CURRICULAM FOR MASTER'S DEGREE

2020-2021

DEPARTMENT OF HOME SCIENCE UNIVERSITY OF LUCKNOW LUCKNOW

University of Lucknow Department of Home Science Master of Arts in Home Science Programme Regulations -2020

Applicability

These Regulations shall apply to the Master in Arts in Home Science Programme from the session 2020-21

Minimum Eligibility for Admission:

Any graduate with Home Science, B.A./B.Sc. (with minimum 45% marks for General category and minimum 40% marks for SC/ST) or without Home Science (Subject (Education, Economics, Psychology, Anthropology and B.Sc. (Bio-Group) with minimum 55% marks) shall be eligible for admission in the Course.

Programme Objectives:

The objective of the Course is to develop responsive and responsible home-makers and skillful, talented, productive citizens of the nation with high potential and professionalism by imparting knowledge in various areas of Home Science and creating suitable attitude for the same. The major objectives are:

- Women empowerment
- Skill development and enhancement
- Capacity building
- Entrepreneurial development
- Student centric and job oriented courses

Program Outcomes:

The Program trains students to:

- Understand basic and advanced theoretical and practical knowledge in 05 branches of Home Science.
- Develop advanced skill in one of the five branches of Home Science.
- Convert knowledge and skill into entrepreneurship models.
- Become responsible citizens with professional attitude.

Specific Programme Outcomes:

The courses focus on skill development and capacity building to empower women to initiate their own enterprise

- Courses aim at equipping the students with necessary proficiencies for a wide variety of career with entrepreneurial skills and placement.
- Practical training/exposure through internship, field visit, project work, expert lectures, demonstration, workshops and seminars
- Specialised courses in sync with industry academic needs.
- Focus on updating with National & Global issues and concerns.

- Emphasis on capacity building and sensitization to help individual, family, society and nation to understand needs, their development, challenges, issues of concern and possible remedies or steps for different stages of life cycle.
- Encouraging innovative and creative ideas for initiating entrepreneurship.
- Curriculum based capacity building through subject wise research methods and scientific writing.

DISCIPLINE 1: Child Development

DISCIPLINE 1: Child Development			
Course	Outcomes		
MHSCC-101: Advance Human Development (Core)	 To undertake an advanced study of the stages in human development with special focus on stages from prenatal development to adulthood. To understand the need for theory of Human Development. 		
MHSEL301A/B/C: Early	To realize the importance of early years		
Childhood Care and			
Education (DEC)			
MHSEL302A/B/C: Methods	To study different methods and techniques of		
and Materials for Early	understanding Human Development.		
Childhood Care and	To apply the various methods in a practical context		
Education (DEC)			
MHSEL401A/B/C: Children	 To develop competence in understanding the well 		
with Special Needs (DEC)	being of children with special needs		
MHSEL402A/B/C: Human	 To understand and demonstrate the basics of 		
Development- Theories and	knowledge relating to human development		
Current Trends (DEC)			
MHSCC-204: Methods and	To understand various techniques for studying		
Techniques of Assessment	human development		
in Human Development	To make students aware about scientific methods for		
	analysis of human development		

DISCIPLINE II: Food and Nutrition

Course	Outcomes	
MHSCC-102: Food Science (Core)	 To provide an understanding of composition of various food stuffs. To familiarize the students with changes occurring during processing and cooking. 	
MHSCC-201: Advance Nutrition (Core)	 To get an insight into interrelationships between various metabolic pathways. To understand the mechanisms adopted by the human body 	
MHSIER-301: Dietetics and Therapeutic Nutrition	 To know the principles of diet therapy To understand the modification of normal diet for 	

(Interdepartmental Course)	therapeutic purposes	
MHSEL301A/B/C: Clinical and Therapeutic Nutrition (DEC)	To make the students understand the etiology and prevention of various diseases	
MHSEL302A/B/C: Community Nutrition (DEC)	 To be familiar with the common nutritional problems of the community. To get exposure of the schemes to combat malnutrition. To be aware of the health hazards related to food and water 	
MHSEL401A/B/C: Food Processing and Technology (DEC) MHSEL402A/B/C: Institutional Food Administration (DEC)	 Enabling students to various methods for evaluating variety of foods. To understand and use various methods of preservation of food To understand the special characteristics of food service establishment. To learn manpower management techniques. 	

DISCIPLINE 3: Extension and Communication

Course	Outcomes	
MHSCC-103: Extension and Communication Concepts in Community Development (Core) MHSCC-301: Extension	 To be aware of the approaches to development. To understand the existing support structure for development efforts. To understand the process of communication in development work To understand the process of programme planning in 	
Programmes: Design & Evaluation (Core)	 extension. To learn the principles and procedures involved in programme planning, implementation and evaluation. 	
MHSEL301A/B/C: Communication Technologies in Extension (DEC)	 To impart knowledge and understanding of various communication systems. To enhance the versatility of the students in the selection and use of media in different socio-cultural environments. To impart skill in preparation of Computer Aided Media messages 	
MHSEL302A/B/C: Training and Development (DEC)	To understand the educational process in development	
MHSEL401A/B/C: Gender in Extension and	 To understand the concept, need, relevance and dimensions of gender empowerment. To get sensitized to gender disparities and problems 	

Development (DEC)	of women.	
	To understand the efforts at different levels for	
	empowering women	
MHSEL402A/B/C:	To understand the concept of health and health	
Community Health	indices popularly used.	
Management (DEC)	• To realize the health problems of the community and	
	the scientific intervention	

DISCIPLINE 4: Textiles and Clothing

Course	Outcomes	
MHSCC-203: Textile Science (Core)	To understand the basics of textile with relation of material and techniques The state of	
MHSEL301A/B/C: Textiles Testing and Quality Control (DEC)	To understand the quality of textile and procedures involved in quality control	
MHSEL302A/B/C: Fabric Ornamentation (DEC)	To understand the various techniques and procedures of fabric ornamentation	
MHSEL401A/B/C: Advance Apparel Construction (DEC)	To study the protocols of selecting suitable fabrics for apparel construction	
MHSEL402A/B/C: Textile Management (DEC)	To have an insight of current marketing needs in textile industry	

DISCIPLINE 5: Family Resource Management

Course	Outcomes	
MHSCC-202: Theory of	To understand the basic concepts of resource	
Management (Core)	management	
MHSCC-302: Ergonomics	To study the principles of designing in terms of work	
for Home Science (Core)	efficiency	
MHSCC-401:	To study basics of managing business related to	
Entrepreneurship	Home Science	
Management (Core)		
MHSEL301A/B/C:	To understand the concepts of managing energy and	
Management of Energy	house hold equipments for better output	
and House Hold		
Equipment (DEC)		
MHSEL302A/B/C:	To comprehend the necessity of sustainable usage of	
Resource Management	natural resources	
(DEC)		
MHSEL401A/B/C:	To understand the needs of managing space with	
Residential Interior Design	relation to needs and efficiency	
(DEC)		

MHSEL402A/B/C:	To comprehend the needs and demands in the local	
Consumer Economics	and international markets	
(DEC)		

OTHERS: SEC, Practical, Dissertation etc

Course	Outcomes		
MHSCC-104: Research	To understand the research methods specific to Home		
Methodology (Core)	Science		
MHSCC-205: Statistics	To understand the significance of statistics and		
and Computer	research methodology in Home Science		
Applications (Core)			
MHSVC-101: Fashion	To understand the basics of fashion and designing		
Designing- I (VAC	through skill enhancement and garment components		
Credited)			
MHSVNC-201: Garbh	To understand the role of Pre-natal Care		
Sanskar (VAC Non-	To aware students about all stages of pregnancy and		
credited)	related health issues		
MHSIN-301: Summer	To gain experience through technical training in the		
Internship	field conditions		
MHSMT-401: Dissertation	To develop analytical understanding and writing skills		
MHSCC-105: Practical	To learn laboratory based and scientific techniques		
(Core)			
MHSCC-206:Practical			
(Core)			
MHSIRA-401:			
Intradepartmental Course			
(Practical)			

- The department track how many of the students who successfully complete the course seek employment or go in for higher studies.
- Continuous assessment provides feedback on the efficacy of the teaching-learning process and learning outcomes of each course. This is in the form of assignments which are a part of the internal assessment as well as additional quizzes, tests and assignments which are periodically given to students.
- As part of the course outcomes of the various papers taught to students during the Masters' program, there is substantial scope of evaluation of opportunities for skill building, enhancement of conceptual understanding, training in research methodology, and experiential and fieldwork learning.
- All students undertake internship in organizations involved in development related activities like in social service, schools, industries and hospitals. They are evaluated

- on this by the organization where they went for internship as well as a committee of teachers for their application of learning from across courses.
- Successful completion of courses like seminars and dissertation is also evaluated in a
 department committee. Every student prepares a research design, carries out fieldwork
 and writes a dissertation or thesis that is evaluated by external examiners.

LEARNING OUTCOMES:

In contemporary times, Home Scientists promote capacity building of individuals and communities for social and economic empowerment. They train community women and youth from various strata of society for entrepreneurship. Many Home Scientists have done exceptionally well as entrepreneurs themselves. They do not remain job seekers but have also become job creators. They gain and provide employment in research organizations, food and textile industries, dietetic practice, education and child development domains, accreditation of green buildings, strategic planning and communication technologies.

Years of national and international experience in the field has contributed to the wisdom that all the five windows of opportunity that Home Science offers be opened for i.e. Food and Nutrition, Human Development, Resource Management, Extension and Communication and Fabric and Clothing and Textile. In this course, the students will learn the fundamental principles and foundations of all the five areas. They are expected to internalize the principle of a Home Scientist, that is, to give back to the community from which they draw, for sustainable development.

- Understand and appreciate the role of interdisciplinary sciences in the development and well-being of individuals, families and communities
- Understand the sciences and technologies that enhance the quality of life of people
- Acquire professional and entrepreneurial skills for economic empowerment of self in particular, and community in general
- Develop professional skills in food, nutrition, textiles, housing, product making, communication technologies and human development
- Take science from the laboratory to community.

6. COURSE STRUCTURE

The Course Structure of the Master in Arts in Home Science Programme shall be as under:

Course No.	Name of the Course	Credit	Remark
	Semester I		
MHSCC-101	Paper-1 Advance Human Development	04	Core Course
MHSCC-102	Paper-2 Food Science	04	Core Course
MHSCC-103	Paper-3 Extension and Communication Concepts in Community Development	04	Core Course
MHSCC-104	Paper-4 Research Methodology	04	Core Course
MHSCC-105	Paper-5 Related to Core Papers(Practical)	04	Core Course
MHSVC-101	Paper-6 Fashion Designing	04	Value added course (Credited)
	Semester Total	24	
	Semester II		
MHSCC-201	Paper-7 Advance Nutrition	04	Core Course
MHSCC-202	Paper-8 Theory of Management	04	Core Course
MHSCC-203	Paper-9 Textile Science	04	Core Course
MHSCC-204	Paper-10 Methods and techniques of Assessment in Human Development	04	Core Course
MHSCC-205	Paper-11 Statistics and Computer	04	Core Course
MHSCC-206	Paper-12 Related to Core Paper(Practical)	04	Core Course
MHSVNC- 201	Paper-13 Garbh Sanskar	00	Value added course(Non Credited)
	Semester Total	24	
	Semester III		
MHSCC-301	Paper-14 Extension Programs: Design and Evaluation	04	Core Course
MHSCC-302	Paper-15 Ergonomics for Home Science	04	Core Course/ MOOC
Discipline I: Child Development			
MHSEL301A/ B/C	Paper-16 Early Childhood Care and Education	04	Elective
MHSEL302A/ B/C	Paper-17 Methods and Materials for Early	04	Elective

	Childhood Care and Education		
	Discipline II: Food and Nutrition		
MHSEL301A/ B/C	Paper-16 Clinical and Therapeutic Nutrition	04	Elective
MHSEL302A/ B/C	Paper-17 Community Nutrition	04	Elective
D/C	Discipline III: Extension and Communicat	ion	
MHSEL-	Paper-16 Communication Technologies in		
301A/B/C	Extension	04	Elective
MHSEL- 302A/B/C	Paper-17 Training and Development	04	Elective
	Discipline IV: Textile and Clothing		
MHSEL301A/ B/C	Paper-16 Textile Testing and Quality Control	04	Elective
MHSEL- 302A/B/C	Paper-17 Fabric Ornamentation	04	Elective
	Discipline V: Family Resource Manageme	nt	1
MHSEL- 301A/B/C	Paper-16 Management of Energy and Household Equipment	04	Elective
MHSEL- 302A/B/C	Paper-17 Resource Management	04	Elective
MHSIN-301	Paper -18 Summer Internship	04	Summer Internship
MHSIER-301	Paper -19 Dietetics and Therapeutic Nutrition	04	Interdepart mental Course
	Semester Total	24	
MHSCC-401	Semester IV Paper -20 Entrepreneurship Management Discipline I: Child Development	04	Core Course
	Discipline 1. Clind Development		
MHSEL401A/ B/C	Paper -21 Children with Special Needs	04	Elective
MHSEL402A/ B/C	Paper -22 Human Development: Theories and Current Trends	04	Elective
	Discipline II: Food and Nutrition		
MHSEL401A/ B/C	Paper -21 Food Processing and Technology	04	Elective
MHSEL402A/ B/C	Paper -22 Institutional Food Administration	04	Elective
	Discipline III: Extension and Communicat	ion	

MHSEL401A/ B/C	Paper -21 Gender in Extension and Development	04	Elective	
MHSEL402A/ B/C	Paper -22 Community Health Management	04	Elective	
	Discipline IV: Textile and Clothing		1	
MHSEL401A/ B/C	Paper -21 Advance Apparel Construction	04	Elective	
MHSEL402A/ B/C	Paper -22 Textile management	04	Elective	
Discipline V: Family Resource Management				
MHSEL401A/ B/C	Paper -21 Residential Interior Designing	04	Elective	
MHSEL402A/ B/C	Paper -22Consumer Economics	04	Elective	
MHSMT-401	Paper -23 Dissertation From Elective Discipline	08	Master Thesis	
MHSIRA-401	Paper -24 Intradepartmental Course (Practical)	04	Intradepart mental Course	
	Semester Total	24		
	GRAND TOTAL	96		

M.A. Home Science – Subject; MHSCC – Core Course; MHSVC – Value added course (Credited); MHSVNC - Value added course (Non Credited); MHSEL –Elective; MHSIER – Interdepartmental Course; MHSIRA – Intradepartmental Course

Master of Arts in Home Science Programme in Brief

Title	The title of the Course shall be Master of Arts in Home Science
Objective	The objective of the Course is to develop responsive an responsible home-makers and skillful, talented, productive citizens of the nation with high potential and professionalism by imparting knowledge in various areas of Home Science and creating suitable attitude for the same.
Duration	The total duration of the Course shall be of two years, spread in four semesters.
Seats	The total number of students to be admitted in the Course shall be 40 .
Eligibility	Any graduate with Home Science, B.A./B.Sc. (with minimum 45% marks for General category and minimum 40% marks for SC/ST) or without Home Science (Subject (Education, Economics, Psychology, Anthropology and B.Sc. (Bio-Group) with minimum 55% marks) shall be eligible for admission in the Course.
Fees	Fee will be charged as per University Fee Structure from time to time. For the session 2020-2021 the proposed fee is Rs. 16,000.00 per Semester.
Admission Policy	Admissions shall be made on the basis of University norms. Reservation policy as per rules of University of Lucknow will be followed.
Course Content	 The two year P.G. Course of Home Science is divided into four semesters i.e. two each in M.A. (Prev.) and M.A. (Final). During these four semesters, knowledge enhancement of the students will be done through: 14 (Fourteen) Core Courses / MOOC of 04 credit each (from five disciplines i.e. Child Development, Food and Nutrition, Extension and Communication, Textile and Clothing, Family Resource Management along with Research Methodology) [14 x 4 = 56 Credits] 04 (Four) Discipline Elective Courses of 04 credit each (to be selected from any one of the aforesaid five disciplines) [04 x 04 = 16 Credits] 02 (two) Value Added Course (01 Credited + 01 Non-credited) of 04 credit each (from Fashion Designing) [01 x 04 = 04 Credits] 01 (one) Inter-Departmental Course of 04 credits [01 x 04 = 04 Credits] 01 (one) Internship of 04 credit (on any relevant Topic/Discipline) [01 x 04 = 04 Credits] 01 (one) Dissertation of 08 credit (on a Topic based on one of the Elective disciplines adopted by the student) [01 x 08 = 08 Credits] 01 (one) Intradepartmental Course (Practical based on Elective Discipline) of 04 credit [01 x 04 = 04 Credits]
Distribution of Marks	 There theory papers will be each of 100 marks (70 marks for Written Examination + 30 marks for Internal Assessment) for each theory paper Practical work including Viva-Voce will be of 100 marks including 30 marks for Internal Assessment. Dissertation will be of 200 marks

The details of the semester wise courses offered in each discipline are as under:

SEMESTER- I: (05 Core with 01 Practical + 01 VAC)

Paper 1 (Core): MHSCC-101: Advance Human Development

Paper 2 (Core): MHSCC-102: Food Science

Paper 3 (Core): MHSCC-103: Extension and Communication Concepts in

Community Development

Paper 4 (Core): MHSCC-104: Research Methodology

Paper 5 (Core Practical): MHSCC105: Related to Core Papers

Paper 6 (Value added): MHSVC-101: Fashion Designing

SEMESTER- II: (06 Core with 01Practical+ 01 VAC-NC)

Paper 7 (Core): MHSCC-201: Advance Nutrition

Paper 8 (Core): MHSC-202: Theory of Management

Paper 9 (Core): MHSC2-03: Textile Science

Paper 10 (Core): MHSC-204: Methods and Techniques of Assessment in Human Development

Paper 11 (Core): MHSCC-205: Statistics and Computer Applications

Paper 12 (Core Practical): MHSCC-206: Related to Core Papers

Paper 13 (Value added): MHSVNC201: Garbh Sanskar

SEMESTER- III: (02 Core / 01 MOOC + 02 Elective +01 Summer

Internship+01Interdepartmental Course)

Paper 14 (Core): MHSCC-301: Extension Programmes: Design and Evaluation

Paper 15 (Core): MHSCC-302: Ergonomics for Home Science/MOOC

Discipline I: Child Development

Paper 16 (Elective): MHSEL301A/B/C: Early Childhood Care and Education

Paper 17 (Elective): MHSEL302A/B/C: Methods and materials for early childhood Care and

education

Discipline II: Food and Nutrition

Paper 16 (Elective): MHSEL301A/B/C: Clinical and Therapeutic Nutrition

Paper 17 (Elective): MHSEL302A/B/C: Community Nutrition

Discipline III: Extension and Communication

Paper 16 (Elective): MHSEL301A/B/C: Communication Technologies in Extension

Paper 17 (Elective): MHSEL302A/B/C: Training and Development

Discipline IV: Textile and Clothing

Paper 16 (Elective): MHSEL301A/B/C: Textile Testing and Quality Control

Paper 17 (Elective): MHSEL302A/B/C: Fabric Ornamentation

Discipline V: Family Resource Management

Paper 16 (Elective): MHSEL301A/B/C: Management of Energy and Household Equipment

Paper 17 (Elective): MHSEL302A/B/C: Resource Management

Paper 18 (Summer Internship): MHSIN-301: summer Internship

Paper 19 (Interdepartmental Course): MHSIER-301: Dietetics and Therapeutic Nutrition

SEMESTER- IV: (01 Core + 02 Discipline Elective + 01 Practical + 01 Dissertation)

Paper 20 (Core): MHSCC-401: Entrepreneurship Management

Discipline I: Child Development

Paper 21 (Elective): MHSEL401A/B/C: Children with Special Needs

Paper 22 (Elective): MHSEL402A/B/C: Human Development: Theories and Current Trends

Discipline II: Food and Nutrition

Paper 21 (Elective): MHSEL401A/B/C: Food Processing and Technology

Paper 22 (Elective): MHSEL402A/B/C: Institutional Food Administration

Discipline III: Extension and Communication

Paper 21 (Elective): MHSEL 401A/B/C: Gender in Extension and Development

Paper 22 (Elective): MHSEL 402A/B/C: Community Health Management

Discipline IV: Textile and Clothing

Paper 21 (Elective): MHSEL 401A/B/C: Advance Apparel Construction

Paper 22 (Elective): MHSEL 402A/B/C: Textile Management

Discipline V: Family Resource Management

Paper 21 (Elective): MHSEL 401A/B/C: Residential Interior Designing

Paper 22 (Elective): MHSEL402A/B/C: Consumer Economics

Paper 23 (Dissertation): MHSMT-401: Dissertation (from Elected Discipline)

Paper 24 (Intradepartmental): MHSIRA-401: Practical

Table for Courses offered for M.A. (Home Science)

I	II
M.A. (Home Science) Prev. Semester 1	M.A. (Home Science) Prev. Semester II
05 Core with 01 Practical + 01 VC	06 Core with 01Practical+ 01 VNC
Paper1(Core):MHSCC-101: Advance Human Development	Paper 7 (Core):MHSCC-201: Advance Nutrition
Paper 2 (Core): MHSCC-102: Food Science	Paper 8 (Core): MHSC-202: Theory of Management
Paper 3 (Core):MHSCC-103: Extension and	Paper 9 (Core): MHSC2-03: Textile Science
Communication Concepts in Community Development	Paper 10 (Core): MHSC-204: Methods and
Paper 4 (Core): MHSCC-104: Research Methodology	Techniques of Assessment in Human Development
Paper 5 (Core Practical): MHSCC105: Related to Core Papers	Paper 11 (Core): MHSCC-205 : Statistics and Computer Applications
Paper 6 (Value added): MHSVC-101: Fashion Designing	Paper 12 (Core Practical): MHSCC-206:Related to Core Papers
	Paper 13 (Value added): MHSVNC 201: Garbh Sanskar
Ш	IV
M.A. (Home Science) Semester III	M.A. (Home Science) Semester IV
02 Core / 01 MOOC + 02 Elective +01 Summer Internship+01Interdepartmental Course)	01 Core + 02 DEC + 01 Practical + 01 Dissertation
Paper 14 (Core):MHSCC-301 :Extension Programmes: Design and Evaluation	Paper 20 (Core): MHScc401: Entrepreneurship Management
Paper 15 (Core): MHSCC-302: Ergonomics for Home Science/MOOC Discipline 1: Child Development	Discipline I: Child Development Paper 21 (Elective): MHSEL401A/B/C: Children with Special Needs
Paper 16 (Elective): MHSEL301A/B/C:Early Childhood Care and Education	Paper 22 (Elective):MHSEL402A/B/C: Human
Paper 17 (Elective): MHSEL302A/B/C:Methods and materials for	Development: Theories and Current Trends
early childhood Care and education	Discipline II: Food and Nutrition Paper 21 (Elective): MHSEL401A/B/C:
Discipline II: Food and Nutrition Paper 16 (Elective): MHSEL301A/B/C:	Food Processing and Technology
Clinical and Therapeutic Nutrition	Paper 22 (Elective): MHSEL402A/B/C: Institutional Food Administration
Paper17(Elective):MHSEL302A/B/C: Community Nutrition	
	Discipline III: Extension and Communication

Discipline III: Extension and Communication Paper16(Elective):MHSEL301A/B/C:

Communication Technologies in

Extension

Paper 17 (Elective):

MHSEL302A/B/C:Training and Development

Discipline IV: Textile and Clothing
Paper 16 (Elective): MHSEL301A/B/C:

Textile Testing and Quality Control

Paper 17 (Elective): MHSEL302A/B/C

Fabric Ornamentation

Discipline V: Family Resource Management Paper 16 (Elective): MHSEL301A/B/C:

Management of Energy and Household Equipment

Paper 17 (Elective): MHSEL302A/B/C:

Resource management

Paper 18 (Summer Internship): MHSIN-

301: summer Internship

Paper 19 (Interdepartmental Course):

MHSIER-301: Dietetics and Therapeutic

Nutrition

Paper 21 (Elective): MHSEL401A/B/C: Gender

in Extension and Development

Paper-

22(Elective):MHSEL402A/B/C:Community

Health Management

Discipline IV: Textile and Clothing

Paper-21(Elective):MHSEL401A/B/C:Advance

Apparel Construction

Paper22(Elective):MHSEL402A/B/C:Textile

Management

Discipline V: Family Resource Management Paper21(Elective): MHSEL401A/B/C:

Residential Interior Designing

Paper-22(Elective):MHSEL402A/B/C:Consumer

Economics

Paper 23 (Dissertation): MHSMT-

401:Dissertation (from Elected Discipline)

Paper 24(Intradepartmental): MHSIRA-401: Practical **Related to Discipline Elective Papers**

Table for Discipline wise Core, Elective and other Courses offered for M.A. (Home Science)

Discipline – I	Discipline II
Child Development	Food and Nutrition
Core Course:	Core Course:
MHSCC-101: Advance Human Development	MHSCC-101:: Food Science
MHSC-204: Methods and Techniques of	MHSCC-201:: Advance Nutrition
Assessment in Human Development	Discipline Elective Courses (DEC):
Discipline Elective Courses (DEC): MHSEL301A/B/C: Early Childhood Care and Education	MHSEL301A/B/C: Clinical and Therapeutic Nutrition
MHSEL302A/B/C: Methods and materials for	MHSEL301A/B/C: Community Nutrition
early childhood Care and education	MHSEL401A/B/C: Food Processing and
MHSEL401A/B/C: Children with Special	Technology
Needs	MHSEL401A/B/C: Institutional Food
MHSEL402A/B/C: Human Development:	Administration

Theories and Current Trends	MHSIER-301: Dietetics and Therapeutic Nutrition
Discipline III	Discipline IV
Extension and Communication	Textile and Clothing
Core Course:	Core Course:
MHSCC-103: Extension and Communication	MHSCC-203: Textile Science
Concepts in Community Development	Discipline Elective Courses (DEC):
MHSCC-301: Extension Programmes: Design and Evaluation	MHSEL301A/B/C: Textile Testing and Quality Control
Discipline Elective Courses (DEC):	MHSEL302A/B/C: Fabric Ornamentation
MHSEL301A/B/C: Communication Technologies in Extension	MHSEL401A/B/C: Advance Apparel Construction
MHSEL302A/B/C: Training and Development	MHSEL402A/B/C: Textile Management
MHSEL401A/B/C: Gender in Extension and Development	
MHSEL402A/B/C: Community Health Management	
Discipline V	Others
Family Resource Management	Practical, Dissertation etc
Core Course:	Core Course:
MHSCC-202: Theory of Management	MHSCC-104:Research Methodology
MHSCC-302: Ergonomics for Home Science/MOOC	MHSCC-205: Statistics and Computer Applications
MHSCC-401: Entrepreneurship Management	MHSCC-105: Practical Related to Core Papers
Discipline Elective Courses (DEC):	MHSCC-206: Related to Core Papers
MHSEL301A/B/C: Management of Energy and Household Equipment	Discipline Elective Courses (DEC):
MHSEL302A/B/C: Resource Management	Intradepartmental: MHSIRA-401: Practical Related to Discipline Elective Papers
MHSEL401A/B/C: Residential Interior Designing	Value added Course:
	MHSVC-101: Fashion Designing
	THIS VE TOT: I domain Designing
MHSEL402A/B/C: Consumer Economics	MHSVNC-201: Garbh Sanskar

(from Elected Discipline)

Discipline, Paper and Unit wise Syllabus

DISCIPLINE 1: Child Development

Course ID	Course (Core)
MHSCC-101	Advance Human Development
Objectives	To undertake an advanced study of the stages in human development with special focus
	on stages from prenatal development to adulthood.
	To understand the need for theory of Human Development.
Unit-1	Human Development: Concepts, Principles, Growth and Development.
	Pre-natal period and Birth: Development, genetic and environmental factors affecting prenatal
	Development, delivery and birth.
Unit-2	Infancy: Physical and perceptual development; Cognitive, social and emotional development.,
	language development
Unit-3	Early and Middle Childhood: Physical and motor development; Cognitive development; Social
	and Emotional development, language development
Unit-4	Adolescence: Physical development; Cognitive development; Social and Emotional
	development, problems during adolescent
Unit-5	Adulthood: Physical, sensory and cognitive changes during adulthood, social and emotional
	development ,adjustment problems during adulthood
Practical	• Study of physical, motor, social, emotional, language, intellectual and moral
	development at different ages and writing interpretative report.
	Prepare Resource File.
	Seminar/Presentation on any topic related to Human Development.
References	1. Berk L.E., Child Development, Allyn ans Bacon, USA, 2000.
	2. Devadas R.P.C. & Jaya N.A Textbook on Child Development, McMillan India Ltd. Delhi,
	1996.
	3. Stuart Clark- Life Span Development.
	4. Papalia D.E., Human Development, Tata McGraw Hills Publishing Company 1997.
	5. Turner Jeffery.S. & Life Span Development. Harcourt Helms. Donald B.
	6. Dehart G.B. & Sroufe. L Alan. Child Development- its Nature and Course.
	7. Santrok John W Child Development, McGraw Hill.
	8. Hughes, Noppe & Nopp (1996). Child Development, Prentice Hall, New Jeresy

Course No.	Course (Core)
MHSCC-	Methods and techniques of Assessment in Human Development
204	
Objectives	To understand various techniques for studying Human Development.
	To make the students aware about scientific method of analyzing Human Development.
Unit-1	Assessment-definition and function of assessment, Assessment techniques, Approaches to
	assessment, concept of measurement, Techniques of measurement, Relative efficacy of

	assessment tools and measuring different aspect of development.
Unit-2	Assessment scales- neonatal scales, infant and toddler assessment scales, Infant- toddler scales,
	Early childhood assessment _ types, Administration of cognitive test for children.
Unit-3	Administration of personality test for children- New trends in assessment of human behavior,
	Current challenges in assessment of human behavior, Ethical issue in the assessment of human
	development.
Unit-4	Scientific method- importance, Criteria- reliability, validity, control, Types and test for reliability
	and validity, Item analysis- Importance and types, Item analysis procedures.
Unit-5	Principles of developing a test / scale. Standardization procedures.
	Types of scales – nominal scales – construction rules, Ordinal scales – construction rules, Interval
	scales, Ration scales – construction rules.
Practical	 Development of test/ scales for assessment.
References	1. Robert M. Kaplan, Dennis P. Saccuzzo, 2005, "Psychological Testing", Principles,
	Applications and issues, Wodsworth, U.S.A.
	2. Pestonjee D.M. 2003., "Third hand book of psychological and social instruments". Vol.1,
	Concept Publishing Company, New Delhi.
	3. James Goodwin, 2002 "Research in Psychology". Methods and design, 3 rd edition, John
	Wiley & Sons, Inc. U.S.A.
	4. L.R. Gay. Geoffrey, E. Mills and Peter Airasian, 2000, "Educational research",
	Competencies for Analysis and applications, 8th edition, Pearson, Merrill Prentice Hall,
	New Jersy.

Course ID	Course (DEC)	
MHSEL301A/B/C	Early Childhood Care and Education	
Objectives	To realize the importance of early years	
Unit-1	ECCE: Concepts, objectives, need, scope and significance.	
	Types of Pre-school: Play Centers, Day Care, Montessori, Kindergarten, Balwadi,	
	Aganwadi.	
	ECCE in the National Policy on Education	
Unit-2	Contribution of the thinkers in ECCE: Pestalozzi, Rousseau, Frobel, John Dewey, Maria	
	Montessori, M.K. Gandhi and Rabindra Nath Tagore.	
Unit-3	ECCE in India: Pre Independence period, Post Independence-Kothari Commission,	
	Contribution of Five Year Plans to ECCE, Yash Pal Committee.	
Unit-4	Contribution of the mentioned agencies/ programmes to ECCE in India: ICCW, IAPE,	
	NCERT, ICDS, UNICEF, NCTE, Mobile Crèche etc.	
Unit-5	Pre-School Centers: Concept, Administrative set-up, Functions and Organization.	
Practical	Visit to Early Childhood Care and Education Centres, recording information and	
	observation and writing report.	
	Planning ECCE programmes including infra-structural facilities and budget	
	proposals.	
	 Conducting interaction programmes with teachers and parents. 	
	 Developing literature for parents preparing & using visual Aids. 	
References	5. Grewal J.S., 1998. Early Childhood Education - Foundation & Practices, Harprasad	
	Bhargava	
	6. Edu. Publishers, Agra.	
	7. Mohanty & Mohanty,1994. Early Childhood Care and Education, Deep & Deep	
	Pub., New Delhi.	
	8. Singh B, 1997. Pre-School Education, APH Publishing Corp., New Delhi.	
	9. Muralidharan R & Banerji V, 1991: A Guide for Nursery School Teacher, NCERT,	
	New Delhi.	

MHSEL302A/B/C	Course ID	Course (DEC)	
To apply the various methods in a practical context Unit-1 Basic principles and methods of Early Childhood Education Play: Role of Play in development and education in early years; Types of play activities. Programme Planning for young children: Principles, goals, objectives, schedule of activities Unit-2 Play activities and materials for physical and motor development: Movement and mobility; Gross and fine motor skills; Healthful living; Role of educator Play activities for social and emotional development and for exploring the environment Unit-3 Play activities for developing Communication- language skills: Importance of communication, promotion of language skills- listening, speaking, reading and writing; Activities for language development: conversation, pre-reading, writing skills, songs and rhymes, storytelling, riddles. Unit-4 Literature for children: Need and types; Importance of storytelling and techniques of storytelling. Art and creative activities: Significance, types of art activities; Role of teacher in planning the activity, motivating children; Music Unit-5 Activities to promote mathematical concepts in young children: Development of mathematical concepts; Principles of teaching mathematical concepts Activities to promote Science: Thinking, observing, inferring, classifying, communicating; Concept formation - differentiation, grouping, labeling; Developing scientific outlook and Role of teacher in some important science experiences. Practical Developing and conducting activities to promote the development of the child. Developing theme based projects for children (egscience concepts and mathematical concepts) and implementing them in pre-school programmes. Developing educational and play materials for pre-schoolers using indigenous materials. Developing and conducting creative art activities for pre-scholars.	MHSEL302A/B/C	Methods and Materials for Early Childhood Care and Education	
Unit-1	Objectives	To study different methods and techniques of understanding Human Development.	
Play: Role of Play in development and education in early years; Types of play activities. Programme Planning for young children: Principles, goals, objectives, schedule of activities. Unit-2 Play activities and materials for physical and motor development: Movement and mobility; Gross and fine motor skills; Healthful living; Role of educator Play activities for social and emotional development and for exploring the environment Unit-3 Play activities for developing Communication- language skills: Importance of communication, promotion of language skills- listening, speaking, reading and writing; Activities for language development: conversation, pre-reading, writing skills, songs and rhymes, storytelling, riddles. Unit-4 Literature for children: Need and types; Importance of storytelling and techniques of storytelling. Art and creative activities: Significance, types of art activities; Role of teacher in planning the activity, motivating children; Music Unit-5 Activities to promote mathematical concepts in young children: Development of mathematical concepts; Principles of teaching mathematical concepts Activities to promote Science: Thinking, observing, inferring, classifying, communicating; Concept formation - differentiation, grouping, labeling; Developing scientific outlook and Role of teacher in some important science experiences. Practical Developing and conducting activities to promote the development of the child. Developing and conducting activities to promote the development of the child. Developing ducational and play materials for pre-schoolers using indigenous materials. Developing picture books/story books and rhymes. Developing and conducting creative art activities for pre-scholars. Prepare Resource files for children.		To apply the various methods in a practical context	
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r references — F. Chewai, J.S., Daily Childhood Education Foundation and Plactice, H. Ed.,	References	1. Grewal, J.S., Early Childhood Education Foundation and Practice, II Ed.,	
Educational Publishers.			
2. Singh, Bhoodev, Pre-School Education, Ist Ed. APH Publishing Corporation.			
Publications Pvt. Ltd.			
4. Swaminathan M. (1998) The first five year. Sage Publications, New Delhi			
5. Muralidharan R (1991), A Guide to Nursery School Teachers, NCERT, New Delhi.			

Course ID	Course (DEC)
MHSEL401A/B/C	Children with Special Needs
Objectives	To develop competence in understanding the well being of children with special
	needs
Unit-1	Introduction to Children with Special Need: Definition and terminology; Types of
	special children; Children at risk- poverty and gender issues; Genetic and environmental
	factors in disability; Effect of the disability on the child; Early detection, screening
	identification; Need for intervention, education, rehabilitation; Role of family and child

	care worker.
Unit-2	Services for Special Children: Prevalence in India; The issues of labeling; Policies and
	legislation for the disabled; Prevention of the disability; Rehabilitation; Approach towards
	disability
Unit-3	The Child with mental Retardation: Definition and classification; Causes of mental
	retardation; Identification; Characteristics; Managing children with mental retardation at
	home; Special educational measures
	Gifted Children: Definition, characteristics of gifted children, identification, special
	educational measures, role of parents.
Unit-4	Visually Impaired Children: Definition- Blind and partially sighted children;
	Identification; Causes; Effect of visual impairment on child's development; Special
	education & training; Role of family in detection, early stimulation and training
	Hearing Impaired Children: Definitions - Deaf and hard of hearing children;
	Classification: Mild, moderate, severe and profound loss; Causes of hearing impairment;
	Identification, care, early stimulation and education of hearing impaired children; Role of
	family in detection and child's language development
	The Children with communication disorders: Definition and meaning; Classification;
	Causes; Management and education of children with communication disorders.
Unit-5	The Children with Cerebral Palsy and Orthopedic Disability: Definition and
	classification; Causes and associated conditions; Identification and integrated education;
	Rehabilitation of children with physical disability; Role of family in care and early training.
	Children with behavioural Disorders: Definition; General causes; Types; Behavioural
	problems associated with Autism, Allenton Deficit Hyper activity Disorder (ADHD),
	Enuresis; Behavioural problems of children showing excessive anxiety, phobia, temper-
	tantrums, withdrawal behaviour and aggressive behaviour.
Practical	• Study of etiology, characteristics, diagnosis of children with different disabilities
	and recording information.
	 Visit of Centres and Institutions for special children and recording information and
	observation.
	Writing Reports.
References	1. Kirk Samuel, Educating Exceptional Children, TBH, New Delhi.
	2. Bhargava M. (1994) - Introduction to Exceptional Children, Sterling Publishers,
	New Delhi.
	3. Kar Chintamani (1996)- Exceptional Children: Their Psychology and Education,
	Sterling Publishers, New Delhi.
	4. Sahu B.K. (1993)- Education of the Exceptional Children, Kalyani Publishers, New
	Delhi.

Course ID	Course (DEC)		
MHSEL402A/B/C	Human Development- Theories and Current Trends		
Objectives	To understand and demonstrate the basics of knowledge relating to human		
	development		
Unit-1	Early Theories		
	Psychological Theory- Sigmund Freud		
	Psychological Theory- Erik Erikson		
Unit-2	Social Learning Theory- Albert Bandura		
	Learning Theories- Pavlov and Skinner		
Unit-3	Cognitive Development Theory- Jean Poaget		
	Socio-Cultural Theory of Cognitive Development- Vygotsky		
Unit-4	Kohlberg's Moral Judgement Theory		

	Ecological Theory- Vrie Bronfenbrenner	
Unit-5	Recent Theoretical Perspectives of Human Development	
Practical	Group Discussions: Various Theories of Human Development and Crises	
	Management	
	• Resource file-Collection of element articles, picture, tests about theories theorists,	
	philosopher, thinkers, psychologist, educationists (related to Human Development).	
References	1. Hall, G.S. and Lindzey, G Theories of Personality.	
	2. Johnson, R.C. and Medinnus, G.R Child Psychology behaviour and Development.	
	3. Lowe, C.M Value Orientation in Counselling and Psycho-therapy.	
	4. Cavanaugh, M.E., The Counselling Experience: A Theoretical and Practical	
	Approach, Monterey CA Brooks, Cole,1982.	
	5. Gelso, Charles J. and Fretz, Bruce R., Counselling Psychology, Prism Book Pvt.	
	Ltd. Bangalore.	

DISCIPLINE II: Food and Nutrition

Course ID	Course (Core)		
MHSCC-102	Food Science		
Objectives	To provide an understanding of composition of various food stuffs.		
	To familiarize the students with changes occurring during processing and cooking.		
Unit-1	Introduction to Food Science: Constituents of Foods- General, physical and chemical		
	properties; Colloidal systems; gels; emulsions.		
	Enzymes: Importance of enzymes and their application in Food Industry		
Unit-2	Cereals and Cereal Products: Types, composition and structure; Functional properties of		
	starch; Wheat starch and Gluten formation; Properties of amylase and amylopectin.		
	Fats and Oils: Types and Sources (Animal and Vegetable); Functional properties and uses in		
	cookery.		
Unit-3	Milk and Milk Products: Composition; Uses in cookery; Effects of Heat, Enzymes, Acid and		
	Salts on milk; Shelf Life and storage.		
	Eggs: Structure, composition and grading; Changes during storage; Functional properties; Uses		
	in cookery.		
TT '4 4	Meat, Fish and Poultry: Structure and composition; Post mortem changes.		
Unit-4	Pulses and legumes: Composition and structure; Selection and variety; Functional properties of		
	pulses. Vegetables: Composition and classification; Changes occurring during cooking; Pigments and		
	flavour constituents.		
	Fruits: Composition; Changes occurring during maturation and ripening; Post harvest changes;		
	Pigments and flavour constituents.		
Unit-5	Sugar Cookery: Stages of sugar cookery		
Practical	Sugar Cookery: Stages of sugar cookery.		
	• Fats and Oils: Melting point, Smoke Point. Suitability of different fats as medium for		
	cooking.		
	Milk and Milk products: Effect of acids, salts, alkali, sugar, heat and enzymes.		
	Eggs: Methods of egg cookery and effect of heat.		
	Pulses: Effect of cooking and processing methods.		
	• Fruits and Vegetables: Effects of cooking, metal ions and p ^H on pigments.		
References	1. Amerine MA, Pengborn RM, Roceasier EB (1965). Principles of Sensory Evaluation		
	and Academic Press, New York.		
	2. Bealon GH and Begos JM (eds.) (1996), Nutrition in Preventive Medicine WHO.		

3. Belitz HD an Grosch W (1999) Food Chemistry Springer Verleg Berlin
4. Heidelberg.
5. Bamji M.S., Rai PN and Reddy V (eds.) Food Chemistry (2nd edition) Spinger, New York.
6. Anita Singh, Ahar evam poshan vigyan, Star publication, Agra
7.Devina sahai(2019), Ahar Vighyan, New Age International Publisher.

Course ID	Course (Core)		
MHSCC-201	Advance Nutrition		
Objectives	To get an insight into interrelationships between various metabolic pathways.		
	To understand the mechanisms adopted by the human body		
Unit-1	Minimal Nutritional Requirements and RDA: Formulation and RDA and Dietary Guidelines;		
	Reference Man and Reference Women; Body Composition.		
	Energy in Human Nutrition: Energy Balance; Assessment of Energy Requirements;		
	Deficiency and Excess.		
Unit-2	Carbohydrates: Digestion; absorption and metabolism (Glycolysis, Gluconeogenesis, Citric		
	Acid Cycle); Regulation of Blood Sugar; Glycemic Index of Foods; Dietary Fibre; Composition,		
	Properties and Nutritional Significance.		
Unit-3	Proteins: Digestion, absorption and metabolism (Transamination and deamination of amino		
	acids), Urea Cycle; Assessment of Protein Quality (BV, PER, NPO); Factors affecting		
	bioavailability.		
	Lipids: Digestion, absorption and metabolism (beta- oxidation, de-novo synthesis of fatty acids,		
	synthesis and breakdown of unsaturated fatty acids, cholesterol, phospholipids and		
	triacylglycerol.		
** *	Nutritional significance: Saturated, mono-unsaturated and poly-unsaturated fatty acids.		
Unit-4	Minerals: Bioavailability, requirements, functions, deficiency and toxicity.		
TT 1. 5	Vitamins: Sources, requirements, bio-chemical functions, deficiency and toxicity.		
Unit-5	Nutrition through the life span: Meal planning during adulthood, pregnancy, lactation,		
D (1	infancy, pre-school and school age, adolescence.		
Practical	Preparation of Meal Plans for different age and socio-economic groups.		
	Presentation of Seminars and Group Discussions.		
References	1. Cherley H (1982). Food Science (2nd edition), John Wiley & Sons, New York.		
	2. Gopalan C. (eds.) (1993) Recent Trends in Nutrition, Oxford University Press.		
	3. International Child Health: A Digest of Current Information.		
	4. Jallinek G (1985). Sensory Evaluation of Food Theory and Practice, Ellis Harwood		
	Chicester.		
	5. Srilaxmi B. Dietetics (2014), Seventh edition, New Age International Publisher.		
	6. Anita Singh, Ahar evam poshan vigyan, Star publication, Agra 7.Devina sahai(2019),Ahar Vighyan, New Age International Publisher.		
	7.Devina sanai(2019),Anar vignyan , ivew Age international Publisher.		

Course ID	Course (DEC)	
MHSEL301A/B/C	Clinical and Therapeutic Nutrition	
Objectives	To make the students understand the etiology and prevention of various diseases	
Unit-1	Basic concepts of diet therapy: New trends in delivery of nutritional care and dietary	
	counseling.	
	Assessment of Patient's needs based on interpretations of patient's data: Clinical, bio-	

	chemical and personal.		
Unit-2	Energy modifications and nutritional care for weight management: Identifying the		
	over-weight and obese; Factors contributing to obesity; Low energy diet and behavioral		
	modifications; Under weight – etiology and assessment; High energy diets for weight gain-		
	anorexia, nervosa and Bullemia.		
Unit-3	Diets for febrile, infections and surgical conditions.		
	Etiological factors, symptoms, diagnostic tests and dietary management: Stomach		
	diseases; Gastric and duodenal ulcers; Diarrhea and constipation		
Unit-4	Diseases of the Liver: Viral, Hepatitis, Cirrhosis of liver; Diseases of the gall bladder.		
	Diabetes Mellitus: Classification, symptoms, diagnosis, metabolic changes and		
	management.		
	Diseases of the Cardiovascular System : Atherosclerosis- Etiology and Risle Factors;		
	Hyperlipidemia- Brief review of lipo-proteins and their metabolism; Hypertension.		
Unit-5	Diseases of the Kidney: Glomerulorephiritis, Nephrotic Syndrome and Renal Failure.		
	Diseases of Musculo-skeletal System: Rheumatoid Arthritis, Osteo-arthritis, Osteo-		
	porosis, Gout.		
	Interaction between drugs and nutrients		
Practical	 Planning and preparing of therapeutic diets for patients of different disorders. 		
	Visit to Hospital Kitchen.		
	Presentation of Report.		
References	1. Potter, N. and Hotchkiss JH (1996). Food Science, Fifth Edition CBS Publishers		
	and Distributors, N. Delhi.		
	2. Peckhem G and Freeland Greaves GH (1979). Foundation of Food Preparation.		
	3. Piggott, JR (ed.) (1988), Sensory Analysis of Foods. Elsevier Applied Sense,		
	London.		
	4. Park K. (2000). Parks Text Book of Preventive and Social Medicine, 18th Edition.		
	M/s Banarsidas Bhanot, Jabalpur.		
	5. Pomeren's and Melmen CE (1996). Food Analysis: Theory and Practice CES		
	Publishers and Distributor, New Delhi.		

Course ID	Course (DEC)		
MHSEL302A/B/C	Community Nutrition		
Objectives	To be familiar with the common nutritional problems of the community.		
	 To get exposure of the schemes to combat malnutrition. 		
	 To be aware of the health hazards related to food and water 		
Unit-1	Concepts of community nutrition.		
	Nutritional problems of the community and its implications for public health.		
	Causes, incidence, signs and symptoms and treatment of PEM, Vitamin A deficiency, Iron		
	Deficiency, Iodine Deficiency, Fluorosis and Lathyrism.		
Unit-2	Sociological factors contributing in the Etiology and Prevention of Malnutrition: Food		
	production and availability, cultural influences, socio-economic factors, food consumption		
	and distribution, emergency disaster conditions.		
Unit-3	Assessment of Nutritional Status: Meaning, Need, Objectives and Techniques.		
	Primary Methods: Anthropometric measurements: Weight, Height, Skin Fold Thickness,		
	Head Circumference, MUAC, Chest Circumference; Use of Growth Chart; Bio-chemical		
	Assessment; Clinical Method; Dietary Survey - Types.		
Unit-4	Secondary Methods: Vital Statistics; Mortality Rates- Crude death rate; infant mortality		
	rate,; maternal mortality rate; survival rate; morbidity rate; fertility rate.		
Unit-5	Malnutrition and Infection: Interrelationship between the two, Immunization.		
Practical	Assessment of a community using Rapid Assessment Procedure.		

	To undertake Dietary Survey by different Methods.
	 Calculation of food and nutrient intake of a particular class of people.
	Determination of Hemoglobin Content in Human.
	Anthropometric assessments.
	Clinical Observations.
References	1. Publications of the International Life Science Institute.
	2. Serimshow N and Glesson G (ed.) (1991). Rapid Assessment Methodologies for
	Planning and Evaluation. Health Related Programme published by (INFDC)
	International Nutrition Foundation for Developing Countries.
	3. Stryer L (1984). 4th ed. Bio-Chemistry WH Freeman and Co.
	4. UNICEF's State of the World's Children.
	5. WHO (1999) Nutrition for Health and Development Progress and Prospects. On the
	eve of the 21st Century WHO INHD, 99.9 Geneva.

Course ID	Course (DEC)
MHSEL401A/B/C	Food Processing and Technology
Objectives	Enabling students to various methods for evaluating variety of foods.
	To understand and use various methods of preservation of food
Unit-1	Introduction: Brief review of main food crops grown in the country - their nutritional
	importance.
	Food and its preservation (Home and Community Level including commercial operations): Cause 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.
Unit-2	Refrigeration (Use of low temperature): Refrigeration and freezing – methods, principles
Ollit 2	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.
Unit-3	Chemical Principles of Food Processing: Preservation/ processing by sugar, salt, curing,
	smoke, acids and chemicals.
	Principles and methods used for various products such as pickles, chutney, ketchup,
	sauces, fruit juices, squashes, fruit syrups and cordials.
Unit-4	Fruit and vegetable processing methods and products
	Milk Processing: Classification, standardization, homogenization and packaging.
	Meat, fish and egg processing: Methods and products; Ageing ; tenderizing; curing; smoking; freezing.
	Food additives: Classification and products
Unit-5	Nutritional Implications of Food Processing: Causes for loss of vitamins and minerals;
-	Enrichment, restoration and fortification
	Sensory Analysis: Definition, types of test, use in product evaluation
Practical	Advance Diploma Courses may be arranged for the students for Food Preservation
	and Bakery and Confectionery.
	• Visits to food processing units such as Dairy, Cold Storage Plant and Preservation
	Centres.
References	1. Cherley H (1982). Food Science (2nd edition), John Wiley & Sons, New York
	2. Gopalan C. (eds.) (1993) Recent Trends in Nutrition, Oxford University Press
	3. International Child Health: A Digest of Current Information

4.	Jallinek G (1985). Sensory Evaluation of Food Theory and Practice, Ellis Harwood
	Chicester
5.	Jelliffe DE and Jelliffe EFP (1989). Community Nutritional Assessment, Oxford
	University Press

Course ID	Course (DEC)		
MHSEL402A/B/C	Institutional Food Administration		
Objectives	To understand the special characteristics of food service establishment.		
	To learn manpower management techniques.		
Unit-1	Introduction to Food Service Systems: Characteristics of various types of food service		
	units.		
	Strategies in Planning: Conceptual Strategy; Marketing Strategy; Financial Strategy.		
Unit-2	Management of Resources: Finance; Determining the finance needed to establish or run a		
	unit; Budgets; Sources of finance; Planning adequate cash flow.		
Unit-3	Space for Equipment: Steps in planning layouts; Determining equipment; Selection &		
	Placement; Maintenance of equipment; Layout analysis		
Unit-4	Material: Menu Planning suitable to different systems; Recipe development &		
	Standardization of yields.		
	Staff: Manpower planning; Manpower placement; Recruitment, induction, motivation &		
	performance appraisal		
Unit-5	Cost accounting/ Analysis: Food cost analysis; Records to be maintained; Report & trend		
	analysis; Marketing & Sales Management; Marketing strategies; Sales analysis; Market		
D .: 1	promotion.		
Practical	Evaluation of food Service Units		
	Market survey of food service equipment		
	Planning menus for quantity- Banquet, outdoor catering, packed Meals, Restaurant.		
	• Standardizing recipes for quantity-100; 250; 500		
	Cost Analysis of Menus in- College Canteen, Hostel Mess, Hospitals		
References	1. Publications of the International Life Science Institute.		
	2. Serimshow N and Glesson G (ed.) (1991). Rapid Assessment Methodologies for		
	Planning and Evaluation. Health Related Programme published by (INFDC)		
	International Nutrition Foundation for Developing Countries.		
	3. Stryer L (1984). 4th ed. Bio-Chemistry WH Freeman and Co.		
	4. UNICEF's State of the World's Children.		
	5. WHO (1999) Nutrition for Health and Development Progress and Prospects. On the		
	eve of the 21st Century WHO INHD, 99.9 Geneva.		

Course No.	Course (Interdepartmental Course)
MHSIER-301	Dietetics and Therapeutic Nutrition
Objectives	To know the principles of diet therapy.
	To understand the modification of normal diet for therapeutic purposes.
Unit-1	Principles of Dietetics, Preventive promotive and curative role of dietetics in health and
	disease.
	Principles and importance of Menu Planning.
Unit-2	Nutrition during the life cycle: Infancy, Early Childhood/ Preschool age, School going age,
	Adolescence, Old Age
Unit-3	Dietary modification required in the following conditions:
	Overweight and underweight.
	Fever and infections.

	Lower and upper Gastro-intestinal tract disorders.
	Liver and Pancreatic disorders.
Unit-4	Causes, symptoms and dietary modification required for the following conditions:
	• Diabetes
	Hypertension
	Cardiovascular disorders
	• Cancer
	Nutritional Anemia
Unit-5	Planning and preparation of normal and therapeutic diets for various physiological and
	disease conditions.
Practical	Menu planning for various stages of life span.
References	1.Srilaxmi B. Dietetics (2014), Seventh edition, New Age International Publisher.
	2. Anita Singh, Ahar evam poshan vigyan, Star publication, Agra

DISCIPLINE 3: Extension and Communication

Course ID	Course (Core)	
MHSCC-103	Extension and Communication Concepts in Community Development	
Objectives	To be aware of the approaches to development.	
	To understand the existing support structure for development efforts.	
	To understand the process of communication in development work	
Unit-1	Community: Definition, concept and characteristics of a community; Structure and organization	
	of different types of communities: tribal, rural and urban.	
Unit-2	Social groups and Organizations: Concept, types, characteristics of different social groups,	
	interests, attitudes and motivations for affiliation.	
	Community Leadership: Concept, leadership theories; patterns and characteristics of leadership	
	in different communities; Role of leadership in community development.	
Unit-3	Extension: Meaning, changing concept of extension, philosophy, objectives, principles,	
	functions, components of extension.	
	Extension systems: Outline of National Extension Systems in India: Community Development	
	Programme, ICAR Extension System; State Agricultural Universities; KVK; Role of State	
	Governments in Extension Programmes related to Community Health and other policies, Central	
	Social Welfare Board, Panchayati Raj System.	
Unit-4	Extension Teaching: Methods and Process; Steps in extension teaching methods; Teaching	
	Aids: types, characteristics and functions; Role of Media in the Process of Learning; Cone of	
	Learning.	
Unit-5	Development Communication: Definition, Nature, Role and Significance of Development	
	Communication; Interrelation between Development and Development Communication; Models	
	of Development Communication.	
Practical	Preparation of Teaching Aids: Charts, Posters, Flash Cards and Literature	
	Visit to nearby slum areas and other places	
	Preparation of reports based on survey	
References	1. Communication for Development in the Third World Theory and Practices (1991) . Sage	
	Publication, New Delhi.	
	2. Chaubey BK (1990) A Handbook of Education Extension, Jyoti Publication, Allahabad	
	3. Singh, R. (1987)Text Book of Extension Sahitya Kala Prakashan, Ludhiana	
	4. Extension Education in Community (1961) Ministry of Food and Agriculture,	
	Government of India, New Delhi	
	5. Extension Programme Planning, Oxford and IBH Publishing Company Pvt. Ltd. New	

Delhi

Course ID	Course (Core)
MHSCC-301	Extension Programmes: Design & Evaluation
Objectives	To understand the process of programme planning in extension.
	To learn the principles and procedures involved in programme planning ,implementation
	and evaluation.
Unit-1	Programme Planning: Meaning and importance of programme planning in extension;
	Principles of programme planning: programme development cycle and its components;
	Identifying felt needs of people, collection of base line data; SWOT Analysis.
Unit-2	Plan of Work: Meaning, importance, components of a plan of work; Developing a plan of work
	- factors to be considered in preparing the plan of work, Pre-requisites for developing plan,
	criteria for judging the plan of work; Resources for programme planning - Meaning of resource,
	types of resources, identification and appraisal of resources.
Unit-3	Programme Implementation: Aspects of execution, Factors responsible for the successful
	conduct of a programme, Role of officials and non-officials in programme implementation,
	Linkages with other agencies, Problems in implementation.
Unit-4	Evaluation and Follow-up: Meaning and purpose of evaluation, types of evaluation: self-
	evaluation and external evaluation, criteria for evaluation, Phases of evaluation, tools of
	evaluation, observation sheet, interview schedule, rating scale and checklist, Follow-up: Need for
** ** *	follow-up, methods of follow-up, correspondence, spot visit, meetings.
Unit-5	Documentation: Need for reporting and recording, Procedures for recording - aspects to be
D : 1	covered, Records and registers to be maintained in programme implementing institution.
Practical	Development of social welfare projects
	Development of Survey Performa for Review of welfare programmes
	Analysis of on-going welfare programmes
	Visit and survey places were on-going welfare programmes are under implementation
	Reporting on welfare programmes and presentation of reports
References	1. Sandhu A.S. (1994) Extension Programme Planning , Oxford and IBH Publishing
	Compnay Pvt. Ltd., New Delhi.
	2. Communication for Development in the Third World Theory and Practices (1991). Sage
	Publication, New Delhi.
	3. Chaubey BK (1990) A Handbook of Education Extension, Jyoti Publication, Allahabad
	4. Singh, R. (1987)Text Book of Extension Sahitya Kala Prakashan, Ludhiana
	5. Extension Programme Planning, Oxford and IBH Publishing Company Pvt. Ltd. New
	Delhi

Course ID	Course (DEC)
MHSEL301A/B/C	Communication Technologies in Extension
Objectives	To impart knowledge and understanding of various communication systems.
	To enhance the versatility of the students in the selection and use of media in
	different socio-cultural environments.
	 To impart skill in preparation of Computer Aided Media messages
Unit-1	Communication Systems: Types of communication systems- concept, functions and
	significant interpersonal, organizational, public and mass communication. Elements,
	character and scope of mass communication. Mass communication-models and theories;
	Visual communication-elements of visual design - colour, line, form, texture and space;
	Principles of visual design - rhythm, harmony, proportion, balance and emphasis; Visual
	composition and editing.

Unit-2	Media Systems: Trends and Techniques: Concept, scope and relevance of media in
	society; Historical background: nature, characteristics, advantages and limitations and
	future prospects of media; Traditional media vs. Modern media.
Unit-3	Electronic Media: Trends in Radio, TV and Cyber Media, Impact and policies, future
	challenges and scope.
	Media Research: Need, scope and approaches.
Unit-4	Print Media: Role of press in Mass Media
	Press Law in India: History and present scenario
	News: Its meaning, concept and news agengies
Unit-5	Advertising: Definition, concept and role of advertising in modern marketing system and
	national economy.
Practical	 Preparation of Reports with the help of computers.
	Evaluation of Advertisements
	Writing of Newspaper Story
	 Preparation and Mock Presentation of Radio/ Television Interviews
	 Preparation of Digital Library of Photographs
References	1. Chaubey BK (1990) A Handbook of Education Extension, Jyoti Publication,
	Allahabad
	2. Singh, R. (1987)Text Book of Extension Sahitya Kala Prakashan, Ludhiana
	3. Extension Programme Planning, Oxford and IBH Publishing Company Pvt. Ltd.
	New Delhi
	4. Joshi Umer (1997). Textbook of Mass Communication and Media, Anmol
	Publications, New Delhi.
	5. Kergner, Harold, Project Management- A System Approach to Planning,
	Scheduling and Controlling, New Delhi, CSB Publishers and Distributors.

Course ID	Course (DEC)
MHSEL302A/B/C	Training and Development
Objectives	To understand the educational process in development
Unit-1	Training and Learning: Concept of learning and types of learning, factors affecting
	learning among adults; Types and methods of learning; Concept and goals of training - self-
	development, action learning, transformation and organizational development, enhancing
	organizational effectives, team spirit.
Unit-2	Training Methodologies: Current trends in training methodologies, organizational
	development approach, competency based training, participatory training methodologies -
	aspects, advantages, limitations, implications for training process; Outline of training
	Administration; Budget and records
Unit-3	Trainer & Trainee Interface: Roles of a trainer, counselor, coach, facilitator, teacher and
	expert; Competencies of a trainer; Trainer-trainee perceptions
Unit-4	Training Process: Different phases of training, conceptual models of training, systems
	approach to training: inputs, process, outputs; Training Strategy and Designs: training need
	assessment, planning training programmes, organizational environment, Training facilities
	and other resources; Training methods and interaction styles: classification of training
	methods, their importance, use and Limitations-selecting, appropriate methods to suit
	situations and circumstances; Evaluation: meaning, purpose, elements of evaluation and
	tools for evaluation.
Unit-5	Organizational factors and training: Working climate, leadership, values, mechanics of
	change. Developing organizational structures for facilitating micro and macro level
	interventions for facilitating development
Practical	Designing training programmes for different developmental goals

	Developing training lectures and material for specific trainings
	Evaluating training programmes
	Visit to training and development organizations
References	1. Rae, Leslie, Techniques of Training, jaico Publishing House, Delhi, 1998
	2. Pareek, Udai and Lynton, Rolf P., Training for Development, D.B. Taraporewala,
	Bombay, 1990
	3. Rudrabasavraj, M.N., Executive Development Himalaya Publishing House,
	Mumbai, 1990
	4. Prasad, L.M., Principles and Practice of Management, S.Chand & Sons, New Delhi

Course ID	Course (DEC)
MHSEL401A/B/C	Gender in Extension and Development
Objectives	To understand the concept, need, relevance and dimensions of gender
	empowerment.
	 To get sensitized to gender disparities and problems of women.
	 To understand the efforts at different levels for empowering women
Unit-1	Gender and Development: Concept of gender, gender 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
Unit-2	Status of Women: Status- meaning, status of women-a situational analysis, demographic,
	education, employment, political and health (general, occupational and reproductive);
	Changing scenario.
Unit-3	Violence Against Women: Dowry, divorce, female foeticide and infanticide, domestic
	violence, sexual harassment and exploitation, portrayal of women in mass media; Efforts
TT '. 4	for elimination of all forms of discrimination.
Unit-4	Policies and Programmes for Women's Development: National Policy for
	Empowerment of women, policy perspectives, mainstreaming, a gender perspective in the development process; Economic empowerment: poverty eradication, micro-credit, self-
	help groups, women and agriculture, women and industry and support services; Social
	empowerment: education, health, nutrition, drinking water and sanitation, housing and
	shelter, environment; Legal empowerment: legal literacy on personal and family laws, role
	of family court and legal aid centers; Political empowerment: role of Panchayati Raj in the
	political empowerment of women.
Unit-5	Support System: Role and functions of the Department of Women and Child
	Development, Central Social Welfare Board, State Social Welfare Boards, National
	Commission for Women, Women's Development Corporation.
Practical	Study of women's status in a community
	 Identification of women's problems in a community
	 Preparation of an album on women's issues.
	 Visit to Women Welfare Organizations.
References	Choudhary, D.Paul- Child Welfare and Development.
	2. Desai, N and Pate, V., Indian Women: Change and Challenge in the International
	Decade.
	3. Singh, Surendra and Srivastavam S.P. Gender Equality Through Women's
	Empowerment:
	4. Strategies and Approaches
	5. Kant, Anjani- Women and the Law.

Course ID	Course (DEC)
MHSEL402A/B/C	Community Health Management
Objectives	 To understand the concept of health and health indices popularly used.
	To realize the health problems of the community and the scientific intervention
Unit-1	Concept of Health and Health Care: Concepts of health and positive health, definitions
	of health; Health – factors affecting health, health as a human right; Concept of community
	health and global health, health for all; Primary health care - definitions, principles,
	components, comprehensive health care, levels of prevention, concept of reproductive
	health.
Unit-2	Health and Development Indices: Health indices and related indices in community health,
	fertility indicators, demographic indicators – sex ratio, social and mental health indicators;
	Human Development Index; Reproductive Health Index.
Unit-3	Community Health Needs and Problems: Health needs and problems related to sanitation
	and environment, protected water, personal hygiene and pollution control; Ecology and
	environment, global warming-causes, effects and prevention, natural and manmade disaster
	management; Health needs of special groups-women, infants, children; Major health
	problems in India; Communicable and non-communicable diseases; Population problem
TI '. A	and its impact; Problems of malnutrition; Reproductive health problems.
Unit-4	Health Care Services: Health administrative set up - state, national, urban, rural, private;
	Role of NGOs in health services; Importance of National Health Programmes; Child
	survival and safe motherhood; Importance of Child Health and related programmes; Health
	in relation to community development; Important National and International Health Agencies; Health Information, education, communication.
Unit-5	Management of Information System in Health Sector: Health surveys; Monitoring
Omt-3	health; Health regulations and acts, health legislations; Census; Evaluation of health
	services.
	Ecology and Environment: Cause, effects and prevention of global warming; Concept of
	natural and man-made disasters.
Practical	Identification of Health needs of special groups - infants, young children and
11000000	adolescents, women, Elders, etc.
	Preparation of Health Survey Schedules for different groups
	Visit to Hospitals and Organizations related with Health
References	Suchman, E.H Sociology in the Field of Public Health.
	Smolenske- Principles of Community Health.
	3. Dak, T.M Sociology of Health in India
	4. Mangatt, A.N. and Bomen, S.C Social Service and Mental Health

DISCIPLINE 4: Textiles and Clothing

Course ID	Course (Core)
MHSCC-203	Textile Science
Objectives	To understand the basics of textile with relation of material and techniques
Unit-1	Polymer Science: Definition of Polymer, Degree of polymerization, methods and techniques of
	polymerization.
Unit-2	Cotton, Silk and Wool: Morphological and chemical structure, composition, physical and
	chemical properties
Unit-3	Yarn: Types, numbering system
	Yarn Manufacturing: Spinning process
Unit-4	Weaving: Parts and functions of loom, Types of Weaver-Basic and Decorative.
	Knitting: Types of Knitting, Properties.

	Felts and Non-woven: Felting process, Knitting, Bonding and lace-making.
Unit-5	Dyeing with Chemical dyes: Dyes classification, structure & users. Theory of dyeing; Types of
	dyeing- Stock dyeing, Yarn dyeing, Piece dyeing, Jet dyeing, Jig dyeing, Beam dyeing, Union
	dyeing, Pad dyeing, Solvent dyeing, Vacuum impregnation, Polychromatic dyeing, Cross
	dyeing, Foam dyeing.
Practical	Identification of weavers by sample collection.
	Removal of stains on cellulosic, silk and synthetics.
References	1. A Taylor- Technology of Textile Properties, Forbes Publications Ltd., London
	2. Dhantyagi S Fundamentals of Textiles and Their care. Orient Longman Ltd, New Delhi
	3. Goldstein and Goldstein - Art in Everyday Life
	4. Hollen and Saddler- Textiles. Macmillan Publications Co. New York
	5. Hess K.P Textiles Fibres and their use.
	6. Potter M.D. and Corbman B.P Fibre to Fabric. The Crais and Publishing Company
	New York.
	7. Shenai V.A History of Textile Design. Sevak Publications Mumbai

Course ID	Course (DEC)
MHSEL301A/B/C	Textiles Testing and Quality Control
Objectives	To understand the quality of textile and procedures involved in quality control
Unit-1	Importance of Textile Testing and Quality Control
	Quality control charts: concept, use, advantage, control limits
Unit-2	Standardization and testing Conditions: Definitions of humidity, Relative humidity,
	moisture content moisture region. Standard atmospheric conditions and standard testing
	conditions.
Unit-3	Fibre Properties: length, fineness, maturity
	Strength: Definition, importance of above properties
	Methods of determination of above properties: Hand stapling method, fibrograph (for
	length) Gravimetric, Air flow, Micronaire (for fineness), Direct and indirect (for maturity)
	single fibre strength and bundle strength (for strength).
Unit-4	Study of Yarn Properties: Yarn Count- Direct, indirect and universal system of yarn
	numbering, measuring yarn count. (Knowles balance and Quadrant balance); Yarn Twist-
	Types and amount of twist, effect of twist, determination of twist (single yarn twist tester
	and continuous twist tester); Evenness of Yarn- Types of variations, Measuring evenness-
	Uster evenness tester; Yarn Strength- Instron tester.
Unit-5	Study of fabric properties: Testing of fabric length, width and thickness, Shirley thickness
	tester; Fabric strength- Measuring tensile strength. Tearing strength, bursting strength;
	Fabric abrasion testing- pilling testing, Stiffness testing; Fabric colour fastness testing-
	Colour fastness to sunlight, washing and crocking.
Practical	Presentations, seminars on recent developments
References	1. Booth, J.E.: Principles of Textile Testing Newness Butter Worth, London
	2. Bilies, J. Cotton and Helen H Epps - Textile testing and Analysis- Prentice Hall,
	New Jersey
	3. John, H Skinkle- textle testing- Brooklyn, New York
	4. Grover and Hanby- Handbook of textile testing and Quality Control Wiles.

Course ID	Course (DEC)
MHSEL302A/B/C	Fabric Ornamentation
Objectives	To understand the various techniques and procedures of fabric ornamentation
Unit-1	Fabric finishing methods: Classification of finishes. singeing, beatling, calendaring,
	weighing, shrinking, mercerization Parchmentisation, Wash-N-Wear.

	Special Purpose finishes: flame retardant, water resistant and repellent, antistatic, stain and
	soil release finish.
Unit-2	Dyeing: Tie and Dye and Batik; Dyeing with natural dyes, use of pigments; Dyeing
	auxiliaries and their use; Dyeing defects and their remedies.
Unit-3	Printing: Printing methods- Block, stencil, screen, roller, rotary; Printing auxiliaries, their
	use and importance; Printing styles- direct, resist, discharge, photographic, transfer, flock
	printing; After treatment of printed goods.
Unit-4	Embroidery: General embroidery techniques; Hand embroidery- knowledge of 25 hand
	embroidery stitches; Traditional Indian embroidery- Chikankari, Kasuti, Phulkari, Kashida,
	Kantha, Kutch, and Kathiawar.
Unit-5	Appliqué Work and Quilting: Appliqué Work- basics, hand appliqué; Machined appliqué,
	bias tape appliqué, reverse appliqué techniques; Quilting - the art, quilting tools, designs;
	Basic quilting technique.
Practical	• Sample preparation – Tie-n-Dye, Batik, Printing.
	Sample Preparation- Embroideries
	Article- Appliqué work/Quilting.
References	1. V.A. Shenai- Chemistry of dyes and principles of dyeing. Sevak Prakashan,
	Mumbai
	2. R.S. Prayag -Technology of textile printing. Noves Data Corp.
	3. V.A. Shenai- Technology of printing- technology of textile processing, Vol.IV,
	Sevak Prakashan
	4. M.L. Gulrajani and Deepti Gupta (1990)- Natural Dyes and their application to
	textiles. Ed. IIT, Delhi Publications
	5. Big Book of Needle Craft- Odhamas Publications
	6. Needle Craft- Reader's Digest
	7. Creative Embroidery Designs - Ondorisha Publications
	8. Pandit Savitri - Indian Embroidery: its variegated charm. Baroda, Faculty of Home
	Science
	9. Chattopadhyaya and Kamala Devi - Handicrafts of India. New Delhi. Indian
	Council of Cultural Relations.
	10. Mary – Embroidery
	11. Calico – Embroidery
	12. Dongerkery S The romance of Indian Embroidery. Bombay. Thacker Co. Ltd.

Course ID	Course (DEC)
MHSEL401A/B/C	Advance Apparel Construction
Objectives	To study the protocols of selecting suitable fabrics for apparel construction
Unit-1	Cutting and making the fabric
	Basic bodice block: Child and adults, sleeve blocks- child and adult's plain sleeve block,
	basic fitted skirt block
Unit-2	Different types of sleeves, collars and skirts, pockets, pleats, tucks, waistbands construction
	(any five of each)
	Different types of yokes, necklines, basic silhouettes
Unit-3	Dart Manipulation: From armhole, shoulder, neckline
	Adaptation of basic drafting to the required design
Unit-4	Pattern Alteration: Plain sleeve-length and width alteration. Plan Skirt- length alteration,
	alteration for prominent abdomen or hips. Width alteration- increase and decrease up to two
	inch and above 2 inch.
Unit-5	Alterations for fitting: any 15 problems of fitting with reference to shoulder, neckline,
	armhole, skirt and overall garments and their remedies

Practical	Sample preparation: blocks- child and adult's bodice block, sleeve below- child and
	adult's plane sleeve.
	• Sample preparation- different types of sleeves, pockets, pleats, tucks, waistbands (5
	each).
	• Sample preparation- Different types of yokes, necklines (5 each).
References	1. Basic Process of clothing construction, Dongaji Das, New Raj Book Depot, New
	Delhi
	2. Complete Sewing Guide, Reader's Digest Publications
	3. Handbook for Fashion Designing, Best Drafting Techniques, Rither, Jindal Mittal
	Publications, New Delhi
	4. Isabel B. Wingots Textile, Fabrics and their selection practice, Hall Ive Ends,
	Wood Cliff, New Jersey
	5. More dress pattern designing, Natalie Bray, Om Boom Services, Prakash House,
	New Delhi
	6. Pattern for women's clothing, Grey Cookling, Om Boom Services, Prakash House,
	New Delhi
	7. Zarapker system of cutting, Zarepker, Navneet Publications Ltd., Bombay

Course ID	Course (DEC)
MHSEL402A/B/C	Textile Management
Objectives	To have an insight of current marketing needs in textile industry
Unit-1	Role and importance of Textile and Garments Industry in Indian economy
	Problems and prospects of textile and garment industry
	Textile policy under 5 year plans.
Unit-2	Textile industry management: Management hierarchy, responsibilities, coordination,
	organization, management aids, factors influencing management organization.
	Comparative organization of different textile groups: Organization of senior
	management, organization of productive functions, Departmental management
	organization.
Unit-3	Production management: Purpose of production planning and control; Methods of
	production planning and control.
Unit-4	Role of standards in quality control: Framework of control. Organization and techniques
	of control
Unit-5	Export procedure and distribution channels used to reach foreign market.
	Import and export policies of Indian government.
	Recent trends in textiles
Practical	Presentation and seminars on special topics
References	Gerry Cooklin - Introduction to clothing manufacture, Black Well Science
	2. Harold Carr & Barbara Katham - The technology of clothing manufacture, Black
	Well Science
	3. A.J. Chuter- Introduction to clothing production, Black Well Science
	4. Vidyasagar P.V Encyclopedia of textiles-textile management, Mittal
	Publications, New Delhi
	5. Rattan J.B Modern Textile management, Abhishek Publications, Chandigarh

DISCIPLINE 5: Family Resource Management

Course ID	Course (Core)
MHSCC-203	Theory of Management

Objectives	To understand the basic concepts of resource management
Unit-1	Management: Evolution, Concept, Objectives, Nature, Philosophy, Principles.
	Decision Making: Concept, Types, Modes of Decision Making, Tools and Techniques
Unit-2	Planning: Concept, Nature, Purpose, Principles and Techniques.
	Controlling: Concept, Objectives, Principles.
	Organizing: Concept, Nature, Purpose, Principles and Types.
Unit-3	Directing: Concept, nature, Types and Significance.
	Monitoring and Evaluation: Concept, Tools and Techniques
Unit-4	Personality: Concept, Development and Determinants.
	Attitudes: Concept, Difference between Beliefs and Values
	Stress: Concept and Management.
Unit-5	Staffing: Concept, principles.
	Recruitment: Concept, Types, Principles
Practical	
References	1. Mamoria, CB, Personnel Management, Himalaya Publishing House, Mumbai, 1998
	2. Pylee, M.V., Workers Participation in Management, Vikas Publication, Delhi, 1999
	3. Vishwanath, Workers' Participation in Management, Mittal Publications, New Delhi, 1992
	4. Lal Das D.K. Personnel Management, Industrial Relations and Labour Welfare.

Course ID	Course (Core)
MHSCC-302	Ergonomics for Home Science
Objectives	To study the principles of designing in terms of work efficiency
Unit-1	Ergonomics: Definition, History and evolution.
	Scope of Ergonomics in home and other occupations
	Nature of work in household and other occupations
Unit-2	Human Body and Work: Physiology of Neuro-muscular function in relation to occupational
	ergonomics; Physiological factors in muscle work; Physical work capacity; Energy requirement
	for muscular work; Energy expenditure for different activities; Endurance and muscular strength.
Unit-3	Job Analysis: Significance of job analysis for occupational ergonomics; Fundamental elements
	of job analysis.
	Concepts and significance of Anthropometry in relation to occupational ergonomics:
	Definition and Scope; Identification and analysis of postures
Unit-4	Environmental factors in relation to occupational ergonomics: Physical characteristics of
	task; Environmental stress factors such as Heat, Noise and Light; Effects and Control of Heat
	Stress; Noise Pollution and its effects; Effect of light on work efficiency
Unit-5	Application of Ergonomic Principles in: Tool Evaluation and Design; Work Station
	Evaluation and Design; House hold works; Maintenance of Postures
Practical	Anthropometry for household work
	Simulation studies in Kitchen Designing
	Assessment of Efficiency of Tools used in household works
	Assessment of impact of Wrong Postures on human body
References	1. Gross I.H. and Crendall, E.W. and Knoll, M.M Management for Modern Families,
	Prentice Hall Inc. New Delhi.
	2. Grand Jeen Ettiens (1978)- Ergonomics of the Home, Taylors and Francis Ltd., London.
	3. Nickell and Dorsey, Management in Family Living.
	4. Nag, P.K. (1996) Ergonomics and Work Design and Emerging Issues in Organizational
	Science, New Age International (P) Ltd., New Delhi.
	5. Chaffinm D.B. and Anderson G.B. (1984) Occupational Bio-Mechanics,, John Wiley &

Sons.	
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Course ID	Course (Core)
MHSCC-301	Entrepreneurship Management
Objectives	To study basics of managing business related to Home Science
Unit-1	Entrepreneurship Management: Concept, need and process of entrepreneurship development. Types of enterprise
Unit-2	Role of Enterprise in National and Global Economy: Government policies and schemes for
	enterprise development. Institutional support in enterprise development and management
Unit-3	Entrepreneurship motivation and competency: Important features of entrepreneurial
	personality.
	Launching an enterprise: Environment scanning, enterprise selection, market assessment
Unit-4	Resource mobilization, costing and monitoring, evaluation
	Performance appraisal and assessment
	Profitability and control measures
Unit-5	Market economy: Basic definitions, types of market, marketing mix, marketing environment
	Strategic Planning and Marketing steps: Product development, promotion and distribution.
Practical	Preparing Project Proposal to start a new enterprise and feasibility report
References	1. Bedekar, S.J. (1991): Marketing- Concept and Strategies, Oxford University Press,
	Mumbai.
	2. Deacen, RE and Firebaugh, F.M. (1981): Resource Management Principles and
	Application, Allyn and Dacen and Bacen Bosten.
	3. Hirtich R.D. and Peters M.P. (1995): Entrepreneurship- Starting Developing and
	Managing a New Enterprise, Richard D. Irwinm INC, U.S.A.
	4. Memores, C.B., Principles and Practice of Marketing in India, Kitab Mahal
	5. Meredith, G.G. et.al. (1982) Practice of Entrepreneurship. ILO, Geneva

Course ID	Course (DEC)
MHSEL301A/B/C	Management of Energy and House Hold Equipment
Objectives	To understand the concepts of managing energy and house hold equipments for
	better output
Unit-1	Sources of energy and their classifications: Non-renewable vs. renewable sources,
	alternative sources, conventional vs. non- conventional sources, commercial vs. non-
	commercial sources.
Unit-2	Energy conservation: Principles of improving the efficiencies of Combustion, Heat
	exchange and Energy conservation; Proper uses and maintenance of domestic heating,
	cooking, lighting and other appliances; Energy conservation in the transport sector
Unit-3	Basics of house hold equipments: About electricity - Power source, voltage, resistance,
	current, series/parallel circuits, AC/DC sources; Electrical materials- Conductors, semi-
	conductors, insulators; Important parts in an appliance - Main Cord, switches, plugs and
	sockets, controls such as thermostats, light bulbs, heating elements, Motors, Fans &
	Blowers, Bearings and Bushings, Electronic control systems, Batteries etc.
Unit-4	Product testing for quality: Need, types of testing, equipments required for testing
Unit-5	Safety against household appliances: Definition and classification of safety; Electric
	shock and its prevention; Quality control - Provisions and norms
Practical	Survey of available household equipments and appliances in the market.
	Study of basic functions and mechanisms of some household equipments such as
	vacuum cleaner, Refrigerator, Microwave oven etc.
	Visit to some petro-companies such as Indian Oil, Bharat Petroleum etc.

References	1. Avery, M. (1955): Household Physics, McMillan Co., New York.
	2. Johnson B.J. (1970): Equipment for Modern living McMillan Co., New York
	3. Wilson P (1981): Household Equipment Selection and Management, Houghton
	Miflan Co., Boston.
	4. Reddy B.S. (1998) Urban Energy Systems, Concept Publishing Co., New Delhi
	5. Rai G.D. (1996): Non-Conventional Energy, Khanna Publishers, New York.

Course ID	Course (DEC)
MHSEL302A/B/C	Resource Management
Objectives	To comprehend the necessity of sustainable usage of natural resources
Unit-1	Management of Human Resources: Principles of human resource use; Motivation vs.
	Productivity; Training for personality development and leadership; Efficiency – definition and factors affecting efficiency
Unit-2	Management of Environment: Definition and scope of environment studies; Natural
	Resources-conservation and sustainable development; Population and environment
Unit-3	Environment in relation to Public Health: Environment pollution and community health,
	water-borne diseases, Air borne diseases, chemical insecticides and its impact on health, other toxic agents.
Unit-4	Professional Management: Introduction; Concepts of professional Management; Aspects
	of Professional Management – Office Management, code/conduct, Duties of employees
	under various provisions; Professional relations, duties and liabilities in profession.
Unit-5	Current Trends in Resource Management: Socio-economic environment's impact on
	families and organization; Consumer Protection; Role of women in Environment
	Protection.
Practical	Personality Development Games – Organization and Interpretations.
	 Survey of specified area for quantification of pollution problems.
	 Preparations of Reports for Waste Management and Pollution control.
	• Visit to government/ non-government organizations to survey professional management practices.
References	1. Werther, Williams B and Davis, Keith, Human Resource and Personnel
	Management, McGraw Hill Inc., New Delhi,1996.
	2. Fisher, Cynthia D., Schoenfeldt, Lyle F., and Shaw, James, B., Human Resource
	Management, All India Publishers and Distributores, Chennai, 1997.
	3. French, Wendell L., Human Resource Management, All India Publishers and
	Distributors Regd., Chennai, 1997.
	4. Monappa, Arun, Managing Human Resources, McMillan India Limited, New Delhi,1997.
	5. Chatterjee, Bhaskar, Human Resource Management, A Contemporary Text: Sterling Publishers Pvt. Ltd,m New Delhi, 1995.

Course ID	Course (DEC)
MHSEL401A/B/C	Residential Interior Design
Objectives	To understand the needs of managing space with relation to needs and efficiency
Unit-1	Elements of art and principles of design with reference to interior designing Terminology
	used in interior designing, technical drawing and graphic presentation.
Unit-2	Materials and methods of interior construction
	Planning and prioritizing the space
	Connecting the Space
Unit-3	Fixtures and finishes, Lightings
	Furniture design and furnishing

Unit-4	Accessories in interior designing: Gardening, sculpture, paintings, flower arrangement
Unit-5	Designing of: Living space; Kitchen; Sleeping space; Children's room; Bathroom
Practical	Designing sheets and models
References	1. Ball, Vietorims, K. (1980)- The of Interior Design, McMillan & Co., New York.
	2. Bhatt. P.D., Goenka S (1990)- Foundation of Art & Design, Lakhani Book Depot,
	Mumbai
	3. Encyclopedia of Interior Design
	4. Gross, I.H. and Crendall, E.W., and Knoll, M.M Management for Modern
	Families, Prentice Hall Inc. New Delhi
	5. Bherathe W and Redsh, K. (1986)- Family Resource Management, Discovery
	Publishing House, New Delhi, 1994
	6. Caroline Atkins, The Sunday Times- Small Spaces for Modern Living
	7. Geetika Khanna: The art of interior designing
	8. Encyclopedia of interior designs
	9. Ball, Vietorims K The art of interior design, Mc Millan & Co., New York
	10. Nickell and Dorsey- Management in family living. CBS Publishers and
	Distributors, New Delhi
	11. A new smart approach to home decorating- Creative Home Owner-Upper Saddler,
	River, New Jersey

Course ID	Course (DEC)
MHSEL402A/B/C	Consumer Economics
Objectives	To comprehend the needs and demands in the local and international markets
Unit-1	Concept of consumer economics- consumption, field of consumer economics: Consumer and his wants; Origin of human wants; Characteristics of wants; Classification of wants; Demand: Determinants, elasticity.
Unit-2	The theory of consumer behavior: The central problem of choice; The utility solution; Diminishing marginal utility and low of equi-marginal utility; Factors affecting choice are decision making. Economy system: Purpose; Type of economic system; Indian economy- characteristics
Unit-3	Market and marketing: Concept, classification-function, types-wholesale, retail etc.; Marketing environment, Marketing theories-models Marketing strategies-concept, types based on product, seller, demand, media mix, price promotion and policy. Market and Market prices: Definition and types of Market prices; Pricing under perfect and imperfect competition and monopoly.
Unit-4	Consumer credit: Definition; Types of credits; Factors affecting consumer credit decisions; Sources of consumer credit.
Unit-5	Consumer protection: Government protection; Public protection; Standardization of consumer goods and testing methods
Practical	Visit to different types of Markets – organized, unorganized, local, weekly, etc Survey of Consumer Forum for Learning the Working of the Forum To survey the Banking Procedures for Consumer Credit.
References	 Fred D. Reynolds and Coillliean D. Wells (1977): Consumer Behaviour, McGraw Hills Series in Marketing, New York. London D.L. & Bitta A.J.D., (1986): Consumer Behaviour, McGraw Hill Book Company, New York East Robert (1990): Changing Consumer behaviour, Cassal Educational Limited, Artillery House, Artillery Row, London. Garman and Thomas et al (1974): The Consumer;s World Buying, Money Management and Issue, McGraw Hills Book Co., New York

OTHERS: SEC, Practical, Dissertation etc

Course ID	Course (Core)
MHSCC-104	Research Methodology
Objectives	To understand the research methods specific to Home Science
Unit-1	Social Research: Concept, Nature, Scope, Types of Researches in Home Science.
	Formulation and Selection of the Research Problems
	Participatory Research
Unit-2	Hypothesis: Concept, Types & Significance
	Research Design: Concept, Types and significance.
	Sampling: Concept, Types and Significance
Unit-3	Sources of Data Collection: Primary and Secondary, Field and Documentary.
	Tools of Data Collection: Interview guide, Interview schedule, observation and questionnaire.
	Methods of data Collection: Interview, Questionnaire, Observation, Case Study and Projective
	techniques.
Unit-4	Measurement and Scaling
	Processing of Data
Unit-5	Analysis and Interpretation of Data
	Report Writing
Practical	
References	1. Gupta, S.P., Statistical Methods, Sultan Chand and Sons, New Delhi, 1994
	2. Jain, Gopal Lal, Research Methodology, Methods, Tools and Techniques, Mangal Deep
	Publications, Jaipur, 1998
	3. Kothari, C.R.: An Introduction to Operational Research, Vikas Publishing House Pvt.
	Ltd, New Delhi, 1994
	4. Wright, Susan E., Social Science Stastics Allyn and Bacon Inc., London, 1986
	 Wisniekwski, Mik, Quantitative Methods for Descision Makers, Mcmillan India Ltd., New Delhi,1986.

Course ID	Course (Core)
MHSCC-205	Statistics and Computer Applications
Objectives	To understand the significance of statistics and research methodology in Home Science
Unit-1	Statistics: Meaning, Uses and Diagrammatic representation of Data
	Measures of Central Tendency
	Measures of Dispersion
Unit-2	Correlation: Karl Pearson's Rank Correction Coefficient
	Index Number
Unit-3	Probability: Concept and Theory
	Chi Square
	't' test
Unit-4	Fundamentals of Computer: History of Computers, Generation of Computer, Language,
	Components, Applications of Computers.
	Operating System & Internet: MS-DOS, MS-Windows, and Internet
Unit-5	MS-Office: MS-Word, MS Excel, and Power Point.

	Introduction to Data Base Management Systems
Practical	
References	1. Basandra, S.K.: Computers for Managers, Designing An Effective Management Information System, Abhinav Publishing Industries, N.Delhi, 1965.
	2. Diwan, Parag, Information System Management, Deep & Deep Publications, New Delhi, 1997.
	3. Laudon, Kenneth C. and London, Jane Price, Management Information System: A Contemporary Perspective, Macmillan Publhsing Compnay, New Delhi.
	4. Mehta, Versham Management Information System, Anmol Publications, New Delhi,1998
	5. Banerjee, Utpal K. and sachdeva, R.K., Management Information System: New Framework,
	6. Vikas Publishing House, Pvt. Ltd., New Delhi.

Course ID	Course (Value added Course)
MHSVC-101	Fashion Designing
Objectives	To understand the basics of fashion and designing through skill enhancement and garment components
Unit-1	Fashion: Definition, history, elements, terminology, cycle, factors affecting fashion, fashion sources, fashion trends in India and abroad. Principles and elements of art in dress designing
Unit-2	Anthropometrical Measurement: Concept, importance, technique and precautions.
	Pattern Making: Methods of drafting, draping, flat pattern, techniques and uses
Unit-3	Commercial Pattern: Concept, selection, and use of commercial pattern Selection of Fabrics: Factors affecting selection of fabric for different garments, Calculating quantity of fabric needed for different garments
Unit-4	Different types of Stitches: Construction and decorative Different types of seams and seam finish
Unit-5	Layout Planning: Definition, types of layout, economy of fabric in placing patterns, adjusting fabric to pattern Fitting: Good fit – definition, principles and clues for good fit (ease, line, grain, set and balance)
Practical	 Sheet preparation- dress designing according to theory syllabus. Portfolio development on a special theme
References	 Tata, S.L. & Edwards, M.S The complete book of fashion illustrations, New York, Harper & Row Publications Allen, Anne & Seaman, Julian - Fashion Drawing: basic principles, B.T. Batsford, London Ireland John Patrick - Basic fashion design, B.T. Batsford, London
	 A bling bina, Fashion Sketch Book, Fairchild Publishers, New York Seaman Julian - Professional Fashion illustration, B.T. Batsford, London Farbey A.D How to produce successful advertising, Kogan Page India Pvt. Ltd. Jethwaney, J.N. 1999 - Advertising, Phoenix Publishing House Pvt. Ltd. Roundey N. & Mair, D - Strategies for Technical Communication, Little Brown & Co., Boston, Toranto

Course ID	Course (VNC)
MHSVNC-301	Garbh Sanskar
Objectives	To understand the role of prenatal care.
	 To aware students about all stages of pregnancy and health issues.
Unit-1	Prenatal Development: Meaning of prenatal Development, concept of conception, Process of
	conception, Early sign of pregnancy, symptoms of pregnancy, physiological changes during
	pregnancy, complication during pregnancy.
Unit-2	Sanskar: Scientific explanation of Garbh Sanskar, Different therapies in Garbh Sanskar,
	Garbh Samvaad, Fetal Communication to keep piece rapidly growing fetal brain mother
	establishes conversation with child in uterus by various means-Music, Storytelling, Thought
	transfer, swadhyay Meditation
Unit-3	Care of pregnant women: Birth process.
	Maternal care.
	Nutrition during pregnancy.
	Dress during pregnancy.
Unit-4	Care of the mother after delivery: Ideal practices for the new mother.
	Role of health practitioner.
	Prenatal influences on fetus: family environment, social environment, maternal nutrition, age
	of mother.
Unit-5	Some essential activities during pregnancy.
	Yoga: Meaning and definition of yoga ,Role and importance of yoga as a Garbh Sanskar.
	Role of Ayurveda therapy during Pregnancy.
Practical	Presentation and seminars on special topics.
	Preparation of Teaching Aids-Chart-Poster, Leaflet -pamphlet ,Booklet, Flipchart etc.
References	1.Guyton,A.c.(1985):Function of the Human Body,
	2.Gopalan.C.and Kaur S.(1989): Women and Nutrition in India, Nutrition Foundation in India.
	3. Brijesh Shukl, Karm Kaumudi, Nag Publisher, New Delhi.
	4.P.C. Mishra, Aj ka Vikasatamk Manovigyan, Sahitya prakashan , Agra