MAA SHAKUMBHARI UNIVERSITY, SAHARANPUR

National Educational Policy-2020 Syllabus development guidelines (PG)

Semester-wise Titles of the Papers in M.A. (Home Science)

Year as per NEP	Sem as per NEP	Course code	Core/Electiv e/Value Added	Paper Title	Theory/Practical/Project	Credits	Marks(Int+ Ext) = Fotal
4	VII		Core Compulsory	Advance Food Nutrition	Theory	4	25+75==100
4	VII		Core Compulsory	Child Development: Prenatal to Old Age	Theory	4	25+75==100
4	VII		Core Compulsory	Traditional Textiles and Fabric Construction	Theory	4	25+75==100
4	VII		Core Compulsory	Any one of the following	Theory/ Project	4	25+.75=100
				Research Methods in Home Science			
				Research			
4	VII		Core Compulsory	Practical Paper I	Practical	4	25+75==100
4	VIII	-	Core Compulsory	Approaches to Resource Management and Interior Decoration	Theory	4	25+75==!00
4	VIII		Core Compulsory	Extension Education and Communication Management	Theory	4	25+75=400
4	VIII		Core Compulsory	Any one of the following	Theory/ Project	4	25+75=100
	İ			1. Human Physiology			
				2. Marriage and The Family			
				3. Entrepreneurship Development	1000		`
				4. Research			
4	VIII		Core Compulsory	Any one of the following	Theory	4	25÷75=100
				1. Community Nutrition			

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			2. Early Childhood Care and Parenting			
			3. Consumer Economics and Market			
4	VIII	Core Compulsory	Practical Paper II	Practical	4	25+75==100
5	IX	Core	Therapeutic Nutrition	Theory	4	25+75=100
5	lX	Compulsory Core Compulsory	Child Guidance and Counseling	Theory	4	25+75=100
5	IX	Core Compulsory	Practical Paper III	Practical	4	25+75=100
5	IX	Core Compulsory	Any one of the following	Theory	4	25+75=100
			1. Management of Energy and Household Equipment			
			2. Fashion Basics and Merchandising			
			3. Extension Programme Planning and Evaluation			
			4. Sustainable Development			
5	IX	Core Compulsory	Research	Project	4	25+75=100
5	X	Core Compulsory	Gender and Development	Theory	4	25+75=100
5	X	Core Compulsory	Any two of the following	Theory	4	25÷75=100
			1. Children with Developmental Challenges			
			2. Food Safety, Storage and Preservation	_		
5			3. Clothing Construction		100	
			4. Ergonomics			
5	X	Core Compulsory	Practical Paper IV	Practical	4	25+75=:100
5	X.	Core Compulsory	Research	Project	4	25+75=100

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DETAILED SYALLABUS M.A HOME SCIENCE SEMESTER VII as per NEP

Paper I Advance Food Nutrition

Course Type: Major

Credit: 4

Objectives:

- To understand the basic concept of food, nutritionand role of nutrition maintaining health.
- Get an insight about the various major and micro nutrients.
- To gain knowledge regarding methods of cooking and methods to improve nutritional quality of food.

Contents

Unit	Topic	No. of Lectures
I	Introduction to the Study of Nutrition-Food, Nutrition	07
	and Health, Digestion, Absorption and Utilization of	
	Nutrients, The Recommended Dietary Allowances for	
	Nutrients	
II	Energy Metabolism- Determination of energy value of	04
	food-Bomb Calorimeter, Basal Metabolic rate and factors	
	affecting Basal Metabolic Rate	
III	The Nutrients	
	Carbohydrates-	07
	Composition and Classification, Sources, Properties,	
	Functions, Food sources, Utilization in the Body,	
	Regulation of Blood Sugar, RDA, Dietary Fiber, Clinical	
	Problems	
	Fats and Lipids- Composition and Classification,	07
	Sources, Properties. Functions, Food Sources, Essential	
	Fatty Acids, Digestion and Absorption, RDA, Clinical	
	Problems	
	Proteins and Amino Acids- Composition and	07
	Classification, Sources, Properties, Functions, Food	
	Sources. Essential Amino Acids, Digestion and	
	Absorption, RDA, Clinical Problems	
	Vitamins- Introduction, Nature of Vitamins, Fat soluble	07
	Vitamins- Vitamin A, D, E, K- Functions, Food Sources,	
	RDA, Effect of Deficiency, Water Soluble Vitamins-	
	Vitamin B Complex and Ascorbic Acid- Functions, Food	
	Sources, RDA, Effect of Deficiency	
	Major and Trace Minerals- Introduction, Functions of	07
	Minerals, Major Minerals (Calcium, Phosphorous,	
	Magnesium, Sodium, Potassium)- Food sources, Function	

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	and Deficiency, Trace Minerals (Iron, Iodine, Copper,	
	Zinc, Selenium, Cobalt, Fluorine, Molybdenum,	
	Manganese)	
	Water- Functions, Acid-Base Balance, Food Sources,	04
	Requirement, Problems of Dehydration and Oedema	
IV	Methods of Cooking and Preventing Nutrients Losses-	06
	Moist Heat Methods of Cooking- Boiling, Poaching,	
	Steaming, Stewing, Braising, Dry Heat Methods of	
	Cooking- Baking, Roasting and Grilling, Frying, Modern	
	Methods of Cooking- Microwave Cooking, Infra-red	
	Cooking	
V	Methods to Improve Nutritional Quality of Food-	04
	Germination, Fermentation, Supplementation,	
	Fortification and Enrichment, Substitution	

References:

- 1. M. Swaminathan: Handbook of Food and Nutrition, The Banglore Printing & Publishing Co. Ltd. 2018.
- 2. Anita Singh: Food and Nutrition, Star Publication, Agra, India, 2018.
- 3. Sumati R Mudambi and M V Rajagopal: Fundamentals of Foods, Nutrition and Diet Therapy, New Age International Publishers, 2018.
- 4. Dr. Reena Khanuja: Aahar Evam Poshan Vigyan.
- 5. Dr. Sarita Kumawat: Aahar Evam Poshan Vigyan .
- 6. Dr. Vrinda Singh: Aahar and PoshanVigyan.

Sessional Work:

- 1. Seminar presentation
- 2. Internal Assessment test
- 3. Assignmentson any topic from entire syllabus
- 4. Attendance

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Paper II Research Methods in Home Science

Course Type: Major

Credit: 4

Objectives:

• To understand the significance of research methodology in Home Science research.

• To enable the students to understand about data collection tools and various statistical method to interpret the data.

• To develop skills to preparation of research proposal and report writing.

Contents

Unit	Topic	No. of Lectures
I	Introduction and Meaning of Scientific Research- Definition Characteristics, Scope, Importance, Need and Criteria of research	05
П	Types of Research-Basic/Pure, Applied, Fundamental, Descriptive, Analytical, Explorative, Explanatory, Experimental, Evaluative, Quantitative, Qualitative	05
Ш	Nature and Scope of Research in Home Science- Research in Food & Nutrition, Research in Family Resource Management, Research in Textile & Clothing, Research in Human Development, Research in Extension Education	03
IV	Stages involved in research- Formulation of the problems. Formulation of Hypothesis, Research Design, Sampling, Date processing and Classification, Data Analysis and Interpretation, Report writing and Conclusion.	12
V	Sources of Information: Concept and sources of information, Importance Classification and sources of data collection	03
V	Methods of Sampling- Characteristics of good sampling, Probability or random sampling, non-probability sampling	03
VI	Concept of data- Types of Data: Qualitative and Quantitative data analysis, Analysis of Data: Qualitative and Quantitative data analysis	03
VII	Data Collection Tools and Statistical Methods- Tools in data collection (Schedule, Questionnaire, Interview, Case study method etc., Measurement and Scaling Techniques, Validity, Reliability, Processing of data: Editing, Coding, Classification, Tabulation and interpretation of data, Measurement of central Tendency: Mean, Median, Mode	13
VIII	Scientific Writing- Different forms of Scientific	13

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writing: Articles in journals, Research notes, Review
articles, Monographs, Dissertations, Bibliographies.
Parts of Dissertation/ Research Report Article:
Introduction, Review of Literature, Methodology,
Result of discussion, Conclusion

References

- 1. C. R. Kothari: Research Methodology- Method and Techniques (English, Hindi Both), 2000.
- 2. R. Kumar: Research Methodology: A step by Step Guide for Beginners.
- 3. M. H. Gopal: Introduction to Research Methodology for Social Sciences.
- 4. Dr. B.L Fadia: SodhPaddhati, Sahitya Bhawan Publication.
- 5. A.Kumar: ResearchMethodology inSocial Sciences, Sarupand Sons, NewDelhi, 2000.
- 6. H.R Bernard: Social Research Methods- Qualitative and Quantitative,2000.

Sessional Work:

- 1. Seminar presentation
- 2. Internal Assessment test
- 3. Assignments on any topic from entire syllabus

4. Attendance

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Paper III Traditional Textiles and Fabric Construction

Course Type: Major

Credit: 4

Objectives:

• To enable students to understand about traditional textiles of India

• To develop skills to create basic weaves and learn techniques and methods of developing fabric using different fibres and yarns.

• To familiarize with clothing construction and care of clothing

Contents

Unit	Topic	No. of Lectures
I	Study of traditional embroideries of India (History,	10
	production area, techniques, designs, colour and	
	products)- Embroidered Textiles of India- Kasuti,	
	Kashida, Sindhi, Phulkari, ChambaRumal, Chikankari,	
	Kasuti, Kantha, Pipli Applique	
II	Resist Dyed Textiles-Bandhani of Gujarat,	05
	Bandhej&Lehariya of Rajasthan, Patola of Gujarat,	
	Bandhas of Odisha, Ikat Textiles of Andhra Pradesh	0.7
III	Printed Textiles- Bagru prints from Rajasthan, Sanganer	03
**/	prints from Rajasthan, Kalamkari from Andhra Pradesh	0.4
IV	Hand-woven Textiles- Banaras Brocades, Baluchari Saris,	04
	Jamdani Saris, Paithani Saris, Kanjeevaram Saris, Chanderi Saris, Maheshwari Saris, Kashmir Shawls, Kullu& Kinnaur	
	Shawls, Wraps of North-east	
V	Fabric construction analysis- weave, ends, picks, count	04
•	of cloth, weight, crimp & thickness	04
VI	Fabric construction methods- foam, felt, non-woven,	05
	braid, lace & knit, other methods of fabric construction:	
	felting, non-woven, laces, braids, and nets-their properties	
VII	Weaving technology- Parts and functions of handlooms	08
	and power looms. Types of weaves: Plain, Twill, Satin,	
	Sateen, Terry Pile, Double Cloth	
VIII	Knitting technology- Types of knits: Weft knitting, Warp	05
	knitting, Basic knitted structures	
IX	Finishes (purpose and types)- scouring, bleaching,	08
	mercerization, texturing, shearing, singeing, Mechanical	
	finishes- calandering, napping, moiering, Chemical	
j	finishes- spill off, wash and wear, parchmentization,	
	durable press, anticrease. Special purpose finishes- flame	
	retardant, water repellant antistatic, soil release. moth proofing.	
X	Dyeing and Printing- classification of textile dyes-	08
A	synthetic and natural, Cl number, colour and chemical	00

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component of dyes, dyeing theory and method. Printingdifference from dyeing, Method and techniques of printing, styles of printing-block, roller, screen, stencil, rotary screen, auxiliaries used in printing

References:

- 1. Smt. Santosh Batalia: Bharat Ki ParampagatKashidakari(Hindi Book).
- 2. Shailaja D. Naik: Traditional Embroideries of India.
- 3. Textiles XII.pdf
- 4. Manju Patni: Family Clothing, Star Publication.
- 5. Pramila Verma: Vatra Vigyan AivamParidhan, HindiGranth Academy.
- 6. Reena Khanuja: Vastra Vigyan KeSidhant, Agarwal Publication.
- 7. K.N Srivastava and Meenakshi Gupta: *Pramparagat Bhartiya Vastra*, Rajasthan Hindi Granth Academy.
- 8. Anjali Kairolia: Traditional Indian Handcrafted Textiles: History, Techniques, Processes, and Designs -Vol. 1 & II, 2019.
- 9. M.D. Potter and B.P. Corbman: Fibre to Fabric. The Crais and Publishing Company New York.
- 10. V.A Shenai.- History of Textile Design. Sevak Publications Mumbai

Sessional Work:

1. Internal assessment test

2. Assignment/Seminar presentation on any topic from entire syllabus

3. Attendance

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Paper IV Child Development: Prenatal to Old Age

Course Type: Major

Credit: 4

Objectives:

• To have an overview of development from prenatal stage to old age stage.

• To develop the ability among students to understand the aspects of all development stages during different phase of life cycle.

Contents

Unit	Topic	No. of Lectures
Į	Concept of development- Introduction to Development, Stages and Principles of growth and development, Developmental tasks, Individual Differences. Heredity and Environment	08
II	Prenatal Development- Conception, stages of Prenatal Development, Factors affecting Prenatal Development, Common complications during pregnancy, Types and Stages of Birth Process	06
Ш	Birth to Infancy- New Born – Physical description, Sensory capacity and reflexes, Stages of Language Development, Social Development during infancy	06
IV	2-6 Yrs. (Early Childhood)- Physical and motor development. Cognitive Development, Language Development. Emotional Development, Social Development	10
V	7-11 Yrs. (Middle Childhood)- Physical and Motor Development, Cognitive Development, Language Development, Emotional Development, Social Development	10
VI	Adolescence- The concept of adolescence, developmental task of Adolescence, Development of Primary and Secondary sex characters, sex education, Family, Peers and friendship	08
VII	Adulthood- Introduction, physical continuity and changes, Health and Diseases	06
VIII	Old age- Introduction and changes during old age, Health and Diseases and Psycho social Changes	06

References:

- 1. Vrinda Singh: Bal Vikas, Panchsheel Prakashan
- 2. Hurlock E. B.: Child Development, New Delhi, McGraw Hill
- 3. Kuppuswamy, B.: Text Book of Child Behaviour and Development. Konark Publication.
- 4. Devdas, R.P. and Jaya N.: Text Book of Child development, New Delhi, Macmillan Publishing Co.

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- 5. Anita Shrivastava: AdhunikVikasatmakManovigyaan, Lal J.N., Vinod Pustak Mandir, Agra.
- 6. Neeta Agrawal: Matru Kala AvamShishuPalan.
- 7. D.E Papalia: Human Development, Tata McGraw Hills Publication, 1997.
- 8. A, Singh: Foundations of Human Development: Lifespan Approach. (Ed.), Orient Blackswan. 2015.
- 9. N, Jaya and R,P Devdas: Text Book of Child development. New Delhi. Macmillan Publishing Co., 1996.
- 10. Dehart G.B. & Sroufe. L Alan: Child Development- its Nature and Course.

Sessional Work:

- 1. Internal Assessment Test
- 2. Assignment/Seminar presentation on any topic from entire syllabus
- 3. Attendance

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Paper V Practical paper I

Course Type: Major/Practical

Credit: 4

Objectives:

• To have practical knowledge of Food Science and Nutrition.

- To acquire practical knowledge of preparation of research proposal, data gathering tools, conducting researchand analysing data.
- To enable students to understand about traditional textiles of India
- To enable students to create basic weaves and learn techniques and methods of developing fabric using different fibres and yarns.
- To have practical overview of development from prenatal stage to old age stage.

Contents

Unit	Topic	No. of Lectures
I	Preparation of recipe- Use of cooking methods preventing	12
	nutrient loss (Moist Heat Methods of Cooking, Dry Heat	
	Methods of Cooking, Modern Methods of Cooking),	
	improve nutritional quality of food (Germination,	
	Fermentation, Supplementation, Fortification and	
	Enrichment, Substitution).	
II	Prepare a research plan in any field of Home Science.	12
	Construct a Questionnaire / Schedule as data gathering tool.	
III	Samples of various traditional embroideries- Kasuti,	24
	Kashida, Sindhi. Phulkari. Chamba Rumal, Chikankari,	
	Kantha, Applique work. Weaves- Identification and their	
	design interpretation on graph, Samples of different types of	
	knit, Samples of Tie and dye technique, Block printing and	
	Batik technique.	
IV	Case Study of late childhood to adolescence with reference	12
	to physical, motor, social, emotional, language, intellectual	
	and moral development.	

References:

- 1. K, Chattopadhyay: Handicrafts of India, All India Handicrafts Board, New Delhi, 1975.
- 2. Traditional Indian costumes and Textiles, Parul Bhatnagar, Abhishek Publication, Chandigarh, 2004.
- 3. Jaslen Dhamija and Jyotindra Jain:Hand-woven Fabrics of India, , Mapin Publishing Pvt. Ltd. Ahmedabad. 1989
- 4. G.P Shorie: *Vastra Vigyan KeMoolSidhant*, VinodPustak Mandir, Hospital Road, Agra, 2007.(Hindi Book)
- 5. Promila, Verma,: Vastra Vigyan AvamParidhan, Madhya Pradesh Hindi Granth Akademy, Bhopal, 2003. (Hindi Book)

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- 6. G.J., Monaster: Adolescent Development Life Tasks. Mc. Graw Hill, 1977.
- 7. Shri Vinod Pustak Mandir: Aadhunik Vikasatmak Manovigyan, Agra Edition 3rd 2015.
- 8. C.R. Kothari:Research Methodology, Methods and Techniques –Wiley Eastern Limited.
- 9. P.L.Bandarkar&T.S.Wilkinson:Methodology and Techniques of Social Research Himalaya Publishing House- Mumbai.
- 10. G.L.Bhatnagar:Research Methods & Measurements in Behavioural & Social Sciences, (1990): Agri. Cole. Publishing Academy, New Delhi.
- 11. Shakuntala Manay, Shadaksharaswamy. M: Foods, Facts and Principles, New Age, 2000
- 12. Chandrasekhar, U: Food Science and applications in Indian Cookery (2002) Phoenix Publishing House, New DelhiInternational Pvt Ltd Publishers, 2nd Edition
- 13. Swaminathan M.: Food and Nutrition, Vol I & Vol II, BAPPCO
- 14. https://uou.ac.in/sites/default/files/slm/BHM-201T.pdf

Sessional Work:

- 1. Preparation of practical files
- 2. Attendance

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SEMESTER VIII as per NEP

Paper I

Approaches to Resource Management and Interior Decoration

Course Type: Major

Credit: 4

Objectives:

• To enable students to understand the significance of management in the micro and macro-organization.

• To enlighten students about the techniques involved in lighting, colour, landscape and interiors.

• To enable the students to understand the principles of the interior design, to operate effectively within a professional environment and interior design.

Contents

Unit	Topic	No. of Lectures
I	Management as a system and process- Definition, elements, types and application in family resource management, Management process- Planning, Organizing, Supervision, Controlling and Evaluation.	10
II	Time & energy management-Time Plan, Peak load, Techniques to study method of workers, work place and Work Simplification- Pathway Chart, Process Chart, Micro motion Chart, Principals of Body mechanics, Fatigue- Definition, types, methods to avoid fatigue.	06
III	Motivating factors of Resource Management- Definitions, Characteristics and types of values, goals and standards.	06
IV	Family Decision Making - Definition, characteristics & types, Decision Making process.	06
V	Interior decoration- Introduction and Objective, Elements of art and their importance in interior decoration. Principles of design and their application to enrich the interiors, dimensions of colours, colours scheme.	08
VI	Psychological impact of colours — warm, cool and neutral colour, impact of specific hue, use of colour in various functional contexts- Residential interior, Non-residential interiors, use of colours in special situations-outdoor/indoor spaces, accessories and art works.	06
VII	Accessories in Interior- Definition, classification, selection and placement of accessories -pictures, sculptures, antiques, indoor plants and flower arrangements, Lighting in Interiors.	06
VIII	Furniture - Basics of furniture design and types of furniture design.	04
IX	Space Saving Techniques- Need for saving indoor space, technique such as combination/multipurpose	04

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	rooms, combination/multipurpose furniture, in-built furniture, techniques of creating illusion	
X	Soft floor covering - Selection factors for carpets and rugstypes (woven and non-woven) materials used, care and maintenance. Household linen – types, selection, use and care.	04

References:

- 1. Suja Nair: Consumer behaviour, Sultan Chand and sons, New Delhi, 2002.
- 2. M,Sethi and Seetharaman: Consumerism a growing concept, Phoenix publishers, New Delhi, 1994.
- 3. S.SSharma: Consumer behaviour, Arihant Publishing, 1992.
- 4. Seetharaman P., Bata, S., Mehra, P: An introduction to family resource management, CBS Publishers and distributors, NewDelhi, 2005.
- 5. Gross Crandall: Management for Modern Families: Wiley Eastern Ltd. New Delhi.
- 6. Bakshi B.K: GrahPrabandh.
- 7. Manju Patni: GrahPrabandh.
- 8. Gross I.H. & Crendall E.W. Knoll M.M.; Management for Modern Families, Prentice Hall Inc., New Jersey 1980.
- 9. Bhargava, B.: Family Resource Management and Interior Decoration. University Book House Ltd. Jaipur, 2001.
- 10. Bhargava, B.: Housing and Space Management, University Book House Ltd. Jaipur, 2001.
- 11. Deshpande, R.S.: Build Your Own House. United book Cooperation, Pune, 2000.
- 12. Chaudhari, S.N.: Interior Design, Aavishkar Publishers, Jaipur, India, 2006.
- 13. Choudhury, A.K.R. Modern Concepts of Colour and Apperance, Oxford and IBH publishing Co. Pvt. Ltd., New Delhi, 2000.
- 14. Hillard, E.: Brilliant Colour at Home, Kyle Cathie Ltd., London, 2000.
- 15. Kasu, A.A.: Interior Design, Ashish Book Centre, Delhi, 2005.

Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation

3. Attendance

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Paper II Extension Education and Communication Management

Course Type: Major

Credit: 4

Objectives:

• To acquaint the students about the role of extension – education in community development.

- To understand the various programmes, favoring the wellbeing of the community.
- Comprehend the various effective communication methods.

Contents

Unit	Topic	No. of Lectures
I	Fundamentals of Extension Education- Meaning and	08
	Definition, types of education, Scope of Extension	
	Education, Principles and Objectives of Extension	
	Education, Extension Education Process.	
II	Extension Programme Planning- Objectives of	06
	Programme planning, Principles of Extension	
	Programme Planning, Steps of Extension Programme	
III	Planning Process.	10
111	Extension System in India- Pre-independence era Programmes: Sriniketan Project, Marthandam Project,	10
	Firka Development scheme, Post- Independence Era	
	Programme: Etawah Pilot Project, Nilokheri Project.	
IV	Teaching and learning: Principles of teaching and	
1 4	learning, Learning process, Laws of learning, Factors	00
	affecting learning, Teaching process, Principles for	
	consideration in selection of teaching methods, Qualities	
	of good teacher, Essentials of a teaching plan.	
V	Extension teaching methods- Meaning nature and	10
	classification, Individual, Group and mass contact	
	methods, Selection and use of extension methods, Audio	
	visuals aids - meaning and nature graphics aids (flash)	
	cards, flannel graphs charts, posters), Projected aids	
	(Slides & film projector overhead projector) other aids –	
X / Y	models, mockups).	
VI	I.T Technology and Tools- concept & importance,	03
	Tools-Radio, TV, Teleconferencing, Internet, e-mail,	
VII	Telephone, Fax. Communication- Concept, importance, elements,	07
v 11	Communication - Concept, importance, elements, characteristics, functions, models, principles and types	U/
	of communication. Levels of communication and	
	barriers in communication.	
VIII	Audio visual aids - Meaning, importance &	02
	classification of audio-visual aids.	~~

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IX	Communication skills- Role of ICT in communication, soft skills; effective oral communication, public speaking; non-verbal communication, writing skills; soft skills; role of ICT in communication.	04
X	Diffusion and Adoption - Innovation, innovation adoption process, factors influencing innovation. Diffusion of innovation and classification of Adopters	04

References:

- 1. Manju Sharma and Sandhya Choudhary: *Karyakaramniyojan and Mulyankan*, Shivprakashan.
- 2. Aggarwal, R.: Communication- today and tomorrow", New Delhi.: Sublime Company, 2008.
- 3. Dubey V.K, Srivastava Archana, Agrawal Garima,: *Grah Vigyan PrasarAvamSampreshan*, Star Publications Agra.
- 4. Harpalni B.D. Patni.Manju,: *Prasar Shiksha Avam Sanchar*, Star Publications, Agra. ISBN 978-93-81246.
- 5. Shaw Geeta Pushp, Shaw Jois Sheela,: *PrasarShiksha*, Vinod Pustak Mandir Agra. ISBN 81-7457-104-3
- 6. Dahama, O.P., & Bhatnagar, O.P.: "Education and Communication for Development". New Delhi. Oxford and IBH Publishing Co. Pvt.Ltd, 1998.
- 7. Jaipal Singh: Prasar Shiksha avam Gramin Vikas, SR Scientific Publications, Agra
- 8. Reddy, A.:Extension Education, Bapatha, Andra Pradesh, India.: Sreelekshmi Press, 1987.
- 9. Supe A.N.: An introduction to Extension Education. Delhi: Oxford IBH Publishing, 1983.
- 10. Kuppusawmi B: Communication and Social Development in India, Media Promotors and Publishers Pvt. Ltd. Mumbai.
- 11. Honolulu: Communication and change: The Last Ten Years and Next, University of Hawai Press, 1976.

Sessional Work:

1. Internal assessment test

2. Assignment/Seminar presentation

3. Attendance

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Paper III Human Physiology

Course Type: Major (OPTIONAL)

Credit: 4

Objectives:

• To enable students to understand the relevant issues and topics of human physiology.

• To get an insight about the integrated function of all major organ system.

• To understand the structures and functions of various organ system in relation to the diseased condition.

Contents

Unit	Topic	No. of Lectures
I	Cell and Tissues- Structure and function of cell, organ and system, elementary tissues in human body.	03
II	Musculoskeletal system- Types of muscles, their properties, characteristics, structure and function, structural and function of bone.	05
III	Blood- composition and function of blood, blood group and blood clotting.	05
V	Respiratory system- Structure and Breathing mechanism. Exchange and transport of gases and its regulation. Lung Volumes and capacities.	06
VI	Excretory System- Structure and Mechanism of urine formation, the role of the kidneys in maintaining water and electrolyte balance.	06
VII	Digestive System- Structure and Functions of the salivary glands, stomach, pancreas, liver and the intestines, mechanism of digestion and absorption of carbohydrates, proteins and fats, role of enzymes in digestion of carbohydrates, proteins and fats.	. 12
VIII	Endocrine System- Structure and functions of the following glands: thyroid, parathyroid, adrenal, pancreas, pituitary and pineal gland.	05
IX ·	Reproductive System- Structure and function of male and female sex organs, menstrual cycle.	06
X	Nervous System and Senses- Structure and function of nerve and receptor organs, central nervous system: brain spinal cord, transmission of nerve impulse, autonomic nervous system, physiology of vision, hearing, taste and smell.	12

References:

- 1. Jain, A K.: Textbook of Physiology (5thed.). Avichal Publishing Company. Vol I and Vol II, 2012.
- 2. Best and Taylor's.: Physiological Basis of Medical Practice. The Williams and Wilkins Company.

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- 3. Chatterjee, C.C.: Human Physiology. Vol I and Vol II. Medical Allied Agency, 1997.
- 4. Ganong W.F.: Review of Medical Physiology.21st ed. McGraw Hill, 2003.
- 5. Guyton A.C. and Hall J.E.: Textbook of Medical Physiology.10th ed. India: Harcourt Asia, 2000.
- 6. Tortora G.J and Grabowski S.R.: Principles of Anatomy and Physiology.9th ed.John Wiley and Sons.Inc., 2003.
- 7. West J.B.: Physiological Basis of Medical Practice.12th Edition. B. I. Waverly Pvt. Ltd, 1996.

Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation
- 3. Chart on any topic from entire syllabus
- 4. Attendance

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Paper IV Marriage and the Family

Course Type: Major (OPTIONAL)

Credit: 4

Objectives:

• To develop understanding towards the institution of marriage in different cultural context.

• To develop conceptual understanding for harmonious and wholesome family living.

Contents

Unit	Topic	No. of Lectures
I	Marriage- Definition, goals/functions, types/forms of marriage in India.	06
II	Marital roles and behaviours- Definition and importance of marital roles, determinants of marital behaviour.	03
III	Marital adjustment- Definition, areas of marital adjustment, factors influencing marital adjustment, obstacles in marital adjustment.	05
IV	Family- Definition, functions, types of family, family structure, pattern of changes in family structure and relationships in India.	08
V	Family life cycle- Definition, importance of studying family life cycle.	06
VI	Marital dissolution-Definition, types-voluntary and involuntary, factors responsible for an increase in the rate of legal marital dissolution, consequences of divorce, adjustment to divorce family	08
VII	Typical and alternative forms of families- Characteristics of Single parent families, female headed families, childless families, adoptive families, dual earner families and its merits and demerits	08
VIII	Laws and Acts-Marriage, Adoption, Divorce in India	10
IX	Counselling (premarital, marital and family)- Objectives, Importance, Types, Process and Effects	06

References:

- 1. Benokraitis.V.N.: Marriage and families. 8th ed. Pearson publication, 2014.
- 2. Ahuja, R.: Indian social system. Rawat publication. New Delhi, 2005.
- 3. Kumar, R.: Violence against women. Anmol publication pvt ltd., New Delhi, 2000.
- 4. Goode, W.J.: The family. New Delhi: Prentice Hall of India Private Limited, 1989.
- 5. Adams B.N.: The family: A sociological interpretation. 3rded. Rand McNally College Publishing Company, Chicago, 1980.
- 6. Nye, I.: The family: Its structure and interaction, 1973.
- 7. Tiwari G.: Dynamics of Marriage and Family Agrotech publishing Academy, 2015.

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Sessional Work:

- 1. Internal assessment test
- Assignment/Seminar presentation
 Study of matrimonial advertisements published in popular daily news papers
- 4. Merits and demerits of nuclear family/joint family Group discussion
- 5. Attendance

Paper V Entrepreneurship Development

Course Type: Major (OPTIONAL)

Credit: 4

Objectives:

• To develop understanding the nature of entrepreneurial activities.

• To enable the students to seek self-employment ventures.

• To understand the challenges of women entrepreneurs and the institutional support for start-ups.

Contents

Unit	Topic	No. of Lectures
I	Entrepreneurship- Introduction, definition, concept,	10
	types, characteristics and importance. Factors	
	stimulating entrepreneurship, traits of	
	entrepreneurship, factors affecting entrepreneurial	
77	growth - economic, social, cultural and personal.	1.0
II	Entrepreneurship Development Skills- Meaning and	10
	types of Entrepreneurship skill, Business management skills, Teamwork and leadership skills,	
	skills, Teamwork and leadership skills, Communication and listening, Customer service skills,	
	financial skills, Analytical and problem-solving skills,	
	Critical thinking skills, Strategic thinking and planning	
	skills, technical skills, Time management and	
	organizational skills, Branding, marketing and	
	networking skills.	
III	Entrepreneurial Motivation- Motivation, Maslow's	10
	theory, Herjburg's theory, McGragor's Theory,	
	McClelland's Need – Achievement Theory, Culture &	
	Society, Values / Ethics, Risk taking behaviour	
IV	Women Entrepreneur- Concept, Importance,	06
	Challenges of women entrepreneurs. Means of	
	overcoming challenges of women entrepreneurs.	
V	Suggestions for development of women entrepreneurs. Institutions Supporting and Taxation Benefits-	06
•	Central level Institutions: NABARD; SIDBI, – State	00
	Level Institutions –DICs – SFC - Government Policy	
	for MSMEs - Tax Incentives and Concessions	
VI	Organizations- Meaning and Definition of	06
	organizations, Types of organization-Sole	
	proprietorship, partnership, joint stock company, State	
	enterprises and Co-operative societies - meaning,	8
	merits and demerits of each.	
VII	Communication- Importance of communication,	05
	barriers and gateways to communication, listening to	

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	people, the power of talk, personal selling, risk taking & resilience, negotiation.		
VIII	Project Formulation- Meaning, Concept, Significance, Objective, Elements, Classification, Identification, Constraints-Internal and External, and Feasibility Analysis	07	

References:

- 1. Dr. V. C. Sinha, Dr. Pushpa Sinha-: Indian Economy and Entrepreneurship Development, *Bhartiya ArthayaVayvasthaAivamUdhmita Vikas*
- 2. SanjeetSharma: Entrepreneurship And Small Scale Business.
- 3. B.Krishna Murthy, and K. malar Mathi:Becoming a Woman Entrepreneur, Arya Kumar, Entrepreneurship, Pearson, Delhi
- 4. Poornima: Entrepreneurship Development –Small Business Enterprises, Pearson, Delhi
- 5. Sangeetha Sharma, Entrepreneurship Development, PHI Learning
- 6. KanishkaBedi. Management and Entrepreneurship, Oxford University Press, Delhi
- 7. Anil Kumar, S..et.al..: Entrepreneurship Development, New Age International Publishers, New Delhi
- 8. Khanka, SS: Entrepreneurship Development, S. Chand, New Delhi
- 9. Peter F.Drucker: Innovation and Entrepreneurship
- 10. A.Sahay, M. S. Chhikara: New Vistas of Entrepreneurship: Challenges & Opportunities
- 11. Dr B E V L Naidu: Entrepreneurship. Seven Hills Publishers

Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation
- 3. Group discussion on START- Up in India.
- 4. Attendance

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Paper VI Community Nutrition

Course Type: Major (OPTIONAL)

Credit: 4

Objectives:

• To enable students, have knowledge about various nutritional problems and their prevention.

• To understand the causes and consequences of nutrition problem in society.

• Acquire basic knowledge about various approaches to nutrition and health programmes.

Contents

Unit	Topic	No. of Lectures
I	Community Nutrition-Concept, Definition and Scope	03
II	Health Care - Concept of Health Care, Levels of Health Care, Primary Health Care, Health Care Delivery	04
III	Nutritional Assessment and Surveillance-Meaning, need, objectives and importance	03
IV	Nutritional assessment of human- Direct: Anthropometric, clinical and Biochemical, Indirect: Vital Static diet survey.	06
V	Nutrition Problems (Strategies to combat public nutrition problems)- PEM Vitamin A deficiency Iron deficiency Anaemia (IDA) Iodine deficiency disorder (IDD) Zinc deficiency, Vitamin Deficiencies Beriberi Ariboflavinosis Pellagra Folic acid and B12 deficiency Scurvy Rickets and osteomalacia	12
VI	Sociological factors contributing in the Etiology and Prevention of Malnutrition- Foodproduction and availability, cultural influences, socio-economic factors, food consumptionand distribution, emergency disaster conditions.	06
VII	Food and Nutritional Security - Understanding the concept of food and nutrition security, Determinants of food security, India's food security system.	06
VIII	National and International Agencies (Women and Child Welfare- National agencies – ICDS, ICMR, ICAR, NIPCCD, International agencies – WHO, FAO, UNICEF	08
IX	Nutrition Education- Need, scope, importance, theories, Process of nutrition education, Nutrition education communication, Programme, formulation, implementation and evaluation.	12

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References:

- 1. Gopalon. C.: Nutrition Foundation of India, Special Publication service.
- 2. Gopaldas, T. Seshadri, S.: Nutrition Monitoring an Assessment: Oxford University Press.
- 3. Park K.: Park's Text Book of Preventive and Social Medicine, 18th Edition, M/S BanarasidasBhanot Jabalpur, 2000.
- 4. National Nutrition Policy Deptt. of WCD, Govt. of India, 1993. nnp 0.pdf (wcd.nic.in)
- 5. Suryatapa Das: Textbook of Community Nutrition, Academic Publishers.
- 6. Mahtab S Bamji: Text Book of Human Nutrition, Oxford Publication, New Delhi
- 7. Joshi Shubhangini A.: Nutrition and Dietetics, Tata McGraw Hill Co. Ltd. New Delhi, 2002.
- 8. Swaminathan M.: Food and Nutrition, Vol I & Vol II, BAPPCO
- 9. Mudambi. S R. and Rajagopal M.V.: Fundamentals of Foods Nutrition and Diet Therapy, New Age International Publisher, New Delhi.
- 10. Shukla P. K.: Nutritional Problems of India. Prentice Hall of India, 1982.

Sessional Work:

- 1. Internal assessment test
- 2. Development of low-cost nutritious recipes suitable for various vulnerable groups.
- 3. Techniques of assessment of nutritional status.
- 4. Attendance

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Paper VII Early Childhood Education and Parenting

Course Type: Major (OPTIONAL)

Credit: 4

Objectives:

• To gain knowledge regarding early childhood care and education.

• To develop the skills to plan activities of creches, day care centers, pre-school and aganwadi center.

• To understand the significance of parent role in early childhood.

Contents

Unit	Topic	No. of Lectures
I	Educational psychology- Meaning, nature, Scope and importance, History of its evolution in abroad, in India, Recent trends, Challenges.	04
II	Concept of learning- definition, essential features, types of learning, laws of learning, principles of learning, learning traits, learning environment, reinforcement, punishment, Motivation	04
Ш	Early Childhood Care and Education-Importance, need, scope, objective, Types of preschool- play centers, day care, Montessori, kindergarten, balwadi, aganwadi.	03
IV	Contribution and thinkers in Early Childhood Care and Education- Rousseou, Frobel, Maria Montessori, Mohan Das Karam Chandi Gandhi, Rabindra Nath Tagore, Aurobindo, Tarabai Modak.	06
V	Early Childhood Care and Education in India- Pre Independence era and Post independence era.	06
VII	Activities to promote all round development of preschool children- Physical and motor development cognitive, speech and language, socio-emotional, moral development	05
VIII	Discipling children - Tips for teachers and parents to introduce positive discipline.	04
IX	Parenting skills-The task of parenting and the concept of parenting skills, Changing concept of parenthood and childhood, types of parenting.	06
X	Individual parenting roles- Determinant of Parenting behaviour, Characteristics of the parenting roles, Role of Father, Role of Mother, Concept of Family	12
XI	Developmental interaction in early childhood years- Parent role in developing self-awareness in children, Family relation and communication, Helping the child to	10

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learn to express and control emotions. Helping the children to discover personal capabilities, establishing routine and showing responsible behaviour.

References:

- 1. Kilkarni, S.: Parents Education Perspective and Approaches, Rawat Publication, Jaipur, 1988.
- 2. Gopal Krishnan N.: Mental Health in You, Popular Prakashan, Mumbai.
- 3. Gupte: Speaking of child care, everything you wanted to know, 2nd Edn. Sterling Publication, NewDelhi, 1981.
- 4. Lidhop, M.: Child Rearing and Psycho-Social Development, Ashish Publication, New Delhi, 1987.
- 5. Bigner J.: Parent Child Relation: An Introduction to Parenting, Mc Million Publication, New York, 1979.
- 6. Agarwal, J S.: Early Childhood Education. Foundation & Practice. National Psychological Corporation, Agra, 1984.
- 7. Bhatia and Bhatia: Theory and Principles of Education, Doaba house, Delhi.
- 8. Kaul, V.: Early Childhood Education Programme, New Delhi, NCERT.
- 9. Sushma Parek: Bharat Me ParambhikBalawasthayaDekhbhal Aur Siksha, Doaba house, Delhi.
- 10. A.Chowdhury& R. Choudhury: Pre-school Children Development, care & Education New Age International Limited Publishers, New Delhi.

Sessional Work:

- 1. Internal assessment test
- 2. Preparation of suitable teaching learning material used for preschool children.
- 3. Visit to play centres/ day care/ Montessori/ kindergarten/ balwadi/aganwadi

4. Attendance

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Paper VIII Consumer Economics and Market

Course Type: Major (OPTIONAL)

Credit: 4

Objectives:

To understand the basic concept of consumer economics

• To enlighten students about the duties and responsibilities of a wise consumer.

• To impart knowledge in consumer behaviour, consumer acts and regulations.

Contents

Unit	Topic	No. of Lectures
Park Park Park Park Park Park Park Park	Consumer Economics-Definition and importance of the subject, types of economic system- capitalist, socialist, mixed economy its characteristics and effect on consumer, concept of goods and services and its classification.	08
II	Consumption- Meaning. laws of consumption, utility, law of diminishing marginal utility, marginal and total utility, utility and price of the commodity, nature of wants, classification of human wants and standard of living.	08
Ш	Consumer Demand- Demand and types of demand, factors affecting demand, characteristic of good budget planning.	05
IV	Consumer Buying Decision- Process, types and motivating factor of purchase- decision, types of purchasing practices of consumers, role of price, factors affecting price, competition and monopoly.	08
V	Consumer Education and Protection- Introduction, significance of Consumer Education and Protection, Basic concepts, Consumer Product, Consumer Behaviour, Consumer Forum, Consumer Footfalls, Consumer Problems, Consumer Rights, Standardized Marks (ISI, Wool Mark, Hall Mark, Silk Mark), Protection Councils, Consumer Responsibilities.	12
VI	Adulteration- Definition, types of adulteration, detection methods, health hazards of adulteration, measures to control adulteration. Consumer Protection Acts 1986, Standard institutions - BIS, AGMARK, ISO.	10
VII	Consumer co-operatives & Public utilities and services- Structure and functions of consumer co-operatives. Role and functions of public utilities and services.	05
VIII	Advertisement- Definition and objectives, classification of advertisement, Methods of advertisement.	04

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References:

- 1. Wilhelms and Heamer: Consumer Economics Principles and Problems.
- 2. Oppenheim- The Family as Consumer.
- 3. Elizabeth B. Goldsmith: Consumer Economics: Issues and Behaviors.
- 4. Naresh Chandra Tripathi and Garima Tripathi- UpbhoktaArthshastra.
- 5. Bhupinder Kaur Bakshi: *UpbhoktaArthshastra*.
- 6. Durairaj Maheswaran: Understanding Indian Consumers, Oxford University Press, 2017.

Sessional Work:

- 1. Internal assessment test
- 2. Survey and report writing on motivating factors on purchase decision/types of purchasing practices.
- 3. Attendance

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Paper IX Practical paper II

Course Type: Major/Practical

Credit: 4

Objectives:

• To developed knowledge and understanding of the creative subject, and able to appreciate the essence of art and deign

• To acquaint students about communication process, recent advances in communication and diffusion.

• To help students acquire necessary communication skills.

Contents

Unit	Topic	No. of Lectures
tsa#	Basic Application of Design- Types of Design: Structural and decorative, Design Decorative designs: Naturalistic, stylized, geometric and abstract.	06
П	Basic Application of elements of Design in interior Design- Line. point, form and shape, size, colour, light, pattern, texture and space. Balance, rhythm, emphasis, harmony, proportion, Unity.	08
III	Dimension of the colour- Hue, Value, Intensity. Colour wheel colour Schemes- Harmonious colour Schemes: Monochromatic & analogous. Non-Harmonious colour Schemes: Triad, Complementary, Double Complementary Spilt Complementary, Double Complementary. Tetrad, Polychromatic. Neutral colour harmonies & Accented Neutral. Impact of Colours on Psychology: Advancing, Receding, Warm Cool colour.	15
IV	Planning and designing of following aids— Chart, Poster, Flash cards, Leaflet/ folder/ pamphlet, Puppet.	15
V	Planning & use of selected extension teaching method- Farm and home visit, Demonstration, Group discussion, Role play, Exhibition.	06
VI	Planning and use of different communication approaches.	06
VII	Preparation of lesson plans of selected topics	04

References:

- 1. Burden: Design Presentation, Mc Graw Hill, London, 1984.
- 2. M. Pratap Rao: Interior Design Principles and Practice, Standard Publishers, Delhi, 2005.
- 3. Premavathy Seetharaman and Parveen Pannu: Interior Design and Decoration."CBS Publishers and DistributersPrivate Limited, New Delhi, 2005.
- 4. Prathap Rao: Interior Design Principles and Practice." Standard Publishers and Distributers, Delhi, 2018.
- 5. Sally Walton: Colour Your Home." ParragonBook, UK, 2002.
- 6. Nisha, M.: Understanding Extension Education, Delhi, Kalpaz Publication, 2006.



- 7. Dahama, O.P and Bhatnagar, O.P.: Education and Communication for Development, New Delhi, Oxford & 1BH Publishing Co., 1987.
- 8. Dubey, V.K and Indira Boshnoi: Extension Education and Communication, New Delhi: New Age International Publishers, 2009.

Sessional Work:

- 1. Preparation of practical files.
- 2. Attendance

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Paper I Therapeutic Nutrition

Course Type: Major

Credit: 4

Objectives:

• To enable students to understand the etiology, physiologic and metabolic anomalies of acute and chronic diseases and patient needs.

 To acquire knowledge about the effects of various diseases on nutritional status and dietary requirements.

• To understand the aspect of required nutritional care and treatment of the various diseases.

Contents

Unit	Topic	No. of Lectures
I	Nutrition, Meal Planning and Dietary Management- Need and importance, Factors to be consider while planning meal.	03
II	Principle of Therapeutic Diet- Definitions of normal and therapeutic diet, objectives of diet therapy, types and advantages of different therapeutic diet, methods of feeding.	15
Ш	Malnutrition: Causes, symptoms, dietary modifications and preventive measures for protein energy malnutrition, nutritional anaemia, pernicious anaemia, underweight, overweight (obesity), anorexia, bulimia nervosa.	12
IV	Physiological changes affecting nutrient needs during pregnancy, lactation, infancy up to old age- Recommended Dietary allowances and meal planning. Nutritional concerns in pregnancy, lactation, infancy, early childhood, school going children, adolescents, adults and old age.	15
V	Etiopathogenesis, clinical symptoms, nutritional requirement and dietary management in diseases-cardiovascular, Hypertension, Hyperlipidaemia, Atherosclerosis, Diabetes Mellitus- Insulin dependent and non-Insulin dependent, Acute and liver disorder-hepatitis, cirrhosis of liver, gastrointestinal disorders-constipation, diarrhoea, peptic ulcer, renal disease, cancer, HIV AIDS.	15

References:

- 1. B Srilakshmi, Dietetics: New age international publisher, New Delhi.
- 2. Mudamsi, Rajgopal: Fundamentals of Food nutritional and diet theraphy
- 3. Dr. M.S. Swaminathan: Food and Nutrition.
- 4. M. S. Swarninathan: The nutritive value of Foods.
- 5. C.Lenka: Guidelines for planning Therapeutic diets, Akinik Publications, New Delhi



- 6. Subhangini A. Joshi: Nutrition and Dietetics Tata McGraw-Hill Publishing Company Limited. New Delhi.
- 7. B.Srilakshmi: Dietetics New age international (P) limited, New Delhi.
- 8. F.A. Antia: Clinical Dietetics and Nutrition, Oxford University Press, London.
- 9. C.H.Robinson: Normal and Therapeutic Nutrition, Oxford & IBH publishing Co. Calcutta.
- 10. Mahtab S. Bamji, N.Rao& V. Reddy: Text Book of Human Nutrition, Oxford & IBH Publishing Co. Pvt Ltd.

Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation
- 3. Attendance

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Paper II Child Guidance and Counseling

Course Type: Major

Credit: 4

Objectives:

• Enable the students to understand the need for guidance and counseling across the life span.

- To discuss among students the process involved in counseling at different stages in life.
- To understand peculiar needs and problems of children and methods of providing assistance to them.

Unit	Topic	No. of Lectures
I	Guidance- Introduction, concept, aims, scope, principles, need of guidance for- children, adolescents, families, qualities of an effective helper.	08
II	Guidance of Children at Home and School- Elementary school years, adolescence, middle years, old age	06
Ш	Counseling- Introduction, meaning, principles, skills of counselling, approaches to counselling-directive, non-directive and eclectic, difference between guidance and counseling.	10
IV	Counselor- Skills of a counsellor, counselor relationship with counselee, individual counseling, group counseling, family counseling.	06
V	Techniques of counseling- Types (Questionnaire techniques, Schedule Techniques, Interview techniques and Cumulative record card) Merits, and Demerits.	10
VI	Life Span Psychological Disorders and Counseling- Childhood, Adolescence, Adulthood, Old age	10
VII	Counselling for children with special needs- special requirements of families having children with special needs, parenting children with special needs.	10

References:

- 1. Gibson, R.L. & Mitchell, M.H.: Introduction to counselling and guidance. New Jersey: Pearson, 2010.
- 2. Gladding, S. T.: Counselling a comprehensive profession. New Delhi: Dorling Kindersley India Pvt. Ltd, 2013.
- 3. Jones, N.R.: Basic counseling skills. Los Angles: Sage Publications, 2012.
- 4. Jones, N.R.: Six key approaches to counseling and therapy. Los Angles: Sage Publications, 2012.
- 5. Bennett, M. E.: Guidance and counselling in groups. McGraw-Hill, New York, 1963.
- 6. Burnard, P.: Counselling skills training book of activities. London: Sage Publications, 2010.
- 7. Burnard, P.: Counselling skills training. New Delhi: Viva Books, 1999.

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- 8. Jaisawal Sitaram: PramarshAivamNirdeshan.
- 9. Dubey, L.N.: PramarshManovigyan.
- 10. Ram Amarnath and Asthana Madhu: NirdeshanAaivamPramarsh.

Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation
- 3. Attendance

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Paper III Practical paper III

Course Type: Major/Practical

Credit: 4

Objectives:

• To enable students to understand the practical concept of therapeutic nutrition.

• To identify the different types of need and therapeutic diet for hospitalized patients.

• To learn about the counseling process role play, mock sessions.

Contents

Unit	Торіс	No. of Lectures
I	Planning and preparation of therapeutic diets for individual suffering from- obese, malnutrition person, acute and liver disorder-hepatitis, cirrhosis of liver, gastrointestinal disorders-constipation, diarrhoea, peptic ulcer, renal disease, cancer, HIV AIDS.	24
П	Assessment of nutritional status- 24-hour dietary recall, anthropometry, clinical assessment of any age group.	05
III	Planning and Preparation of diets for different age groups — Infancy, preschool age, school age, adolescent, adult and old age.	12
IV	Planning and Preparation of diets for Pregnant and Lactating women.	06
VI	Make Scrap Book related to any field- Child Guidance and Counseling.	05
VII	Conducting mock sessions in Guidance and Counselling- Preparing students for role play, Role-play as counsellor and counselee, Group discussion.	08

References:

- 1. Lee RD & Neiman DC: Nutritional Assessment. 5th Edition. Brown & Benchmark, 2009.
- 2. Gibson SR.: Principles of Nutritional Assessment. 2nd Edition. Oxford University press, 2005.
- 3. Williams, S.R.: Basic Nutrition and Diet Therapy. 11th ed. Times Mirror Mosby College Publishing, 2001.
- 4. Verma RampalSingh and Upadhaya: NirdeshanAaivamPramarsh.
- 5. Sukanya Ghosh and Dr. Subir Nag: Hand book of practical guidance and counselling.

Sessional Work:

- 1. Preparation of practical files.
- 2. Attendance

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Paper IV Management of Energy and Household Equipment

Course Type: Major (Optional)

Credit: 4

Objectives:

• To understand the concept of better management of household energy and equipment.

• To make students more responsible by educating regarding the concise use of energy resources.

• To familiarize students with the recent development in household equipment design and technology.

Contents

Unit	Topic	No. of Lectures
I	Energy sources and classification- Renewable and non-renewable sources, conventional and non-	10
	conventional sources, commercial and non-commercial	
	sources of energy, study of alternative sources of	
	energy.	
II	Conservation of energy- Energy conservation Act 2001	12
	and its features, notifications under the Act, Schemes of	
	Bureau of Energy Efficiency (BEE) including	
	Designated consumers, state designated agencies, ECBC	
	code for building construction, proper use and	
	maintenance of domestic cooking, lightening and other	
III	appliances, energy conservation in transport sector. Household equipment- Meaning, classification – in	15
111	terms of cleaning, food processing, laundry equipment	15
	and equipment for personal care and recreation,	
	electrical and non- electrical, portable and non-	
	portable, importance of various household equipment in	
	conserving time, energy and money, factors affecting	
	selection of equipment.	
IV	Material used for household equipment- Base	07
	material - Aluminium, Iron, Steel, Copper, Glass,	
	Plastic. Insulating material - Mica, Fiberglass,	
	Fiberwool, Mineral wool, Plastic, Foam.	
V	Operational principle, use and care of electrical	05
	appliances- Vacuum Cleaner, Mixer-juicer-grinder,	
	Food processor. Oven and cooking range, Microwave	
	oven, Eggbeater. Washing Machine, Geyser, water	
	immersion rod, Iron, Hair dryer.	05
VI	Operational principle uses and care of non-electrical	05
	equipment used in home-Cleaning Mop, Gas stove,	
	Smokeless <i>chulah</i> , Solar cooker, Pressure cooker, Solar water heater.	
VII	Product testing- Need, types of testing, equipment	03
VII	required for testing.	
VIII	Safety of household appliances- Need, classification of	03

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safety, electric shock, its prevention, quality control norms.

References:

- 1. Avery, M.: Household Physics, McMillan Co., New York, 1955.
- 2. Johnson, B.J: Equipment for Modern Living, , McMillan Co., New York, 1970.
- 3. Wilson, P.: Household Equipment Management and Selection, Houghton Miflan Co., Boston, 1981.
- 4. Reddy B.S.: Urban Energy System, Concept Publishing Company, New Delhi, 1998.
- 5. Chatterjee Manas: Energy and Environment in Developing Countries, John Wiley, Chichester, 1981.
- 6. Parich, J.K.: Energy, System and Development, OUP, New Delhi, 1980.
- 7. Raj, G.D.: Non-Conventional Energy, Khanna Publishers, New York, 1996.
- 8. Van Zante H.: Household Equipment Principles, Prentice Hall, New York.

Sessional Work:

- 1. Internal assessment test
- 2. Assignment
- 3. Seminar presentation/Discussion on any topic from entire syllabus
- 4. Survey of available household equipment and appliances in the market
- 5. Attendance

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Paper V Fashion Basics and Merchandising

Course Type: Major (Optional)

Credit: 4

Objectives:

• To impart the knowledge of fashion, textile and designing among students.

To develop sense of different types of marketing and retailing procedure.

Contents

Unit	Topic	No. of Lectures
I	Fashion Introduction - Concept of Fashion, Role of Fashion Designer, New Fashion and Technology.	06
II	Fashion Origin - Fashion clothing theories, Clothing as modesty, protection and status symbol, study of major fashion centers.	06
Ш	Fashion Terminologies- Fashion, Fad, Fashion cycle, Style, Classic, Boutique, Trend, Haute couture, Designer, Pret-a-Porter, Silhouette, Croquis, Fashion icon, Fashion follower, Muse.	10
IV	Fashion Brands- Fashion industry, Branding, Promotion, Fashion Leaders	06
V	Introduction to Fashion Merchandising- Definition, Functions of merchandisers, Sampling & Sources, Elements of Merchandiser, Qualities of Merchandiser	10
VI	Fashion Retail- Introduction, Scope and Importance, Types of stores – Departmental, Speciality and chain stores, Channels of distribution – Designer shops, outlet, Consumer service, Human resource, Sales methods and Competition	10
VII	Introduction to merchandise calendar- Definition, scope prospects of merchandise calendar, Advantages of merchandise calendar, Working and planning process as per merchandise calendar	06
VIII	Merchandise Information- Identify the components of the promotional mix. identify merchandise classifications, Explain sizing in apparel.	06

References:

- 1. Fashion Promotion: Building a Brand Through Marketing and Communication. Gwyneth Moore.
- 2. Fashion From Concept to Consumer, Gini Stephens Frings.
- 3. Encyclopedia of Fashion Details, Patrick John Ireland.
- 4. Introduction to Fashion Designs, Patrick John Ireland.
- 5. Sharon Lee Tate, Inside Fashion Design Harper and Row.
- **6.** Chowdhry Sonia: A unique phenomenon: understanding the dynamics of fashion, Clothersline 11 (11) Nov, 1998.
- 7. Ireland John Patrik: Basic fashion design, London B. T., Bradford Ltd., 1975.

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Sessional Work:

- 1. Internal assessment test
- 2. Seminar presentation/Discussion on any topic from entire syllabus/ Sketching styles for different age group
- 3. Attendance

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Paper VI

Extension Programme Planning and Evaluation Course Type: Major (Optional)

Credit: 4

Objectives:

• To make students understand about the need and steps in programme planning.

• To identify the factors that influence successful programme implementation.

• To familiarize with the evaluation tools and methods.

• To prepare programme for implementation at village level.

Contents

Contents		
Unit	Topic	No. of Lectures
I	Programme Planning- Meaning and importance of	07
	programme planning in extension. Principles of	
	programme planning – programme development cycle and	
	its components.	
11	Plan of work- Meaning, importance, components of a plan	06
	of work, developing a plan of work, factors to be	
	considered in preparing the plan of work.	
III	Resources for programme planning- Meaning of	06
	resource, types of resources, identification and appraisal of	
	resources – resource.	
IV	Programme Implementation- Aspects of execution.	06
	Factors responsible for the successful conduct of a	
	programme.	
V	Evaluation and Follow-up- Meaning and purpose of	08
	evaluation – types of evaluation - self-evaluation, and	
	external evaluation, criteria for evaluation. Follow-up-	
	Need for follow-up, methods of follow-up.	
	Correspondence, spot visit, meetings.	
VI	Documentation - Need for reporting and recording.	07
	Procedures for recording – aspects to be covered. Record	
	and registers to be maintained in programme implementing	
	institutions.	
VII	Participatory Tools and Urban Development Methods-	10
	Participatory Management and Importance of Participatory	
	Methods. PLA (Participatory Learning and Action):	
	Underlying Principles and Techniques, Working with	
	Stakeholders, Using Participatory Methods: Advantages,	
	Challenges and Ways Forward	
VIII	Development programmes in India- Programmes for	10
	nutrition, health, education, wage and self-employment,	
	women's development, skill development, sanitation and	
	infrastructure.	

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- 1. Albrecsht, H.et.al.: Rural Development Series. Agricultural Extension Vol.1&II, 1989.
- 2. Chaubey, B.K.: A Hand book of Education Extension. Jyoti Prakashan, Allahabad, 1979.
- 3. Dahama, O.P. and Bharnagar, O.P.: Education and Communication for Development. Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi, 1987.
- 4. Extension Education in Community Development, Ministry of Food and Agriculture, Government of India, New Delhi, 1961.
- 5. Pankajam, G.: Extension-Third Dimension of Education, Gyan Publishing House, New Delhi, 2000.
- 6. Ray, G.L.: Extension communication and Management. Naya Prokash, Calcutta, 1999.
- 7. Reddy, A.: Extension Education. Sree Lakshmi Press, Bapatla, 1999.
- 8. Sandhu, A.S.: Extension Programme Planning. Oxford & IBH Publishing company Private Limited. New Delhi, 1994.
- 9. Singh,R.: Text Book of Extension Education. Sahitya Kala Prakashan, Ludhiana, 1987.
- 10. Supe, S.V.: Introduction to Extension Education. Oxford Publishers, New Delhi, 1982.

Sessional Work:

- 1. Internal assessment test
- 2. Assignment
- 3. Seminar presentation/Discussion on any topic from entire syllabus

4. Attendance

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Paper VII Sustainable Development and Environment

Course Type: Major (Optional)

Credit: 4

Objectives:

• To enable student, understand the concept of sustainable development, environmental, social and economic dimensions.

• Understand the sustainable development challenges for communities, industries, and academic institutions, and their responsibility.

• To identify the factors that support to achieve sustainability and resilience in an individual level and in a community level.

Contents

Unit	Topic	No. of Lectures
I	Sustainability- Meaning, concept, importance, implications, dimensions, goals, challenges, theories of development, evolution of sustainable development perspectives over the years, Brundtland Commission and outcome, UN summits (Rio summit, etc.) and outcomes.	12
News d	Dimensions to Sustainable Development- Society, environment, culture and economy, current challenges - natural, political, socio-economic imbalance.	06
III	Sustainable Development Initiatives and Policies-Global, Regional, National, Local, Needs of present and future generation - political, economic, environmental.	10
IV	Environment-Definition, concept, components, environmental pollution, sources, development & environmental issues, environmental ethics, global warming, climate change, ozone depletion, acid rain etc. Eco-friendly environmental practices-waste management, energy practices, agriculture practices.	05
V	Natural resources and conservation- Forest resources, water resources, soil resources, food resources, green revolution	06
Vig	Non-renewable energy resources- Oil, Natural gas, Coal. Environmental impacts of non-renewable energy consumption, impact of energy consumption on global economy, application of green technology, future energy options and challenges.	08
VII	Renewable energy resources- Energy efficiency, solar	08
	energy, Hydropower, Nuclear power, Tidal energy, Wave energy, Ocean thermal energy conversion (OTEC), Geothermal energy, energy from biomass, biodiesel.	
VIII	People's participation and Sustainability-History and concept. Relationship between participation, learning and sustainability. People's participation for building	05

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local	knowledge,	Capacity	of	people	and	local		
institution.								

- 1. Robert G. H. Turnbull:Environmental and Health Impact Assessment of Development Projects, Elsevier Sciences Publication
- 2. B.K.Sharma: Environmental Chemistry, Krishna Prakashan Media.
- 3. S C Santra: Environmental Science by, Publisher New Central Book Agency Calcutta, 2001.
- 4. Craig, J.R., Vaughan. D.J. & Skinner. B.J: Resources of the Earth: Origin, Use, and Environmental Impacts (2nd edition). Prentice Hall, New Jersey, 1996.
- 5. Freeman, A.M.: Measures of value and Resources: Resources for the Future. Washington DC, 2001.
- 6. Ginley, D.S. & Cahen, D.: Fundamentals of Materials for Energy and Environmental Sustainability. Cambridge University Press, 2011.
- 7. Bharucha, E.: Textbook of Environmental Studies for Undergraduate Courses, Universities Press (India) Pvt Ltd, 2005.
- 8. Karpagam, M.: Environmental Economics: A Textbook. Sterling Publishers, New Delhi, 2001.
- 9. Rajagopalan, R.: Environmental Studies: From Crisis to Cure. Oxford University Press, New Delhi, 2005.

Sessional Work:

- 1. Internal assessment test
- 2. Assignment
- 3. Seminar presentation/Discussion on any topic from entire syllabus
- 4. Attendance

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Paper VIII Research

Course Type: Project

Credit: 4

Course content:

• Identification of research problem

• Preparation and finalization of synopsis

• Review of literature and methodology of the study.

• Finalization of data collection tool.

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Paper I Gender and Development

Course Type: Major (Optional)

Credit: 4

Objectives:

• To develop awareness regarding status of women in India and sensitivity of women's issues and concerns.

• To enable women to become well informed in the changing society.

• To empower women in their struggle against inequality and gender bias.

Contents

Unit	Topic	No. of Lectures
I	Status of women in Ancient India- Vedic Period, Mauryan	10
	Period, Gupta Period, Medieval Period, British Period, Post	
**	Independence Period.	12
П	Issues And Problems of Women in India- Gender Division of Labour (Organised and Unorganised sector).	12
	77	
	Reproductive Health, Child Marriage, Female Feticide, Honour Killing, Dowry, Divorce, Widowhood, Trafficking,	
	Domestic Violence, Sexual Harassment.	
Ш	Gender and Environment- Nature and Feminine Principle,	10
111	women's dependency on eco system., Care and management	10
	of natural resources, sustainable development, Rise of eco –	
	feminism in India and women's resistance to environmental	
	destruction (Chipko Movement and Narmada	
	BachaoAndolan).	
IV	Gender and Development: Concept of gender, gender	10
	roles, Changing trends, gender analysis matrix, shift from	
	welfare to development and empowerment, gender in	
	development, gender and development, National and	
	International efforts for gender empowerment.	
V	Polices for Women's development: National Policy for	10
	Women's empowerment, Policy perspective, mainstreaming,	
	a gender perspective in the development process. Economic,	
¥ / ¥	Social, Legal and political empowerment of Women.	05
VI	Women and Law: Marriage, divorce, dowry, property, employment and adoption, political participation, Legal	05
	literacy for Women, Family Counselling centre	
VII	Women and Media- Portrayal of Women in The Media	08
	(newspapers, magazines, televisions, movies), Media as A	
	Tool for Women's Education, Employment of Women in	
	Media,	

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- 1. Agrawal, S.P.: Women's Education in India, Guwahati, Eastern Book House, 2001.
- 2. Andal, N.: Women and Indian Society: Options and Constraints, Guwahati, DVS Publishers, 2002.
- 3. Arya Sadhna: Women, Gender Equality and the State, New Delhi, Deep & Deep Publications, 1999.
- 4. Bakshi, S.R.: Empowerment of Women and Politics of Reservation, Guwahati, DVS Publishers, 2002.
- 5. Bharathi Ray: Women of India: Colonial and post colonial periods of History of Sciences and Philosphy in India Civilization, Vol, IX part 3, Sage, New Delhi, 2005.
- 6. Kamal K.Misra, Janet Huber Lowry: Recent Studies on Indian Women, Rawat Pub. Jaipur, 2007.
- 7. Malini Bhattacharya: Women and Globalization, Tulika Books in Association of School of Women's Studies, Jadapur University, New Delhi, 2005.
- 8. Basu, Durga Das: 'Introduction to the Constitution of India', Wadhwa and Company, New Delhi, 2004.
- 9. Country Report: Department of Women and Child Development. Government of India, 1995.
- 10. National Perspective Plan for Women: New Delhi: Department of Women and Child Development. Government of India, 1998.
- 11. Rehman, M.M. and Biswal, K.K.: Education, Work and Women. New Delhi: Common Wealth, Publishers 1993.
- 12. Sharma,O.C: Crime Against Women. New Delhi: Sterling Publishers Private Limited, 1994
- 13. Subbamma, M.: Women, Tradition, Culture. New Delhi: Ashish Puhlishing House, 1985.

Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation /Discussion on any topic from entire syllabus
- 3. Attendance

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Paper II Children with Developmental Challenges

Course Type: Major (Optional)

Credit: 4

Objectives:

• To orient the students about the special education strategies available for disabled children.

• To understand about the characteristics of children with special needs.

• To become familiar with rehabilitative measures for challenging children.

Contents

Unit	Topic	No. of Lectures
Ī	Concept of children with Developmental challenges- Classification, definition and concepts of children with developmental challenges/ disabilities/ impairments, delays and handicapped. Current statistics, its implications on the quality of life.	08
II	Children with Disabilities and Society- Families of children with disability, prevention and management of different disabilities. educational practices- special education and inclusion, policy and laws.	12
Ш	Differently Abled Children- Gifted children, Mentally Challenged, Learning disability, Autism Spectrum Disorder, Attention Deficit Hyperactive Disorder (Definition, Causes, Characteristics, types of educational approaches).	10
IV	Children with Impairments- Definition, classification, Causes, Characteristics, Educational consideration (Visual disorders, Hearing impairment, Children with crippling condition /physical disorders, Speech and language disorders).	10
V	Emotional or Behavioural Disorders- Behaviour problems: Nature of behavioural problem, types, characteristics, Management of children with behaviour problems. Juvenile Delinquency, Abused/ neglected children-Characteristics and causes.	10
VI	Policies and Government Provisions-Legislations and programme for developmentally challenged children	10

References:

- 1. Gargiulo: Special education in contemporary society An introduction to exceptionality, Thompson Wordsworth, 2003.
- 2. Heward, W.L.: Exceptional children An introduction to special education Pearson, 2013.
- 3. Carson, R. C., Butcher, J.N. and Mineka, S.: Abnormal psychology and modern life. 11th Ed. Allyn and Bacon, 1998.
- 4. Kirk, S.A.: Educating exceptional children, Indian Edition, New Delhi: Oxford and IBH, 1970.

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- 5. Orelove, F. P. and Sobsey, D.: Educating children with multiple disabilities: A transdisciplinary approach. 3rd Ed. Baltimore: Brookes, 1996.
- 6. Skinner. C. E.: Educational psychology. New Delhi: Prentice Hall, 1970.
- 7. Chopra, G.: Early Detection of Disabilities and persons with disabilities in the community. New Delhi: Engage publications, 2012.
- 8. Chopra,G.: Stimulating Development of Young Children with Disabilities at Anganwadi and at Home: A Practical Guide. New Delhi: Engage publications, 2012.
- 9. Sharma, N. (Ed): The Social Ecology of Disability-Technical Series -3Lady Irwin College. DelhiAcademic Excellence, 2010.
- 10. Ashok Chaudhary and Reena Chaudhary: Divine Child, Prabhat Publication.
- 11. Prof. Mamta Tiwari and Prof. D.K Singh: *PhasalotraPrabhandanAvaimKhadyaPrasanskaran*, 2018.

Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation/Discussion on any topic from entire syllabus
- 3. Attendance

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Paper III Food Safety, Storage and Preservation

Course Type: Major (Optional)

Credit: 4

Objectives:

• Students will able to understand the importance of quality assurance in food industry.

• To educate about common food adulterants and their detection.

• To teach aboutfood packaging, labelling and laws.

Contents

Unit	Topic	No. of Lectures
I	Food Safety- Sanitation and hygiene, Food borne	03
	disease, Causes of food spoilage	
II	Food Adulteration - Food commonly Adulterated,	06
	Common Adulterants, Classification of Adulterants,	
	Harmful effects of Adulterants, Methods for	
	detection of some common adulterants.	
Ш	Food Fortification-Objectives, nutritional	08
	significance, fortification of salt, cereal, dairy	
~~~	products. Novel processed, supplementary foods.	0.0
IV	Evaluation of foods- Visual examination and	03
	sensory evaluation (colour, texture, flavour and	
V	taste).	12
V	<b>Food Preservation</b> -Concept, Importance of food preservation, Principles underlying food	12
	preservation, Principles underlying food preservation, Preservation by using Preservatives	
	(Natural and Artificial), Preservation by drying,	
	Preservation by use of high temperature & Low	
	Temperature (Pasteurization, Boiling, Canning).	
VI	Traditional Methods of Food Preservation-	04
	Smoking, Sun drying, Pickling/ Salting,	
	Fermentation.	
VII	Recent advances in food preservation- Use of	06
	Antioxidants in food preservation, Cold pressed	
	juices, Use of Natural Preservatives.	
VIII	Storage- Effect of Storage condition on Quality,	96
	Canning - Principles and influence of canned food	
	storage quality.	
IX	Food Packaging, Labelling and Laws- Introduction	12
	of packaging technology: objectives, material used,	
	effect of packaging on the nutritive value of foods,	
	PFA(1954), FPO(1955), MFP(1973), The Vegetable	
	Oil Products (Control) Order, 1947, The Edible Oils	
	Packaging (Regulation) Order, 1998, The Milk and	
	Milk Products Order, 1992, EFA,1955 (in relation to	
	food), Role of Agmark FSSAI, HACCCP.	

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- 1. Borvers, J.: Food Theory and Application (2ndEd), New York: Maxwell MacMillan International Edition, 1992.
- 2. Manay, N. S. and Sharaswamy, S. M.: Foods: Facts and Principles New Delhi: New Age International Publishers, 1997.
- 3. McWilliams, M.: Foods: Experimental Perspectives 5th Ed, New Jersey: Macmillar Publishing Co., 2007.
- 4. Potter, N. N. and Hutchkiss, J. H.: Food Science, 5th Ed, New Delhi: CBS Publishers and Distributors, 1997.
- 5. Rick Parker: Introduction to Food Science, New York: Delmar Thomson Learning. Scottsmith and Hui Y.H (Editors), 2004.
- 6. Subbulakshmi, G and Udipi, S. A.: Foods Processing and Preservation, New Delhi: New Age International (P) Ltd. Publishing, 2001.
- 7. Swaminathan, M.: Food Science Chemistry and Experimental Food. The Bangalore Printing and Publishing Co. Ltd, 1995.
- 8. Vacklavick, V. and Christian, E.: Essentials of Food Science.New York: Kluwer Academic/ Plenum Publisher. ** All new journals related to Food Preservation**, 2003.
- 9. PrakashTriveni: Food Preservation, Aadi Publication, Delhi.
- 10. M. ShafiurRahman: Hand Book of Food Preservation, Marcel Dekker Inc, New York.
- 11. McWillims and Paine: Modern Food Preservation, Surject Publication.
- 12. Dr. Navneet Kaur: Fashion Design Vol.1 Fashion Concept, Comdex /Dreamtech press.

#### Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation/Discussion on any topic from entire syllabus

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3. Attendance



# Paper III Clothing Construction

Course Type: Major (Optional)

Credit: 4

## Objectives:

• To enable students to understand the concept of design as related to apparel and fabric.

• To enhance awareness and appreciation of art and aesthetics through design.

• To enable the student to develop skills in clothing construction.

## Contents

Unit	Topic	No. of Lectures
1	Selection of Clothing- Scope and types of design (Structural and Decorative), factors influencing selection of fabrics (age, sex, season, occasion, occupation, fashion, budget).	03
II	<b>Principles of design-</b> Elements of arts, principles of design.	02
IV	Body measurements- procedure, need, figure types and anthropometry.	03
V	Equipment and tools for manufacturing garments- advancements and attachments used for sewing machine. Types of machines used and their parts, Study the interrelationship of needles, thread, stitch length and fabric.	08
VI	Pattern making-drafting, draping and flat pattern making techniques, pattern alteration and dart manipulation techniques.	10
VII	Basic cutting procedure – tracing, pinning & cutting.	04
VIII	Laying & cutting special fabrics - plaids, one-way fabrics, bi-directional, border.	08
IX	Facts about fabrics- Importance & identification of grain, identifying right & wrong side, different widths of fabrics, economical layout plan.	08
X	Folding fabrics for cutting – lengthwise, crosswise, bias.	03
XI	Fitting Credit- Figure irregularities, factors affecting good fitting, common problems encountered in fittings of garments, basic alterations – remedies for fitting defects – lengthwise & width wise, alteration for both above waist & below waist garments.	07
XII	Use of construction features in design- seams, darts, tucks, pleats, gathers, placket opening, shirring Different types of – necklines, collars, yokes and sleeves.	04

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- 1. Dr. Sangita Saxena: Fundamentals of Textile and Apparel Manufacturing, Rajasthan Hindi Granth Academy.
- 2. Neeraj Singh: Vastra Vigyan Evam Paridhaan Ek Parichay / Introduction to Textile and Clothing, Shri Vinod Publication, 2021.
- 3. Dr. Pramila Verma: Science of Textile and Clothing, Bihar Hindi Granth Academy, 2016.
- 4. Santosh Batalia:Cloth Manufacture, Design and Style, Madhya Pradesh Granth Academy, Bhopal, 2013.
- 5. R.Vatsala: Textbook of Textile and Clothing, ICAR publication.
- 6. Shashi Prabha Jain and Archana Jain: *VastraEvam Paridhan*, Shiva Prakashan, Indore.
- 7. Manju Patni and Sapna: ParivarikParidhanVyavastha, Henry, Star Publications.
- 8. G.P. Sherry: Vastra Vigyan keMoolSidhanth, Vinod Pustak Mandir.

#### Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation
- 3. Preparation of samples
- 4. Attendance



## Paper IV Ergonomics

Course Type: Major (Optional)

Credit: 4

## **Objectives:**

• To make students aware of the role of ergonomics in improving workefficiency.

• Enable students to understand the importance of adopting good work postures, designing of workspaces.

• To understand the relation of work environment and performance of work.

## **Contents**

Unit	Topic	No. of Lectures
I	Introduction to Ergonomics- Meaning, importance and basic ergonomic principles, Scope of ergonomics in modern society, Man-Machine-Environment system interactions.	06
II	Physiology of Work and Motion and Time Study-Structure and function of muscles, Physiology of muscular work, Energy for muscle action, Efficiency of muscle contraction, limiting factors on muscular contraction and factors affecting physical work capacity. Static and dynamic muscular work, muscular strength and endurance, assessment of muscular strength and endurance, benefits of muscular strength and endurance. Workload, classification of workload, repetitive work, acceptable workload in occupational activities, prevention of muscular overload. Mental workload, factors affecting mental workload, Definition and Principles of motion economy.	15
111	Body Postures and Musculo Skeletal Disorders (MSDs)-Common postures at work -standing, sitting, reaching, moving, Factors that influence working posture – user characteristics, task requirements and design of the workspace, Effect of wrong postures on cardiovascular and musculoskeletal system, Suggestive techniques of guidelines for safe body postures at work, Assessment of work postures using Rapid Upper Limb Assessment (RULA) tool and Rapid EntireBody Assessment (REBA) tool, Workrelated MSDs – definition, causes, types and their prevention.	15
IV	Anthropometry and its Applications- Definition of anthropometry and anthropometric variables /measurements, percentile humans, types of anthropometric data used in ergonomics – structural, functional. Applications of anthropometry.	
V	Application of Ergonomic Principles- Ergonomic principles basic to hand tool design, Ergonomic design considerations for kitchen and Ergonomic Computer workstation set up.	06
VI	Work Environment- Effect of hot and cold environments	08

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on work performance. Control of exposure to / protection against heat and cold, effect of noise on work performance, methods to reduce noise, effect of light on work performance, effect of colour on work performance, effect of furniture on work performance.

#### References:

- 1. Stephen Pheasant: Body space. Anthropometry, Ergonomics and the Design of Work, Taylor& Francis Ltd, London, 2003
- 2. Grandjean E: Fitting the task to man An ergonomic Approach, Taylor and Francis, London, 1985.www.ilocis.org
- 3. Barnes R M.: Motion and time study, John Wiley &Sons.
- 4. Nag P. K.: Ergonomics and work design, New Age International Pvt Ltd, NewDelhi
- 5. Varghese M. A., Saha P. N. and Atreya, N.: Ergonomics of women at work,
- 6. Allied Publishers Ltd, Mumbai, 2000.
- 7. R S Bridger: Introduction to Ergonomics, Taylor and Francis, London.
- 8. Gross I.H. and Crendall, E.W. and Knoll, M.M.: Management for Modern Families, Prentice Hall Inc. New Delhi

#### Sessional Work:

- 1. Internal assessment test
- 2. Assignment/Seminar presentation /Discussion on any topic from entire syllabus
- 3. Attendance

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## Paper III Practical paper III

Course Type: Major/Practical

Credit: 4

## **Objectives:**

• To develop in them the sensitivity for working with developmentally challenged children.

• To understand the principles and methods of food preservation.

• To provide with technical knowledge in techniques of clothing construction.

• To know application of ergonomics consideration in designing of work place.

#### Contents

Contents		
Unit	Topic	No. of Lectures
I	Study of etiology, characteristics, diagnosis of children with different disabilities, development of intervention packages for children with special needs, survey of attitudes of people towards disability, collection of pictures & brochures of assistive devices.	20
II	Dehydration of fruits and vegetables and shelf-life studies: is effect on colour, texture and flavour. Preparation of Pickles – Mix Vegetables, Mango, Lemon. Chillies, Preparation of Papad, Potato wafers, Preparation of Squash, Marmalade.	20
Ш	Construction of darts, pleats, tucks, gathers, basic seams, collars and sleeves. Stitching of garment: Salwar /Churidar, kameez/blouse, party wear frock/ gown, knitting of sweater/ making of designer's dupatta.	20
IV	Market survey and listing of ergonomic furniture and household tools (detail characteristics), Anthropometry for household work. Report on ergonomic assessment in the workplace/institution and presentation. Preparing file and report writing.	20
	Note: Student will select any THREE practical units according to the opted three courses.	

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- 1. Kirk Samuel: Educating Exceptional children, TBH, New Delhi.
- 2. Bhargava M.: Introduction to exceptional children, Sterling Publishers, New Delhi, 1994.
- 3. Grewel J.S: Early Childhood Education, foundation in Practices, HarprasadBhargwa Publication, Agra, 1998.
- 4. Desrosare N.W.: Technology of Food Preservation, ABT Pub company.
- 5. Deulkar D.: "House hold textile & Laundry work" Atmaram& son. New Delhi.
- 6. Shree Doongaji and Roshani Desh Pande: Basic Process and Clothing Construction, Publisher Unique Education Books, Raj Parkashan, New Delhi.
- 7. MulhakPremlata: Garment Construction Skills, Sewing Techniques, ADKPublishing Books, New York 1996.
- 8. Thomas, Anna, Jacob: The Art of Sewing, UBSPDPublisherDistributors Ltd, Delhi.
- 9. Grand JeenEttiens: Ergonomics of the Home, Taylors and Francis Ltd. London, 1978.
- 10. Chaffinm D.B. and Anderson G.B.: Occupational Bio-Mechanics, John Wiley & Sons, 1984.
- 11. Subbamma, M.: Women, Tradition, Culture. New Delhi: Ashish Puhlishing House, 1985.
- 12. Baruah, A.: Women in India, Anmol publication Pvt. Ltd.
- 13. Kahol, Y.: Violence Against Women, Reference Press.

#### Sessional Work:

- 1. Preparation of practical file
- 2. Attendance

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## Paper VIII Research

Course Type: Project

Credit: 4

## Course content:

• Data collection of the study.

• Interpretation of data.

• Report writing and finalization of research project.

## Note:

Research project should be Accompanied by Presentation and Interview.

• Hard Bound Dissertation with Minimum 100 Pages.

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