction.
- ❖ Furnishings-selection, care and maintenance of the fabrics used for
 - Soft furnishings: Curtains And Draperies, Upholstered Furniture, Cushions And Pillows.
 - Floor coverings- Traditional , Modern
- ❖ Furniture arrangement in different rooms

NOTE FOR PAPER SETTING: THEORY EXAMINATION

Total time 2 ½ hours only

- ❖ *The external examinations in theory shall consist of the following(Learning activities shall be a part of the theory examinations)*

1. Five (5) short answers to the questions representing all units/syllabi i.e. at least one from each unit (without detailed explanation having 70 to 80 words, to be completed in approximately 6 minutes) and having 3 marks for each answer . **(All Compulsory)** **(3x5=15)**

2. Five (5) medium answers to the questions representing all units/syllabi i.e. at least one from each unit (with explanation having 250-300 words, to be completed in approximately 12 minutes) and having 7 marks for each answer **(All Compulsory)** **(7x5=35)**

3. Five (5) long answers to the questions representing whole of the syllabi (with detailed analysis/explanation/critical evaluation/solution to the stated problems ,within 500-300 words, to be completed in approximately 30 minutes) and having 15 marks each answer. **(Any two to be attempted)** **(15x2=30)**

Distribution of Internal assessment (20 marks)

Theory	Syllabus to be covered in the examination	Time allotted	Weightage (marks)
Internal Assessment Test One long answer type question of 10 marks and five short answer type question of 2 marks each)	Upto 50 % (after 45 days)	1 hour	20

REFERENCES:

1. Nickell & Dorsey J.M.1983, Business Organization and management, Kitab Mahal, Allahabad.
2. Prof Veena Gandotra & Dr. Sargoo Patel, First Edition 2006, Housing for family living Dominant Publisher and Distributors.
3. Gross. I. H. and Crandall, E.W., 1976 Management for Modern Families. New York.
4. TESSIE, AGAN, M.S The House J.B Lippincoat Company 1956.
5. Koontz. H. and O Donnel C, 1976- Management- A system and contingency analysis of managerial functions. M.C Graw- Hill Kogaknsha Ltd. New Delhi.
6. Goldsmith, Elizebth B. 2000 Resource Management for Modern families.
7. R.S Deshpande, Modern Ideal Homes for India , United Book Corporation.
8. Harriet Goldstein & Vetta Goldstein, Art In Everyday Life. Oxford & Ibh Publishing company, 1964
9. Adler, David., 2004,Metric HandBook planning & Design, Architectural press.
10. Kumar, Sushil, 2008, Building Construction, Standard publisher.

PRACTICALS**Course code:** UHSPC401

Duration of Examination: 3hrs

Recommended credits: 2 (3hrs. per week)

Max marks: 50

External Assessment: 25

Internal Assessment: 25

- ❖ Making different House plans from the various Income levels
- ❖ Visit and Observation of a residential building under construction- Identification of building materials and evaluation concerning their characteristics (favourable and unfavourable features), uses and applications, cost and environment friendliness.
- ❖ Critical Evaluation of independent houses and apartments based on -----
- ❖ Floor plans of furniture arrangement in drawing ,bed and dining rooms
- ❖ Study of common household equipments
- ❖ Surveying the Furnishing Materials available in your own Locality

Note for practical examination (total marks: 50)

Practical	Syllabus to be covered in examination	Weightage (Marks)
Daily evaluation of practical records/ viva voce/ attendance etc		25 (including 20% for attendance, 40% for viva voce + test and 40% for day to day performance)
Final practical performance + viva voce (external examination)	100% syllabus	25 (40% paper + 10% viva voce)
Total		50

B.Sc. Home Science (Semester IV)**Core Course****PERSPECTIVES IN HUMAN DEVELOPMENT****Course code:** UHSTC402

Max marks = 100

External assessment =80

Internal assessment = 20

Duration of examination: 3hrs

Syllabus for Examination to be held in the year 2018, 2019& 2020*Recommended credits : 4(4 hrs. per week)***OBJECTIVES:**

- 1) *To develop knowledge and understanding about historical and theoretical perspective in human development.*
- 2) *To learn about the various Developmental Issues.*
- 3) *To gain an understanding of the vocational specializations related to Human Development:*
 - *Early Childhood Care Education and Development.*
 - *Disability Studies*
 - *Family and Child Welfare*

Unit I Introduction to theories in key themes in Human Development

- Key themes in the study of Human Development- Nature/nurture, active/ passive, continuity/discontinuity, individual differences and similarities
- Perspectives in Human Development(Brief Understanding):
 - Evolutionary and Ethological /Biological: Darwin, Lorenz, Bowlby
 - Ecological: Bronfenbrenner
 - Behavioural: Pavlov, Skinner, Bandura

Unit II Selected theories of human development

- Psychodynamic; psychosexual and psychosocial theories; Freud, Erikson
- Cognition: Piaget, Vygotsky
- Models and Theories of Intelligence: Guilford, Spearman and Gardener
- Humanistic: Maslow and Rogers

Unit III Streams of Human Development.

- ❖ Human Development: Indian Perspective
- ❖ Introduction to major streams of Human Development: ECCED, Child with Special Needs, Family and Child Welfare.
- ❖ Vocational aspects of Human Development.

Unit- III Early Childhood Care, Education and Development(ECCED)

- ❖ Concept, Characteristics and Significance of Early Childhood Years.
- ❖ Definition, Scope and Significance of ECCED in Indian Context
- ❖ Understanding childhood competencies
- ❖ Teaching Learning materials used in ECCED
- ❖ Integrated Child Development Scheme Mission

Unit IV Children with special needs:

- ❖ Classification of special needs of children
- ❖ Identification, assessment and etiology with reference to:
 - Physical disabilities-
 - Intellectual disabilities-
 - Sensory disabilities- Visual and auditory

Unit V Family and Child Welfare

- ❖ Contemporary issues of Family and Child Welfare in India
- ❖ Vulnerable groups of Children: Street, homeless, institutionalized and working children, Child Abuse, Child Trafficking Children in conflict with the law, Children living with: chronic illness, HIV
- ❖ Contemporary families, Conflict in families, Issues related to Ageing, Gender Issues

NOTE FOR PAPER SETTING: *THEORY EXAMINATION*

Total time 2 ½ hours only

- ❖ *The external examinations in theory shall consist of the following(Learning activities shall be a part of the theory examinations)*

1. Five (5) short answers to the questions representing all units/syllabi i.e. at least one from each unit (without detailed explanation having 70 to 80 words, to be completed in approximately 6 minutes) and having 3 marks for each answer . (**All Compulsory**) **(3x5=15)**
2. Five (5) medium answers to the questions representing all units/syllabi i.e. at least one from each unit (with explanation having 250-300 words, to be completed in approximately 12 minutes) and having 7 marks for each answer (**All Compulsory**) **(7x5=35)**
3. Five (5) long answers to the questions representing whole of the syllabi (with detailed analysis/ explanation/critical evaluation/solution to the stated problems ,within 500-300 words, to be completed in approximately 30 minutes) and having 15 marks each answer. (**Any two to be attempted**) **(15x2=30)**

Distribution of Internal assessment (20 marks)

Theory	Syllabus to be covered in the examination	Time allotted	% weightage (marks)
Internal Assessment Test One long answer type question of 10 marks and five short answer type question of 2 marks each)	Upto 50 % (after 45 days)	1 hour	20

References: -

1. Carlson, N.R(2007). Foundation of physiological Psychology. Dorling Kindessley of Pearson Education.
2. Berk, L.E (2007). Child Development. Seventh Edition. Jay Print Pack, New Delhi.
3. Smith, J.T(2008) Early Childhood Development . Second Edition.
4. Bigner, J.J (1998). Parent child Relations. An introduction to parenting. Merrill parenting. Merrill prentice Hall.
5. Siegler, R. Deloache J.Eisenberg, N.(2003). How Children Develop. Madison, New York.
6. Rout, H.S(2009). Human Development, Dimensions and Strategies. New century Publications, New Delhi.
7. Mohanty, J. Mohanty, B(2002) Early Childhood Care & Education (ECCE). New Delhi.
8. Davidson, J.K. Moore, N.B(1996). Marriage and Family. Change and continuity. United State of America.

9. Hallahan, D.P and Kaufman, J.M (1991). Introduction to Exceptional children (fifth edition). Boston, Allyn and Becon.
10. Santrock, J. W. (2007). A topical approach to life-span development. New Delhi: Tata McGraw- Hill.
11. Kaul, V.(1997) Early Childhood Programme, New Delhi, NCERT.
12. Swaminathan M.Ed(1998). The first five years. A critical perspective on Early Childhood Care and Education in India, New Delhi, Sage.
13. Aggarwal, J. C. (2007). Early Childhood Care and Education: Principles and Practices. Shipra: New Delhi.
14. Arni, K. and Wolf G. (1999). Child Art with Everyday Materials.TARA Publishing.
15. Mohanty, J. Mohanty, B. (1996). Early childhood care and Education. Deep and Deep Publication, New Delhi.
16. Morrison, G. S. (2003). Fundamentals of early childhood education. Merrill/Prentice Hall: Virginia
17. Singh, A. (1995). Playing to Learn: A training manual for Early Childhood Education. M. S. Swaminathan Research Foundation.
18. Jena, B., Pati R.(1986) Health and family Welfare Services in India. Ashish, New Delhi
19. Maitra, T., (1985). Public Services in India. Mittal , New Delhi
20. Singh, A. (Ed). 2015. Foundations of Human Development: A life span approach. New Delhi: Orient BlackSwan.

PRACTICALS

Course code: UHSPC402

Duration of examination: 3hrs

Recommended credits: 2 (3hrs. per week)

Max marks: 50

External Assessment: 25

Internal Assessment: 25

- ❖ Use of Piagetian approach to study cognitive development of children in any of the four stages.
- ❖ To study the needs of a family of a child with a special need.
- ❖ Visit to any two ECCE centers and survey of existing teaching materials in Early Childhood Centers, Anganwadis and Preschools (One from each type)
- ❖ Visit to a Child and a Family welfare organization to study their objectives and activities.
- ❖ Interaction with the aged in an Institution
- ❖ Interaction with children in any of the Residential Institutions for Child Welfare

Note for practical examination (total marks: 50)

Practical	Syllabus to be covered in examination	% weightage (Marks)
Daily evaluation of practical records/ viva vose/ attendance etc		25 (including 20% for attendance, 40% for viva vose + test and 40% for day to day performance)
Final practical performance + viva vose (external examination)	100% syllabus	25 (40% paper + 10% viva vose)
Total		50

B.Sc. Home Science (Semester IV)**Core Course****COMMUNICATION FOR EXTENSION EDUCATION****Course code:** UHSTC403

Duration of examination: 3hrs

Max marks = 100

External assessment = 80

Internal assessment = 20

Syllabus for Examination to be held in the year 2018, 2019 & 2020*Recommended credits: 4(4 hrs. per week)***Objectives**

1. Understand the process of communication in development work.
2. Develop skills in the use of communication methods.
3. Understand the widening concept of extension.

Unit I Extension and Communication

- ❖ Extension: concept, goals and history
- ❖ Adult learning components of Extension
- ❖ Extension systems- types, advantages and disadvantages
- ❖ Relationship between communication and extension - role of extension in development and communication

Unit II Extension Methods and Approaches

- ❖ Stakeholders in development
- ❖ Peoples participation and social mobilization in development
- ❖ Leadership and extension- concept theories styles and types of leadership
- ❖ Diffusion of innovation and adoption
- ❖ Extension methods and approaches - classification, characteristics and selection

Unit III Development Programme

- ❖ Development issues and goals- national and international perspectives
- ❖ National Development Programmes - goals, strategies, structure and achievements
- ❖ Analysis of contemporary national development programmes- objectives, clients, salient features, outcomes and communication support.
- ❖ Behaviour Change Communication strategies in development programmes.

Unit IV Extension Programme Planning

- ❖ Concept Definitions, Objectives and Principles Programme Planning.
- ❖ Steps in Programme Planning.
- ❖ Features of Management of Developmental programs
- ❖ Monitoring & Evaluation of Programs: tools and techniques
- ❖ Participatory monitoring and evaluation

Unit V: - Monitoring and Evaluation (M & E) of communication for development programmes

- ❖ Trends in M & E of Communication for Development Programmes
- ❖ Challenges, issues and strategies
- ❖ Approaches, methodologies and frameworks
- ❖ Ethical issues in M&E

NOTE FOR PAPER SETTING: THEORY EXAMINATION

Total time 2 ½ hours only

❖ **The external examinations in theory shall consist of the following(Learning activities shall be a part of the theory examinations)**

1. Five (5) short answers to the questions representing all units/syllabi i.e. at least one from each unit (without detailed explanation having 70 to 80 words, to be completed in approximately 6 minutes) and having 3 marks for each answer . **(All Compulsory)** **(3x5=15)**
2. Five (5) medium answers to the questions representing all units/syllabi i.e. at least one from each unit (with explanation having 250-300 words, to be completed in approximately 12 minutes) and having 7 marks for each answer **(All Compulsory)** **(7x5=35)**
3. Five (5) long answers to the questions representing whole of the syllabi (with detailed analysis/ explanation/critical evaluation/solution to the stated problems ,within 500-300 words, to be completed in approximately 30 minutes) and having 15 marks each answer. **(Any two to be attempted)** **(15x2=30)**

Distribution of Internal assessment (20 marks)

Theory	Syllabus to be covered in the examination	Time allotted	% weightage (marks)
Internal Assessment Test One long answer type question of 10 marks and five short answer type question of 2 marks each)	Upto 50 % (after 45 days)	2 hour	20

Recommended Readings:

1. Mikkelsen, Britha, (2002), Methods for Development Work and Research. New Delhi: Sage Publications
2. Dale R, (2004) Evaluating Development Programmes and Projects. New Delhi : Sage Publications.
3. Kumar & Hansra, (1997) Extension Education for Human Resource Development. New Delhi: Concept Publishers.

PRACTICALS

Max marks: 50

Course code: UHSPC403

Duration of examination: 3hrs

Recommended credits: 2 (3hrs. per week)

External Assessment: 25

Internal Assessment: 25

- ❖ Studying any one Operational Extension Programs
- ❖ Case study of Rural Leaders – Male and Female
- ❖ Learning to use participatory techniques in monitoring and evaluation of any one Developmental Program

- ❖ Developing and Using Communication aids for spreading Development Messages in a Community:
 - String puppets.
 - Poster
 - Charts
 - Pamphlets, leaflets and folders.
 - Presentation of Bulletin Boards.

Note for practical examination (total marks: 50)

Practical	Syllabus to be covered in examination	Weightage (Marks)
Daily evaluation of practical records/ viva voce/ attendance etc		25 (including 20% for attendance, 40% for viva voce + test and 40% for day to day performance)
Final practical performance + viva voce (external examination)	100% syllabus	25 (40% paper + 10% viva voce)
Total		50

B.Sc. Home Science (Semester IV)**Skill Enhancement Course (SEC)****Course code: UHSPS404****BASIC BAKERY TECHNOLOGY AND ENTREPRENEURSHIP
(PRACTICAL)****Max marks = 100****External Assessment =50****Internal Assessment = 50****Duration of Examination: 2.30hrs***Recommended credits: 4(6 hrs. per week)**Objectives:*

1. To develop in students awareness and skills related to vocation in Baking Technology
2. To introduce basic baking techniques- Indian and Non Indian
3. To give them hands on training to enable them to set up their own Baking Units
4. To give them concept of Modification of bakery products to make them nutritious and applicable for persons with different requirements

Unit-I

- History of Bakery, Current status, economic importance of Bakery Industry in India.
- Product types, nutritional quality and safety of products, pertinent standards & regulations. Present Trends - Prospects of Bakery
- Nutrition facts of Bakery.
- Raw materials used in Bakery - Wheat: Structure and Composition of wheat, Varieties of Wheat, Wheat products - Whole wheat flour, Maida, semolina, Role of Gluten

Unit-II

- Yeast, Yeast Production
- Enzymes - their functions in dough,
- Sugar and Milk - Properties and Role of milk and Sugar in Bakery,
- Leavening, flavouring, Nuts and fruits - their function in bread making, Cocoa and Chocolate

Unit-III

- Types of breads, bread faults and remedies.
- Biscuits: Ingredients - Types of biscuits - Processing of biscuits - faults & Remedies. Cream crackers, soda crackers, wafer biscuits & matzos, puff biscuits, Short dough biscuits, Wafers,
- Cakes - types - Ingredients - Processing of cakes - Problems - Remedies
- Pizza and pastries - their ingredients and Processing

Unit-IV

- Indian traditional baked products
- Modified bakery Modification of bakery products for people with special nutritional requirements e.g. high fibre, low sugar, low fat, gluten free bakery products.

Unit-V

- Setting up of a Bakery Unit - Bakery equipment required - types - Selection – Maintenance

- Bakery norms and Standards, materials of construction of Food Equipments.
- Illumination and ventilation. Cleaning & sanitization
- Maintenance of Food Plant Building : Safety Color Code, Roof Inspection, Care of Concrete floors

REFERENCES

1. Dubey, S.C. (2007). Basic Baking 5th Ed. Chanakya Mudrak Pvt. Ltd.
2. Raina et.al. (2003). Basic Food Preparation-A complete Manual. 3rd Ed. Orient Longman Pvt. Ltd.
3. Manay, S. & Shadaksharaswami, M. (2004). Foods: Facts and Principles, New Age Publishers.
4. Barndt R. L. (1993). Fat & Calorie – Modified Bakery Products, Springer US.
5. Samuel A. Matz (1999). Bakery Technology and Engineering, PAN-TECH International Incorporated.
6. Faridi Faubion (1997). Dough Rheology and Baked Product Texture, CBS Publications.
8. Samuel A. Matz (1992). Cookies & Cracker Technology, Van Nostrand Reinhold

Note for practical examination (Total marks: 100)

Practical	Syllabus to be covered in examination	Weightage (Marks)
Daily evaluation of practical records/ viva voce/ attendance etc		50(including 20% for attendance, 40% for viva voce + test and 40% for day to day performance)
Final practical performance + viva voce (external examination)	100% syllabus	50 (40% paper + 10% viva voce)
Total		100

B.Sc. Home Science (Semester IV)**Skill Enhancement Course (SEC)****Course code: UHSPS405****TEXTILE DESIGN
(PRACTICALS)**

Max marks: 100

Duration of Examination: 2.30 hrs

External Assessment: 50

Recommended credits: 4 (6hrs. per week)

Internal Assessment: 50

Objectives:

1. Developing among students skills to start a vocation in Textile Designing
2. To make them understand the basic requirements and principles of textile designing
3. Illustrate various types of designs and techniques in different colour media
4. Implement craft based work for fabrics
5. Use different textile designing techniques to develop apparel.

Unit I Basic Requirements for Textile Design

- Drawing tools and equipment
- Drawing forms: dot to form; geometric, simplified, naturalized, stylised, abstract
- Design development by placements
- Fabric manipulation –cuts, removal of threads

Unit II Applications of Principles of Design

- Color study -color wheel, value, intensity, harmonies
- Lines-Aspects and effects of lines - curved, structural, visual, illusion
- Application of principles of design - proportion, balance, rhythm, emphasis and unity

Unit III Making Designs through Color Application

- Painting
- Dyeing- Dyeing of yarns and fabrics with different fiber and fiber blend, shade matching: Tie and dye, Batik
- Printing- Developing designs for block, stencil, screen printing and hand painting.

Unit IV Surface Decoration –

- Embroidery, Embellishments: Learning different stitches from different regions of India
- Surface layering:
 - Appliqué
 - Patchwork
 - Quilting
 - Pleats
 - Tucks

V Product development using the above designing techniques

- Preparing a Project Report / Design Proposal.
- Screen Printing (Towels)
- Hand painting with Dye ,Tie and Dye, Block printing (Sarees or Bed Cover)
- Combination of relief & resist method
- of printing. (Designing or Batik)-Wall hanging.
- Spray Painting (Table Mats)
- Fabric Painting, Organdy table cloth painting in Floral/ Traditional using center line designs
- Making Apron by combining any three different types of textures.

RECOMMENDED READINGS

1. Juracek, A. Judy,2000,Soft Surface, Thames & Hudson Ltd.
2. Milne D'Arcy Jean,2006, Fabric Left Overs, Octopus Publishing Group Ltd.
3. Singer Margo,2007.Textile Surface Decoration-Silk & Velvet, A&C Black Ltd
4. Susan Miller & Joost Elfers, 2003. TextileDesign, London : Thames & Hudson
5. Norah Gillah, 2003. Design and Patterns, London : Thames & Hudson .

Note for practical examination (Total marks: 100)

Practical	Syllabus to be covered in examination	Weightage (Marks)
Daily evaluation of practical records/ viva voce/ attendance etc		50(including 20% for attendance, 40% for viva voce + test and 40% for day to day performance)
Final practical performance + viva voce (external examination)	100% syllabus	50 (40% paper + 10% viva voce)
Total		100