

RANCHI WOMEN'S COLLEGE, RANCHI



COURSE OF STUDY

FOR

MASTER OF ARTS IN
HOME SCIENCE

UNDER

CHOICE BASED CREDIT SYSTEM (CBCS)
TWO YEARS DEGREE COURSE
IN SEMESTER SYSTEM.

Department of Home Science Ranchi Women's College, Ranchi

A virtual meeting of Board of Studies of Department of Home Science was held on 25th June 2021 at 11.00 am, through Google Meet (Online Board of Studies Meeting Of Department of Home Science, RWC, Ranchi, Wednesday, June 25 - 11:00am - 12:00pm, Google Meet joining info Video call link: <https://meet.google.com/nhv-ydxa-idy>) with following members present in the meeting

- | | | | |
|------------------------|---|----------------------|-------------------------|
| 1. Chairperson, Head | - | Dr. Kiran Kumari | <i>Kiran Kumari.</i> |
| 2. University Member | - | Dr. Reshma Xalxo | <i>Reshma Xalxo</i> |
| 3. PG Head | - | Dr. Asha Prasad | <i>Asha Prasad</i> |
| 4. External Expert | - | Dr. Seema Dey | <i>Seema Dey</i> |
| 5. Member Teacher | - | Dr. Shipra Kumari | <i>Shipra Kumari</i> |
| 6. Member Teacher | - | Dr. Renu Kumari | <i>Renu Kumari</i> |
| 7. Member Alumni | - | Dr. Minakshi Akhauri | <i>Minakshi Akhauri</i> |
| 8. Member Student (PG) | - | Ms. Riya Kumari | <i>Riya Kumari</i> |
| 9. Member Student (UG) | - | Ms. Shraddha Manik | <i>Shraddha Manik.</i> |

Agenda – To review and approve M.A. Home Science Syllabus under Choice Based Credit System implemented in 2016.

Resolution – The existing syllabus of M. A. Home Science under Choice Based Credit System was reviewed and few minor changes were made like,

- 1) IPR was added in first paper of Semester-I.
- 2) Some portions (which was repeated) were removed in nutrition and extension courses.

Now this syllabus with above minor changes is approved by Board of Studies and applicable from 2021-23 under Semester System.

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| 2. University Member | - | Dr. Reshma Xalxo | <i>Reshma Xalxo</i> |
| 3. PG Head | - | Dr. Asha Prasad | <i>Asha Prasad</i> |
| 4. External Expert | - | Dr. Seema Dey | <i>Seema Dey</i> |
| 5. Member Teacher | - | Dr. Shipra Kumari | <i>Shipra Kumari</i> |
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| 8. Member Student (PG) | - | Ms. Riya Kumari | <i>Riya Kumari</i> |
| 9. Member Student (UG) | - | Ms. Shraddha Manik | <i>Shraddha Manik.</i> |

Shipra Kumari
Member Secretary
Academic Council
Ranchi Women's College

Shraddha Manik
Member Secretary
Academic Council
Ranchi Women's College

SEMESTER – I

Sl. No	Paper	Subject Code	Name of Courses	Credit	Hrs/Week	Subject Code/Course Code
1	I	FC (Compulsory)	Research Methods and Statistics	5	5(L)=1(T)	HSCFC
2	II	CC-1	Food Science and Public Nutrition	5	5(L)=1(T)	HSCCC101
3	III	CC-2	Extension Education and Communication	5	5(L)=1(T)	HSCCC102
4	IV	CC (P)-3	Practical	5	10	HSCCC103

SEMESTER – II

Sl. No	Paper	Subject Code	Name of Courses	Credit	Hrs/Week	Subject Code/Course Code
1	I	CC-4	Advanced Textiles and Clothing	5	5(L)=1(T)	HSCCC204
2	II	CC-5	Advanced Study in Human Development	5	5(L)=1(T)	HSCCC205
3	III	CC (P)-6	Practical Training and Skill Development	5	10	HSCCC206
4	IV	EC-1	(Gr. A) Applied Physiology	5	5(L)=1(T)	HSCEC201A
			(Gr. B) Theories of Human Development	5	5(L)=1(T)	HSCEC201B
			(Gr. C) Social and Psychological Aspect of Clothing	5	5(L)=1(T)	HSCEC201C

Note – Students have to select any one of the following group for Elective Course as per their choice and interest.

Gr. A- Foods and Nutrition, Gr. B – Human Development, Gr. C- Textiles and Clothing

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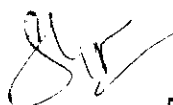
Riya Kumari

SEMESTER – III

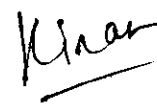
Sl. No	Paper	Subject Code	Name of Courses	Credit	Hrs/Week	Subject Code/Course Code
1	I	CC-7	Ecology and Environmental Management	5	5(L)=1(T)	HSCCC307
2	II	CC-8	Consumer Economics and Financial Management	5	5(L)=1(T)	HSCCC308
3	III	CC (P)-9	Practical	5	10	HSCCC309
4	IV	EC-2	(Gr. A) Advanced Nutritional Biochemistry	5	5(L)=1(T)	HSCEC302A
			(Gr. B) Parenting in Early Childhood	5	5(L)=1(T)	HSCEC302B
			(Gr. C) Advanced Apparel Construction	5	5(L)=1(T)	HSCEC302C

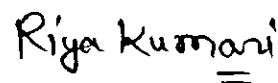
SEMESTER – IV

Sl. No	Paper	Subject Code	Name of Courses	Credit	Hrs/Week	Subject Code/Course Code
1	I	CC-10	Indian Socioeconomic Development and Status of Women	5	5(L)=1(T)	HSCCC410
2	II	EC-3	(Gr. A) Therapeutic and Clinical Nutrition	5	5(L)=1(T)	HSCEC403A
			(Gr. B) Early Childhood Care and Education-Organizational Set up and Activities	5	5(L)=1(T)	HSCEC403B
			(Gr. C) Fashion Illustration , Draping and Pattern Grading	5	5(L)=1(T)	HSCEC403C
3	III	EC (P)-4	Practical	5	10	HSCEC404 A-C
4	IV	Project	Project/Dissertation	5	10	PROJECT/DISSERTATION







HSC SEM I

SEMESTER I

4 Papers

Total 100 x 4 = 400 Marks

I. COMPULSORY FOUNDATION COURSE [HSCFC]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:Mid Semester Examination (MSE):

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd., 5 marks).

UNIT I: RESEARCH METHODS AND STATISTICS

Paper 1 – FC (TH)

Credit – 5

Hrs./Week – 5L+1T

Exam.(30 Dept. + 70 Univ.)

Objectives-

- To understand the significance of research Methodology in Home Science Research.
- To understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design.
- To understand the significance of statistics in Home science research

CONTENT

1. Social Research — Meaning, Objectives and importance.	02
2. Scientific Method in Social research — Meaning, stages.	02
3. Hypothesis- Meaning, Characteristics of a good hypothesis and sources of hypothesis.	05
4. Research Design: Meaning and purposes	03
5. Variables - Definition and Types.	02
6. Sampling Procedure- Meaning, Types, Merits and demerits	06
7. Data Gathering Instruments	10
Observation	

Questionnaire

Interview; Types, Merits and demerits.

8. Report Writing and Thesis Writing.	03
9. Introduction, classification, tabulation of data, frequency distribution	05
10. Measurement of central tendency-mean, median, mode	06
11. Graphic representation of data	03
12. Measurement of variation -Range, quartile deviation, average deviation, standard deviation.	10
13. Correlation-Pearson's product moment method, spearman's rank correlation method.	06
14. Test of significance —	07
(a) Parametric t - test, analysis of variance (F test),	
(b) Non- parametric — chi-square test	

UNIT II: Intellectual Property Rights: An Introduction

- 1) Definition and Scope of Intellectual Property Rights (IPR)
- 2) Types of Intellectual Property Rights: Copyright, Patent, Trademark, Design, Geographical Indication
- 3) Copyright:
 - 3.1) Concept of copyright as a protection under the IPR
 - 3.2) The Idea and Expression Dichotomy
 - 3.3) Copyright in Original and Derivative works
 - 3.4) Moral Rights
 - 3.5) Concept of Ownership, Authorship and Joint Authorship of Copyright
 - 3.6) Assignment, License and Registration
- 4) Types of Plagiarism and tools to check Plagiarism

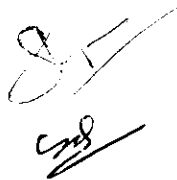
LEARNING OUTCOME

A successful completion of this course will enable students to

- ☐ Understand and apply the appropriate statistical design technique for the measurement scale and design.

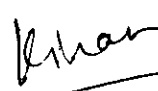
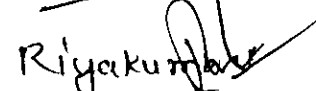
REFERENCE BOOKS

- शोध प्रणाली-विज्ञान, मुहम्मद सुलैमान, शुक्ला बुक डिपो, पटना
- सामाजिक शोध एवं सांख्यिकी, आर.एन. मुखर्जी
- सामाजिक अनुसंधान, राम आहूजा
- रिसर्च मैथडोलॉजी, डॉ. आर.एन. त्रिवेदी, डॉ. डी.पी. शुक्ला कॉलेज बुक डिपो, जयपुर
- Pauline V. Young. Scientific Social Surveys and research, Prentice -Hall of India Private Limited, NewDelhi.
- SM Mohsin, Research Methods in Behavioural Sciences - Orient Longman.




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II. CORE COURSE [HSCCC101]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:**Mid Semester Examination (MSE):**

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

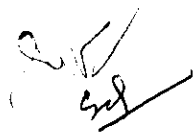
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(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd., 5 marks).

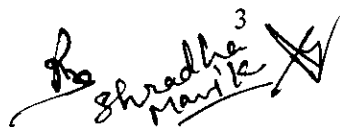
FOOD SCIENCE AND PUBLIC NUTRITION**Paper 2 – CC -1(TH)****Credit – 5****Hrs./Week – 5L+1T****Exam.(30 Dept. + 70 Univ.)****Objectives-**

1. To develop an understanding of composition of various food stuffs, nutrients, theoretical knowledge of various food preparations, processing and its applications.
2. To understand the consequences of nutrition problems in the society and their control.
3. To be familiar with various approaches to health interventions, program and policies

CONTENT

1. Introduction to food science, Interrelationship of the nutrients in biological functions and their significance 02
2. Carbohydrate, fat and protein- structure, composition classifications, properties and daily allowances, denaturation of protein, properties of gel, emulsion and foam, 08
3. Water- structure and properties, water activity, quality of drinking water. 04
4. Enzyme — nature and properties, action of enzyme. 05
5. Structure, composition and effect of heat, preservation techniques, of the followings. 10
 - Cereal and pulses
 - Milk and milk product
 - Meat, Fish, Egg
 - Beverages-synthetic and natural,
 - Traditional processed products, Jam, Jelly, Squash
 - Fermentation
6. Public Nutrition- concept, relationship between health and nutrition, role of dieticians in health care and delivery system. 05
7. Primary health care of the community, indicators of health and nutrition 08
8. National Nutrition policies and program - ICDS, Mid-Day Meal, Prophylaxis program (Anaemia, Vit-A Deficiency, Iodine deficiency), intervention programs 10
9. Major nutritional problems-etiology, prevalence clinical signs, preventive and therapeutic measures in protein energy malnutrition (PEM), nutritional anemia, Rickets, Osteomalacia, beriberi, goiter, Obesity 10
10. Food Security, Food production, distribution and availability, socio cultural aspects and 10







LEARNING OUTCOME

A successful completion of this course will enable students to

- Identify nutrient specific force and apply the principles from the various factors of food and related disciplines to solve practical as well as real world problems.

REFERENCE BOOKS

- आहार एवं पोषण विज्ञान, एम.स्वामीनाथन, इंदौर
- मानव शरीर एवं पोषण विज्ञान, आशा कुमारी, क्लासिकल पब्लिशिंग, नई दिल्ली
- B.Srilakshmi, Dieties
- Mahtab S Bamji, Text Book of Human Nutrition, Oxford Publication, New Delhi
- Joshi Shubhangini A, Nutrition and dietetics , Tata McGraw Hill Co. Ltd. New Delhi (2002)
- Swaminathan M., Food And Nutrition, Vol I & Vol II, BAPPCO
- Mudambi. S R. and Rajagopal M.V., Fundamentals of Foods Nutrition and Diet Therapy, New AgeInternational Publisher, New Delhi

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III. CORE COURSE [HSCCC102]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:**End Semester Practical Examination (ESE Pr):**

The questions in practical examination will be of equal to 70 marks and will be so framed that the students are able to answer them within the stipulated time. 20 marks will be awarded on the performance in viva voce whereas 10 marks will be awarded on cumulative assessment which is further subdivided as 5 marks for Practical record and 5 marks for Attendance.

Note:

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd, 5 marks).

EXTENSION EDUCATION AND COMMUNICATION**Paper 3 – CC -2(TH)****Credit – 5****Hrs./Week – 5L+1T****Exam.(30 Dept. + 70 Univ.)****Objectives-**

- ☐ To enable the students to understand the changing concepts of Extension Education.
- ☐ To identify the Support System for Extension Education
- ☐ To enable students to understand the concept, structure and organization of different types of communities.
- ☐ To understand the factors contributing to changes in Community, Community Organization and their mobilization for developmental goals.

CONTENT

- 1. Conceptual analysis of Extension:** 08
Extension: Meaning, Philosophy, Changing concepts, Objectives, Principles, Functions, Components and Dimensions of Extension, Process and Principles of learning in Extension Education. Quality of a good Extension worker, role of leadership in community development
- 2. Extension Models:** 08
Technology innovation, Transfer Models, Social Education Model, Empowerment Participation Model and Combination Model.
- 3. Extension Approaches:** 08
Commodity specialized extension of agricultural commodity, Training and visit for Extension Approaches, Participatory Projects, Extension Educational Institutions, Integrated Area, Cluster and Target Approaches.
- 4. National Extension System:** 10
Early Extension Efforts, Community Development Programs, - Genesis and growth, objectives, principles, ICAR Extension Systems, Agricultural Universities, KVK, TTCs, Extension Systems of Ministry of Rural Development. Functioning of Department of Women and Child Development. Non-Government-Organizations (NGOs) - principles, Working of Government- NGOs Collaborations
- 5. Support Structures and Their Functions** 08
Panchayat, Union and DRDA
National Level Voluntary Agencies like CAPART, KVIC
Local Level Voluntary Agencies
People's Organization at Grassroots: SI-IGs, Elected Panchayats

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A successful completion of this course will enable students to

- ## REFERENCE BOOKS

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IV. CORE COURSE [HSCCC103]:

(Credits: Practical 05)

PRACTICAL PAPER I**Paper – CC (P)-3****Credit – 5****Hrs./Week – 10**
Exam.(100 Univ.)**Objectives-**

1. To acquire practical knowledge of preparation of research proposal, data gathering tools, conducting research and analyzing data.
2. To enable students about practical approach of Home Science Extension Education System and Communication.

CONTENT**Part A -**

- | | |
|---|----|
| 1. Construct a Questionnaire / Schedule as data gathering tool. | 3 |
| 2. Plan a research proposal making hypothesis and prepare a report. | 10 |
| 3. Calculation of Measure of Central tendency based on data. | 4 |
| 4. Graphical representation of data through Bar Diagram, Frequency Polygon, Pie Chart | 4 |

Part B -

- | | |
|---|----|
| 1. Use of Fermentation technique for preparation of food and recipe. | 3 |
| 2. Preparation of food product / recipe through enrichment process. | 4 |
| 3. Assessment of nutritional status of children/ pregnant /lactating women. | 10 |
| 4. Development and preparation of low cost recipe for the population groups vulnerable to nutritional deficiencies. | 4 |

Part C -

- | | |
|--|----|
| 1. Preparation and Use of Audio-Visual Aids | 5 |
| 2. Survey of NGOs such as Krishi Vigyan Kendra, KVIC, Gram Yuvak Kendras, Mahila Mandal | 5 |
| 3. Investigation of felt need of any beneficiary group and planning a program for them, execution and evaluation of program. | 10 |

LEARNING OUTCOME

A successful completion of this course will enable students to

- To have practical knowledge of Food Science and Public well-being and Nutrition

[Handwritten signatures and names: Sush, R, Anur, Shradha Manik, Khan, Riya Kumari, PL]

SEMESTER II

4 Papers

Total 100 x 4 = 400 Marks

I. CORE COURSE [HSCCC204]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
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ADVANCED TEXTILES AND CLOTHING

Paper 2 – CC (TH) -4

Credit – 5

Hrs./Week – 5L+1T

Exam.(30 Dept. + 70 Univ.)

Objective

- To enable students to understand about polymers, chemistry, production properties of natural and manmade fibres
- To Enable to develop understanding of yarn, fabrics, finishing, dyeing and printing

CONTENT

1. Chemical concept of Textile fibres- 04
 - Textile Chemistry and its relation to textiles and clothing
 - Polymer, definition, types, Polymerization process, molecular weight, degree of polymerization
 - General structure of fibre, orientation & crystallinity and its effect on fibre properties.
2. Textile fibres - introduction, production/ manufacturing, structure (physical, microscopic and chemical), properties (physical, chemical and mechanical), use, care of 15
 - i. Cellulosic- cotton, viscose rayon, acetate rayon, cuprammonium and polynosic rayon,
 - ii. Proteinous - wool and silk,
 - iii. Synthetic fibres- polyester, polyamide, poly acrylonitrile, poly olefins
 - iv. Brief account of jute, linen, coir, carbon, glass, polycarbonate, polyurethane, hydrocellulose, felting, degumming, weighting and shrink proofing, Chemical Spinning, Blend composition and properties.
3. Yarn Manufacturing- Principle, mechanical spinning, steps, nomenclature, yarn numbering system, textured yarn technology, Hot and cold drawing, spun yarn, blends and bicomponent yarn. 08
4. Principle of fabric manufacturing- Basic principle, various fabric construction methods, characteristics of fabric made and machines involved. 08

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Weaving- loom, types of loom, part, process, types of weaves	
Knitting- types, process	
Nonwovens- types, construction	
Introduction of Technical Textiles	
5. Finishes- purpose and types	05
Preparatory/ routine finishes- scouring, bleaching, mercerization, texturing, shearing, singeing etc Mechanical finishes- calendering, napping, moirering, etc.	
Chemical finishes- spill off, wash n wear, parchmentization, durable press, antirease, etc	
Special purpose finishes- flame retardant, water repellent antistatic, soil release, moth proofing etc	
6. Dyeing and printing	10
Dyeing- Scientific basis of dyeing and printing, classification of textile dyes- synthetic and natural, CI number, colour and chemical component of dyes, , dyeing theory and method, dyeing machines, dyeing with different class of dyes. pigments, auxiliaries used in dyeing	
Printing- difference from dyeing, Method and techniques of printing, styles of printing- block, roller, screen, stencil, rotary screen, auxiliaries used in printing	
7. An overview of Care precaution and storage of garment, principles of washing, washing of different garments, laundry equipment and reagents, water, stain removal	05
8. Traditional Indian Textiles and Embroideries	05
9. Clothing construction process and principles, meaning, scope, importance of dress and apparel design, measuring body for various garments, drafting and making paper pattern, fabric preparation for layout, marking and cutting, handling of fabric after cutting, stitching, types of figure in relation to fitting, eradication of common fitting problem.	10

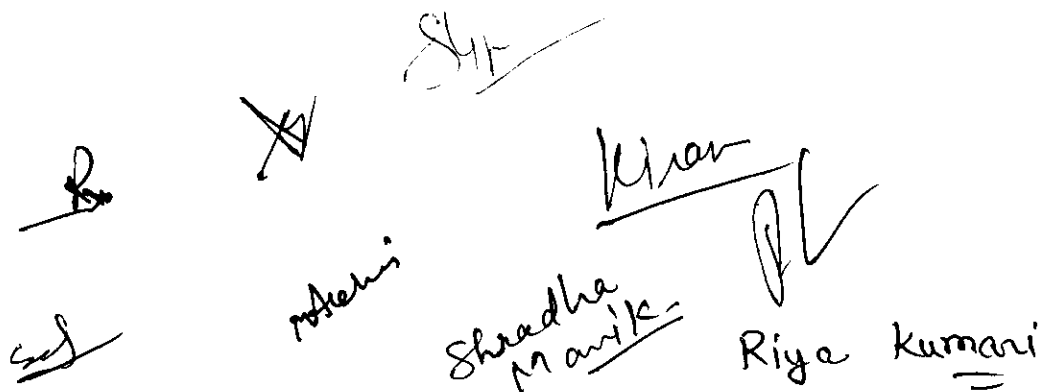
LEARNING OUTCOME

A successful completion of this course will enable students to

- Understand develop understanding of yarn, fabrics, finishing, dyeing and printing
- familiarize with clothing construction and care of clothing

REFERENCE BOOKS

1. Trotman, E.R., (1975) Dyeing and Chemical Technology of Textile Fibers, Charles Griffino Company Ltd., London
2. Hollen, N. and Saddler J., (1968) Textiles, Macmillan publication
3. Gohl, (2005), Textile Science: An Explanation of fiber Properties, CBS Publication
4. Sekhri Seema. (2016), Textbook of Fabric Science: Fundamentals of Finishing, Prentice Hall India
5. Hatch, L. K., (1993), Textile Science, West Publishing Company.



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 S. K.

 K. S.

 Shradha Malik

 Riya Kumari

II. CORE COURSE [HSCCC205]:

HSC
(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
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ADVANCED STUDY IN HUMAN DEVELOPMENT

Paper 3 – CC (TH) -5

Credit – 5

Hrs./Week – 5L+1T

Exam.(30 Dept. + 70 Univ.)

Objectives-

- To undertake an advanced study of the stages in Human Development with special focus on stages from prenatal development to adolescence.
- To understand the principles and factors influencing human development in these stages

CONTENTS

- | | |
|---|----|
| 1. Concept of Development | 15 |
| i. Growth | |
| ii. Development | |
| iii. Learning | |
| iv. Maturity | |
| v. Heredity | |
| vi. Environment | |
| vii. Pre-natal Period, influencing Factors | |
| 2. Birth to 2 Yrs.(Infancy) | 09 |
| i. New Born – Physical description, Sensory capacity and reflexes | |
| ii. Early Language Development | |
| iii. Social Development during infancy | |
| 3. 2-6 Yrs. (Early Childhood) | 15 |
| i. Physical and motor development | |
| ii. Cognitive Development | |
| iii. Language Development | |
| iv. Emotional Development | |
| v. Socialization, play, parenting and culture | |
| 4. 7-11 Yrs. (Middle Childhood) | 12 |
| i. Physical and Motor Development | |
| ii. Cognitive Development | |
| iii. Language Development | |
| iv. Social Relationship – Peers, Siblings and Parents | |
| v. Sense of Industry, Experience of Schooling | |

Riya Kumari

Shradha
Mani K.

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|--|----|
| 5. Adolescence | 10 |
| i. The concept of adolescence, developmental task of Adolescence | |
| ii. Development of Primary and Secondary sex characters, sex education | |
| iii. Family, Peers and friendship | |
| iv. Juvenile delinquency, causes and consequences | |
| 6. Adulthood | 10 |
| i. Introduction, physical continuity and changes | |
| ii. Health and Diseases | |
| iii. Work and Career | |
| 7. Old age | 10 |
| i. Introduction and changes during old age | |
| ii. Health and Diseases | |
| iii. Psycho social Changes | |

LEARNING OUTCOME

A successful completion of this course will enable students to

- Explain the need and importance of studying human growth and development across lifespan
- Identify the biological and environmental factors affecting human development
- Apply the theoretical approaches to work with human being across lifespan

REFERENCE BOOKS

1. Devdas, R.P, and Jaya N., Text Book of Child development, New Delhi, Macmillan Publishing Co. (1996)
 2. Hurlock E. B., Child Development, New Delhi, McGraw Hill, (1985)
 3. Kuppaswamy, B., Text Book of Child Behaviour and Development, Konark Publication, (1990).
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III. CORE COURSE PRACTICAL [HSCCC206]:

(Credits: Theory-04, Tutorial-01)

PRACTICAL PAPER II**Paper 4 – CC (P) -6****Credit – 5****Hrs./Week – 10****Exam. (100 Univ.)****Objectives-**

- To gain practical knowledge and skill of the topics mentioned

CONTENT**Part A**

- | | |
|---|----|
| 1. Preservation of Fruits using Sugar as media. | 04 |
| 2. Preservation of Vegetables using Salt as media. | 04 |
| 3. Improving shelf life of perishable food through blanching. | 01 |
| 4. Use of drying techniques for preservation. | 05 |
| 5. Preparation of bakery products. | 06 |

Part B

- | | |
|---|----|
| 1. Plan an organizational set up of Early Childhood Care and Education (0-6Year)l center (As per ICDS Model) | 20 |
| i. Selection of location and space, | |
| ii. Organizational set up | |
| iii. Infrastructural requirement | |
| iv. Staffing pattern | |
| v. Curriculum and routine planning | |

Part C

- | | |
|---|----|
| 1. Identification of Textile fiber and blend analysis | 03 |
| 2. Determination of dimensional stability/ shrinkage, GSM, Yarn count of Fabric (light, medium, heavy weight). | 01 |
| 3. Dyeing of cotton, silk and wool. | 02 |
| 4. Analysis of plain weave, repeat and color scheme. | 03 |
| 5. Preparation of sample of traditional embroidery- Kantha, Chikankari, Phoolkari, Sindhi, Kashmiri, and Manipuri | 07 |
| 6. Construction of garment using drafting method - Frock, Skirt& blouse, salwar/ churidar | 06 |

LEARNING OUTCOME

A successful completion of this course will enable students to

- Gain practical knowledge and skill of the topics mentioned

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IV. ELECTIVE COURSE [HSCEC201A]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:**Mid Semester Examination (MSE):**

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd, 5 marks).

APPLIED PHYSIOLOGY**Paper 1 – EC (TH) -1****Credit – 5****Group A****Hrs./Week – 5L+1T****Exam.(30 Dept. + 70 Univ.)****Objectives**

- To enable students to understand the structure and functions of the various systems and organs in the body.
- To gain deeper knowledge of the Physiology of human body.

CONTENT

- | | |
|--|----|
| 1. Cell structure and functions – transport across cell membrane and intra cellular communication | 06 |
| 2. Nervous system- Organization of central nervous system, structure and function of brain and spinal cord. | 05 |
| 3. Cardio vascular System-Structure and function of heart. Blood composition, blood pressure and hypertension. | 08 |
| 4. Digestive System – structure of digestive organs and their digestive and absorptive function. Role of liver, Pancreas and Gall Bladder and their dysfunction. | 08 |
| 5. Respiratory System – Structure of Respiratory organs, mechanism of respiration. | 05 |
| 6. Reproductive System – Structure of male and female reproductive organs, Physiological changes during pregnancy, menstrual cycle. | 10 |
| 7. Excretory System – Structure and function of Kidney. | 08 |
| 8. Endocrine system – Endocrine glands – structure and function, disorder of endocrine glands. | 10 |
| 9. Immune system-WBC and production of antibodies. | 08 |

LEARNING OUTCOME

A successful completion of this course will enable students to

- Summarize and critically discuss and understand both fundamental and applied aspects of food science and nutrition.

REFERENCE BOOKS

- Ratan Vidya, Handbook of Physiology, (1986) Jaypee Brothers, New Delhi
- Ross and Wilson, Foundation of Anatomy and Physiology, (1973), Medical division of Longman Group

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IV. ELECTIVE COURSE [HSCEC201B]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:**Mid Semester Examination (MSE):**

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd., 5 marks).

THEORIES OF HUMAN DEVELOPMENT**Paper 1 – EC (TH) -1****Credit – 5****Group B****Hrs./Week – 5L+1T****Exam.(30 Dept. + 70 Univ.)****Objectives**

- To enable students to understand the need for theories in Human Development.
- To make students understand various theories of Human Development.
- To enable students to understand the practical implications of Theories.

CONTENT

1. Ethological theory of Darwin	04
2. Freud's psychoanalytic theory	10
3. Learning theory of Pablov, Skinner	10
4. Cognitive theory of Piaget	06
5. Social Learning theory of Bandura	08
6. Theory of Self-Mead, Kohut	15
7. Personality Theory of	15
i. Erik Erikson	
ii. Adler	
iii. Sheldon	

LEARNING OUTCOME

A successful completion of this course will enable students to

- Understand various theories of Human Development

REFERENCE BOOKS

1. Carin W., Theories of Development, Concept and Application (1992) New Jersey, Prentice Hall
2. Kakar S., Culture and Psyche-Selected Essays, (1977) Delhi: Oxford University Press
3. Kakar S., The Inner World, (1978) Delhi: Oxford University Press
4. Ronald A., In Search of Self in India and Japan, (1989), Princeton University Press
5. Vasta, R. Six Theories of Child Development: Revised formulation and Current Issues (1992), Sessica Kingsley Publisher Ltd.

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IV. ELECTIVE COURSE [HSCEC201C]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:**Mid Semester Examination (MSE):**

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** five questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd., 5 marks).

SOCIAL AND PSYCHOLOGICAL ASPECT OF CLOTHING**Paper 1 – EC (TH) -1****Credit – 5****Group C****Hrs./Week – 5L+1T****Exam.(30 Dept. + 70 Univ.)****Objectives:**

- To study the sociological and psychological aspect of clothing on the individual in social situation.

CONTENTS

- Origin of clothing and reason of wearing - 05
Why costumes differ all over the world, material aspects and climate
Religious influence
Events of world Clothing symbols
- Socialization and development of the self 05
Social norms
Attitude and value information
Individuality and conformity
Personal and group identification
- Personality theories 06
Sigmoid end-defense mechanisms
Jung
Murray
- Component of fashion and fashion design: 10
Silhouette, Details, fashion, Colour, fabric, texture, seams, trims
Fashion Designer, their role in merchandising, fashion forecasting, design development, line presentation.
Fashion industry, Fashion retail, producer of fashion, dynamics of fashion, fashion terminology, Origin of Fashion, Fashion cycle, fashion adoption theories, factors influencing fashion,.
Fashion Communication- need, importance, written & visual communication
- Growth of costumes- 05
Terminology, fashion, concepts, its creation and analysis, Mass production of clothing.
- Elements used in creating design 15
An overview of elements and principles of design, Composition- with one element, with more than one element Colour- its sensitivity and composition in dress.
Harmony- in form of space coverage of design in the dress.

Process of designing, big motif development, geometrical, simplified, naturalized, stylized, abstract and ornamental, big and small motifs, enlargement and reduction, growth of motif, colour consideration and colour harmony.

Source of inspiration of basic design, sketching, painting- nature, religion, mythology, arts and crafts, architecture.

- | | | |
|----|--|----|
| 7. | Historical textiles of special significance.
Carpets, tapestries, brocades, laces, shawls, resist dyed and ikat fabric, printed and painted fabric. | 15 |
| 8. | Textile designing through dyeing and printing- Tie and dye, batik, resist, union and cross dyeing,
Block, Stencil, Screen, roller, resist, discharge, transfer and flock printing | 10 |

LEARNING OUTCOME

A successful completion of this course will enable students to

- Understand sociological and psychological aspect of clothing on the individual in social situation.

REFERENCE BOOKS

1. Leonard G. Rubln (1976): The world of Fashion, Publication Canfield Press, San Frnsisco.
2. Thames and Hudson (1994): Fashion Illustration Today, Thames and Hudson Ltd. London.
3. Patrick John Ireland: Fashion Design illustration, B.T Balsford Ltd. London.
4. Kathryn Mckelvey and Janine Munslow (1997): Illustrating Fashion, Blackwell Science Ltd.
5. Max Tilke (1190): Costume Patterns and Designs, Rizzoli, New York.
6. Anne Morrell (1995): The Techniques of Indian Embroidery, B.T Balsford Ltd. London.
7. Prakash, K (1996): Heritage- Traditional Border Collection, The Design Point Publication.
8. Prakash, K (1992): Expressions- Ethnic Indian Textile Designs, Deluxe Packaging
9. Prakash, K (1989): Impressions, Deluxe Packaging.
10. Avis, M. Dry (1961) : The Psychology of Jung, Methuen & Co. London.
11. Horn, Marilyn J. (1968): The Second Skin, Houghton Miffin Co., USA
12. Flugol, J.C (1950): The psycho-analytical study of the family, The Hagrath Press * The institute of Psycho-Analysis, London.
13. Richard Wollheim (1985): Freud, Fontana presss, London.
14. Vinconl Brome (1978): Jung, Granada Publishing, London, Toronto Sydney, New York.

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SEMESTER III

4 Papers

Total 100 x 4 = 400 Marks

I. CORE COURSE [HSCCC307]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:**Mid Semester Examination (MSE):**

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd, 5 marks).

ECOLOGY AND ENVIRONMENTAL MANAGEMENT

Paper 1 – CC (TH) -7

Credit – 5

Hrs./Week – 5L+1T

Exam.(30 Dept. + 70 Univ.)

Objectives:

- To understand the aspect of the environmental pollution and waste management.
- To be aware of the aspects of environmental policies, movement and ethics.

CONTENT

1. Fundamentals of environment 06
 - Environment, definition, scope of environmental studies
 - Life and the environment, Environmental hazards and risks
 - Natural resources- conservation and sustainable development
2. Eco system- Earth, Man and Environment 10
 - Eco system of world
 - Forest Ecology,
 - Pathways in ecosystem
 - Food Chain, factors affecting changes in ecosystem and environment
3. Population and Environment 08
 - Carrying Capacity, Limits of population growth
 - Population Growth and natural Resources
 - Land and water as resource and its use
4. Pollution and environment with reference to air, water, soil 10
 - Source and Effect of pollution,
 - Pollution control
5. Environment and Public Health
 - Environmental pollution and community health
 - Water and air borne diseases

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- Effect of other harmful substance
- 6. Waste Management 08
 - Waste, types and Management
 - Solid waste management
- 7. Environment control measures 10
 - Environmental control legislation, policies and movement,
 - Human rights issues related to environment
 - Women and Environment
- 8. Role of Municipality, Government and Non-Governmental Agencies in promoting better health environment 06

LEARNING OUTCOME

A successful completion of this course will enable students to

- Be aware of the holistic ecological approaches to environment
- Be aware of the environmental problem, hazards and risk.

REFERENCE BOOKS

1. Basu R.N., (2000) Environment, University of Kolkata
 2. Bhatia, H.S. (1998), A Textbook of Environmental Pollution and Control, New Delhi
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II. CORE COURSE [HSCCC308]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd, 5 marks).

CONSUMER ECONOMICS AND FINANCIAL MANAGEMENT

Paper 2 – CC (TH) -8

Hrs./Week – 5L+1T

Credit – 5

Exam.(30 Dept. + 70 Univ.)

Objectives

- To know the conceptual, human and scientific aspect of management function
- To develop the ability to evaluate the management efficiency and effectiveness in the family and other organizations
- To become aware of aspects of the financial management
- To have an overview of the consumer behaviour and the consumer movement

CONTENT

1. Management Institutes in India- Industrial, farm and agricultural, institutional , household and education 04
2. Management as a system – Definition, elements, types, advantages and limitations of system approach, application in family resource management. 04
3. Decision making- meaning, types of decision, modes of decision making, Techniques and tools of decision making, cost benefit analysis 04
4. Management function and Process 08
 - Planning- objective, principles , policies and strategies
 - Organizing –Purpose, principles, processes delegation authority, responsibility and accountability
 - Staffing, purpose, principles, recruitment, appraisal
 - Guiding, directing, leadership, motivation, communication
 - Controlling and feedback
5. Tax planning, savings and investment 10
 - Types of Taxes, principles and procedure of income Tax, preparation of statement of income, income tax , filing of income tax and return,
 - Importance of saving components, saving facilities and investments opportunities
 - Role of credit in finance
6. Consumer in Indian Market 12
 - Consumer, definition, and characteristics of consumer, role of consumers in the economy of a nation

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- Market, meaning, definition, characteristics and types
- Changing business environment – telemarkets, global, e business and e commerce.
- 7. Market practices and exploitation of consumer 10
 - Types of exploitation, causes, adulteration, packaging, labels, weights and measures, advertising and sale gimmicks
 - Consumer problem and solution
- 8. Consumer behaviour 12
 - Determinants of consumer behaviour, opinion, leadership, group influence, social class and culture, consumer dissatisfaction
 - Market strategies influencing consumer behaviour
 - Guidelines for wise purchasing practices
- 9. Consumer protection 12
 - Role of consumer organization, national, regional and international
 - Role of Government agencies, legislation
 - Empowerment of consumers, consumer protection act.

LEARNING OUTCOME

A successful completion of this course will enable students to

- Have enriched knowledge on market systems
- Emerge as informed consumers
- Become familiarized to the changing trends in consumerism.

Recommended Books

1. Kapur, S. K. (1996) Professional Management, S. K. Publishers New Delhi
2. Saiyadain M, S. (1988), Human Resource Management, Tata McGraw Hill, New Delhi.
3. Dayal R. (1996), Dynamics of Human Resource Development Mittal Publication New Delhi
4. Prophalia Et. al. (1997), Financial Management, Function, Planning and Policy, Kanishka Publisher, New Delhi
5. Chandra Prassana, (1993) Financial Management, Theory and Practice, Tata McGraw Hill publishing New Delhi
6. Pandey, I.M, (1988), Elements of Financial Management, Vikas Publishing House, New Delhi
7. Chadha R. (1995) the Emerging Consumer, New Age International Publisher limited, and Wiley Eastern Limited New Delhi

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III. CORE COURSE PRACTICAL [HSCCC309]:

(Credits: Practical-05)

Instruction to Question Setter:**End Semester Practical Examination (ESE Pr):**

The questions in practical examination will be of equal to 70 marks and will be so framed that the students are able to answer them within the stipulated time. 20 marks will be awarded on the performance in viva voce whereas 10 marks will be awarded on cumulative assessment which is further subdivided as 5 marks for Practical record and 5 marks for Attendance.

Note:

(Attendance Upto 60%, 1 mark; 60 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd, 5 marks).

PRACTICAL PAPER III**Paper 3 – CC (P) -9****Credit – 5****Hrs./Week – 10****Exam. (100 Univ.)****Objectives-**

- To gain practical knowledge of the subject
- To understand the principles of pattern making through flat pattern
- **Important** – Practical 1-4 is compulsory for all students irrespective of their elective paper. From rest of the practical course, students may select any one group as per their elective paper

CONTENT**I. Compulsory**

- | | | |
|----|--|----|
| 1. | Study of awareness regarding environmental pollution | 05 |
| 2. | Study of garbage disposal system | 05 |
| 3. | Preparation of family budget for different income group | 05 |
| 4. | Evaluation of performance and efficiency of some common consumer durables. | 05 |

II Any one from three groups**Group A (Food and Nutrition)**

- | | | |
|----|--|----|
| 1. | Qualitative test for carbohydrates, protein and fat | 08 |
| 2. | Analysis of nutritional problem of different segments and age groups through available secondary data | 10 |
| 3. | Plan a module and necessary instructional aid for nutrition education to any nutritionally vulnerable group of the society | 16 |
| 4. | Planning, preparation and calculation of energy, fat, protein and important vitamins and minerals for low, middle and high income groups | |
| | a. Pregnant women | |
| | b. Lactating Women | |
| | c. Children | |
| | d. Adolescent girl | |

Group B (Human Development)

- | | | |
|----|---|----|
| 1. | Counselling of parent role play and mock session | 08 |
| 2. | Conducting home visits and interviewing/talking to parents | 08 |
| 3. | Arranging workshop for parents | 08 |
| 4. | Organizing parent's education program based on parent's need | 08 |
| 5. | Planning of a Parent-Teacher meeting: Stimulation of meeting/event/function | 10 |

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6. planning, evaluation and reporting
Prepare a chart to track parental involvement and participation 08

Group C (Apparel Designing and Construction)

1. Development of Bodice Block, Sleeve Block, Skirt Block and Trouser Block for children and women 06
2. Developing paper pattern for different design for women and children garment through drafting, understanding commercial paper pattern 08
3. Designing through flat pattern making – dart manipulation 08
4. Development of variation in sleeve, collar, sleeve-body combinations 08
5. Development of variation in necklines, cowls, built-up necklines 08
6. Development of variation in Placket opening – centre button closing, asymmetrical closing, double breasted. 04
7. Construction of garments incorporating above features (Women, Children) 16
8. Creating motifs, designs and patterns for different usage 05
9. Creation of design by combining motifs 05
10. Creating designs for application through blocks, stencils, screens 05

LEARNING OUTCOME

A successful completion of this course will enable students to

- Gain practical knowledge of the subject

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IV. ELECTIVE COURSE [HSCEC302A]

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:**Mid Semester Examination (MSE):**

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** five questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd., 5 marks).

ADVANCE NUTRITIONAL BIOCHEMISTRY**Paper 4 – EC (TH) -2****Credit – 5****Group A****Hrs./Week – 5L+1T****Exam.(30 Dept. + 70 Univ.)****Objectives:**

- To understand the mechanism adopted by the human body for regulation of metabolic pathway.
- To understand the importance of microorganisms in food spoilage

CONTENT

1. **Carbohydrates** - Digestion, absorption and Metabolism-Glycolysis, Glycogenesis, Citric-Acid Cycle, Pentose-Phosphate Pathway. 10
2. **Lipids** - Digestion, absorption and Metabolism Beta-oxidation, Bio-Synthesis of fatty acids, Bio- Synthesis of unsaturated fatty acids, Ketogenesis, Cholesterol, Phospholipids. 10
3. **Protein** - Digestion, absorption and Metabolism-Amination, De-Amination, Trans-Amination. 08
Plasma proteins – nature, properties and functions
4. **Minerals** – Biological role of minerals - Calcium, Zinc, Iron, Iodine- bioavailability, their deficiency diseases 09
5. **Vitamins** – Vitamin A, Vitamin C, Vitamin B Complex – Thiamine, Riboflavin, Niacin – Biological role, bioavailability, their deficiency diseases 09
6. **Energy Metabolism** – Total energy requirements of the body, methods of measuring calorific value of food stuff. BMR – factors affecting BMR. 08
7. Nutrients and drug interaction 02
8. Factors responsible for the growth of microorganisms in foods – intrinsic and extrinsic parameters, food sanitation 05

LEARNING OUTCOME

A successful completion of this course will enable students to

- Understand body for regulation of metabolic pathway

REFERENCE BOOKS

1. B Srilakshmi, Dietetics - New age international publisher, New Delhi.
2. Mudambi, Rajgopal, Fundamentals of Food nutritional and diet therapy -
3. Food and Nutrition - Dr. M.S. Swaminathan
4. The nutritive value of Foods — M. S. Swaminathan

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5. Child nutrition —Niraja Sharma, Murari Lal & Sons, New Delhi
6. Food Microbiology – William C. Frazier, Tata Mc.Graw Hill, New Delhi
7. Food Hygiene and Sanitation, S. Roday, Tata Mc.Graw Hill, New Delhi
8. Concepts of Biochemistry – Dr. A.C Deb, Books and allied (P) Ltd, Calcutta

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IV. ELECTIVE COURSE [HSCEC302B]

HSC
(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd., 5 marks).

PARENTING IN EARLY CHILDHOOD

Paper 4 – EC (TH) -2

Credit – 5

Group B

Hrs./Week – 5L+1T

Exam.(30 Dept. + 70 Univ.)

Objectives:

- To understand the significance of parents role in early childhood
- To develop skills to involve parents in early childhood.

CONTENT

1. Introduction : 08
 - The task of parenting and the concept of parenting skills.
 - Changing concept of parenthood and childhood.
2. Individual parenting roles : 10
 - Determinant of Parenting behaviour.
 - Characteristics of the parenting roles.
 - Role of Father
 - Role of Mother
 - Concept of Family.
3. Developmental interaction in early childhood years: 24
 - Parent role in developing self awareness in children.
 - Family relation and communication.
 - Helping the child to learn to express and control emotions.
 - Helping the children to discover personal capabilities.
 - Establishing routine and showing responsible behaviour.
4. Mental Health : 14
 - Definition concept and importance of Mental Health.
 - National Mental Health Policy of India.
5. Theories of Human Development : 15
 - Freud's Psychoanalytic theory
 - Learning theory of Pavlov, Skinner
 - Cognitive theory of Piaget.

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LEARNING OUTCOME

A successful completion of this course will enable students to

- Understand the need for theories in Human Development.

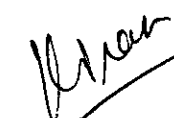
REFERENCE BOOKS

1. Kulkarni, S. (1988) Parents Education Perspective and Approaches, Rawat Publication, Jaipur
2. Gopal Krishnan N. Mental Health in You, Popular Prakashan, Mumbai
3. Gupte, (1981), Speaking of child care, everything you wanted to know, 2nd Edn. Sterling Publication, NewDelhi.
4. Lidhop, M. (1987) Child Rearing and Psycho-Social Development, Ashish Publication, New Delhi
5. Bigner J. (1979) Parent Child Relation: An Introduction to Parenting, Mc Million Publication, New York



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IV. ELECTIVE COURSE [HSCEC302C]

HSC
(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

ADVANCED APPAREL CONSTRUCTION

Paper 4 – EC (TH) -2

Credit – 5

Group C

Hrs./Week – 5L+1T
Exam.(30 Dept. + 70 Univ.)

Objectives:

- To develop skills in pattern making and construction.
- To obtain perfect fit and harmony between fabric design and the garment.

CONTENTS

1. Pattern making 10
Techniques of pattern making- Drafting, flat pattern and draping.
Principles and application of flat pattern making for different styles, Drafting and its importance.
Understanding Commercial Paper Pattern
2. Handling of different types of fabrics 06
Estimating fabric for particular design and fabric width
Suitability of fabrics for different design and garment
3. Fitting 10
Factors affecting a good fit
Common problems encountered and remedies of fitting defects (upper and lower garments)
4. Factors affecting consumption and selection of fabric/clothing for different age groups
Infants, toddlers, pre-school, school going, adolescent boys and girls, Men and women. Clothing for special needs 10
 - a. Maternity and lactation
 - b. Old age
 - c. Physically challenged 06
5. Dress analysis
Structural and applied design, variation in fibre, yarn, fabric, construction, embroidery, dying, printing and finishes.
In relation to Principles of design, harmony, balance, proportion, rhythm, emphasis and Element of design- line, form, colour, texture.
6. Evaluation of quality of apparel

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Identification of component of apparel - Fibre content, shaping devices, underlying fabrics, pockets, necklines, hem treatment, decorative details, alteration potential
Standards for evaluating various components.

- | | |
|--|----|
| 7. Textiles and clothing industry | 10 |
| In relation to production, consumption pattern, local employment potential R&D, problems and prospects of cotton, wool, silk, rayon, synthetic industry. | |
| Handloom industries, readymade garment industry. | |
| Technical textiles- Clothitech, Sportstech | |
| 8. Pattern making, pattern- envelope and guide sheet | 02 |

LEARNING OUTCOME

A successful completion of this course will enable students to

- Create awareness of quality assurance norms and evaluating quality of apparel.
- Impart an in-depth knowledge of style reading, pattern making and garment construction techniques.

REFERENCE BOOKS

1. Dhake, Spons, (1992): Greenworld Retail Fashion Promotion and Advertising, MacMillan Poublication.
2. Jarnow, J.A Judelle, B. and Gueereiro, M (1981): Inside the Fashion Business, John Wiley & Sons, NY, Toranto, Brisbane.
3. Frings G.S (1982): Fashion from Concept to Consumer, Prentice Hall Inc., Englewood Cliffs, New Jersey.
4. Easey, M (1995) Fashion Marketing, Prentice Hall of India, New Delhi.
5. Majare, S. (1995): The Essence of Marketing, Prentice Hall of India, New Delhi
6. Chuter, A.J (1995: Introduction to Clothing Production Management, Blackwell Science Ltd.
7. Slone, E. And Samples, J.A (1985): Fashion Merchandising- An Introduction, mc Graw Hill Book Company.
8. Pamela C. Stinger, Pattern Drafting for Dressmaking.
9. Armstrong, Pattern Making For Fashion Design
10. Gloello and Berke: Figure Type and Size Ramnge, Fairchild Publication, New Yourk.
11. Grate and Storm: Concepts in Clothing, McGraw Hill Book Co. New York
12. Claire Shaeffers: Fabric Sewing Guide, Chilton Book Company, Radnot, Pennsylvania.
13. Harold Carr and Barbara Lalhan: The Technology of Clothing Manufacture, Oxford BSP Professional Book London,
14. Stampler, Sharp & Donnell: Evaluating Apparel Quality- Fairchild Publication, New York
15. Natalie Bray: Dress Fitting, Blackwell Science Ltd.
16. Margohs Design Your Own Dress Pattern, Double Day And co. Inc. , New York.
17. Hillhouse, M.S and Mansfield, E.A: Dress Design – Draping and Flat Pattern, London,
18. Sheldon Maratha Gene- Design through Draping, USA Burgers Publishing Company.
19. Brackman, helen, L- Theory of Fashion Design, New York, John Wiley and Sons.
20. Strickland, Gertuote- A Tailoring Manual – New York, Macmillan Company.
21. Pepin Harriet – Modern Pattern Design, New York.
22. Fujji, D.: Colour with Style, Graphic sha Publishing Company Ltd.

SEMESTER IV

4 Papers

Total 100 x 4 = 400 Marks

I. CORE COURSE [HSCCC410]:

(Credits: Theory-04, Tutorial-01)

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be two groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be two groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd, 5 marks).

INDIAN SOCIOECONOMIC DEVELOPMENT AND STATUS OF WOMEN

Paper 4 – CC (TH) -10

Credit – 5

Hrs./Week – 5L+1T

Exam.(30 Dept. + 70 Univ.)

Objectives:

- To understand socio-economic structure, organisation and problems of rural, urban and tribal areas.
- To understand policy development and their impact.

CONTENT

1. Indian economy- structure and organisation of rural, urban and tribal areas 10
Land ownership, occupational hierarchy, dependence on agriculture Caste, Class and Institution,
Role and status of women
Poverty, inequality, unemployment, staglation
Impact of industrialization on urban life, socioeconomic aspect of metropolitan life
2. Socio Economic changes since independence 10
Economic planning and achievement
Growth verses development, development index, PWLI, HDI, CPI etc.
Rural development, - concepts, objectives, importance and historical overview
Tribal development strategies, policies and welfare
Women and development
New economic policy and its impact
3. Status of Women 10
Status- meaning, status of women, a situational analysis, demographic, education, employment, political and health (general, occupational and reproductive), changing scenario
4. Violence against women 10
Dowry, divorce, female foeticide and infanticide, domestic violence, sexual harassment, portrayal of women in mass media, effort for elimination of all forms discrimination

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
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5. Policies and programmes for women's development
National policy for empowerment of women, policy perspectives, mainstreaming, a gender perspective in the development process, economic empowerment, poverty eradication, micro credit and self-help group, women and agriculture, women and industry, support system
6. Social Empowerment
Education, health, nutrition, drinking water and sanitation, housing and shelter, environment
Legal empowerment, legal literacy on personal and family laws, role of family court and legal aid centers
Political empowerment, role of panchayati raj.
7. Support system
Role and function of the Department of Women and Child Development, Central Social Welfare Board, State Social Welfare Board, National Commission for Women, Women's Development Corporation

A successful completion of this course will enable students to

- Understand the effort needed for women empowerment.
- Know the support system in the country for Women empowerment

1. Rao. R.K., Women and Education, Kalpaz Publications, New Delhi,
2. Hazara M L., Women Children and Poverty, Discovery publishing House, New Delhi
3. Vivian J. (1991), Media of Mass Communication,
4. Ravindran. R.K., (2000) Media and Development Area.






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II. ELECTIVE COURSE [HSCEC403A]:

(Credits: Theory-05)

Instruction to Question Setter:**Mid Semester Examination (MSE):**

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd., 5 marks).

THERAPEUTIC AND CLINICAL NUTRITION**Paper 2 – EC (TH) - 3****Credit – 5****Group A****Hrs./Week – 5L+1T****Exam.(30 Dept. + 70 Univ.)****Objectives:**

- To be able to recommend and provide appropriate nutritional care for preventive and therapeutic treatment of various diseases.
- To know about various diseases and nutritional dietary requirements.
- To develop knowledge and understanding of nutritional problems and their evaluation

CONTENT

1. Etiopathogenesis, clinical symptoms and dietary measurement of
 - i. Cardiovascular diseases- Hypertension, Hyperlipidemia, Atherosclerosis.
 - ii. Diabetes Mellitus- Insulin dependent and non-Insulin dependent.
 - iii. Acute and chronic liver disorder-Hepatitis, Cirrhosis of Liver.
 - iv. Gastrointestinal disorders - Constipation, Diarrhoea, Peptic Ulcer.
 - v. Renal Disease
 - vi. HIV AIDS
 - vii. Cancer
 - viii. Obesity
2. Nutritional problems of old age – Etiopathogenesis, prevention and control, nutritional requirements and dietary management to meet nutritional needs.
3. Alternative systems for health and fitness – Ayurveda, Vegetarianism, Yoga and Meditation
4. Newer trends in delivery of nutrition and health care
5. Dietary counselling – Steps and techniques in dietary counselling, dietary counselling in different diseases
6. Nutritional Assessment Methods
 - Direct Method, Anthropometric, Biochemical, Clinical
 - Indirect Method – Dietary Survey
7. Nutritional Support – Feeding in techniques
8. Common childhood problems, their causes, symptoms, prevention and dietary management – diarrhoea, constipation, fever, measles, chicken pox
9. Nutritional assessment of hospitalized and outdoor patient – assessment of patient on

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interpretation of personal, clinical, bio-chemical data

10. Nutritional assessment of nutritional status of children by anthropometric measurement and clinical methods.

LEARNING OUTCOME

A successful completion of this course will enable students to

- To know the various methods for assessment of health status.
- To develop knowledge about the nutritional support for helping the patients.

REFERENCE BOOKS

1. B Srilakshmi, Dietetics – New gae international publisher, New Delhi
2. Mudambi, Rajgopal, Fundamenntals of Food and Nutrition and Diet therapy
3. Food and Nutrition, Dr. M.S. Swaminathan
4. The nutritive value of Foods, Dr. M.S. Swaminathan
5. Child nutrition – Niraja Sharma, Murari Lal & Sons, New Delhi
6. आहार एवं पोषण – G. P Sheri
7. मानव शरीर एवम पोषण विज्ञान, New Delhi

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I. ELECTIVE COURSE [HSCEC403B]:

HSC
(Credits: Theory-05)

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto75%, 1 mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

EARLY CHILDHOOD CARE AND EDUCATION-ORGANIZATIONAL SET UP AND ACTIVITIES

Paper 2 – EC (TH) -3

Credit – 5

Group B

Hrs./Week – 5L+1T

Exam.(30 Dept. + 70 Univ.)

Objectives

- To gain knowledge and insight regarding principles of early childhood care and education.
- To develop the skills and techniques, to plan activities in ECCE centres of different types, to conduct activities in early childhood care and education and to work effectively with parents and community.

CONTENT

- 1. Principles of early childhood care and education** 06
 - Definition, importance, need and scope of ECCE,
 - Objectives of ECCE
- 2. Historical Perspectives:** 12
 - ECCE in India – Pre-Independence Period, Post-Independence Period.
 - Contributions of five years Plans to ECCE
 - Kothari Commission.
 - Contribution of the following thinkers to the development of ECCE :
 - Rousseau
 - Maria Montessori
 - M. K. Gandhi
 - Tarabai Modak
 - Froebel.
- 3. How Young children learn:** Definition of learning and its prospective 04
 - Elective method of learning and teaching
 - Play and its importance: play and its characteristics, stages and types of play, use of play way method in young children
- 4. Contribution of the following agencies/programmes to ECCE in India:** 10
 - ICCW
 - IAPPE
 - NCERT
 - ICDS
 - UNICEF

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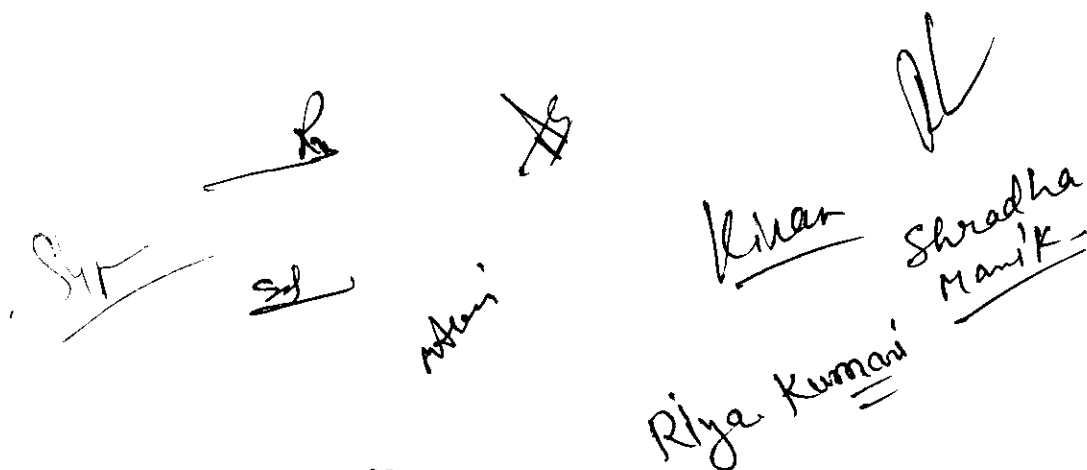
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- NCTE
 - Mobile crèche, etc.
5. **Organization of pre-School Centres:** 14
- Concept of organization and Administration of early childhood Education centres.
 - Building and Equipment: Location and site, arrangement of rooms, different types and size of rooms, Playground, storage facilities, selection of different types of outdoor and indoor equipment.
 - Staff/Personal Service Condition and Role: Role and responsibilities, essential qualities of a care giver/teacher, other personal.
 - Record and Report: Types, aim and purpose.
6. **Programme Planning:** Long term planning, Short Term Planning, Weekly and daily planning, Routine and Schedules. 06
7. **Activities for ECCE :** 14
- Physical and Motor Development: Activities for gross motor development, activities for fine motor development.
 - Art and Craft activities : drawing, painting, modelling, collage, paper work, clay activities
 - Language Development: Goals of Language listening and talking, song, rhymes, puzzles, stories, playing with puppet, free conversation pictures games.
 - Music: Objective of music education, there aspects of music-making, listening and singing, rhymes, songs, role of teachers.
 - Mathematics: Goal of mathematical learning, development of pre-concepts (Small-big, far-near, above-under, light-heavy, more-less.)
 - Science: Activities for the concept of weight, Colour, shapes, touch animal life, plant life and excursion trip.
 - Social Studies: Goal of fostering self-concept and respect for others, promoting social studies through celebrations of festivals, roles of teachers.
8. **Children with special needs** 04
- Children with special needs in families: an overview of effects of physical problems/handicaps, psychological, emotional and social problems.
 - Sensitizing teachers about children with special needs

LEARNING OUTCOME

A successful completion of this course will enable students to

- Develop the skills and techniques, to plan activities in ECCE centres of different types, to conduct activities in early childhood care and education and to work effectively with parents and community.



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III. ELECTIVE COURSE [HSCEC403C]:

(Credits: Theory-05)

Instruction to Question Setter:**Mid Semester Examination (MSE):**

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be veryshort answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd., 5 marks).

FASHION ILLUSTRATION, DRAPING AND PATTERN GRADING**Paper 2 – EC (TH) -3****Credit – 5****Group C****Hrs./Week – 5L+1T****Exam.(30 Dept. + 70 Univ.)****Objectives:**

- To acquaint with techniques using pencil, pens, markers, brushes, colour, papers
- To enable students to gain knowledge of fashion design, industry, illustration, communication
- To enable students to make pattern from sketch or photo

CONTENT

1. Fashion Illustration – Understanding the tools, equipment, and their appropriate use for sketching, painting and achieving textural effects 10
2. Development of patter with variation (by drafting) – One piece dress, two piece dress, dart less dress (incorporating various collars, sleeves, yokes, necklines, pockets, plackets, etc.) 20
3. Development of draft for men and ladies block – crotch line garments by drafting and draping (Shorts, Bermudas, Trousers) 10
4. Introduction to draping and silhouette of the individual – dress form, elements of fabrics – woven and knitted. 05
5. Theoretical aspects of 15
 - i. Draping of bodice block and skirt block and their variation
 - ii. Draping of asymmetrical design preparing pattern
6. Introduction to Grading 10

Terminology

Methodology – track and stack method

Procedure for grading blocks to various sizes

LEARNING OUTCOME

A successful completion of this course will enable students to

- To develop understanding of draping sample pattern of various styles
- To enable students to understand fundamentals of grading pattern

REFERENCE BOOKS

1. Armstrong, Pattern Making For Fashion Design
2. Grade and Storm: Concepts in Clothing, Mc Graw Hill Book Co. New York
3. BinaAbling, Fashion Sketch Book, Fairchild Publication, New York

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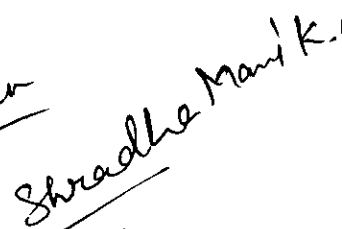
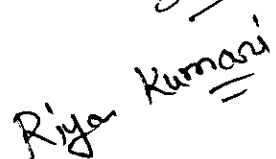
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4. Patrick John Ireland: Fashion Design illustration, B.T Balsford Ltd. London.
5. Natalie Bray: Dress Fitting, Blackwell Science Ltd.
6. Margohs Design Your Own Dress Pattern, Double Day And co. Inc., New York.
7. Crawlorn C.A., The art of Fashion Draping, Fairchild Publication, New York
8. Pamela C. Stinger, Pattern Drafting for Dressmaking.
9. Hillhouse, M.S and Mansfield, E.A: Dress Design – Draping and Flat Pattern, London
10. Sheldon Maratha Gene- Design through Draping, USA Burgers Publishing Company.
11. Strickland, Gertuote- A Tailoring Manual – New York, Macmillan Company.
12. Pepin Harriet – Modern Pattern Design, New York.
13. Fujji, D.: Colour with Style, Graphic sha Publishing Company Ltd.
14. Winfred, A (1990): metric Pattern Cutting for mens wear: Including Unisex Casual clothes and Computer-Aided Design, BSP Professional Books, Oxford
15. Corklin, P.G. (1990): Pattern grading for Women's Clothes, the technology of Sizing, BSP Professional Books, Oxford
16. Aldrich, W (1994): CAD in Clothing and Textiles, Blackwell Science Ltd.
17. Gerry Corklin, Garment Technology for Fashion Designers, Blackwell Science Ltd.
18. Dhake, Spons, (1992): Greenworld Retail Fashion Promotion and Advertising, MacMillan Poublication.
19. Jarnow, J.A Judelle, B. and Gueereiro, M (1981): Inside the Fashion Business, John Wiley & Sons, NY, Toranto, Brisbane.
20. Frings G.S (1982): Fashion from Concept to Consumer, Prentice Hall Inc., Englewood Cliffs, New Jersey.
21. Easey, M (1995) Fashion Marketing, Prentice Hall of India, New Delhi.
22. Majare, S. (1995): The Essence of Marketing, Prentice Hall of India, New Delhi
23. Chuter, A.J (1995): Introduction to Clothing Production Management, Blackwell Science Ltd.
24. Slone, E. And Samples, J.A (1985): Fashion Merchandising- An Introduction, McGraw Hill Book Company.







II. ELECTIVE COURSE PRACTICAL [HSCEC404 'A']:

(Credits: Practical-05)

PRACTICAL PAPER IV - A

Paper 3 – EC (P) -4

Credit – 5

Group A

Hrs./Week – 10

Exam. (100 Univ.)

Objectives-

- To enable students to understand the practical aspect of therapeutic nutrition and clinical nutrition
- To gain deeper knowledge of the nutritional ailment of food need

CONTENT

- | | | |
|----|---|----|
| 1. | Plan and Prepare of diet for the patient suffering from : | 20 |
| | i. Cardiovascular disease | |
| | ii. Diabetes | |
| | iii. Liver and gall bladder disorders | |
| | iv. Weight imbalance | |
| | v. Peptic ulcer | |
| 2. | Plan and prepare of diet for children suffering from :- | 20 |
| | i. Protein energy malnutrition. (PEM) | |
| | ii. Diarrhoea. | |
| | iii. Fever | |
| | iv. Vitamin 'A' deficiency | |
| | v. Constipation | |
| 3. | Plan diet for Old Age | 05 |
| 4. | Prepare module for dietary counselling for patient suffering from | 20 |
| | i. Renal disease | |
| | ii. HIV AIDS | |
| | iii. Cancer | |

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PRACTICAL PAPER IV – B [HSCEC404 ‘B’]**Paper 3 – EC (P) -4****Credit – 5****Group B****Hrs./Week – 10****Exam. (100 Univ.)****Objectives-**

- To enable students to
 - understand the need of ECCE set up
 - Plan Programme for ECCE settings and its implementation
 - Monitor an evaluate different ECCE programme.


CONTENT

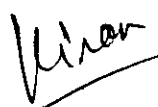
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| 1. | Visit to various centers, which caters to the pre-school stage, e.g. day care centre, balwadis, anganwadis, mobile crèche etc. | 10 |
| 2. | Preparing teaching material kit and presentation in mock set up <ul style="list-style-type: none"> • Story and their techniques • Types of puppets and mobiles • Song booklets and low cost musical instruments • Painting, games and materials • Picture talk and object talk, related materials | 15 |
| 3. | Planning and executing activities in ECCE Centers. | 15 |
| 4. | Planning programme for safety measures for children at home, school, and in the community | 08 |
| 5. | Arranging workshop with children through art and creative activities | 10 |
| 6. | Interaction with coordinator of a pre-school to understand the administration and functioning | 10 |

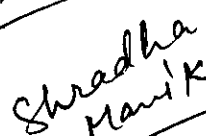


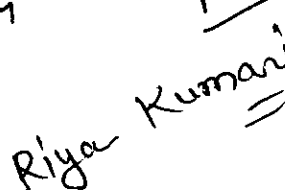












PRACTICAL PAPER IV – C [HSCEC404 'C']**Paper 3 – EC (P) -4****Credit – 5****Group C****Hrs./Week – 10****Exam. (100 Univ.)****Objectives-**

- To impart an in-depth knowledge about pattern making and garment construction
- To develop and understand the principles of pattern making through flat pattern making and draping

CONTENT

1.	Sketching of different action croquis, sketching - basic rendering techniques.	04
2.	Sketching of Garment and Garment details	10
	Necklines and Collars	
	Skirts and pants	
	Drawstring and fastening	
	Frills, fringes and gather, cowls and cascades	
	Lacing, macramé and patchwork	
	Shirring, smocking and zips	
	Sleeve details	
	Blouses, coats and jackets	
	Tassels and tucks	
	Hemlines and insertions	
	Pleats, quilting and ties	
	Yokes and underskirts	
3.	Developing a line of garments based on theme through sketching.	05
4.	Designing, preparing pattern, marker making, pattern envelope and guide sheet (front and back of garment).	01
5.	Development of slopers for shirt variation and its designing, Designing, drafting and construction of low and high waist garment	08
	A-line, flared, circular, pleated, yoked with godet skirt (with Skirt band, separate band, faced waist line)	
6.	Incorporation of Placket- fly front opening, zipper in seam.	01
7.	Incorporation of Placket- Pockets Slashed and inseam	01
8.	Developing draft for Men's and Women's Garment (crotch line garment- Shorts, Bermuda, Trouser)	04
9.	Preparing 2 patterns (trouser/short/skirt) with complete set of makings.	05
10.	Development of pattern with variation (by drafting) – One piece dress, two piece dress, dartless dress (incorporating various collars, sleeves, yokes, necklines, pockets, plackets, checks, stripes, unidirectional and novelty fabrics etc.).	08
11.	Designing through Draping: basic draping principles and techniques, developing patterns	02
12.	Draping of bodice block and Skirt block and their variation (draping of bodice and variations- princess seams, dart manipulation, yokes etc). asymmetrical design and prepare pattern	08
13.	Construction of upper bodice /garments for women through draping (including all variations).	08
14.	Introduction to grading track and slack method of children garment.	05

Sir

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R

S

Shradha
Mavik

K

Kiran

Riya Kumari

III. CORE COURSE (PROJECT)

HSC
[PROJECT/DISSERTATION]:

(Credits: 05)

PROJECT WORK/ DISSERTATION/ PAPER PRESENTATION

Paper 4 – Project Dissertation

Credit – 5

Hrs./Week – 10

Exam. (100 Univ.)

Objectives-

- To enable students to independently carry out an investigation/ research or prepare a project on a selected and approved topic/ subject and present a written report

CONTENT

Topic of investigation/ Project shall be selected from the following any one group chosen as per their area of specialization-

1. Gr. A- Foods and Nutrition,
2. Gr. B- Human Development,
3. Gr. C - Textiles and Clothing

Evaluation of project would be done out of 100 marks. 100 marks will have two components:

80 marks for the written component of the project and 20 marks for the Viva Voce examination jointly conducted by external examiner and the internal supervisor/guide.

The block contains several handwritten signatures and names. At the top center is a signature. Below it to the left is another signature. To the right of that is a signature with a large 'X' over it. Further right is a signature. Below the 'X' signature is the name 'Rishi' written vertically. To the right of 'Rishi' is the name 'Shradha Manik' written vertically. At the bottom right is the name 'Riya Kamani' written diagonally.