



CHHATRAPATI SHAHU JI MAHARAJ UNIVERSITY, KANPUR

STRUCTURE OF SYLLABUS FOR THE

PROGRAM: M.A., SUBJECT: HOME SCIENCE

| Syllabus Developed by | | |
|-----------------------------------|-------------|------------------------------------|
| Name of BoS Convenor / BoS Member | Designation | College/University |
| DR. SMT. ARCHANA SAXENA | Convenor | A.N.D.N.N.M. MAHAVIDYALAYA, KANPUR |

| SEMESTER / YEAR | COURSE CODE | TYPE | COURSE TITLE | CREDITS | CIA | ESE | MAX. MARKS |
|---|-------------|----------------|---|---------|-----|-----|------------|
| I ST YEAR / I ST SEM | A130701T | CORE | ADVANCED NUTRITION AND INSTITUTIONAL MANAGEMENT. | 4 | 25 | 75 | 100 |
| | A130702T | CORE | FASHION DESIGN AND TRADITIONAL TEXTILES. | 4 | 25 | 75 | 100 |
| | A130703T | CORE | COMMUNITY DEVELOPMENT AND EXTENSION MANAGEMENT. | 4 | 25 | 75 | 100 |
| | A130704T | CORE | RESEARCH METHODOLOGY. | 4 | 25 | 75 | 100 |
| | A130705P | PRACTICAL | PRACTICAL | 4 | 25 | 75 | 100 |
| I ST YEAR / II ND SEM | A130801T | CORE | THERAPEUTIC MANAGEMENT AND COMMUNITY NUTRITION. | 4 | 25 | 75 | 100 |
| | A130802T | CORE | ADVANCED RESOURCE MANAGEMENT AND INTERIOR DESIGN. | 4 | 25 | 75 | 100 |
| | A130803T | CORE | HUMAN DEVELOPMENT AND BEHAVIORAL THEORIES. | 4 | 25 | 75 | 100 |
| | A130804T | ELECTIVE | SOCIAL AND PSYCHOLOGICAL ASPECTS OF CLOTHING | 4 | 25 | 75 | 100 |
| | A130805T | | GENDER SENSITIZATION FOR WOMEN EMPOWERMENT | | | | |
| | A130806P | PRACTICAL | PRACTICAL | 4 | 25 | 75 | 100 |
| | A130807R | PROJECT | RESEARCH PROJECT. | 8 | 25 | 75 | 100 |
| | | MINOR ELECTIVE | FROM OTHER FACULTY (IN 1 ST YEAR)* | 4/5/6 | 25 | 75 | 100 |
| II ND YEAR / III RD SEM | A130901T | CORE | FAMILY CLOTHING AND APPAREL CONSTRUCTION. | 4 | 25 | 75 | 100 |
| | A130902T | CORE | FOOD SCIENCE AND QUALITY CONTROL. | 4 | 25 | 75 | 100 |
| | A130903T | CORE | APPLICATION OF STATISTICS TO RESEARCH. | 4 | 25 | 75 | 100 |
| | A130904T | ELECTIVE | EARLY CHILDHOOD CARE AND EDUCATION | 4 | 25 | 75 | 100 |
| | A130905T | | CONSUMER ECONOMICS AND FINANCIAL MANAGEMENT | | | | |
| | A130906P | PRACTICAL | PRACTICAL | 4 | 25 | 75 | 100 |
| II ND YEAR / IV TH SEM | A131001T | CORE | ADVANCED HUMAN DEVELOPMENT. | 4 | 25 | 75 | 100 |
| | A131002T | CORE | ADVANCED HOUSING & ERGONOMICS. | 4 | 25 | 75 | 100 |
| | A131003T | CORE | COMMUNICATION FOR DEVELOPMENT. | 4 | 25 | 75 | 100 |
| | A131004T | ELECTIVE | FABRIC CONSTRUCTION | 4 | 25 | 75 | 100 |
| | A131005T | | FOOD PROCESSING AND TECHNOLOGY | | | | |
| | A131006P | PRACTICAL | PRACTICAL | 4 | 25 | 75 | 100 |
| | A131007R | PROJECT | RESEARCH PROJECT | 8 | 25 | 75 | 100 |

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CHHATRAPATI SHAHU JI MAHARAJ UNIVERSITY, KANPUR

STRUCTURE OF SYLLABUS FOR THE

PROGRAM: M.A., SUBJECT: HOME SCIENCE

NOTE:

1. *A MINOR ELECTIVE FROM OTHER FACULTY SHALL BE CHOSEN IN 1ST YEAR (EITHER 1st / IInd SEMESTER) AS PER AVAILABILITY.
2. In both years of PG program, there will be a Research Project or equivalently a research-oriented Dissertation as per guidelines issued earlier and will be of 4 credit (4 hr/week), in each semester. The student shall submit a report/dissertation for evaluation at the end of the year, which will be therefore of 8 credits and 100 marks
3. Research project can be done in form of Internship/Survey/Field work/Research project/ Industrial training, and a report/dissertation shall be submitted that shall be evaluated via seminar/presentation and viva voce.
4. The student straight away will be awarded 25 marks if he publishes a research paper on the topic of Research Project or Dissertation.

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| M.A. (HOME SCIENCE) SEMESTER - I PAPER – I (CORE) ADVANCED NUTRITION AND INSTITUTIONAL MANAGEMENT | | |
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| PROGRAMME/ CLASS: P.G. / M.A. | YEAR – 1 | SEMESTER-I |
| SUBJECT – HOME SCIENCE | | |
| COURSE CODE : A130701T | COURSE TITLE : ADVANCED NUTRITION AND INSTITUTIONAL MANAGEMENT | PAPER - I |
| COURSE OUTCOMES: <ul style="list-style-type: none"> ❖ To enable the students to understand the basic attributes regarding food ❖ To understand the special characteristics of Food Science establishments. ❖ To acquaint with importance of various foods and nutrients in human nutrition. ❖ To develop a knowledge base in Key areas of Institutional Food Administration. | | |
| CREDITS – 4 | CORE | |
| MAX. MARKS : 100 25 + 75 | Min. PASSING MARKS : | |
| TOTAL NO. OF LECTURES – 60 | | |
| UNIT | TOPIC | No. OF LECTURES |
| I | <ul style="list-style-type: none"> ❖ Recommended dietary allowances meaning, Importance, uses and basis for the ICMR dietary allowances guidelines, Reference man and Reference women ❖ NUTRIENTS : MICRO AND MACRO ❖ CARBOHYDRATES: Sources, classification, function, deficiency diseases, brief idea about Metabolism of Glucose, elementary idea about Glycolysis, Gluconeogenesis and Glycemic Index of Food, Elementary idea of regulation of Blood Sugar Level. ❖ PROTIENS: Sources, classification, function, deficiency diseases, protein digestion and elementary idea about meaning and assessment of protein quality ❖ LIPIDS: Sources, classification, function, deficiency diseases and digestion of fat ,brief idea about saturated and polyunsaturated fatty acids | 35 |

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| | <ul style="list-style-type: none"> ❖ VITAMINS and MINERALS: sources, classification, functions, deficiencies and toxicity, Trace minerals: Iron and Zinc, Major Elements – Calcium, Phosphorus, Zinc, Iodine. ❖ DIETARY FIBER: Sources and Nutritional significance | |
| II | <ul style="list-style-type: none"> ❖ FOOD PREPARATION: Methods and their effects on Nutritional values of food and prevention of nutrient losses during cooking, enhancement of nutritional value during cooking ❖ Meal planning: Principles involved in planning Menus | 5 |
| III | <ul style="list-style-type: none"> ❖ Concept and definition of catering services in various institutions ❖ Types of Food services-Hospital, schools, industrial canteens, travel catering etc | 9 |
| IV | <ul style="list-style-type: none"> ❖ Type of Menu-Cyclic, Ala-a-Carte, Table-d-hote, Buffet etc ❖ Serving meals for large groups and its management-Hostel, Canteen, Hospital, Railways and Airlines, ships etc | 11 |

SUGGESTED READINGS :

1. Text book of Human Nutrition : Banji, Rao & Reddy
2. Essential of Food & Nutrition : M. Sevaminathan
3. Advanced Text book on Foods & Nutrition Vol-I & II : M. Swaminathan
4. Normal & Therapeutic Nutrition : Proudfit & Fobeaon
5. Catering Management ; An Integrated approach : Sethi M. Malhans S (1993)
6. Applied Nutrition : R. Rajlaxmi
7. Food Science and Nutrition, Sunetra Roday, II Edition Oxford University Press
8. Mahan L.K. & Ecott-Stump, S. (2000): Krause's Food Nutrition and Diet Therapy, 10th Edition W.B. Saunders Ltd.

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M.A.I SEMESTER-I HOME SCIENCE
PAPER II (Core)
Fashion Design and Traditional Textiles (Theory)

| Programme :M.A. | Year-I | Semester-I |
|--|---|---|
| Subject: Home Science | | |
| Course Code: A130702T | Course Title: Fashion Design and Traditional Textiles | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> • Students will gain knowledge of types of Designs, Elements and Principles of Designs and their application to Fashion Design • Students will develop understanding regarding fashion, its movement and consumer behaviour. • Students will be able to appreciate traditional textiles and embroideries of India viz a viz their material, colour, textures and motifs. | | |
| Credits :4 | Core | |
| Max. Marks: 25+75 | Min. Passing Marks: | |
| Total No. of Lectures-60 | | |
| Units | Topic | No. of Lectures |
| I | <u>Design analysis with respect to fashion and textile design</u> <ul style="list-style-type: none"> ❖ Designs: structural, decorative, abstract ❖ Introduction to applied art <ul style="list-style-type: none"> • Elements of design • Principles of design | 15 |
| II | <u>Introduction to fashion</u> <ul style="list-style-type: none"> ❖ Fashion: Terminology, characteristics, contrastwith customs and role in modern society ❖ Theories of Fashion adoption ❖ Fashion cycle ❖ Factors influencing fashion | 10 |
| | <u>Introduction to traditional Indian textiles</u> <ul style="list-style-type: none"> ❖ Bengal textiles: Dhaka Muslins,Baluchari and Jamdani ❖ Kashmir shawls ❖ Textiles from Madhya Pradesh:Chanderi and Maheshwari ❖ Brocades:Banaras Brocades, Brocades of Aurangabad, Brocades of Gujarat ❖ Resist dyed textiles: <ul style="list-style-type: none"> • Yarn dyed textiles :Patolas of Gujarat |  |

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| III | <p>,Ikat Textiles of Orissa, Pochampalli of Telangana</p> <ul style="list-style-type: none"> • Fabric dyed textiles: Tie and Dye of Rajasthan and Gujarat. ❖ Traditional printed and painted textiles of India <p>Study of above traditional textiles with emphasis to texture, design, and colour</p> | 18 |
| IV | <p>Introduction to traditional Indian embroideries</p> <ul style="list-style-type: none"> ❖ Embroideries of Uttar Pradesh: Chikankari and Zardozi ❖ Kasuti of Karnataka ❖ Phulkari of Punjab ❖ Kashida of Kashmir ❖ Kantha of Bengal ❖ Embroideries of Gujarat :Kutch,Kathiyawad, and Sindh ❖ Embroidery of Himachal Pradesh: ChambaRumal ❖ Embroidery of Manipur ❖ Embroideries of Bihar: Sujini and khatwa(patch and applique work) <p>Study of above traditional embroideries with emphasis to fabric, threads, motifs and colour.</p> | 17 |

Suggested Readings:

- Vaibhav Dhange , Elements and Principles of fashion design (for beginners),Lambert Academic publishing
- Sumathi G J, Elements of fashion and apparel design , New Age International Publishers
- Santosh Bataliya (2002), Bharat ki Paramparagat kasidakari, Traditional Embroidery of India, Madhya Pradesh Hindi Granth Academy,
- ShailjaD.Naik, Traditional Embroideries of India, South Asia Books.
- Anjali Karolia, Traditional Indian Handcrafted Textiles, Niyogi books Pvt. Ltd.
- Martandsingh, Handcrafted Indian Textiles, Lustre
- John Gillow, Indian textiles ,Om books International
- Minakshi Prakash, Fashion Theory, Lord Publishing House
- Suggested Digital Platforms ,web Links-
 - www.textilelearner.blogspot.com
 - www.slideshare.net/MohaddesaDehghani/fashion-terminology
 - www.slideplayer.com/slide/4888082
 - www.braincraft.com/article/theories of fashion_35653

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M.A I Semester I Home Science
Paper - III (Core)
Community Development and Extension Management

| Programme/Class: Certificate | Year: 1 | Semester: I |
|---|--|--------------------|
| Subject: Home Science | | |
| Course Code: A130703T | Course Title: Community Development and Extension Management | |
| <p>Course Outcomes: The student at the completion of the course will be able to:</p> <ul style="list-style-type: none"> ❖ Understand the role of community development programme ❖ To be aware of the approaches to development ❖ To creat awareness about welfare programmes | | |
| Credits: 4 | | Core |
| Max. Marks: 25+75 | | Min. Passing Marks |
| Total No. of Lectures-60 | | |
| Units | Topic | No. of Lectures |
| I | <p>Extension Teaching - learning and training</p> <ul style="list-style-type: none"> ❖ Methods and Process ❖ Steps in Extension teaching methods ❖ Teaching aids - Types, Characteristics and function ❖ Role of media in the process of learning ❖ Extension learning - Definition and importance, Types of training | 15 |
| II | <p>Extension System</p> <ul style="list-style-type: none"> ❖ Outline of National Extension system in India ❖ Welfare Programmes SHG, CARE, CHETNA, SEWA, Beti Bachao Beti Padhao, Ujjawla Yojna, STEP, Swach Bharat Abhiyan, Kaushal Vikas Yojna, Pradhan Mantritva Vandana Yojna. | 15 |
| III | <p>Community Development</p> <ul style="list-style-type: none"> ❖ Definition, concept, principles and organization of community development ❖ Types of community ❖ Community development programmes in India ❖ | 15 |

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| IV | <p>Concept of extension management</p> <ul style="list-style-type: none"> ❖ Definition, nature, principles, importance, scope and need ❖ Difference between extension education and extension management ❖ Models of extension management ❖ Leadership-Concept and definition ❖ Types of leadership and qualities of a leader | 15 |
| <p>Suggested Readings:</p> <ul style="list-style-type: none"> ❖ B.K. Chaubey (1990) A Hand book of Extension Education, Jyoti Publication, Allahabad. ❖ Brinda Singh, Prasar Shiksha, Panchsheel Prakashan Jaipur ❖ Dr. P.N. Kalta, Prasar Shiksha Ke Naye Ayam (2005), Rajasthan Hindi Granth Academy, Jaipur. ❖ Kumar, Band Kashyap, S.K. 2007, Management of Training Institute. | | |

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**M.A. (Home Science)
SEMESTER-I
PAPER – IV (CORE)
RESEARCH METHODOLOGY**

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| PROGRAMME/ CLASS : P.G. / M.A. | YE R – 1 | SEMESTER-I |
| SUBJECT – HOME SCIENCE | | |
| COURSE CODE : A130704T | COURSE TITLE : RESEARCH METHODOLOGY | PAPER - IV |
| COURSE OUTCOMES: | | |
| This course will enable the students to – | | |
| <ul style="list-style-type: none"> ❖ To understand the significance of research methodology in Home Science ❖ To understand the types, tools and methods of research ❖ To develop the ability to construct data gathering instruments of the research design. | | |
| CREDITS – 4 | CORE | |
| MAX. MARKS : 100 25 + 75 | | |
| TOTAL NO. OF LECTURES – 60 | | |
| UNIT | TOPIC | No. OF LECTURES |
| I | <ul style="list-style-type: none"> ❖ Definition & meaning and importance of research, its nature and scope. ❖ Characteristics of Scientific research ❖ Steps in Research ❖ Basic principal of research design ❖ Recent trends in research in Home - Science | 15 |
| II | <ul style="list-style-type: none"> ❖ Research methods & procedures/ Types of research, characteristics, advantages and disadvantages of research. ❖ Historical Research ❖ Descriptive Research ❖ Experimental Research ❖ Survey research ❖ Field Research ❖ Reliability and Validity test – meaning and types | 25 |
| III | <ul style="list-style-type: none"> ❖ Research Problem ❖ Definition, importance, source and types of research problem | 10 |
| IV | <ul style="list-style-type: none"> ❖ Hypothesis – Definition, importance and types of hypothesis testing of hypothesis – Type I and Type II errors, level of significance. | 10 |

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SUGGESTED READINGS :

1. Bhandarkar, P.L. and Wilkinson T.S. (2000): Methodology and Techniques of Social Research Himalaya Publishing House, Mumbai.
2. Bhatnagar, G.L. (1990) : Research Methods and Measurements in Behavioural and Social Sciences, Agri, Cole Publishing Academy, New Delhi
3. Gay, L.R. (1981, 2nd Ed): Educational Research, Charles, E. Merrill, Columbus, Ohio
4. Mukherjee, R. (1989): The Quality of Life: Valuation in Social Research Saga Publications, New Delhi.
5. Research Methods in Behavioral Science, Kapil H.K.
6. Foundatin of Behavioral, Karlinger F.N. Research
7. Anusandhaan Parichay, Paras Nath Rai
8. Educational Research Methods, Sareen & Sareen
9. Anusandhaan Vidhiyan, Srivastava, D.N.

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M.A. I SEMESTER -I HOME SCIENCE
PAPER V (Core)
Design Ideals for Sketching and Traditional Textiles
+
Extension Education
(Practical)

| Programme :M.A. | Year-I | Semester-I |
|--|---|---------------------|
| Subject: Home Science | | |
| Course Code: A130705P | Course Title: Practical | |
| Course Outcomes: <ul style="list-style-type: none"> • Students will learn to apply design ideals to fashion sketching. • Students will be able to drape the desired idea of their design on to Croqui/fashion figure. • Students will learn the creative art of Embroidery. • Students will learn various Embroidery stitches used in traditional Embroideries. • Students will learn to apply Indian Traditional designs and motifs to contemporary design. • Student will have an experience of being an Extension Worker. | | |
| Credits : 4(3+1) | Core | |
| Max. Marks: 25+75 | Min. Passing Marks: | |
| Total No. of Lab. Periods-60 (120 hours) | | |
| Units | Topic | No. of Lab. Periods |
| I | <u>Design ideals for fashion Sketching</u> i. Basics of colour <ul style="list-style-type: none"> • Hue • Colour wheel • Value Chart • Intensity Chart ii. Grey scale | 05 |
| II | Application of Elements of Art in Fashion Designing i. Dressing up of Croquis in sketch file using <ul style="list-style-type: none"> • Various lines • Various colour schemes • Various silhouettes ii. Collecting samples of various fabric textures and preparing a “texture Sheet” iii. Collecting various trimmings for making “Trimming sheet” | 15 |

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| III | <p>Application of Principles of Art in Fashion Designing</p> <p>i. Dressing up of Croquis in sketch file using</p> <ul style="list-style-type: none"> • Proportion • Balance • Rhythm • Emphasis • Harmony | 05 |
| IV | <p><u>Traditional Indian Embroideries and Textiles</u></p> <p>i. Make hand embroidered samples of each Traditional Indian embroidery</p> <p>ii. Collect samples of Traditional Indian Textiles</p> <p>iii. Make a file of Designs & Samples of Traditional Textiles and Embroideries.</p> | 20 |
| V | <p><u>Extension Education</u></p> <p>i. Preparation of Teaching aid on any current social issue for spreading awareness in community</p> <p>ii. Visit to nearby slum area with an objective to study the problems faced by slum dwellers (using Survey method)</p> <p>iii. Preparation of report based on the survey conducted.</p> | 15 |

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| M.A. (HOME SCIENCE) SEMESTER - II PAPER – II (CORE) THERAPEUTIC MANAGEMENT AND COMUNITY NUTRITION | | |
|--|--|----------------------------|
| PROGRAMME/ CLASS: P.G. / M.A. | YEAR – 1 | SEMESTER- II |
| SUBJECT – HOME SCIENCE | | |
| COURSE CODE : A130801T | COURSE TITLE : THERAPEUTIC MANAGEMENT AND COMUNITY NUTRITION | PAPER - I |
| COURSE OUTCOMES: This course will enable the students to – <ul style="list-style-type: none"> ❖ Understand the principle of diet therapy. ❖ Understand the modification of normal diet for therapeutic purposes ❖ Understand the dietary modifications for various disease conditions ❖ Understand the concept and methods of community nutrition. | | |
| CREDITS – 4 | CORE | |
| MAX. MARKS : 100 25 + 75 | | |
| TOTAL NO. OF LECTURES – 60 | | |
| UNIT | TOPIC | No. OF LECTURES |
| I | <ul style="list-style-type: none"> ❖ Basic concepts, objectives and scope of therapeutic diets ❖ Adaptation of Normal diets for therapeutic purposes-Liquid, Soft, full fluid, clear fluid diet, bland diet ❖ Various Nutritional support to patients -Oral feeding, tube feeding etc | 10 |
| II | <ul style="list-style-type: none"> ❖ Etiology, Causative Factors, preventive measures and planning of diets in ❖ Febrile conditions - Acute fever ,T.B, Typhoid ❖ G.I. disorders -Diarrhoea, Constipation, peptic ulcer ❖ Liver diseases-Liver cirrhosis, jaundice ❖ Kidney diseases Acute and chronic Nephritis ❖ Diabetes Mellitus classification, symptoms, metabolic changes and dietary management ❖ Diet in Coronary Heart disease, Hypertension ❖ Diet in cancer, thyroid problems, Anaemia ❖ Diet in post operative cases | 35 |

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| III | <ul style="list-style-type: none"> ❖ Assessment of the Nutritional status of the community: Anthropometric, Biochemical n biophysical investigations, Clinical examination, Dietary surveys ❖ The study of Vital statics | 10 |
| IV | <ul style="list-style-type: none"> ❖ Methods n aids in Imparting Nutrition Education ❖ calculation, cooking and dietary counselling for various diseases ❖ Febrile Conditions – High Calorie, High Protein diet. ❖ Gastro Intestinal Disorders – Soft and Low Fiber Diet ❖ Kidney Diseases – Low Sodium, Low Protein Diet. ❖ Diabetes Mellitus – Low carbohydrate, Moderate Protein diet. ❖ Post Surgery diet – High protein, vitamin – C and Iron rich diets. | 5 |
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SUGGESTED READINGS :

1. Robinson & Lawler : Normal & Therapeutic Nutrition
2. Capalan Cetal : Nutrition Value of Indian Food
3. Bakshi B.K. : Upchararth Aahaar aur Samudayik Poshan
4. Antia : Clinical Dietatics & Nutrition
5. Mahan, L.K. and Escott-Stump. S. (2000): Krause's Food Nutrition and Diet Thepapy, 10th Edition, W.B. Saunders Ltd.
6. Williams, S.R. (1993): Nutrition and Diet Therapy, 7th Edition, Times Mirror/ Mosby College Publishing.
7. Davis, J. and Sherer, K. (1994): Applied Nutrition and Diet Therapy for Nurses, 2nd Edition W.B. Saunders Co.
8. Fauci, S.A. et al (1998) : Harrioson's Principles of Internal Mdecine, 14th Edition, McGraw Hill

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MA- I (II Semester)
ADVANCED RESOURCE MANAGEMENT AND INTERIOR DESIGN
Paper – II CORE (Theory)

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|---|--|-----------------------|
| Programme/Class: | Year: I | Semester: II |
| Subject: Home Science | | |
| Course Code: A130802T | Course Title: Advanced Resource Management and Interior Design | |
| Course outcomes : <ul style="list-style-type: none"> • To increase the awareness and importance of resources • To develop the ability to evaluate the management system in family • Understand the Decision making and use of resources throughout the Family life cycle • To plan furniture arrangement and colour schemes for different rooms. • To orient the students towards current trends in furnishing material, furniture, flooring & curtain etc. | | |
| Credits: 4 | Core Compulsory | |
| Max. Marks: 25 + 75 | Min. Passing Marks: 40 | |
| Total No. of Lectures- 60 | | |
| Unit | Topic | No. of Lecture |
| I | Home management <ol style="list-style-type: none"> a. Definition and philosophy of home management b. Role of home management in family living history and development of home management in India c. Elements involved in management process and decision making d. Classification of resources, factors affecting their uses e. Motivation theories – Maslow’s theory, Herzberg’s theory | 15 |
| II | Waste and natural resources management <ol style="list-style-type: none"> a. Definition of natural resources b. Forest, air , water, and water harvesting , municipal solid waste management c. Concept of sustainable development d. Sustainable development goals (SDGs) Meaning and Sources of conventional and non-conventional energy  | 15 |

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| III | Interior design <ol style="list-style-type: none"> a. Elements of art and principles of design with reference to interior designing b. Importance and classification of colours according to prang c. Colour scheme and psychological effects of colours <p style="text-align: center;">Accessories in interior designing</p> | 15 |
| IV | Furniture and furnishing <ol style="list-style-type: none"> a. Type of furniture b. Contemporary trends in furniture c. Wall and floor finishing d. Window and window treatments e. Fixture and lightings | 15 |

Suggested readings :

- Koontz.H. and O'Donnel C., 2005, Management – A systems and contingency analysis of managerial functions. New York: McGraw-Hill Book Company
- Rao V.S. and Narayana P.S., Principles and Practices of Management, 2007, Konark Publishers Pvt. Ltd.
- Adler, David. 2004, Metric Hand Book planning & Design, Architectural press.
- Deacon R.E. and Firebaugh F.M. (1998) Family Resource Management-Principles and application. N. Delhi.: Roy Houghton Mifflin Company.
- Gross, I.H. and Crandall, E.H. (1967). Management for Modern Families. N. Delhi: Sterling Publishers Ltd?
- Moorthy G. (Ed.). (1985). Home Management. N. Delhi.: Arya Publishers,
- Lawrence M, (1987), Interior Decoration, New Jersey: Chartwell Books.
- Riley & Bayen., (2003), The Elements of Design, Mitchell Beazley
- Nickell, P., and Dorsey, J, M. (2002). Management in Family Living. New Delhi: CBS Publishers (ISBN13: 9788123908519)
- Patni Manju & Sharma Lalita, Grah Prabandh, Star Publications Agra.
- Varma , Pramila. Vastra Vigyaan Avam Paridhan:Madhya Pradesh Hindi Granth Academy,Bhopal.
- Varghese, M. A, Ogale, N. N and Srinivasan, K. (2001). Home Management. New Delhi. New Age International (P) Ltd.
- Halse Alvert O. (1978), The Use of Color in Interior (2nd Ed.), McGraw Hill books Comp. Ltd., New York.
- Rutt, Anna Hong (1949), Home Furnishing, John Willey and Sons Inc., New York.
- Gandotra, V.; Shukul, M. and Jaiswal, N. (2010), Introduction to Interior design
- Seetharaman P, and Pannu, P (2005), Interior Design & Decoration, CBS Publishers & Distribution, New Delhi.

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MA-I (II Semester)
HUMAN DEVELOPMENT AND BEHAVIORAL THEORIES
Paper- III Core (Theory)

| | | |
|--|---|------------------------|
| Programme/Class: PG/M.A | Year :01 | Semester: II |
| Course Code : A130803T | Course Title: Human Development and Behavioral Theories | |
| Course Outcomes: <ul style="list-style-type: none"> ❖ To undertake study of the stages in human development with specific focus on prenatal development in childhood. ❖ To understand and demonstrate the basics of knowledge relating to human development. ❖ To provide an understanding of various theories of human development. | | |
| Credits : 04 | Core Compulsory | |
| Max. Marks: 25+75 | Min. Passing Marks: | |
| Total No. of Lectures-60 | | |
| Units | Topic | No. of Lectures |
| I | Human Development <ul style="list-style-type: none"> ❖ Concept, need, principles of growth and development, Nature Vs Nurture issues. ❖ Prenatal development: conception , stages of Prenatal Development ❖ Factor affecting prenatal development, hazards and complications during pregnancy. ❖ Birth process and types of birth. | 15 |
| II | Infancy <ul style="list-style-type: none"> ❖ Physical and motor development. ❖ Social and emotional development ❖ Language development. ❖ Factors affecting Physical, Motor, Social, Emotional and language development. <div style="text-align: right; margin-top: 10px;"><i>Aubna</i></div> | 15 |

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| III | Early and Middle Childhood <ul style="list-style-type: none"> ❖ Physical and motor development. ❖ Social and emotional development. ❖ Language development. ❖ Factors affecting Physical, Social, Emotional and language development. | 15 |
| IV | Introduction to theories of Human Development <ul style="list-style-type: none"> ❖ Cognitive development theory of Piaget. ❖ Psycho analytical theory of Freud. ❖ Psycho social theory of Erikson. ❖ Social learning theory by Albert Bandura. | 15 |

Suggested readings:

- Atchley Robers. C (2001) Continuity and adaptation in aging: Creating positive experiences.
- Baars et al. (2006). Aging globalization and inequality: The new critical gerontology.
- Broderick. P.C (2003). The life span, Human Development. for helping professionals.
- Oray. M.G (1992). Aging health and behaviour. Sage publications
- Kumudini Dandekar (1996). The elderly in India. A Sage publications
- Moody, Harry. R. (2002). Aging: concepts and controversies, 4th Edn.
- The Psychology of later life: L.R.Aiken, WB Saunders Company. Philadelphia,
- Aged: Their Understanding & Care: Klaus Bergramann, London Wolfe Publications. London
- Handbook of ageing & Social Sciences: R.H. Binstock & E. Shanes, V.N. Reinhold, Co.New York
- Old age in a changing society: ZanaSmith, Blau, New View prints. New York
- Ageing in India: Problems and potentialities: A.B.Bose, & K.D Gangrade Abhinav Publications,

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M.A.I Semester-II Home Science
Paper IVA (Elective)
Social and Psychological Aspect of Clothing(Theory)


| Programme :M.A. | Year-I | Semester-II |
|--|--|--------------------|
| Subject: Home Science | | |
| Course Code: A130804T | Course Title: Social and Psychological Aspect of Clothing | |
| <p>Course Outcomes:</p> <ul style="list-style-type: none"> • Students will be able to understand the origin of clothing. • Students will be aware about clothing culture. • Students will be able to get basic insight of Social & Psychological aspects of clothing and fashion • Students will be able to relate Personality Theories with Clothing preferences. | | |
| Credits :4 | Elective | |
| Max. Marks: 25+75 | Min. Passing Marks: | |
| Total No. of Lectures-60 | | |
| Units | Topic | No. of Lectures |
| I | <u>Origin of clothing</u> Theories of clothing- modesty, Immodesty, Protection, Adornment, combined need theory | 05 |
| II | <u>Clothing and world</u> <ul style="list-style-type: none"> ❖ Why costumes differ all over the world,material aspect and climate. ❖ Cultural Influence ❖ Events of the world ❖ Clothing symbols | 20 |
| III | <u>Socialisation and development of the self and their impact on clothing</u> <ul style="list-style-type: none"> ❖ Social norms ❖ Attitudes and value formation ❖ Individuality and conformity ❖ Person and group identification | 20 |
| IV | <u>Personality Theories</u> <ul style="list-style-type: none"> ❖ Sigmund-freud :Defence mechanisms ❖ Jung theory of Personality ❖ Murray Theory of Personality <div style="text-align: right; margin-top: 20px;"><i>Aubra</i></div> | 15 |

Suggested Readings:

- Horn, Marilyn,J. (1998) The Second Skin ,Houghton MifflinCo.,USA.
- Kaiser,S.B. ,(1985) The social Psychology of Clothing, MacMillan, New York.
- Avis, M. Dry.,(1961)The Psychology of jung ,Methuen & Co.,London.
- Flugel, J.C.,(1950) The Psycho-analytical study of the family , The Hograth Press & The Institute of Psycho Analysis, London.
- Kefgen, M.,&Touchie S.P.,(1986) Individuality in clothing selection and personal appearance ,4th (Ed.) A Guide for the consumer. The Macmillan Company , New York.
- Lidell , L.A.,(1981) Clothes and your Apperance , The Good Heart will Cox, Illinos.

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M.A. I Semester II Home Science
Paper - IV (Elective)
Gender Sensitization for Women Empowerment

| Programme/Class: Certificate | | Year: I | Semester: II |
|---|---|---|---------------------|
| Subject: Home Science | | | |
| Course Code: A130805T | | Course Title: Gender Sensitization for Women Empowerment | |
| <p>Course Outcomes: The student at the completion of the course will be able to:</p> <ul style="list-style-type: none"> ❖ To get sensitized to gender disparities and problems of women ❖ To understand the concept of need relevance and dimensions of gender Empowerment. ❖ To understand the efforts at different levels for empowering women. | | | |
| Credits: 4 | | Elective | |
| Max. Marks: 25+75 | | Min. Passing Marks: | |
| Total No. of Lectures-60 | | | |
| Units | Topic | | No. of Lectures |
| I | Gender- Gender role perceptions <ul style="list-style-type: none"> ❖ Concept, definition, difference between gender and sex, changing trends ❖ Gender Stereotype ❖ Gender main streaming ❖ Gender sensitization-concept and methods | | 12 |
| II | Gender Empowerment <ul style="list-style-type: none"> ❖ History of Women Empowerment ❖ Gender analysis matrix ❖ Situation Analysis and other methods ❖ Reproductive Health Index, Human development | | 15 |
| III | Policies and Programmes for Women Development <ul style="list-style-type: none"> ❖ National and International policies for Women Empowerment ❖ Economic empowerment ❖ Social empowerment ❖ Legal empowerment <div style="text-align: right; margin-top: 20px;"></div> | | 18 |

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| IV | Development of Women Entrepreneurship <ul style="list-style-type: none"> ❖ Definition, meaning, Importance, scope and process of entrepreneurship ❖ Types and function of entrepreneurship ❖ Sources of Financial Institution for funding to start entrepreneurship | 15 |
| Suggested Readings: <ul style="list-style-type: none"> ❖ Stree shahktikaran K aham-Kavita sharma-Rajat ❖ Akhauri MMP: 1990, Entrepreneurship for women in India, NIESBUD, New Delhi. ❖ Patel V. Women Enterpreneurship, Ahmdabad | | |

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| <p>PRACTICAL-Course Code: A130806P</p> <ul style="list-style-type: none"> ❖ calculation, cooking and dietary counselling for various diseases ❖ Febrile Conditions – High Calorie, High Protein diet. ❖ Gastro Intestinal Disorders – Soft and Low Fiber Diet ❖ Kidney Diseases – Low Sodium, Low Protein Diet. ❖ Diabetes Mellitus – Low carbohydrate, Moderate Protein diet. ❖ Post Surgery diet – High protein, vitamin – C and Iron rich diets. |
| One out of the following :- <ul style="list-style-type: none"> ❖ Report on housing finance agencies ❖ Report on space saving furniture ❖ Report on housing construction problem in urban area |

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| <u>PROJECT</u>-Course Code:: A130807R | RESEARCH PROJECT |
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M.A. II Semester-III HomeScience
Paper-I (Core)
Family Clothing and Apparel Construction (Theory)

| | | |
|---|--|------------------------|
| Programme :M.A. | Year-II | Semester-III |
| Subject: Home Science | | |
| Course Code: A130901T | Course Title: Family Clothing and Apparel Construction (Theory) | |
| <p>Course Outcomes:</p> <ul style="list-style-type: none"> • Students will learn all the factors affecting choice of family clothing. • Students will be able to plan wardrobe for the family • Students will gain Knowledge of different techniques of pattern making, their uses and application • Students will understand the importance of Fitting and gain knowledge of pattern alteration to attain good fit in garments. • Students will learn types, uses and importance of Layout. | | |
| Credits :4 | Core | |
| Max. Marks: 25+75 | Min. Passing Marks: | |
| Total No. of Lectures-60 | | |
| Units | Topic | No. of Lectures |
| I | <u>Family Clothing</u> <ul style="list-style-type: none"> ❖ Factors affecting family clothing Wardrobe planning for the family | 20 |
| II | <u>Principles of Apparel Construction</u> <ul style="list-style-type: none"> ❖ Body measurements-Procedure, need, figure types and Anthropometry. ❖ Drafting ❖ Flat paper pattern ❖ Draping | 20 |
| III | <u>Fitting</u> Principles , common fitting problems for different figure types, their rectifications with special reference to <ul style="list-style-type: none"> ❖ Short figures ❖ Thin figures ❖ Large and flat chest ❖ Flat and large hips ❖ Broad and narrow shoulders ❖ Long, short and thick necks | 10 |

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| IV | <u>Layout Planning</u> <ul style="list-style-type: none"> ❖ Preparation of fabric for garment making ❖ Definition and types of layout ❖ Calculation and estimation of fabric for garment construction | 10 |
| <p>Suggested Reading:</p> <ul style="list-style-type: none"> ➤ Helen Joseph Armstrong ,1987:Pattern Making for FashionDesign ➤ Francesca Sterlacci: Pattern Making- Technique for Beginners, Laurence King Publishing. ➤ Danilo Attardi : fashion Draping Techniques(vol.1), Hoaki ➤ AllyneBane: Pattern Design, McGraw- Hill Inc.,U.S. ➤ Natalie Bray : Dress fitting -Basic Principles and practice , Wiley Blackwell Publishing ➤ Erwin ,Mabel D. : Practical Dress Design -Principles of Fitting and Pattern Making, Macmillan,New York ➤ Mildred T. Tate, O. Glisson: Family clothing, John Wiley & Sons Inc. ➤ Mc Call and Marian Corey :Complete Book of Dressmaking , Greystone Press ➤ Jennifer LyneMathews- Fairbanks: Pattern Design-fundamentals – construction and pattern making for fashion design, Fairbanks publishing. <p>Suggested Digital Platforms, Web Links.</p> <ul style="list-style-type: none"> • How patterns work- The fundamental Principles of Pattern Making and Sewing in Fashion Design by Assembil_Scribd. • https://www.brainkart.com Pattern Layout and types of Pattern layout-fabric preparation for sewing - Brainkart. | | |

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**M.A. (HOME SCIENCE)
SEMESTER - III
PAPER – II (CORE)
FOOD SCIENCE AND QUALITY CONTROL**

YEAR –II

Subject – Home Science

**Course Code :
A130902T**

Course Title : Food Science And Quality Control

COURSE OUTCOMES:

- ❖ The students will learn about various tests and standards for quality assessment and food safety.
- ❖ Will make the students aware about the various tests used to detect food adulterants

CREDITS – 4

CORE

MAX. MARKS : 100

25 + 75

TOTAL NO. OF LECTURES – 60

TOPIC

- ❖ Introduction to food Science: constituents for foods-General, physical chemical properties; colloidal systems, gels, emulsions
- ❖ Enzymes: importance of enzymes and their applications in food industry.

- ❖ Food fortification and food supplements
- ❖ Food pigments and additives.
- ❖ Food adulteration: Definition, common adulterates and simple method of Detection.
- ❖ Food packaging materials and food labeling.
- ❖ Leaving agents.
- ❖ Food Laws
- ❖ Immunity Enhancing Foods
- ❖ Immunity Enhancing Foods

- ❖ Evaluation of food
- ❖ Sensory Evaluation: definition 5 point scale and factor affecting food acceptance.
- ❖ Different type of test for food evaluation-Difference test, triangle test, duo test, trio test.

- ❖ Hazards to food products-Microbiological, environmental, natural, toxicants, pesticides and food additives.



SUGGESTED READINGS :

1. Potter, N.N. (1996), Food Science, the AVI Publishing Company Inc., Westport Connecticut.
2. Jellinek, G. ((1985), Sensory Evaluation of Foods: Theory and Practice, Ellis Honwood Ltd. Chichester, England.
3. Manual of Food Standards and quality control (2014), Dept. of Foods and Nutrition, CCS HAU, Hisar.
4. Pomeranz, Y. and Meloan, C.E. (1996): Food Analysis: Theory and Pracice, CBS Publisher and Distributor, New Delhi.
5. Ranganna, S. (1986) : Handbook of Anayysis and Quality Controll for Fruit and Vegetable Products, 2nd Edition, Tata MC Graw Hill Publishing Co. Ltd., New Delhi
6. Hagstad, H.V. and Hubbert, W.T. (1986): Food Quality Control, Foods of Animal Origin, Iowa State University Press, AMES.

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| <p style="text-align: center;">M.A. (Home Science) SEMESTER-III PAPER – III (CORE) APPLICATION OF STATISTICS TO RESEARCH</p> | | |
|---|--|---------------------|
| PROGRAMME/ CLASS : P.G. / M.A. | YEAR – 1 | SEMESTER-III |
| SUBJECT – HOME SCIENCE | | |
| COURSE CODE : A130903T | COURSE TITLE : APPLICATION OF STATISTICS TO RESEARCH | PAPER - III |
| <p>COURSE OUTCOMES:</p> <ul style="list-style-type: none"> ❖ Will develop the ability to construct data gathering instruments of the research design. ❖ Will be able analyse and interpret the data. ❖ Will be able to write research proposal. | | |
| CREDITS – 4 | CORE | |
| MAX. MARKS : 100 25 + 75 | | |
| TOTAL NO. OF LECTURES – 60 | | |
| UNIT | TOPIC | No. OF LECTURES |
| I | <ul style="list-style-type: none"> ❖ Variables – Meaning, types of variables dependent and independent variables. ❖ Sample and sampling technique <ul style="list-style-type: none"> a) What is a sample b) Sampling methods c) Advantages & limitations of sampling method. ❖ Probability and its concept, basic concept of probability | 7 |
| II | <ul style="list-style-type: none"> ❖ Data collection tools and techniques – <ol style="list-style-type: none"> 1. Observation 2. Interview method 3. Questionnaire method 4. Social Metric Techniques 5. Rating Scales 6. Psychological test – their meaning, characteristics and types. | 20 |
| III | <ul style="list-style-type: none"> ❖ Meaning and scope of statistics, role of statistics in research. ❖ Descriptive statistics, classification tabulation, frequency, distribution, diagrammatic and graphic representation of data. ❖ Measures of central tendency – mean, median mode ❖ Basic concepts of t-test, chi square test, coefficient correlation and its use in research | 25 |

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| IV | ❖ Analysis and interpretation of Data ❖ Report writing or how to write a research proposal. | 8 |
| SUGGESTED READINGS : <ol style="list-style-type: none">1. Doodley D. (1995) : Strategies for Interpreting Qualitative Data; Sage publications California2. Long J.S. (ED.)(1983) : Common Problems Proper Solutions : Avoiding Errors in Quantitative Research, Beverly Hills, Sage, Publications, California.3. Strauss, A. and Corbin, J (1990) : Basis of Qualitative Research : Grounded theory Procedure and Techniques, Sage Publications, California4. Educational Research Methods, Sareen & Sareen5. Anusandhaan Vidhiyan, Srivastava, D.N. | | |

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MA-II (III Semester)
EARLY CHILDHOOD CARE AND EDUCATION
Paper-IV ELECTIVE (A) (Theory)

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|--|---|------------------------|
| Programme/Class: PG/M.A | Year : II | Semester: III |
| Course Code : A130904T | | |
| Course Title: Early Childhood Care and Education | | |
| Course outcome:- | | |
| <ul style="list-style-type: none"> ❖ To realize the importance early years in life span development. ❖ Enabling students to understand the basic needs of ECCE. ❖ To understand thoughts of various thinkers of ECCE. ❖ To Study different methods of child study. | | |
| Credits : 04 | Elective (A) course | |
| Max. Marks: 25+75 | Min. Passing Marks: | |
| Total No. of Lectures-60 | | |
| Units | Topic | No. of Lectures |
| I | Early Childhood Care and Education (ECCE) <ul style="list-style-type: none"> • Concept, objective, need and scope of ECCE. • Basic principles of early childhood education. | 10 |
| II | Types of preschool <ul style="list-style-type: none"> • Play centers, Day Care, mobile creche, Montessori, Kindergarten, Anganwadi and Balwadi. • Different methods of child study • Importance of Play way method in ECCE. | 20 |
| III | Contribution of thinkers in ECCE <ul style="list-style-type: none"> • Maria Montessori &Rousseau. • Frobel &John Dewey • M.K. Gandhi • Rabindra Nath Tagore • Dayanand Saraswati | 15 |

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MA- II (III Semester)
CONSUMER ECONOMICS AND FINANCIAL MANAGEMENT
Paper IV- (Elective) B

| | | | |
|---|---|--|-----------------------|
| Programme/Class: Certificate | | Year: II | Semester: III |
| Subject: Home Science | | | |
| Course Code: A130905T | | Course Title: Consumer Economics and Financial Management | |
| Objectives: | | | |
| <ul style="list-style-type: none"> ➤ To understand the basic concepts of financial management. ➤ To train the students about their rights and responsibilities as consumer. | | | |
| Credits: 4 | | Core Compulsory: Elective- B | |
| Max. Marks: 25 + 75 | | Min. Passing Marks: 40 | |
| Total No. of Lectures- 60 | | | |
| Unit | Topic | | No. of Lecture |
| I | Consumer <ul style="list-style-type: none"> a. Definition and role of consumer b. Role of consumer economic c. Rights and responsibilities of consumer d. Characteristics and classification of wants e. Factors influencing consumer choice regarding customs, fashion, advertisement and variety of goods | | 15 |
| II | Consumer behaviour and problems <ul style="list-style-type: none"> a. Nature of consumer behaviour b. Factors influencing consumer behaviour c. Sources of consumer information d. Consumer problems and education e. e - business - definition advantages and disadvantage | | 15 |
| III | Consumer protection <ul style="list-style-type: none"> a. Consumer protection act 2019 b. quality control standardization ,grading, labelling c. Role of consumer organization - national and regional d. Advertisement | | 10 |

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| IV | Financial management and budget <ol style="list-style-type: none"> a. Concept , significance and Principles of Financial management b. Concept ,principle and types of budget c. Household Income – Types, Sources, Supplementation of family income d. Engels law of consumption | 10 |
| V | Saving and investment <ol style="list-style-type: none"> a. importance of saving components b. differentiate between saving and investment c. saving facilities and investment opportunities d. Role of credit finance | 10 |

SUGGESTED READINGS :

- Khanna S.R., Hanspal S., Kapoor S. &Awasthi H.K., 2007, Consumer Affairs, Universities Press India Pvt. Ltd.
- Sawhney, H.K. & Mital, M., 2007, Family Finance & Consumer Studies, Elite Publishing House Pvt. Ltd.
- Seetharaman, P. and Sethi, M., 2001, Consumerism: Strength and Tactics, New Delhi: CBS Publishers.
- Family Finance: H.F. Bigelow
- Elements of Modern Economics
- The Economics of Consumption: L.J. Garelen.
- Management for Modern Families: Gross and Crandall
- Home management and family finance :- Dr. Maneesha Shukul and Prof. Veena Gandotra
- Consumer Economics :- Dr. Saxena And Saxena
- k. Premovthy seetharman and Mohini Seth - Consumerism strategies and practices. Satya Sundaram - "Consumer protection in india

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M.A.II Semester-III Home Science
Paper-V (Core)
Practical (Garment Construction)

| Programme :M.A. | Year-II | Semester-III |
|---|---|----------------------------|
| Subject: Home Science | | |
| Course Code: A130906P | Course Title: Practical | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> • Students will gain proper understanding of basics of pattern making. <ul style="list-style-type: none"> • Students will develop basic stitching skills. • Students will apply their pattern making and stitching skills to create design variations and construct garments | | |
| Credits :4 | Core | |
| Max. Marks: 25+75 | Min. Passing Marks: | |
| Total No. of Lab. Periods -60 (120 hours) | | |
| Units | Topic | No. of Lab. Periods |
| I | Basic construction techniques (make samples) <ol style="list-style-type: none"> i. Seams ii. Methods of fullness control <ul style="list-style-type: none"> • Gathers • Pleats • Darts • Tucks iii. Neckline finishing iv. Placket finishing v. Collars-any five vi. Sleeves-any five vii. Different types of skirts viii. Yokes-Functional and non functional | 20 |
| II | Draftings <ol style="list-style-type: none"> i. Basic Child's Bodice Block and Sleeve Block ii. (Age 2years) iii. Adult's Bodice Block(with darts)and Sleeve Block iv. Blouse <ul style="list-style-type: none"> • Simple • With dart manipulation v. SalwarSuit/Pant Suit/PlazoSuit vi. Nighty/Gown | 20 |

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| III | Sessional work i. File:Drafting and Sample File ii. Stitching and finishing of Garments <ul style="list-style-type: none">• Nighty/Gown• Suit• Designer Blouse | 20 |
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MA-II (IV Semester)
ADVANCED HUMAN DEVELOPMENT
Paper-I Core (Theory)

| | | |
|---|--|-----------------------|
| Programme/Class: PG/M.A | Year : II | Semester: IV |
| Home Science | | |
| Course Code : A131001T | Course Title: Advanced Human Development | |
| Course Outcomes | | |
| <ul style="list-style-type: none"> ❖ To understand development in adolescence. ❖ To understand challenges faced by adults. ❖ To understand elderly problems and requirements. ❖ To understand meaning and scope of gerontology. | | |
| Credits : 04 | Core Compulsory | |
| Max. Marks: 25+75 | Min. Passing Marks: | |
| Total No. of Lectures-60 | | |
| UnitS | Topic | No. of Lecture |
| I | Adolescence: <ul style="list-style-type: none"> ❖ Physical development, Primary and Secondary sex characteristics. ❖ Social and Emotional development. ❖ Identify formation. ❖ Problems during adolescent. | 15 |
| II | Adulthood: <ul style="list-style-type: none"> ❖ Early Adulthood - Significance of the period, change in responsibilities and adjustment. ❖ Middle Adulthood – Physical changes , Changing role in the family ❖ Late Adulthood - Change in Personality and Social relationship, Health and Disease. | 15 |
| III | Gerontology <ul style="list-style-type: none"> ❖ Concept, Need and importance of gerontology. ❖ Demographic trends in India. ❖ Emergence and scope of gerontology and elderly care. <div style="text-align: right; margin-top: 10px;">  </div> | 15 |

| | | |
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| IV | Problems of Aging <ul style="list-style-type: none"> ❖ Physiological and psychological. ❖ Social and Economic aspects of security. ❖ Malnutrition in elderly. | 15 |
| <p>Suggested readings:</p> <ul style="list-style-type: none"> ❖ Psychology of Adolescent- S.S. Chauhan , Allied publishers private limited, New Delhi. ❖ Adolescent Development –D.E.Balk, Brooks/ Cole, New York. ❖ The Life span ,Human Development for helping professionals ;Broderick.P.C.(2003). ❖ Identity: Youth and crisis-E.H.Erikson,Faber&Faber,London. ❖ Identity & Adulthood-S.Kakar-Oxford University Press. ❖ Invisible Boundaries:Grooming for adult roles-T.S. Saraswathi & R.Dutta-Northern Book Centre. ❖ Encyclopedia of Child Development-Anmol Publications,New Delhi. ❖ Baars et al.(2006).Aging globalization and inequality:The new critical gerontology. ❖ Broderick.P.C.(2003).The life span,Human development for helping professionals. ❖ Oray.M.G.(1992).Aging health and behavior.Sage publications. ❖ Kumudini Dandekar(1996).The elderly in India.Sage publications. ❖ The Psychology of later life:L.R.Aiken,WB Saunders Company.Philadelphia. ❖ Aged:Their Understanding & Care:Klaus Bergmann,London Wolfe Publications.London. | | |

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M.A. II (IV Semester)
ADVANCED HOUSING AND ERGONOMICS
Paper-II Core (Theory)

| | | |
|---|--|-----------------------|
| Programme/Class: | Year: II | Semester: IV |
| Subject: Home Science | | |
| Course Code: A131002T | Course Title: Advanced Housing and Ergonomics | |
| Course outcomes : <ul style="list-style-type: none"> • To Understand the fundamentals of house planning & awareness of financial agencies • To make students aware about space planning basic zones of house • To make students aware about basic knowledge of ergonomics | | |
| Credits: 4 | Core Compulsory | |
| Max. Marks: 25 + 75 | Min. Passing Marks: 40 | |
| Total No. of Lectures- 60 | | |
| Unit | Topic | No. of Lecture |
| I | Housing Need -protective, Economic, Psychological and Social • Type and principle of house planning • Factor affecting house planning • Present housing constructions in urban and rural areas | 13 |
| II | Housing construction and financial agencies Meaning importance and type of housing finance-Home Expansion/Improvement • Financial agencies- LIC, Co-Operative Societies, HUDCO. • Building material used in construction of a house. • Architectural symbols • Building bye laws | 17 |
| III | Space planning in basics zone of house • Definition need and principle of space planning • Architectural and interior space. • Common blueprint symbols • Living zone - Drawing room, Dining room, Living room. • Private zone - Bedroom, Bathroom & Dressing room. • Work zone – Kitchen, Laundry room and Home office. • Importance of room relationship | 15 |

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| <p>IV</p> | <p>Ergonomics</p> <ul style="list-style-type: none"> • Definition, objective and importance of ergonomics. • Man - machine and environment relationship. • Study of different body postures used in various activities and their relationship to fatigue. • Definition of Human Anthropometry, static and Dynamic Anthropometry | <p>15</p> |
| | | |
| <p>Suggested Reading :</p> <ul style="list-style-type: none"> ➤ Aveny, H. Household physics, Mac Millan Co. ➤ Kumar, Sushil, 2008, Building Construction, Standard publisher. ➤ Bali, K.K. Household Equipments, Orient paper backs, New Delhi. ➤ International Review of Ergonomics. ➤ Nag, P.K. Ergonomics and work design: Emerging issues in Organisational science, New Age International Ltd., New Delhi, 1996. ➤ Dalela S., 1983, Textbook of Work Study, 3rd Edition, Standard Publishers Distributors. ➤ Steidl and Bratton, 1967, Work in the Home. John Wiley and Sons. New York. ➤ Deshpande, R.S Modern Ideal Homes for India United book corporation ➤ Agan Tessie M.S The house its plan & use Gulab primlani ➤ Deshpande, R. S. (1974): Modern Ideal homes for India, United Book Corporation. ➤ Publication of Housing Boards, NBO, ISI, HUDCO etc. ➤ Seetharaman, P. & Pannu, P. (2015): Interior Design and Decoration, CBS Publishers, New Delhi. ➤ Gandotra, V. & Patel, S. (2017): Housing for Family Living, Dominant Publishers, New Delhi. | | |

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**M.A. II Semester IV Home Science
Paper - III (Core)
Communication for development**

| Programme/Class: Certificate | | Year: II | Semester: IV |
|---|---|--|---------------------|
| Subject: Home Science | | | |
| Course Code: A131003T | | Course Title: Communication for development | |
| <p>Course Outcomes: The student at the completion of the course will be able to: To acquaint students about communication process, recent advances in communication and diffusion and help students acquire necessary communication skills.</p> | | | |
| Credits: 4 | | Core | |
| Max. Marks: 25+75 | | Min. Passing Marks: | |
| Total No. of Lectures-60 | | | |
| Units | Topic | | No. of Lectures |
| I | Communication <ul style="list-style-type: none"> ❖ Meaning, concept, importance, elements, types and models ❖ Communication Approaches ❖ Individual, Groups and Mass ❖ Factors affecting their selection and use ❖ Barriers of Communication | | 15 |
| II | Communication Skills <ul style="list-style-type: none"> ❖ Role of ICT in Communication ❖ Soft skills <ul style="list-style-type: none"> - Effective oral communication - Public speaking - Non verbal communication ❖ Writing skills | | 10 |
| III | Participative Communication <ul style="list-style-type: none"> ❖ Meaning, process and determinants ❖ Development Communication - Concept nature and Significance | | 08 |

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| IV | <p>Recent Advances in Communication</p> <ul style="list-style-type: none"> ❖ Print and Electronic ❖ Internet ❖ Email ❖ Fax ❖ Mobile ❖ Interactive video ❖ Tele conferencing ❖ Computer ❖ Computer Networking (PAN, LAN, CAN, MAN, WAN) | 12 |
| V | <p>Adoption and Diffusion</p> <ul style="list-style-type: none"> ❖ Concept and elements of diffusion ❖ Stages of innovation ❖ Decision process ❖ Attributes and Consequences of Innovation ❖ Adopters categories ❖ Innovativeness | 15 |
| <p>Suggested Readings:</p> <ul style="list-style-type: none"> ❖ Ray G.L. 1991. Extension and Communication and management. ❖ Joshi Uma Understanding Development Communication. Dominant Publications, New Delhi. ❖ Narula and Uma (2007) Development Communication Theory and Practice. Har Anand Publication Ltd., New Delhi. ❖ Kuppuswamy B, Communication & Social Development in India, Media Promoters & Publishers Pvt. Ltd., Mumbai. ❖ Singh Vrinda, Prasar Shiksha. | | |

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M.A.II Semester -IV Home Science

Paper-IVA (Elective)

Fabric Construction(Theory)

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| Programme :M.A. | Year-II | Semester-IV |
| Subject: Home Science | | |
| Course Code: A131004T | Course Title: Fabric Construction | |
| Course Outcomes. <ul style="list-style-type: none">• Students will develop understanding regarding various fibers, yarns, and fabrics along with their properties.• Students will gain knowledge of different dyes, dyeing methods & printing techniques.• Students will gain knowledge of fabric finishes, smart and technical Textiles. | | |
| Credits :4 | Elective | |
| Max. Marks: 25+75 | Min. Passing Marks: | |
| Total No. of Lectures-60 | | |
| Units | Topics | No. of Lectures-60 |
| I | <ul style="list-style-type: none">• Textile Terminologies: Fibre,yarn, weave,fabric,etc.• Classification of fibres, yarn,weaves. | 05 |
| II | <ul style="list-style-type: none">• Manufacturing process of major natural and man-made fibers, properties and their uses. | 15 |
| III | <ul style="list-style-type: none">• Different methods of fabric construction- Woven, knitted and non-woven fabrics, their properties and end uses.• Textile finishes -Classification, processing and purposes of finishes. | 15 |
| IV | <ul style="list-style-type: none">• Dyeing and printing- Classification of dyes and Methods of dyeing, Methods of Block Printing, Tie&Dye,Batik, Roller Printing,Discharge Heat Transfer Printing and Digitized Printing.• Technical and Smart Textiles | 25 |
| Suggested Readings: <ul style="list-style-type: none">➤ Hollen&Saddler : Introduction to Textile, Alpha Books.➤ Bernard P. Corbman, Textiles: Fiber to Fabric, MC. Graw Hill Education➤ Seema Sekhri : Textbook of fabric science, (fundamentals to finishing),PHI Learning. | | |

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- B.C. Goswami, J.G.Martindale, F.L.,Scardino;Textile Yarns(Technology,Structure and Applications)Wiley India Pvt. Ltd.
- Dr. Asim Kumar Roy Choudhary;Principles of Textile Finishing, Woodhead publishing
- M.Clark;Hand book of Textile and Industrial Dyeing(principles, process and types of dyes),Woodhead Publishing Ltd.
- Paul N Hasluck; fabric dyeing,Double Bit Press
- Laurie Wisburn: Mastering the art of fabric printing anddesign, Chronicle books.
- TilakDias: Electronic Textiles Smart fabrics and wearable Technology, Woodhead Publishing Ltd.
- Gina Renee Dunhan : The Fitting Book – make sewing pattern alterations and achieve the perfect fit you desire, Gina Renee Designs.

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| M.A. (HOME SCIENCE) SEMESTER - IV PAPER – IV (Elective B) FOOD PROCESSING & TECHNOLOGY | | |
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| PROGRAMME/ CLASS : P.G. / M.A.-I | YEAR – II | SEMESTER- IV |
| SUBJECT – HOME SCIENCE | | |
| COURSE CODE : A131005T | COURSE TITLE : FOOD PROCESSING & TECHNOLOGY | PAPER – V (Elective – B) |
| COURSE OUTCOMES: This course will enable the students to – <ul style="list-style-type: none"> ❖ Evaluate foods for food safety and adulterates ❖ Analyze the sensory & objective characteristics of food ❖ Systematic knowledge of basic and applied aspects of food processing and technology, ❖ Provide the necessary knowledge basic principles and procedures in production of important food products. | | |
| CREDITS – 4 | ELECTIVE | |
| MAX. MARKS : 100 25 + 75 | | |
| TOTAL NO. OF LECTURES – 60 | | |
| UNIT | TOPIC | No. OF LECTURES |
| I | <ul style="list-style-type: none"> ❖ Definition: food preservation and food processing. ❖ Food and its preservation (Home and community level including commercial operations): course of food spoilage, needs and benefits of food processing and technology for food preservation. ❖ Physical principles in food processing operations, thermal processing (Use of heat), types of heat treatments, heat resistance of micro-organisms. | 15 |
| II | <ul style="list-style-type: none"> ❖ Refrigeration (Use of low temperature): Refrigeration and freezing – methods, principles and applications, freezing and its effects of food components and structure, shelf life of frozen foods. ❖ Drying and dehydration: types of foods – traditional and new food products, principles and applications, home community and commercial methods of dehydration, effect on food quality. | 23 |

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| III | <ul style="list-style-type: none"> ❖ Chemical Principles of food processing: Preservation / processing by sugar, salt curing, smoke, acids and chemicals. ❖ Fruit and vegetable processing methods and products. | 10 |
| IV | <ul style="list-style-type: none"> ❖ Product Development and there, characteristics: Product processing and changes in product that affect texture, flavour. ❖ Colour, nutritive value and safety during handling storage and packaging | 10 |

SUGGESTED READINGS :

1. Food Preservation & Processing : Kalia M. & Sood S (2010)
2. Food Processing & Preservation : Sivasanhar B (2002)
3. Food Science (1996): Potter N.N
4. Gould, G.W. (1995) New Methods of Food Preservation, Blackie Academic and Professional, London.
5. Connor, J.M. And Schick W.A. (1997), Food Processing and Industrial Powerhouse in Transition, John Wiley and Sons, New York.
6. Stadelman, W.J. and Cotterill, D.J. (1986) Egg Science and Technology, AVI, Publishing Co., Inc. Westport
7. Arthey, D. and Ashurt, P.R. (1996), Food Processing, Blackie Academic and Professionals, London.
8. Phillips, R.D. and Finley J.W.(1989), Protein Quality and Effects of Processing, Marcel Dekker, Inc. New York
9. Inglett, G.C. Munet, L. (1980), Cereals for Food and Beverages, Academics Press, New York.
10. Jellen, P. (1985), Reston Publishing Co., Inc, Aprentice – Hall Co., Virginia.

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| <p><u>Practical</u> Course Code: A131006P</p> | <p>(1) Visit of Centers and Institutions for elderly. Recording information, observations and writing reports.</p> <p>(2) MANAGEMENT PRACTICAL: - Market survey on any of the following (A) Accessories in Interior Design. (B) Fixture and Lighting (C) Wall and Floor Finishing.</p> <p>EXTENSION PRACTICAL: - Making of PPT and Presenting Class Seminar Through it.</p> |
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| <u>Project</u>-Course Code: A131007R | Research Project |
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