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**CBCS CURRICULUM OF  
M.A. HOME SCIENCE PROGRAMME**

**SUBJECT CODE = HSC**

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FOR POST GRADUATE COURSES UNDER RANCHI UNIVERSITY



Implemented from  
Academic Session 2018-2020



**UNIVERSITY DEPARTMENT OF HOME SCIENCE**  
**RANCHI UNIVERSITY, RANCHI**  
**M.A. HOME SCIENCE**

Board of Course and Studies for implementation of Choice Based Credit System of M.A. Home Science, University, Department of Home Science, Ranchi University, Ranchi as per University Guidelines which is as follows :

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11.	Prof. Rekha Sinha, Professor & Head, Department of Food and Nutrition BAU, Kanke, Ranchi.	External Expert
12.	Dr. Shipra Kumari, Associate Professor, Department of Home Science, Ranchi Women's College, Ranchi	External Expert

MJK  
13/03/2019

(Dr. Manju Kumari)

Head

Department of Home Science  
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**COURSE STRUCTURE FOR M.A. HOME SCIENCE PROGRAMME**


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**Table AI-1: Distribution of 80 Credits for Subjects having Practical Papers**

[\*wherever there is a practical examination there will be no tutorial and vice-versa.]

Course	Papers	Credits Theory + Practical	Credits Theory + Tutorial
<b>I. Foundation Course (FC)</b>			
1. Foundation Course Compulsory Foundation/ Elective Foundation	<b>(FC)</b> 1 Paper	1X5=5	1X5=5
<b>II. Core Course (CC)</b>			
Theory	<b>(CC 1 to 10/11)</b> 7 Papers/11 Papers	7X5=35	11X5=55
Practical/ Tutorial*	3 Papers/-----	3X5=15	
Project	1 Paper	1X5=5	1X5=5
<b>III. Elective Course (EC)</b>			
A. Ability Enhancement Course of the Core Course opted	<b>(AE/EC 1)</b> 1 Paper	1X5=5	1X5=5
B. Discipline Centric Elective Theory + Practical	<b>(DC/EC 2&amp;3)</b> 2 Papers 1 Paper	2X5=10 1x5=5	
OR Theory/Practical/Tutorial*	1Paper + 1 Practical/Dissertation		2X5=10
<b>OR Generic Elective/ Interdisciplinary (GE/EC 2&amp;3)</b> Theory OR Theory/Practical/Tutorial*	2 Papers 1 Paper + 1 Practical/Dissertation		
<b>Total Credit = 80</b>			<b>= 80</b>

**Table AI-1.1: Course structure for M.A Programme with Practical Papers**

Semester	Subject (Core Courses) 11 Papers	Allied (Elective Courses) 4 Papers	Foundation Course (Compulsory Course) 1 Paper	Total Credits
Sem-I	C-1, C-2, C-3 (5+5+5=15 Credits)		Foundation Course FC (05 Credits)	<b>20 Credits</b>
Sem-II	C-4, C-5, C-6, C-7 (5+5+5+5=20 Credits)			<b>20 Credits</b>
Sem-III	C-8, C-9, C-10 (5+5+5=15 Credits)	EC1 (05 Credits)		<b>20 Credits</b>
Sem-IV	C-11 (Project) (05 Credits)	EC2, EC3, EP (5+5+5=15Credits)		<b>20 Credits</b>

**Total = 80 Credits**

**COURSES OF STUDY FOR POSTGRADUATE M.A. HOME SCIENCE PROGRAMME****Table AI-2 Subject Combinations allowed for M.A./ M.Sc. Programme (80 Credits)**

Foundation Course FC 1 Paper	Core Subject CC 11 Papers	Ability Enhancement Course AE 1 Paper	Discipline Centric Elective/ Generic Elective Course DC/ GE/ EC 3 Papers
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**Table AI-2.1 Semester wise Examination Structure for Mid Sem. & End Sem. Examinations:**

Sem.	Core, AE/ GE/ DC/ EC & Compulsory FC Courses				Examination Structure		
	Paper	Paper Code	Credit	Name of Paper	Mid Semester Evaluation (F.M.)	End Semester Evaluation (F.M.)	End Semester Practical/ Viva (F.M.)
<b>I</b>	Foundation Course	FCHSC101	5	Research Methods and Statistics	30	70	----
	Core Course	CCHSC102	5	Food Science and Public Nutrition	30	70	----
	Core Course	CCHSC103	5	Extension Education and Communication	30	70	----
	Practical's on Core	CPHSC104	5	Practical Paper I	----	----	70 + 30
<b>II</b>	Core Course	CCHSC201	5	Consumer Economics and Financial Management	30	70	----
	Core Course	CCHSC202	5	Advanced Textiles and Clothing	30	70	----
	Core Course	CCHSC203	5	Advanced Study in Human Development	30	70	----
	Practical's on Core	CPHSC204	5	Practical Paper II	----	----	70 + 30
<b>III</b>	Ability Enhancement Course	ECHSC301	5	Food Preservation, Fabrics and Entrepreneurship	30	70	----
	Core Course	CCHSC302	5	Ecology and Environmental Management	30	70	----
	Core Course	CCHSC303	5	Indian Socioeconomic Development and Status of Women	30	70	----
	Practical's on Core	CPHSC304	5	Practical Paper III	----	----	70 + 30
<b>IV</b>	Elective	ECHSC401	5	A. Food & Nutrition / B. Parenting In Early Childhood/ C. Social and Psychological Aspect of Clothing	30	70	----
	Elective	ECHSC402	5	A. Advance Nutrition and Therapeutic Diet / B. Early Childhood Care, Education / C. Advanced Apparel Construction	30	70	----
	Practical's on Elective	EPHSC403	5	Practical Paper IV	----	----	70 + 30
	PROJECT	PRHSC404	5	Project/ Dissertation	----	----	70 + 30

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**SEMESTER I**


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**4 Papers****Total 100 x 4 = 400 Marks****I. COMPULSORY FOUNDATION COURSE [FCHSC101]:**

(Credits: Theory-04, Tutorial-01)

<b>Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100</b>	<b>Pass Marks (MSE:17 + ESE:28)=45</b>
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***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 ).

**RESEARCH METHODS AND STATISTICS****Theory: 60 Lectures; Tutorial: 15 Hrs*****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
- To understand and apply the appropriate statistical design technique for the measurement scale and design.

**CONTENT**

1. Social Research — Meaning, Objectives and importance.
2. Scientific Method in Social research — Meaning, stages.
3. Hypothesis- Meaning, Characteristics of a good hypothesis and sources of hypothesis.
4. Research Design: Meaning and purposes
5. Variables - Definition and Types.
6. Sampling Procedure- Meaning, Types, Merits and demerits
7. Data Gathering Instruments
  - (a) Observation
  - (b) Questionnaire
  - (c) Interview; Types, Merits and demerits.
8. Report Writing and Thesis Writing.
9. Introduction, classification, tabulation of data, frequency distribution
10. Measurement of central tendency-mean, median, mode
11. Graphic representation of data
12. Measurement of variation -Range, quartile deviation, average deviation, standard deviation.
13. Correlation-Pearson's product moment method, spearman's rank correlation method.
14. Test of significance — (a) Parametric t - test, analysis of variance (F test),
  - (b) non- parametric — chi-square test

**REFERENCE BOOKS**

- शोध प्रणाली-विज्ञान, मुहम्मद सुलैमान, शुक्ला बुक डिपो, पटना
  - सामाजिक शोध एवं सांख्यिकी, आर.एन. मुखर्जी
  - सामाजिक अनुसंधान, राम आहूजा
  - रिसर्च मॅथडोलॉजी, 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, New Delhi.
  - SM Mohsin, Research Methods in Behavioural Sciences - Orient Longman.
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**II. CORE COURSE [CCHSC102]:**

(Credits: Theory-04, Tutorial-01)

**Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100****Pass Marks (MSE:17 + ESE:28)=45*****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).

**FOOD SCIENCE AND PUBLIC NUTRITION****Theory: 60 Lectures; Tutorial: 15 Hrs****Objectives-**

- To develop an understanding of composition of various food stuffs, nutrients, theoretical knowledge of various food preparations, processing and its applications.
- To understand the consequences of nutrition problems in the society and their control.
- 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
2. Carbohydrate, fat and protein- structure, composition classifications, properties and daily allowances, denaturation of protein, properties of gel, emulsion and foam,
3. Water- structure and properties, water activity, quality of drinking water.
4. Enzyme — nature and properties, action of enzyme.
5. Structure, composition and effect of heat, preservation techniques, of the followings.
  - 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 delivery system.
7. Primary health care of the community, indicators of health and nutrition
8. National Nutrition policies and program - ICDS, Mid-Day Meal, Prophylaxis program (Anaemia, Vit-A Deficiency, Iodine deficiency), intervention programs
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. Food Security, Food production, distribution and availability, socio cultural aspects and dietary pattern and their implications on nutrition and health.



**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 Age International Publisher, New Delhi
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**III. CORE COURSE [CCHSC103]:**

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100	Pass Marks (MSE:17 + ESE:28)=45
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**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 ).

**EXTENSION EDUCATION AND COMMUNICATION****Theory: 60 Lectures; Tutorial: 15 Hrs****Objectives-**

- To enable the students to understand the changing concepts of Extension Education.
- To get acquainted with the trends in Extension Approaches and Models.
- 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:**

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**

Technology innovation, Transfer Models, Social Education Model, Empowerment Participation Model and Combination Model.

**3. Extension Approaches:**

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**

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**

Panchayat, Union and DRDA  
Central Social Welfare Board

State Social Welfare Board

National Level Voluntary Agencies like CAPART, KVIC

Local Level Voluntary Agencies

People's Organization at Grassroots: SI-IGs, Elected Panchayats

## 6. Extension Systems in India and other Countries

India (Extension Activities), Srilanka, Indonesia, Phillipines, USA,

## 7 Organizations involved in development

Types-Government, corporate and voluntary sector organization

Organizations working for youth, women, children and special need -

Women - National Commission for Women, SEWA, Mahila Samaikhya, Central Social Welfare Board, Bhartiya Gramin Mahila Sangh,

Children: Indian Council of Child Welfare, ICDS, Child Development

Youth: Nehru Yuvak Kendra, YMCA, YWCA

Groups with Special needs- Physically and Mentally-challenged, Aged, Street Children, National Associations for Blind, Spastic Society, Helpage India, SOS Villages

## 8. Communication system

Types of communication system- concepts, functions and significance

Interpersonal, organizational, public, mass, electronic and visual communication

## Recommended Books

- Supe, S.V. 1997. An Introduction to Extension Education. 2<sup>nd</sup> Ed. Oxford & IBH Publishing Co. New Delhi.
- Venataiaji, N. (1996). Educational Technology. New Delhi, IBH Publishing Corporations.
- Advi Reddy, Extension Education, Bapata Publications, Bapata.
- Bacon, El 1959. Extension for Extension Workers, GovL Press Trivendrum.
- Choubey, B. K. 1979. Handbook of Extension Education, Jyoti Prakashan, Allahabad.
- Dahama, O.P. 1973. Extension and Rural Welfare, Ram Prasad & Sons, Agra.
- Dahama, OP. and Bhatnagar, O.P. 2005. Education and Communication for Development. Second Edition. Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.
- Directorate of Extension 1961. Extension Education in Community Development, Ministry of Food & Agriculture, Govt. of India, New Delhi.
- Mishra DCC, (1990), New Directions in Extension training.
- Rudramoorthy, B. 1964. Extension in Planned Social Change, Allied Publishers, Pvt. Ltd, Bombay.
- Saudhu A.S. (1994), Extension Programme Planning, Oxford and IBH Publishing Co. New Delhi.
- Chandra A., Shah, A. and Joshi, Iii. (1989). Fundamentals of teaching Home Science. New Delhi, Sterling Publishes.
- गीता पुष्प शा और जायस शीला शा प्रसार शिक्षा विनोद पुस्तक मन्दिर, आगरा

**IV. CORE COURSE PRACTICAL [CPHSC104]:**

(Credits: Practical-05)

**Marks: 30 (ESE: 20 Viva + 5Attd. + 5 Record) + 70 (ESE Pr: 6Hrs)=100****Pass Marks =45*****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 Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks ).*

**PRACTICAL PAPER I****Practical: 60 Lectures; Tutorial:15 Hrs****Objectives-**

1. To acquire practical knowledge of preparation of research proposal, data gathering tools, conducting research and analyzing data.
2. To have practical knowledge of Food Science and Public well-being and Nutrition
3. 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.
2. Plan a research proposal making hypothesis and prepare a report.
3. Calculation of Measure of Central tendency based on data.
4. Graphical representation of data through Bar Diagram, Frequency Polygon, Pie Chart

**Part B**

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

**Part C**

1. Preparation and Use of Audio-Visual Aids
  2. Survey of NGOs such as KVK, KVIC, Gram Yuvak Kendras, Mahila Mandal
  3. Investigation of felt need of any beneficiary group and planning a program for them, execution and evaluation of program.
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**SEMESTER II**


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**4 Papers****Total 100 x 4 = 400 Marks****I. CORE COURSE [CCHSC201]:**

(Credits: Theory-04, Tutorial-01)

<b>Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100</b>	<b>Pass Marks (MSE:17 + ESE:28)=45</b>
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***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).

**CONSUMER ECONOMICS AND FINANCIAL MANAGEMENT****Theory: 60 Lectures; Tutorial: 15 Hrs****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
2. Management as a system – Definition, elements, types, advantages and limitations of system approach, application in family resource management.
3. Decision making- meaning, types of decision, modes of decision making, Techniques and tools of decision making, cost benefit analysis
4. Management function and Process
  - 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
  - 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
  - Consumer, definition, and characteristics of consumer, role of consumers in the economy of a nation
  - Market, meaning, definition, characteristics and types
  - Changing business environment – telemarkets, global, e business and e commerce.
7. Market practices and exploitation of consumer
  - Types of exploitation, causes, adulteration, packaging, labels, weights and measures, advertising and sale gimmicks
  - Consumer problem and solution
8. Consumer behaviour
  - 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
  - Role of consumer organization, national, regional and international
  - Role of Government agencies, legislation
  - Empowerment of consumers, consumer protection act.

### **Recommended Books**

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

**II. CORE COURSE [CCHSC202]:**

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100	Pass Marks (MSE:17 + ESE:28)=45
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**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).

**ADVANCED TEXTILES AND CLOTHING****Theory: 60 Lectures; Tutorial: 15 Hrs****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
- To familiarize with clothing construction and care of clothing

**CONTENT**

1. Chemical concept of Textile fibres-
  - 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
  - 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.
4. Principle of fabric manufacturing- Basic principle, various fabric construction methods, characteristics of fabric made and machines involved.
  - 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

Preparatory/ routine finishes- scouring, bleaching, mercerization, texturing, shearing, singeing etc  
Mechanical finishes- calandring, napping, moiering, etc.

Chemical finishes- spill off, wash n wear, parchmentation, durable press, antcrease, etc

Special purpose finishes- flame retardant, water repellant antistatic, soil release, moth proofing etc

6. Dyeing and printing

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

8. Traditional Indian Textiles and Embroideries

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.

**Recommended Books**

- Trotman, E.R., (1975) Dyeing and Chemical Technology of Textile Fibers, Charles Griffino Company Ltd., London
  - Hollen, N. and Saddler J., (1968) Textiles, Macmillan publication
  - Gohl, (2005), Textile Science: An Explanation of fiber Properties, CBS Publication
  - Sekhri Seema. (2016), Textbook of Fabric Science: Fundamentals of Finishing, Prentice Hall India
  - Hatch, L. K., (1993), Textile Science, West Publishing Company.
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**III. CORE COURSE [CCHSC203]:**

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100 Pass Marks (MSE:17 + ESE:28)=45

***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).

**ADVANCED STUDY IN HUMAN DEVELOPMENT****Theory: 60 Lectures; Tutorial: 15 Hrs****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
  - i. Growth
  - ii. Development
  - iii. Learning
  - iv. Maturity
  - v. Heredity
  - vi. Environment
  - vii. Pre-natal Period, influencing Factors
2. Birth to 2 Yrs.(Infancy)
  - i. New Born – Physical description, Sensory capacity and reflexes
  - ii. Early Language Development
  - iii. Social Development during infancy
3. 2-6 Yrs. (Early Childhood)
  - 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)
  - 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

5. Adolescence
  - 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
  - i. Introduction, physical continuity and changes
  - ii. Health and Diseases
  - iii. Work and Career
7. Old age
  - i. Introduction and changes during old age
  - ii. Health and Diseases
  - iii. Psycho social Changes

**Recommended Books-**

- Devdas, R.P, and Jaya N., Text Book of Child development, New Delhi, Macmillan Publishing Co. (1996)
  - Hurlock E. B., Child Development, New Delhi, McGraw Hill, (1985)
  - Kuppuswamy, B., Text Book of Child Behaviour and Development, Konark Publication, (1990).
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#### IV. CORE COURSE PRACTICAL [CPHSC204]: (Credits: Theory-04, Tutorial-01)

Marks: 30 (ESE: 20 Viva + 5Attd. + 5 Record) + 70 (ESE Pr: 6Hrs)=100	Pass Marks =45
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##### ***Instruction to Question Setter: -***

##### ***Mid Semester Examination (MSE):***

There will be **two** groups of questions in 20 marks written examinations. **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

## **PRACTICAL PAPER II**

**Practical: 60 Lectures; Tutorial: 15 Hrs**

### **Objectives-**

- To gain practical knowledge and skill of the topics mentioned

### **Content –**

#### **Part A**

1. Preservation of Fruits using Sugar as media.
2. Preservation of Vegetables using Salt as media.
3. Improving shelf life of perishable food through blanching.
4. Use of drying techniques for preservation.
5. Preparation of bakery products.
6. Preparation of family budget for different income group.
7. Evaluation of performance and efficiency of some common consumer durable.

#### **Part B**

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

#### **Part C**

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

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**SEMESTER III**


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**4 Papers****Total 100 x 4 = 400 Marks****I. ABILITY ENHANCEMENT COURSE [ECHSC301]: (Credits: Theory-05)**

<b>Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100</b>	<b>Pass Marks (MSE:17 + ESE:28)=45</b>
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**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).

**FOOD PRESERVATION, FABRICS AND ENTREPRENEURSHIP****Theory: 60 Lectures; Tutorial: 15 Hrs****Objectives-**

- To gain knowledge for Establishment of Entrepreneurship.
- To develop skill and knowledge about Food preservation, Fabrics and Entrepreneurship.

**CONTENT**

1. Food Preservation-Principles of Food preservation, Methods of food preservation.
  2. Fermentation-Benefits of fermentation.
  3. Food Spoilage-Factors responsible for the growth of micro-organism in foods-Intrinsic and extrinsic factors.
  4. Food Additives.
  5. Understanding of different types of fabrics
  6. Entrepreneurship –
  7. Concept, need and process in entrepreneurship development.
  8. Launching and organizing an enterprise.
  9. Environment Scanning-Information, Sources, Schemes of Assistance, Problems.
  10. Enterprise Selection, Market assessment
  11. Early childhood care and Education - Concept, Importance and Scope.
  12. Infrastructure requirement.
  13. Staffing Pattern
  14. Curriculum and Routine Planning.
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**II. CORE COURSE [CCHSC302]:**

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100 Pass Marks (MSE:17 + ESE:28)=45

***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).

**ECOLOGY AND ENVIRONMENTAL MANAGEMENT****Theory: 60 Lectures; Tutorial: 15 Hrs****Objectives:**

1. To be aware of the holistic ecological approaches to environment
2. To be aware of the environmental problem, hazards and risk.
3. to understand the aspect of the environmental pollution and waste management.
4. To be aware of the aspects of environmental policies, movement and ethics.

**Content**

1. Fundamentals of environment
  - 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
  - Eco system of world
  - Forest Ecology,
  - Pathways in ecosystem
  - Food Chain, factors affecting changes in ecosystem and environment
3. Population and Environment
  - 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
  - Source and Effect of pollution,
  - Pollution control
5. Environment and Public Health
  - Environmental pollution and community health
  - Water and air borne diseases
  - Effect of other harmful substance
6. Waste Management
  - Waste, types and Management
  - Solid waste management

7. Environment control measures
  - 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

**Recommended Books**

- Basu R.N., (2000) Environment, University of Kolkata
  - Bhatia, H.S. (1998), A Textbook of Environmental Pollution and Control, New Delhi
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**III. CORE COURSE [CCHSC303]:**

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100 Pass Marks (MSE:17 + ESE:28)=45

***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****Theory: 60 Lectures; Tutorial: 15 Hrs****Objectives-**

- To understand socio-economic structure, organisation and problems of rural, urban and tribal areas.
- To understand policy development and their impact.
- To understand the effort needed for women empowerment.
- To know the support system in the country for Women empowerment

**CONTENT**

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

### **Recommended Books**

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



**IV. CORE COURSE PRACTICAL [CPHSC304]:**

(Credits: Practical-05)

**Marks: 30 (ESE: 20 Viva + 5Attd. + 5 Record) + 70 (ESE Pr: 6Hrs)=100****Pass Marks =45*****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 Upto60%, 1mark; 60<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks ).*

**PRACTICAL PAPER III****Theory: 60 Lectures; Tutorial: 15 Hrs****Objectives-**

- *To gain practical knowledge of the subject*

**Content**

1. Preservation of fruits using sugar as media.
  2. Preservation of vegetables using salt as media.
  3. Preparation of Bakery product-Different types of cakes and cookies.
  4. Identification and collection of different types of fabrics.
  5. Market survey for the establishment of a boutique.
  6. Visit to various centres-Day care, Anganwadi and Nursery School.
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**SEMESTER IV**
**4 Papers**


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**Total 100 x 4 = 400 Marks**
**I. GENERIC/DISCIPLINE CENTRIC ELECTIVE [ECHSC401A]:**  
 (Credits: Theory-04, Tutorial-01)

<b>Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100</b>	<b>Pass Marks (MSE:17 + ESE:28)=45</b>
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**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 ).

**A. FOOD & NUTRITION**
**Theory: 60 Lectures; Tutorial: 15 Hrs**
**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 .
2. Nervous system-Structure and function of brain and spinal cord.
3. Cardio vascular System-Structure and function of heart. Blood composition, blood pressure and hypertension.
4. Digestive System – Structure of digestive organs and their digestive and absorptive function. Role of liver, Pancreas and Gall Bladder and their dysfunction.
5. Respiratory System –Structure of Respiratory organs, mechanism of respiration.
6. Reproductive System – Structure of male and female reproductive organs, Physiological changes during pregnancy, menstrual cycle.
7. Excretory System – Structure and function of Kidney.
8. Endocrine system – 5
9. Immune system-WBC and production of antibodies..

**RECOMMENDED BOOKS**

- आशा कुमारी, मानव शरीर एवं पोषण विज्ञान, क्लासिकल पब्लिशिंग, नई दिल्ली।
  - Ross and Wilson, Foundation of Anatomy and physiology (1973), Medical division of Longman Group Ltd.
-

**OR****ABILITY ENHANCEMENT COURSE [ECHSC401B]:** (Credits: Theory-05)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100	Pass Marks (MSE:17 + ESE:28)=45
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***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 Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks ).

**B. PARENTING IN EARLY CHILDHOOD****Theory: 60 Lectures; Tutorial: 15 Hrs****Objectives:**

- To understand the significance of parents role in early childhood
- To develop skills to involve parents in early childhood.
- To enable students to understand the need for theories in Human Development.

**Content**

1. Introduction :
  - The task of parenting and the concept of parenting skills.
  - Changing concept of parenthood and childhood.
2. Individual parenting roles :
  - 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:
  - 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 :
  - Definition concept and importance of Mental Health.
  - National Mental Health Policy of India.
5. Theories of Human Development :
  - Freud's Psychoanalytic theory
  - Learning theory of Pavlov, Skinner
  - Cognitive theory of Piaget.

**Recommended Books**

- Kilkarni, S. (1988) Parents Education Perspective and Approaches, Rawat Publication, Jaipur
  - Gopal Krishnan N. Mental Health in You, Popular Prakashan, Mumbai
  - Gupte, (1981), Speaking of child care, everything you wanted to know, 2<sup>nd</sup> Edn. Sterling Publication, NewDelhi.
  - Lidhop, M. (1987) Child Rearing and Psycho-Social Development, Ashish Publication, New Delhi
  - Bigner J. (1979) Parent Child Relation: An Introduction to Parenting, Mc Million Publication, New York
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**OR****ABILITY ENHANCEMENT COURSE [ECHSC401C]:** (Credits: Theory-05)**Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100 Pass Marks (MSE:17 + ESE:28)=45*****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 ).

## **C. SOCIAL AND PSYCHOLOGICAL ASPECT OF CLOTHING**

**Theory: 60 Lectures; Tutorial: 15 Hrs**

### **Objectives:**

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

### **CONTENTS**

1. Origin of clothing and reason of wearing -
  - Why costumes differ all over the world, material aspects and climate
  - Religious influence
  - Events of world
  - Clothing symbols
2. Socialization and development of the self
  - Social norms
  - Attitude and value information
  - Individuality and conformity
  - Personal and group identification
3. Personality theories
  - Sigmoid end-defense mechanisms
  - Jung
  - Murray
4. Component of fashion and fashion design:
  - 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
5. Growth of costumes-
  - Terminology, fashion, concepts, its creation and analysis, Mass production of clothing.
6. Elements used in creating design

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.

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

### Recommended Books

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

**II. GENERIC/DISCIPLINE CENTRIC ELECTIVE [ECHSC402A]:**

(Credits: Theory-04, Tutorial-01)

<b>Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100</b>	<b>Pass Marks (MSE:17 + ESE:28)=45</b>
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***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 ).

**A. ADVANCE NUTRITION AND THERAPEUTIC DIET****Theory: 60 Lectures; Tutorial: 15 Hrs****Objectives :**

- To understand the mechanism adopted by the human body for regulation of metabolic pathway.
- To know about various diseases and nutritional dietary requirements.
- To develop knowledge and understanding nutritional problems and their management
- To know the various methods for assessment of health status.

**Content**

1. Carbohydrates-Digestion, absorption and Metabolism-Glycolysis, Glycogenesis, Citric-Acid Cycle, Pentose-Phosphate Pathway.
2. Protein-Digestion, absorption and Metabolism-Animation, De-Amination, Trans-amination.
3. Lipids-Digestion, absorption and Metabolism Beta-oxidation, Bio-Synthesis of fatty acids, Bio-Synthesis of unsaturated fatty acids, Ketogenesis, Cholesterol, Phospholipids.
4. Hormones-Mechanism and action of Hormones, hyperactivity and hypoactivity of-Thyroid glands parathyroid gland, Adrenal gland, Pituitary gland and pancreas.
5. 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 liver disorder-Hepatitis, Cirrhosis of Liver.
  - iv. Gastrointestinal disorders-constipation, diarrhoea, Peptic Ulcer.
  - v. Renal Disease
  - vi. Cancer
  - vii. HIV AIDS

**Recommended Books**

- B Srilakshmi, Dietetics - New age international publisher, New Delhi.
- Mudamsi, Rajgopal ,Fundamentals of Food nutritional and diet therapy -
- Food and Nutrition - Dr. M.S. Swaminathan
- The nutritive value of Foods — M. S. Swarninathan
- Child nutrition —Niraja Sharma, Murari Lal & Sons, New Delhi
- आहर एवं पोषण, जी.पी. शैरी
- मानव शरीर एवं पोषण विज्ञान, नई दिल्ली

**OR****ABILITY ENHANCEMENT COURSE [ECHSC402B]:** (Credits: Theory-05)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100 Pass Marks (MSE:17 + ESE:28)=45

***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 Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks ).

**B. EARLY CHILDHOOD CARE & EDUCATION****Theory: 60 Lectures; Tutorial: 15 Hrs****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.

**CONTENTS :**

1. Historical Perspectives :
  - ECCE in India – Pre Independence Period, Post Independence Period.
  - Contributions of five years Plans to ECCE
  - Kothari Commission.
2. Contribution of the following thinkers to the development of ECCE :
  - Rousseau
  - Maria Montessori
  - M. K. Gandhi
  - Tarabai Modak
  - Froebel.
3. Contribution of the following agencies/programme to ECCE in India :
  - ICCW
  - IAPE
  - NCERT
  - ICDS
  - UNICEF
  - NCTE
4. Organization of pre-School Centres :
  - Concept of organization and Administration of early childhood Education centres.



5. 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.
  6. Staff/Personal Service Condition and Role : Role and responsibilities, essential qualities of a care giver/teacher, other personal.
  7. Record and Report : Types, aim and purpose.
  8. Programme Planing : Long term planning, Short Term Planning, Weekly and daily planning.
  9. Routine and Schedules.
  10. Activities for ECCE :
    - 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.
-

**OR****ABILITY ENHANCEMENT COURSE [ECHSC402C]:** (Credits: Theory-05)

<b>Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100</b>	<b>Pass Marks (MSE:17 + ESE:28)=45</b>
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***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 Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks ).

**C. ADVANCED APPAREL CONSTRUCTION****Theory: 60 Lectures; Tutorial: 15 Hrs****Objectives:**

- To develop skills in pattern making and construction.
- To obtain perfect fit and harmony between fabric design and the garment.
- To create awareness of quality assurance norms and evaluating quality of apparel.
- To impart an in-depth knowledge of style reading, pattern making and garment construction techniques.

**CONTENTS**

1. Pattern making  
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  
Estimating fabric for particular design and fabric width  
Suitability of fabrics for different design and garment
3. Fitting  
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
  - a. Maternity and lactation
  - b. Old age
  - c. Physically challenged
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  
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  
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

### Recommended Books

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

**III. ELECTIVE COURSE PRACTICAL [EPHSC403A]:** (Credits: Practical-05)

<b>Marks: 30 (ESE: 20 Viva + 5Attd. + 5 Record) + 70 (ESE Pr: 6Hrs)=100</b>	<b>Pass Marks =45</b>
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***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 Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks ).*

**PRACTICAL PAPER IV****PRACTICAL: 60 Lectures; Tutorial:15 Hrs**

1. Planning, Calculation and Preparation of diet for the patient suffering from :
  - i. Cardiovascular disease
  - ii. Diabetese
  - iii. Liver and gall bladder disorders
  - iv. Peptic ulcer
  - v. Gastro intestinal disorders.
  - vi. Renal disorders.
2. Planning, calculation and preparation of diet for children suffering from :-
  - i. Protein energy malnutrition. (PEM)
  - ii. Diarrhoea.
  - iii. Fever
  - iv. Vitamin 'A' deficiency.
3. Preparation of counselling chart Module for patient.
4. Alternative systems for health and fitness-Ayurved, Vegetarianism, Yoga and Meditation.
5. Nutritional Assessment Methods: Direct Method- Anthropometric, Bio-Chemical, Clinical Indirect Method-Dietary Survey.
6. Counselling – Techniques and steps of dietary counselling in different diseases.

**Recommended Books**

1. आहार एवं पोषण विज्ञान, आशा कुमारी, अग्रवाल पब्लिकेशन, आगरा, 2015
  2. आहार एवं पोषण, एम0 एस0 स्वामीनाथन
  3. Textbook of Human nutrition, S. Bamji, Oxford Publication.
  4. Nutrition and dietetics, Subhangini Joshi, Tata Mac Grow Hill.
  5. Dietetics – B. Srilakshmi, Newage Publicaiton, N.D.
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**OR****ELECTIVE COURSE PRACTICAL [EPHSC403B]:** (Credits: Practical-05)**Marks: 30 (ESE: 20 Viva + 5Attd. + 5 Record) + 70 (ESE Pr: 6Hrs)=100****Pass Marks =45*****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 Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks ).*

**PRACTICAL PAPER IV****PRACTICAL: 60 Lectures; Tutorial:15 Hrs****CONTENTS**

- Preparing teaching material kit and presentation.
  - Story and their techniques in ECCE Centers.
  - Preparing different types of Puppets.
  - Preparing Song Booklets.
  - Music – Singing, listening and rhythmic activities.
  - Language based activities – Story listening and telling, Poetry, Group discussion such as show and tell and question-answer.
  - Arranging workshop with children through art and Creation activities.
  - Designing – Leaflets/ Pamphlets/ Cover pages/ Posters.
  - To study Curriculum and Management of Pre-primary standard children in local area.
  - Case study regarding problems behaviour of a child.
-

**OR****ELECTIVE COURSE PRACTICAL [EPHSC403C]:**

(Credits: Practical-05)

**Marks: 30 (ESE: 20 Viva + 5Attd. + 5 Record) + 70 (ESE Pr: 6Hrs)=100****Pass Marks =45*****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 Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks ).*

**PRACTICAL PAPER IV****PRACTICAL: 60 Lectures; Tutorial:15 Hrs****Objective:**

- *To impart an in-depth practical knowledge about pattern making and garment construction.*
- *To develop and understand the principals of pattern making through flat pattern making and Draping.*

**CONTENTS**

1. Sketching of different action croquic, sketching - basic rendering techniques.
2. Sketching of Garment and Garment details
 

Necklines and Collars	Sleeve details
Skirts and pants	Blouses, coats and jackets
Drawstring and fastening	Tassels and tucks
Frills, fringes and gather, cowls and cascades	Hemlines and insertions
Lacing, macramé and patchwork	Pleats, quilting and ties
Shirring, smoking and zips	Yokes and underskirts
3. Developing a line of garments based on theme through sketching.
4. Designing, preparing pattern, marker making, pattern envelope and guide sheet (front and back of garment).
5. Development of slopers for shirt variation and its designing,  
Designing, drafting and construction of low and high waist garment  
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.
7. Incorporation of Placket- Pockets Slashed and inseam
8. Developing draft for Men's and Women's Garment (crotch line garment- Shorts, Bermuda, Trouser)
9. Preparing 2 patterns (trouser/short/skirt) with complete set of makings.
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.).
11. Designing through Draping: basic draping principles and techniques, developing patterns
12. Draping of bodies block and Skirt block and their variation (draping of bodice and variations- princes seams, dart manipulation, yokes etc).asymmetrical design and prepare pattern
13. Construction of upper bodice /garments for women through draping (including all variations).
14. Introduction to grading track and slack method of children garment.

**IV. CORE COURSE (PROJECT) [PRHSC404]:**

(Credits: 05)

**Marks : 100 (ESE: 3Hrs)=100****Pass Marks =45*****Guidelines to Examiners for******End Semester Examination (ESE):****Evaluation of project dissertation work may be as per the following guidelines:*

*Project model (if any) and the Project record notebook = 70 marks*  
*Project presentation and viva-voce = 30 marks*

*Overall project dissertation may be evaluated under the following heads:*

- *Motivation for the choice of topic*
- *Project dissertation design*
- *Methodology and Content depth*
- *Results and Discussion*
- *Future Scope & References*
- *Presentation style*
- *Viva-voce*

**PROJECT WORK/ DISSERTATION/ PAPER PRESENTATION**

Each student has to submit two copies of the dissertation work duly forwarded by the HOD of Department concerned. The forwarded copies will be submitted in the Department of Botany, Ranchi University, for evaluation (Seven days before the seminar).

The paper will consist of

- (a) Field work/Lab work related to the project.
  - (b) Preparation of dissertation based on the work undertaken.
  - (c) Presentation of project work in the seminar on the assigned topic in the P.G. Department of Home Science, Ranchi University, Ranchi & open viva there on.
- Student alone or in a group of not more than five, shall undertake one Project approved by the Subject Teacher/H.O.D. of the Department/College concerned. The progress of the Project shall be monitored by the faculty members at regular intervals.
- 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,
- OR
- Paper presentation on 'Topic Provided' and group discussion

**NB:-** Students will select topics for the project work in consultation with a teacher of the department. The Seminar will be held in the Department of Home Science, Ranchi University, Ranchi.

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**DISTRIBUTION OF CREDITS FOR P.G. PROGRAMME (SEMESTER-WISE) FOR  
POSTGRADUATE ‘P.G. Voc./M.Sc./M.A./M.Com’ PROGRAMME**

**Table B-1: Semester wise distribution of 80 Credits for Subjects with Practical Papers.**

<b>Semester</b>	<b>CC</b>	<b>FC</b>	<b>GE/DC</b>	<b>AE</b>	<b>Total credits</b>
Semester I	15	05			20
Semester II	20				20
Semester III	15			05	20
Semester IV	5		15		20
	<b>55</b>	<b>05</b>	<b>15</b>	<b>05</b>	<b>80</b>

**Table B-1: Semester wise distribution of 80 Credits for Subjects without Practical Papers.**

<b>Semester</b>	<b>CC</b>	<b>FC</b>	<b>GE/DC</b>	<b>AE</b>	<b>Total credits</b>
Semester I	15	05			20
Semester II	20				20
Semester III	15			05	20
Semester IV	10		10		20
	<b>60</b>	<b>05</b>	<b>10</b>	<b>05</b>	<b>80</b>

CC=Core Course; FC=Foundation Compulsory/Elective Course; GE=Generic Elective; SE=Skill Enhancement Course; DC=Discipline Centric Elective



**SAMPLE CALCULATION FOR SGPA & CGPA FOR POSTGRADUATE 'P.G.  
Voc./M.Sc./M.A./M.Com' PROGRAMME**

**Table B-2: Sample calculation for SGPA for M.Sc./M.A./M.Com Programme**

Course	Credit	Grade Letter	Grade Point	Credit Point (Credit X Grade)	SGPA (Credit Point/Credit)
<b>Semester I</b>					
FC	05	A	8	40	
C-1	05	B+	7	35	
C-2	05	B	6	30	
C-3/CP	05	B	6	30	
<b>Total</b>	<b>20</b>			<b>135</b>	<b>6.60 (135/20)</b>
<b>Semester II</b>					
C-4	05	B	6	30	
C-5	05	C	5	25	
C-6	05	B+	7	35	
C-7/CP	05	A+	9	45	
<b>Total</b>	<b>20</b>			<b>135</b>	<b>6.60 (135/20)</b>
<b>Semester III</b>					
EC-1	05	A+	9	45	
C-8	05	O	10	50	
C-9	05	A	8	40	
C-10/CP	05	A	8	40	
<b>Total</b>	<b>20</b>			<b>175</b>	<b>8.75 (175/20)</b>
<b>Semester IV</b>					
EC-2/EC-2	05	B	6	30	
EC-3/EC-3	05	A+	9	45	
C11/EP	05	B	6	30	
Project	05	A+	9	45	
<b>Total</b>	<b>20</b>			<b>150</b>	<b>7.50 (150/20)</b>
<b>CGPA</b>					
<b>Grand Total</b>	<b>80</b>			<b>595</b>	<b>7.44 (595/80)</b>

**Table B-3: Sample calculation for CGPA for P.G. Vocational M.Sc./M.A./M.Com Programme**

Semester I	Semester II	Semester III	Semester IV
Credit:20; SGPA:6.60	Credit:20; SGPA: 6.60	Credit:20; SGPA: 8.75	Credit:20; SGPA: 7.50

**Thus CGPA= (20x6.60+20x6.60+20x8.75+20x7.50) /80=7.36**

## DISTRIBUTION OF MARKS FOR EXAMINATIONS AND FORMAT OF QUESTION PAPERS

**Distribution of Marks for Mid Semester Evaluation:****Table No. 15:** Distribution of marks of Theory Examinations of Mid Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A (Very short answer type Compulsory Questions) No. of Questions x Marks = F.M.	Group-B (Descriptive Questions) No. of Questions x Marks = F.M.	Total No. of Questions to Set	
							Group A	Group B
Mid Sem*	T30*	30 (20 +5 +5)	17	1 Hr	5 x1 =5	3 (out of 5) x5 =15	05	5

**\*There shall be 20 marks theory examination for mid sem, 05 marks for attendance/ regular interactions & 05 marks for seminar/ assignment/ term paper given by faculty concerned in classrooms.**

**Distribution of Marks for End Semester Theory Examinations:****Table No. 16:** Marks distribution of Theory Examinations of End Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A <sup>#</sup> (Very short answer type Compulsory Questions) No. of Questions x Marks = F.M.	Group-B (Descriptive Questions) No. of Questions x Marks = F.M.	Total No. of Questions to Set	
							Group A <sup>#</sup>	Group B
End Sem	T50	50	--	3 Hrs	2 x5 =10	2 (out of 3) x20 =40	2	3
	T70	70	28	3 Hrs	Q.No.1 (5x1) + 1x5 =10	4 (out of 6) x15 =60	2	6

**# Question No.1 in Group-A carries very short answer type questions of 1 Mark**

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

## FORMAT OF QUESTION PAPER FOR MID SEM EXAMINATION

20 MARKS



## Ranchi University, Ranchi

Mid Sem No.Exam Year

Subject/ Code

F.M. =20Time=1Hr.

### General Instructions:

समान्य निर्देश :

- i. **Group A** carries very short answer type compulsory questions.  
(खंड 'A' में अत्यंत लघु उत्तरीय अनिवार्य प्रश्न हैं।)
- ii. **Answer 3 out of 5** subjective/ descriptive questions given in **Group B**.  
(खंड 'B' के पाँच में से किन्हीं तीन विषयनिष्ठ/ वर्णनात्मक प्रश्नों के उत्तर दें।)
- iii. Answer in your own words as far as practicable.  
(यथासंभव अपने शब्दों में उत्तर दें।)
- iv. Answer all sub parts of a question at one place.  
(एक प्रश्न के सभी भागों के उत्तर एक साथ लिखें।)
- v. Numbers in right indicate full marks of the question.  
(पूर्णांक दायीं ओर लिखे गये हैं।)

### Group A

1. ....
2. ....
3. ....
4. ....
5. ....

[5x1=5]

### Group B

6. ....
7. ....
8. ....
9. ....
10. ....

[5]

[5]

[5]

[5]

[5]

**Note:** There may be subdivisions in each question asked in Theory Examination.

## FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

70 MARKS



## Ranchi University, Ranchi

End Sem No.Exam Year

**Subject/ Code**

**F.M.** =70**P.M.** =28**Time**=3Hrs.

**General Instructions:**

- i. **Group A** carries very short answer type **compulsory** questions.
- ii. **Answer 4 out of 6** subjective/ descriptive questions given in **Group B**.  
(खंड 'B' के छः में से किन्हीं चार विषयनिष्ठ/ वर्णनात्मक प्रश्नों के उत्तर दें।)
- iii. Answer in your own words as far as practicable.  
(यथासंभव अपने शब्दों में उत्तर दें।)
- iv. Answer all sub parts of a question at one place.  
(एक प्रश्न के सभी भागों के उत्तर एक साथ लिखें।)
- v. Numbers in right indicate full marks of the question.  
(पूर्णांक दायीं ओर लिखे गये हैं।)

**Group A**

- |    |           |         |
|----|-----------|---------|
| 1. |           | [5x1=5] |
|    | i. ....   |         |
|    | ii. ....  |         |
|    | iii. .... |         |
|    | iv. ....  |         |
|    | v. ....   |         |
| 2. | .....     | [5]     |

**Group B**

- |    |       |      |
|----|-------|------|
| 3. | ..... | [15] |
| 4. | ..... | [15] |
| 5. | ..... | [15] |
| 6. | ..... | [15] |
| 7. | ..... | [15] |
| 8. | ..... | [15] |

**Note:** There may be subdivisions in each question asked in Theory Examination.