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Srci. Sarpir Kumax Osi) (Viversities) Roj Browan, Palta

Sub: Implementation of Choice Based Credit System

SIR,

Litt. 20 Jenence to your letter No. BSU (Legulation)20/2018-1510/GS(1), alt. 05:06.2018, a onceting of the
fand of expects in Home Science was held tooky
(13.06.2018) at 10.30 am to finalise the CBCS burditum
in Home Science.

Lee went through the syllators provided to US. Le
he went through the syllators provided to US. Le
to additional sheets added as come page.

he accommend that it may be placed before the authorised body.

yours sincetely,

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Also ociale Prof. and Head

Dept. 9 Home Science

Palso University

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A Core Course (CC):

A course which should compulsorily be studied by a candidate as a core requirement on the basis of subject of MA studies and is termed as a Core course.

Elective Course (EC):

Generally a course which can be chosen from a pool of courses (Basket) and which may be very specific or specialized or advanced or supportive to the subject/discipline of study or which provides an extended scope or which enables an exposure to some other subject/discipline/domain or nurtures the candidate's proficiency/skill is called an Elective Course.

Discipline Specific Elective Course (DSE):

Elective courses may be offered by the main discipline/subject of study is referred to as **Discipline Specific Elective**. The University/Institute may also offer discipline related Elective courses of interdisciplinary nature (to be offered by main discipline/subject of study).

Generic Elective (GE) Course:

An elective course chosen generally from an unrelated discipline/subject, with an intention to seek exposure is called a **Generic Elective**.

P.S.: A core course offered in a discipline/subject may be treated as an elective by other discipline/subject and *vice versa* and such electives may also be referred to as Generic Elective.

Ability Enhancement Courses (AEC):

The Ability Enhancement Courses (AEC) / Skill Enhancement Courses (SEC). "AEC" courses are the courses based upon the content that leads to life skill enhancement.

Ability Enhancement Compulsory Courses (AECC): (Qualifying and Non-CGPA course):

University will run a number of **Ability Enhancement Compulsory Courses (AECC)** which is qualifying in nature and student from all faculties have to qualify in all courses.

Dissertation/Project/ Internship/ Industrial Training:

An elective course designed to acquire special/advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher / faculty member is called dissertation/project.

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Description of papers for MA degree in Home Science (Faculty of Social Sciences) under CBCS

SEMESTER	Course/ Paper Code	Nature of Course/ Paper	Marks	Marks of CIA	Marks of ESE	Passing criterion	Qualifying Criterion
	МНОМСС- 1	Advanced Nutrition	100	30	70	45% in CIA 45% in ESE	Marks decide
Z.	MHOMCC-2	Advanced Study of Human Development	100	30	70	45% in CIA 45% in ESE	Marks decide
SEMESTER I	МНОМСС-3	Concept of Home Management	100	30	70	45% in CIA 45% in ESE	Marks decide
ME	МНОМСС-4	Research Methodology and Statistics	100	30	70	45% in CIA 45% in ESE	Marks decide class/ CGPA
S	MHOMAECC-1	Environmental Sustainability & Swachcha Bharat Abhiyan Activities	100	50	50	45% in CIA 45% in ESE	Qualifying
	MHOMCC-5 (DSE for other departments)	Therapeutic Nutrition	100	30	70	45% in CIA 45% in ESE	Marks decide class/ CGPA
ii ~	мномсс-6	Maternal and Infant Nutrition	100	30	70	45% in CIA 45% in ESE	Marks decide class/ CGPA
SEMESTER II	MHOMCC-7	Management of Textile Crafts and Apparel Industry	100	30	70	45% in CIA 45% in ESE	Marks decide class/ CGPA
EM	MHOMCC-8	Communication Technology	100	30	70	45% in CIA 45% in ESE	Marks decide class/ CGPA
3 2	МНОМСС-9	Women's Studies	100	30	70	45% in CIA 45% in ESE	Marks decide
	MHOMAEC-1	Computers & IT Skill	100	50	50	45% in CIA 45% in ESE	Qualifying
	MHOMCC-10	Food Processing	100	30	70	45% in CIA 45% in ESE	Marks decide
Ħ	МНОМСС-11	Food Science and Experimental Food	100	30	70	45% in CIA 45% in ESE	Marks decide class/ CGPA
SEMESTER III	МНОМСС-12	Institutional Food Management	100	30	70	45% in CIA 45% in ESE	Marks decide class/ CGPA
IEST	MHOMCC-13	Community Nutrition	100	30	70	45% in CIA 45% in ESE	Marks decide
SEN	MHOMCC-14	Practical	100	30	70	45% in CIA 45% in ESE	Marks decide class/ CGPA
	MHOMAECC-2	Human Values & Professional Ethics & Gender Sensitization	100	50	50	45% in CIA 45% in ESE	Qualifying
RIV	MHOMEC-1	Practical Approach to Writing Research Activities	100	Will be decided by the BOCS	Will be decided by the BOCS	45% in CIA 45% in ESE	Marks decide class/ CGPA
SEMESTER IV	MHOMEC-2	Internship/Dissertation/ Project/Seminar	100	Will be decided by the BOS	Will be decided by the BOS	45% in CIA 45% in ESE	Marks decide class/ CGPA
SEM	MHOMDSE	Opt a course from other Department	100	30	70	45% in CIA 45% in ESE	Qualifying

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3.1.1 Core Course (CC):

A course which should compulsorily be studied by a candidate as a core requirement on the basis of subject of MA studies and is termed as a Core course.

3.1.2. Elective Course (EC):

Generally a course which can be chosen from a pool of courses (Basket) and which may be very specific or specialized or advanced or supportive to the subject/discipline of study or which provides an extended scope or which enables an exposure to some other subject/discipline/domain or nurtures the candidate's proficiency/skill is called an Elective Course.

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University will run a number of **Ability Enhancement Compulsory Courses** (AECC) which is qualifying in nature and student from all faculties have to qualify in all courses.

3.1.7 Dissertation/Project/ Internship/ Industrial Training:

An elective course designed to acquire special/advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher / faculty member is called dissertation/project.

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Dr. Anju Srivastava Associate Professor & Head, PG Department of Home Science, Patna University, Patna



07.05.2018

To,

The Registrar

Patna University,

Patna

Subject: Revised Curriculum for Postgraduate course in Home Science under Choice

Based Credit System - Submission

Respected Sir,

We are hereby submitting the revised Curriculum for Postgraduate course in Home Science under Choice Based Credit System prepared by us.

Thanking you,

Yours sincerely,

(Anju Srivastava)

Enclosed: ,

- 1). Proceeding of the meeting
- 2). Two copies of revised curriculum for Postgraduate Course in Home science under Choice based Credit System

DP 50. Aug

Department of Home Science Patna University, Patna



A meeting regarding revision of curriculum under Choice Based Credit System for Post Graduate course in Home Science was held today i.e. 07.05.2018 (Monday) at 10.30 a.m. in the Post Graduate Department of Home Science, Patna University under the chairmanship of Dr. Anju Srivastava, Head, Post Graduate Department of Home Science, Patna University.

The following members were present in the meeting:

S. No.	Members of the Syllabus Committee - Name & Address	Signature
01	Dr. Anju Srivastava Head, PG Department of Home Science Patna University, Patna	14h Jie nes ano 07.05:2018
02	Prof. (Dr.) Renu Kumari Head, PG Department of Home Science B.R.A. Bihar University, Muzaffarpur	Renu Kumari 118/2018
03	Dr. Manju Kumari Sinha Head, PG Department of Home Science J.P. University, Chapra	Manyu Humani Sinha.
04	Dr. Nirmala Jha Head, PG Department of Home Science L.N.M.U. Darbhanga	Nirmala The 07.05.2018
05	Dr. Anju Singh Head, PG Department of Home Science T.M.B.U., Bhagalpur	Anju Singh 07-05-2018
06	Dr. Vijay Lakshmi Head, PG Department of Home Science V.K.S.U, Ara	V. Lakshmi 07.05.2018

The members of the Syllabus Committee, after thorough discussion, approved the attached revised curriculum for Post Graduate course in Home Science under Choice Based Credit System.

Proposed Syllabus for M.A. in Home Science

1 2 2 2 2 2		Ç.	Discipline Specific Elective Course	_	Ability Enhancement Course	Compulsory Course
551	CC - 1 Advanced Nutrition	(24)	(387)	(45)	(AEC.)	AECC - 1 Environmental Sustainability & Swachcha Bharat Abhiyan Activities
5	CC – 2 Child Development: Prenatal to Preadolescence	V	a a			
ರ ರ	CC – 3 Concept of Home Management					5
3 & K	CC – 4 Research Methodology and Statistics					
2 1 8	CC - 5 Therapeutic Nutrition (DSE for other denartments)				AEC - 1 Computers & IT Skill	
Σğ	CC – 6 Maternal and Infant Nutrition					
ONE	CC – 7 Management of Textile Crafts and Apparel Industry				3	
ర్ ర	CC - 8 Communication Technology					
SE	CC - 9 Women's Studies				7	
8 20 70 70	CC – 10 Food Processing					AECC – 2 Human Values & Professional Ethics & Gender Sensitization
2 % 🛭	CC-11 Food Science and Experimental Food					-
<u> </u>	CC - 12 Institutional Food Management CC - 13					
0 0 E	Community Nutrition CC - 14 Practical					
4		EC - 1 Practical Approach to Writing Research Activities		GE - 1 Human Rights		
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Semester-1

Course Opted	Course Name	Cre	edits
CC -1 (Core Course)	Advanced Nutrition	5	(5+0)
CC - 2 (Core Course)	Child Development: Prenatal to Preadolescence	5	(5+0)
CC - 3 (Core Course)	Concept of Home Management	5	(5+0)
CC - 4 (Core Course)	Research Methodology and Statistics	5	(5+0)
AECC - 1 (Ability Enhancement Compulsory Course)	Environmental Sustainability & Swachchha Bharat Abhiyan Activities	5	(5+0)
	Tota	al 25	

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Semester - I

Core	Course	1:
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Advanced Nutrition

* #	05 Credits
Full Marks: 70	Time: 3 Hours
The pattern of question papers will be as under Group A- Compulsory – ten questions (two questions from each unit) Group B- Five questions (one from each unit) – each question of 5 ma Group C- Five questions (one from each unit) – each question of 10 m	of two marks each. 2 x 10 = 20 marks arks, four to be answered. 5 x 4 = 20 marks
Objectives: This course will enable the students to: Understand the impact of nutrients on human body Get an insight into various metabolic pathways Know the role of hormones in growth, maintenance and research	gulation of body processes
Unit I Energy Metabolism Determination of energy value of food- Bomb calorimeter Basal metabolic rate- Measurement and factors affecting Measurement of energy requirement of an individual with	
Unit II Proteins Classification of protein & amino acids Structure, properties and functions of protein Metabolism of proteins, protein synthesis Assessment of protein quality Plasma proteins Structure and Functions of DNA and RNA	
Unit III Lipids □ Classification of Lipids □ Structure, properties and functions of Lipids □ Metabolism and nutritional significance of lipids □ Biosynthesis of cholesterol and its functions	
Unit IV Carbohydrates Classification of carbohydrates Structure, properties and functions of carbohydrates Metabolism of carbohydrates Altered metabolism of carbohydrates in diabetics Glycemic index Role of hormones in carbohydrate metabolism (insulin, thy	proid and adrenal cortex) B.G. 2018
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Unit V

Micronutrients

Vitamins and Minerals and their role in metabolism (vitamin A, Calcium, Iron and Iodine)

Reference:

- 1. M. Swaminathan: Advance text book on Food and Nutrition Vol. II
- 2. Paul and R., Elen T. Ross: Nutrition
- 3. A.C. Deb: Fundamentals of Biochemistry
- 4. H.S. Srivastava: Elements of Biochemistry
- 5. A.K. Bery: Few Rasayan ki Pathya Pshtika

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Child Development: Prenatal to Preadolescence Core Course 2: 05 Credits Time: 3 Hours Full Marks: 70 The pattern of question papers will be as under Group A- Compulsory - ten question s (two questions from each unit) of two marks each. $2 \times 10 = 20 \text{ marks}$ Group B- Five questions (one from each unit) – each question of 5 marks, four to be answered. $5 \times 4 = 20 \text{ marks}$ Group C- Five questions (one from each unit) - each question of 10 marks, three to be answered. $10 \times 3 = 20 \text{ marks}$ Objectives: This course will enable the students to: To have an overview of development from prenatal stage to preadolescence stage To develop an awareness of important aspects of all development stages during this phase Unit I Introduction to Development Stages and principles of growth and development Developmental tasks Individual differences Comparative role of heredity and environment Aspects of development Unit II **Prenatal Development** ☐ Conception, stages of prenatal development Factors affecting prenatal development Common disorders during pregnancy Types and stages of birth process **Unit III** Infancy (0-2 years) ☐ Neonate-Their characteristics and behavior patterns Evaluation and examination of health of neonate ☐ Formation of some healthy and good habits among Infants Unit IV Early Childhood (2-6 years) Physical and motor development, common motor skills Social and Emotional development (characteristics and common Emotions) Cognitive development Unit V Late childhood (6-12 years)

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Social relationship-peer, siblings and parents

Physical and motor development

Personality development- characteristics Imagination and cognitive development

References:

- 1. Rice, F.P (1995). Human Development, New Jersey: Prentice Hall
- 2. Santrock, J.W. & Yussen, S.R. (1988). Child Development: An Introduction Lowa: Wm.C Brown Publishers
- 3. Cole, M. & Cole, S. (1993). The Development of Children (2nd Ed) New York: scientific American Books Freeman & Co.

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Core Course 3:

Full Marks: 70

Concept of Home Management

05 Credits

Time: 3 Hours

The pattern of question papers will be as under Group A- Compulsory – ten questions (two questions from each unit) of two marks each. $2 \times 10 = 20 \text{ marks}$ Group B- Five questions (one from each unit) – each question of 5 marks, four to be answered. $5 \times 4 = 20 \text{ marks}$ Group C- Five questions (one from each unit) – each question of 10 marks, three to be answered. $10 \times 3 = 20 \text{ marks}$ Objectives: This course will enable the students: To understand the significance of management in the micro and macro organization To know the conceptual, human and scientific aspects of management functions To develop the ability to evaluate the managerial efficiency and effectiveness in the family and other organizations Management as a system Definition Elements Types Application in family resource management **Unit II** Management process

Organizing - purpose, process, delegation, authority, responsibility and accountability,

staffing, purpose, recruitment, appraisal directing, leadership, motivation and communication Controlling and its tools

Appraisal

Evaluation

Unit III

Ergonomics

Definition

Scope and nature of ergonomics in domestic and other occupations

Time and energy management

Time and energy management in study of ergonomics

☐ Planning – objectives, principles, strategies, policies

Unit V

Work simplification

Work simplification process and time motion economy

April 8 Renu Kumeri Angri Sing L 7/5/18 07/5/18 N. Lakahari Nirmela The

Reference:

- 1. Introduction hot Home Management by Bettye B. Swanson, Macmillan **Publishing Company**
- 2. Home Today & Tomorrow by Ruth F. Sherwood
- 3. The House its plan and use by Tersie Agan M.S. Oxford & IBH Publishing House
- 4. Management for Modern families by Gross Grandall, Knoll Prentice Hall, International INC, Englewood, New Jersey
- 5. Grih Prabanth by Manju Patni
- 6. Grih Prabandh and Grih Vyavastha by Brinda Singh

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Core Course 4:

Research Methodology and Statistics

05 Credits

Full Marks: 70

Time: 3 Hours

The pattern of question papers will be as under

Group A- Compulsory - ten questions (two questions from each unit) of two marks each.

 $2 \times 10 = 20 \text{ marks}$

Group B- Five questions (one from each unit) - each question of 5 marks, four to be answered.

 $5 \times 4 = 20 \text{ marks}$

Group C- Five questions (one from each unit) – each question of 10 marks, three to be answered.

 $10 \times 3 = 20 \text{ marks}$

Objectives:

This course will enable the students to:

Develop a scientific approach and know the processes of research

Develop the competence for selecting method and tools appropriate for research topics

Understand concepts of statistical measures of central tendency, dispersion variability
and probability

Unit I

Foundation of Scientific Research

- Research meaning and definition
- Need of research in Home Science
- Necessary consideration for selecting a research problem
- Sources for locating a research problem

Unit II

Stages/steps involved in research process

- Research problem
- ☐ Literature Review
- Hypothesis
- Variables
- Methodology: sample, sampling technique, tools and tests, statistical devices
- Pilot study
- Test administration and data collection
- Scientific generalization
- Preparing the research report

Unit III

Sample and Sampling techniques

- Sample- Meaning, characteristics of a good/scientific sample
- Sampling techniques:
 - Probability sampling- Meaning and types
 - Non-probability sampling- Meaning and types

Unit IV

Research Tools

- Observation
- Questionnaire
- Interview
- Case study

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Unit V

Concept of data

- a. Types of data Primary data and secondary data

 Qualitative and quantitative data
- b. Analysis of data Qualitative and quantitative data analysis

Reference:

- 1. Bell, J (1997): Doing Your Research Project: A Guide for First-time Researchers in 1.3 Research process Education and Social Science, Viva Books, New Delhi
- 2. Bell, J (1997): How to Complete Your Research Project Successfully: A Guide for First time Researchers, UBSPD, New Delhi
- 3. Bulmer, M.C. (1984): Sociological Research Methods An Introduction, Macmillan, HongKong
- 4. Festinger, L. and Katz, D. (ed.) (1977): Research Methods in the Behavioral Sciences, Amerind Publishing, New Delhi
- 5. Holloway, I. (1997): Basic Concepts of Qualitative Research, Blackwell Science, London.
- 6. Jain, G. (1998): Research Methodology: Method and Techniques, Mangal Deep, Jaipur
- 7. Kothari, C.R. (2000): Research Methodology: Method and Techniques, Wishwa Prakashan, New Delhi
- 8. Kumar, A. (1997): Social Research Method (The Art of Scientifics Investigation), Anmol Publication, New Delhi
- 9. Kumar, A. (2000): Research Methodology in Social Sciences, Sarup and Sons, New Delhi.
- 10. Mc Burney, D.H. (2001): Research Methodology, Thomson-Wadsworth, Australia
- Pande, G.C. (1999): Research Methodology in Social Science, Anmol Publication, NewDelhi

Statistics

Unit I

Meaning and characteristics of statistics, definition, importance, classification, tabulation, frequency curve, histogram and pie chart

Unit II

Measure of central tendency

- Mean definition, merits, demerits and related programs
- Median definition, merits, demerits and related program
- ☐ Mode definition, merits, demerits and related program

Unit III

Measure of dispersion- meaning and types of dispersion, range, quartile deviation, standard deviation related problems, characteristics of dispersion

Unit IV

Correlation - definition, methods of correlation, product moment (Pearson) and rank difference

Unit V

Normal probability curve- definition and characteristics of normal probability curve, definition, types of skewness and kutosis

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Reference:

1. GUPTA, S. (2001) Research Methodology and Statistical Techniques, Deep and Deep, New Delhi, 510p.

2. HOODA, R.P. (2003) Statistics for Business and Economics, 3rd ed., Macmillan

India Ltd. Delhi, 855p.

3. DEY, B.R. (2005) "Textbook of Managerial Statistics", Macmillan India Ltd. Delhi,

4. Fleming, M.C. & Nellis, Joseph G. (1997) "The Essence of Statistics for Business", Prentice-Hall of India, New Delhi, 270p.

5. Sarma, K.V.S. (2001) "Statistics made simple: Do it yourself on PC", Prentice-Hall, New Delhi, 257p.

6. Chakroborty, S.R. & Giri, N. (1997) "Basic Statistic". South Asian pub,. New Delhi, 271p.

7. Das, M.N. (1989) "Statistical Methods and Concepts,", New Age, New Delhi, 256p.

8. Elhance, D.N. (2000) "Fundamentals of Statistics [containing more than 750 solved and 1250 problems for review exercise]", Kitab Mahal, Allahabad, 1523p.

9. Goon, A. & Gupta, M & DASGUPTA, B. (2001) "Fundamentals of Statistics", Vol.1 &II. The World Press, Calcutta, 150p.

10. Gupta, S.P. (1996) "Practical Statistics", 37th ed. S, Chand, New Delhi, 563p.

- 11. Gupta, S.C (2000) "Fundamentals of Statistics", Himalaya Pub,. Mumbai, 1343p.
- 12. Gupta S.P. (2000) "Statistics Methods", Sultan Chand & Sons, New Delhi, 1428p.
- 13. Gupta C.B. & Gupta, V. (1973) "An Introduction to Statistical Methods", Vikas publishing house pvt. Ltd. New Delhi, 829p.

14. Nagar, A.L. & Das, R.K. (1997) "Basic Statistics", 2nd ed. OUP, Delhi, 424p.

- 15. Shenoy, G.V. & Pant, M. (2006)" Statistics Methods in Business and Social Science", Macmillan India Ltd., Delhi, 288p.
- 16. Spiegel, Murray R. (1998) "Schaum's Outline of Theory and Problems of Statistics", 3rd ed. Tata McGraw-Hall Pub,. New Delhi, 538p.

17. Triola, Mario F. (1998) "Elementary Statistics", 7th ed. Addison Wesley Longman, America, 804p.

18. Richard A. (1992) "Applied Multivariate Statistics Analysis", Prentice-Hall, New Delhi, 642p.

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Semester - II

Course Opted	Course Name	Credits
CC - 5 (Core Course) (Discipline Specific Elective Course for other departments)	Therapeutic Nutrition	5 (5+0)
CC - 6 (Core Course)	Maternal and Infant Nutrition	5 (5+0)
CC - 7 (Core Course)	Communication Technology	5 (5+0)
CC - 8 (Core Course)	Women's Studies	5 (5+0)
CC - 9 (Core Course)	Management of Textile Crafts and Apparel Industry	5 (5+0)
AEC - I (Ability Enhancement Course)	Computers & IT Skill	5 (5+0)
	Total	30

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Semester - II

Core Course: 5	Therapeutic Nutrition	05 Credits
Full Marks: 70		Time: 3 Hours
Group A- Compulsory – to Group B- Five questions	pattern of question papers will be as under en questions (two questions from each unit) (one from each unit) – each question of 5 ma (one from each unit) – each question of 10 m	of two marks each. 2 x 10 = 20 marks urks, four to be answered. 5 x 4 = 20 marks
diseases and patie Acquire basic know and dietary require	cology, physiologic and metabolic and needs. It needs. Iledge about the effects of various dise	ases on nutritional status
Importance of meal	tion in health and disease planning, factors to be considered whi t in weight imbalance (obesity and und	
Unit II Prevalence, etiology, measurement of the form Typhoid fever ☐ Tuberculosis ☐ HIV infection and A	A.1	ifestations and therapeutic
Unit III Prevalence, etiology, measurements of the : □ Nutritional anemia □ Liver disorders: Jau □ Diseases of the Card □ Kidney diseases	following: ndice, Hepatitis	festations and therapeutic
Unit IV Types, causes, sympto ☐ Diabetes Mellitus ☐ Gout ☐ Cancer	oms and dietary management of metab	olic disorders
Unit V Dietary counseling: No	eeds, objectives, steps and techniques	B-801.2018 13.01.2018
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Practical

- ☐ Preparation of therapeutic diets clear liquid diet, full fluid, soft and normal diet
- □ Plan and prepare diet for the diseases covered in theory and calculate the nutrients requirement
- ☐ Plan a day's meal and calculate nutrients requirement for following diseases:
 - Weight Imbalance
 - Fever
 - Liver disease
 - Cardio vascular Disease (500mg and 1000mg sodium restricted diet)
 - Renal disorders
 - Metabolic disorder

References:

- 1. M. Swaminathan, Advanced Textbook on Food and Nutrition
- 2. R. C. Mishra, Health and Nutrition Education
- 3- vkgkj ,oa iks"k.k foKkua & MkWDVj c`ank flag
- 4. P. Jnaki Rao, Nutrition and Food Science
- 5. Shubhangini M. Joshi, Nutrition and Dietetics
- 6. B. Shrilaxmi: Dietetics, 4th Edition
- 7. F.P. Anita & Philip Abraham: Clinical Dietetics & Nutrition, 4th Edition
- 8. Carrol Lutz and Karen Przytulski: Nutrition and Diet Therapy

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Core Course 6

Maternal and Infant Nutrition

05 Credits

Full Marks: 70	Time: 3 Hours
The pattern of question papers will be as under Group A- Compulsory – ten question s (two questions from each unit) Group B- Five questions (one from each unit) – each question of 5 ma Group C- Five questions (one from each unit) – each question of 10 m	of two marks each. 2 x 10 = 20 marks rks, four to be answered. 5 x 4 = 20 marks
Objectives: This course will enable the students be Understand physiological changes during pregnancy and la Get acquainted with growth and developmental changes from Understand the inter-relationship between nutrition and graph a life cycle	om conception till birth.
 Unit I Important of Maternal nutrition prior to and during pregnation on mother-child health, including pregnancy Physiology and endocrinology of pregnancy and embryonic and development Nutritional requirement during pregnancy Complications of pregnancy and management and importations mothers Congenital malformation, fetal alcohol syndrome and gestal 	and fetal growth nce of antenatal care of at –
Unit II Lactation Development of mammary tissue and role of hormones Human milk composition and factors affecting breast feeding fertility Management of lactation -breast feeding, Rooming - sore nipples, engarged breast, inverted nipples etc.	
Unit III © Care and management of the preterm and LBW infants © Implications for feeding and management	
Unit IV ☐ Menopause ☐ Sign and symptoms ☐ Problems ☐ Management of dietary needs and health Unit V ☐ Policies and programmes for promotion maternal and child	nutrition and health

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References:

- 1. M. Swaminathann: Food and Nutrition
- 2. vkgkj ,oa iks"k.k foKkua & MkWDVj c`ank flag
- 3. vks0ih0 VaMu & ekuo 'kjhj jpuk ,oa fdz;k foKkua
- 4. vkgkj ,oa iks"k.k foKkua & MkWDVj Vhuk [kuwtk
- 5. Health Mathers: Archana Sinha
- 6. Nutrition and Child Development: 4th Edition, KE Elizabeth

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Core Course:7

Communication Technology

05 Credits

Full Marks: 70

Time: 3 Hours

The pattern of question papers will be as under

Group A- Compulsory – ten questions (two questions from each unit) of two marks each.

 $2 \times 10 = 20 \text{ marks}$

Group B- Five questions (one from each unit) – each question of 5 marks, four to be answered.

 $5 \times 4 = 20 \text{ marks}$

Group C- Five questions (one from each unit) – each question of 10 marks, three to be answered.

 $10 \times 3 = 20 \text{ marks}$

Objective:

Develop understanding regarding various aspects of communication.

Develop understanding regarding various audio-visual aids used for various groups: individual, group, mass.

Develop ability to prepare, operate use of various audio-visual aids.

Unit I

Concept of Communication

- Definition, meaning and nature of communication
- Process, elements and models of communication
- Barriers in communication

Unit II

Forms of Communication

- Verbal and non-verbal
- Intra, inter, group, mass

Unit III

Mass Media

- Types, roles and characteristics
- Uses of Electronic and traditional media

Unit IV

Adoption and Diffusion

- Concept of adoption
- Innovation and diffusion
- The Adoption process
- The Innovation –Decision process
- Adopter categories

Unit V

Introduction to Information Communication Technology (ICT)

- Satellite broadcasting, electronic media and computer Technology
- Role of ICT in Extension work and development

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References:

- 1. Dale (1964), Audio-visual Methods of Teaching, Holt, Rinhart and Wintson, London.
- 2. Brown et al (1983), A.V. Instruction Technology, Media and Methods, 6th Edition, Mc Graw Hill Book Co. New York.
- 3. Joshi Uma (1997), Text book of Mass Communication and Media, Anmol Publications, New Delhi.
- 4. Joshi Uma (2001), Understanding Development Communications: Domincent Publishers, New Delhi.
- 5. Sandhu Anoop Singh(1996), Extension Prorgramme Planning, Oxford and JBH

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05 Credits

Time: 3 Hours

The pattern of question papers will be as under Group A- Compulsory – ten question s (two questions from each unit	
	$2 \times 10 = 20 \text{ marks}$
Group B- Five questions (one from each unit) – each question of 5 me	arks, four to be answered. 5 x 4 = 20 marks
Group C- Five questions (one from each unit) – each question of 10 n	
Objectives:	
To develop awareness regarding status of women in Ir women's issues and concerns	ndia and sensitivity of
☐ To enable women to become champions/ well equipped in	the changing society
☐ To empower women in their struggle against inequality an	
$\ \square$ To become aware of the comprehensive and balanced under	erstanding of social reality
Unit I	
☐ Women in India Civilization down the ages, Status of Wom	en in ancient India-Vedic
age, Pauranic Period, Mauryan Period, Gupta, Medieval, F Period, British Period, Women in Post-independence perio	Feudal Period, Buddhist
Unit II	
Relevance of Women's Studies	
Sources and growth of Women's Studies	
a sources and growth of women's Studies	
Unit III	
Issues related to Crime against Women in India	
☐ Child marriage	
☐ Female feticide	
Dowry	
🗓 Sati	
Honor killing	
Rape and Sex abuse	
☐ Trafficking ☐ Domestic Violence	
Domestic violence	
Unit IV	
Personal and Civil Laws related to Women	
Dowry prohibition Act	
☐ Divorce and maintenance Law	
Marriage Registration Act	
Domestic Violence Act 2005	1
Pre-Natal Diagnostic Act	
Laws against feticides	3.6.3018
Medical Termination of Pregnancy (MTP) Act, 1971	5.06.06
il minoral frame Frevention Act	13
Indecent Representation of Women (Prohibition) Act 1986	
Law against Sexual Harassment at workplace	
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Women's Studies

Core Course 8:

Full Marks: 70

Unit V

Women's Welfare Programme

Reference:

- 1. Asthana P. (1974), Women's Movement in India, Vikas Delhi
- 2. Antony M.J. (1985), Womens Rights: Dialogue, New Delhi
- 3. Okim S.M. (1989), Justice, Gender and Family, Basic Book, New York
- 4. Pant N. (1995), Status of Girl Child and Women in India, Delhi, APH
- 5. Girl Child in india Devasia Leelamma
- 6. Srivastava T.N. (1985), Women & Law" Intellectual, New Delhi
- 7. Baker H.A. Berheide, G.W. and Others (Eds), 1980, Wome Today: A Multidisciplinary Approach to Women's Studies, Books/Cole Publications
- 8. Desai N. & Patel. V., Indian Women: Change and Challenges in the International Decade: Popular Prakashan, Bombay
- 9. Gupta, N.K. & Sudan I.K. (1990), Women at work in Developing Economy, Amol, New Delhi
- 10. Parashar, A(1992), Women and Family Law reforms in India: Uniform Civil Code and Gender Equality, Sage Publications, New Delhi
- 11. Namita Agrawal, Women and law, New Century Publication, New Delhi
- 12. Vianellow M. & Siemienska R. (1990), Gender Inequality: A Comprehensive Study of Discrimination and Participation, Sage Publications, London
- 13. Sharma U. (1989), Brides are not for burning: Dowry Victims in India, Radiant, New Delhi
- 14. Women in a Changing Society by S.K. Ghosh

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Core Course: 9 Management of Textile Crafts and Apparel industry

5 Credits

Full Marks: 70	Time: 3 Hours
The pattern of question papers will be as under Group A- Compulsory – ten questions (two questions from each unit)	of two marks each. $2 \times 10 = 20 \text{ marks}$
Group B- Five questions (one from each unit) – each question of 5 m	arks, four to be answered. $5 \times 4 = 20 \text{ marks}$
Group C- Five questions (one from each unit) – each question of 10 n	
Objectives:	
This course will enable the students:	
☐ To understand the textile crafts of India '	Đ
 To enhance awareness regarding the history and produtextile crafts of India 	ction centers of the traditional
☐ To understand the aspects of management regarding desi and mass media	gning, merchandising
☐ To highlight certain aspects of apparel industry	
☐ To signify the role of traditional textile crafts in economic of	empowerment
Unit I	
Study of Textile Crafts of India: history, production cent colors and products	ers, techniques, designs,
☐ Woven textile of India- Banaras Brocades, Jandanis a Shawls of Kashmir	and Baluchars of Bengal, Kani
☐ Embroidered textiles of India- Kantha of Bengal, Kasuti of Chickankari of Utta: Pradesh, Kashida of Kashmir	f Karnataka, Phulkari of Punjab,
Painted and Printed textiles of India- Kalamkari of And Rajasthan, Ajarakh prints of Gujrat	thra Pradesh, Dabu printing of
Dyed textiles of India- Bandhanis of Rajasthan and Bandhas of Orissa, Pochampalli of Andhra Pradesh	Gujrat, Ikats-Patola of Gujrat,
*	
Unit II	9 99
Elements used in creating a design	
Color- Color harmony, its sensitivity and composition in d	
Motif development-Geographical, simplified, naturalized, someon or namental	tylized, abstract and
Components of fashion- Silhouette, details, color, fabric, to	exture
Unit III	
Principles of Merchandising Types of merchandising	
Role of retailing in merchandising	
Usual Merchandising- Plan & Schedules, Types of display	Elements of display
Typos of display	,
Unit IV	N.

Role of Mass Media in Fashion

Impact of Mass Media on fashion

Role of Mass Media in promoting fashion

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Unit V

Cultural and Economic Empowerment through Textile Crafts

- Textile crafts in National economy
- DEvolution and socio-economic significance of Khadi, Handloom and Handicraft sector
- Sustenance of traditional textile crafts
- Interventions by organizations

Reference:

- 1. J. Anderson Black, Muidge Garland, A History of Fashion, Orbis Publishing Ltd, London
- 2. Broucher Francois, A History of Costume in the West, Thames and Hudson.
- 3. Sharon Lee Tete, Inside Fashion Design, Harper and Row Publishers, New York.
- 4. Kathryn Samuel, Life Styles, Fashion Styles, Orbis Publishing Ltd. London.
- 5. Carter E. (1977), The Changing World of Fashion, G.P. Putnam's Sons, New York.
- 6. Carr H.and Pomery J. (1992), Fashion Design and Product Development, Blackwell Scientific Publications, London, Edinerg.
- 7. Complete guide to Sewing. Reader's Digest Association, New York.

8. Creative Clothing Construction, McGRAW Hill, 1973

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Semester- III

Course Opted	Course Name		Cr	edits
CC - 10 (Core Course)	Food Processing		5	(5+0)
CC – 11 (Core Course)	Food Science and Experimental	Food	5	(5+0)
CC - 12 (Core Course)	Institutional Food Management		5	(5+0)
CC - 13 (Core Course)	Community Nutrition	· · · · · · · · · · · · · · · · · · ·	5	(5+0)
CC - 14 (Core Course)	Practical		5	(0+5)
AECC - 2 (Ability Enhancement Compulsory Course)	Human Values & Professional Gender Sensitization	Ethics &	5	(5+0)
		Total	30	

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Semester - III

Core Course 10:

Food Processing

05 Credits

Full Marks: 70

Time: 3 Hours

The pattern of question papers will be as under

Group A- Compulsory – ten questions (two questions from each unit) of two marks each.

 $2 \times 10 = 20 \text{ marks}$

Group B- Five questions (one from each unit) – each question of 5 marks, four to be answered.

 $5 \times 4 = 20 \text{ marks}$

Group C- Five questions (one from each unit) - each question of 10 marks, three to be answered.

 $10 \times 3 = 20 \text{ marks}$

Objectives:

This course will enable the students be

- Acquire necessary knowledge of basic principles and procedures in the production of important food products
- ☐ Gain basic knowledge about food processing and technology.
- Understand food standard and related laws

☐ Food spoilage, role of microorganisms, food borne hazards of microbial origin

Food preservation - principles & methods Physical principles in undertaking food processing operation including thermal processing, ionizing radiation, refrigeration freezing and dehydration, Mineral processing

Unit III

Basic principles at food product developments need and types of food Extruded foods- merit, demerits and use of Extruded foods Organic Foods, Processing and packaging of Organic Foods and programme for production Product evaluation techniques censoring evaluation and product testing Fermentation technology - fermentation, enrichment and fortification

Unit IV

Packaging technique - packaging materials, types of packaging effects of packaging on nutritive value of foods, latest trends in packaging Food labeling - definition, principles of labeling, nutrition labeling - research and testing

Unit V

Food standards and laws

Food additives, food color, flavoring agents, preservative, and antioxidants, emulsifying agents, and stabilizing agents

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References:

- 1. Food processing and bioactive compounds Y. S. Reddy
- 2. Food preservation and processing Kalia Manoranjan Sood Sangita
- 3. Food Technology Processing and Laboratory Control F. Aylword
- 4. Food Preservation and Processing Kalin M

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05 Credits Food Science and Experimental Food Core Course 11: Time: 3 Hours Full Marks: 70 The pattern of question papers will be as under Group A- Compulsory – ten questions (two questions from each unit) of two marks each. $2 \times 10 = 20 \text{ marks}$ Group B- Five questions (one from each unit) – each question of 5 marks, four to be answered. $5 \times 4 = 20 \text{ marks}$ Group C- Five questions (one from each unit) – each question of 10 marks, three to be answered. $10 \times 3 = 20 \text{ marks}$ Objectives: To acquire knowledge regarding food groups ☐ To gain knowledge regarding cooking methods applied for specific food items Unit I Introduction to food science: Aims and objectives of the study of food science ☐ Food acceptability by variation in color, flavor and texture Physiochemical properties of food Unit II Carbohydrates in foods ☐ Sugar – Sources, properties and uses, stages of sugar cookery ☐ Starch – Sources, properties and uses, processed cereal products Unit III Protein cookery Pulses - composition, methods of cooking, germination and fermentation Meat – structure, common types, changes occurring during cooking of meat ☐ Fish – types, characteristics of fresh fish, cooking and preservation Egg – structure, methods of cooking, uses of egg in different preparations Milk – composition, effect of heat on milk, uses in cookery **Unit IV** Vegetables and fruits Classification, composition, color/pigments, effects of cooking on vegetables Fruits-Classification, composition, effect of heat and methods of preservation Unit V Nuts, oilseeds and beverages □ Nuts and oilseeds – composition and uses in cookery ☐ Beverages and appetizers- coffee, tea, fruit beverages and alcoholic beverages, milk based beverages, carbonated, non-alcoholic beverages and alcoholic beverages

References:

1. Charley H. (1982), Food Science, 2nd Edition, John Wiley and Sons, New York

2. Potten N and Flotch Kiss. JH (1996), Food Science, 5th Edition, CBS, Publishers and Distributors, New Delhi

3. Food Chemistry and Experimental Foods by M.Swaminathan, Ganesh & Co., Madras

4. Sri Laxmi (2005), Food Science, 3rd Edition, New Age International Publisher

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Core Course 12:

Institutional Food Management

05 Credits

Full Marks: 70

Time: 3 Hours

The pattern of question papers will be as under Group A- Compulsory – ten questions (two questions from each unit) of two marks each. $2 \times 10 = 20$ marks
Group B- Five questions (one from each unit) – each question of 5 marks, four to be answered.
$5 \times 4 = 20 \text{ marks}$ Group C- Five questions (one from each unit) – each question of 10 marks, three to be answered. $10 \times 3 = 20 \text{ marks}$
Objectives: This course is designed to: Provide practical field level experience in food administration Equip the students to have knowledge about various food service systems Impart knowledge of quantity cookery and quality control in food administration
Unit I Introduction to Food Service Food service system and their development An introduction to Food Service Industry
Unit II Food Service System Planning and Management Planning Strategies in planning Kitchen layout planning Pricing of product Organization and Management Management Theories Tools of management Personnel management Organization and steps in organizing
Unit III Food production Menu planning Food purchase Cost control Quantity Food production Standardization of recipes Service Management Delivery and service of foods in different systems
Unit IV Management of Social Institutes – family as an institutes, child care and geriatric institutions
Unit V Food Hygiene and Sanitation Sanitation and safety in food services References:

1. West & Wood "Food service in Institutions – Johu Wiley & Sons, 1977

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3. Mohini Seth, Institutional Food Management, New Age International Publishers

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Core Course 13:

Community Nutrition

05 Credits

Time: 3 Hours Full Marks: 70 The pattern of question papers will be as under Group A- Compulsory - ten question s (two questions from each unit) of two marks each. $2 \times 10 = 20 \text{ marks}$ Group B- Five questions (one from each unit) - each question of 5 marks, four to be answered. $5 \times 4 = 20 \text{ marks}$ Group C- Five questions (one from each unit) - each question of 10 marks, three to be answered. $10 \times 3 = 20 \text{ marks}$ Objectives: Equip the community/ public to have knowledge about various nutritional problems and their prevention Understand the causes and consequences of nutrition problem in society Acquire basic knowledge about various approaches to nutrition and health programmes ☐ Gain basic knowledge about food consumed by the community To assess nutritional status of the community Unit I ☐ Concept of Public Nutrition, relationship between health and nutrition □ Nutritional problems prevalent in India and measures to combat them ☐ Bone health problems and dietary management Unit II Assessment of nutritional status Direct - Anthropometric, clinical and Biochemical Indirect - Vital Static diet survey Unit III Nutrition Education - objectives, planning, evaluation of nutrition education programme Selection of effective nutrition education method **Unit IV** National and international agencies involved in women and child welfare □ National agencies – ICDS, ICMR, ICAR and NIPCCD ☐ International agencies – WHO, FAO, UNICEF Unit V ☐ Primary health care of the community – National health care delivery system, Indicators of Health References: 1. vkgkj ,oa iks"k.k foKkua & MkWDVj izfeyk oekZ] MkWDVj dkjfr ik.Ms;

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4. Child Nutrition & Primary Education: Surendra Nath Mishra, Maharanjan Behera

Core Course 14: Practical	05 Credits
Full Marks: 70	Time: 3 Hours
The pattern of question papers will be as under Group A- Compulsory – ten questions (two questions from each unit) of Group B- Five questions (one from each unit) – each question of 5 mar	$2 \times 10 = 20 \text{ marks}$
Group C- Five questions (one from each unit) – each question of 10 mc	$5 \times 4 = 20 \text{ marks}$
Core Corse: 10 Food Processing	
 Physical principles in freezing and dehydration processing Chemical principle in food processing - Chemical changes anitation and waste disposal Packaging - Latest trends in packaging, function and mana Food labeling - Definition, principles, nutritional labeling, for Quality control - risk analysis, Hazard Analysis Critical Con (HACCP) 	gement. ood standards and laws.
Core Corse: 11 Food Science and Experimen	ntal Food
Crystallization of sugar, stages of sugar cookery, prepar gulab jamun Study of changes occurring during cooking of meat, fish roast and minced meat fried and steamed fish, poached egg Effect of soaking and germination- preparation of dishe grams sattu- litti and kheer Use of different methods of cooking vegetables and their eggs	and egg Preparation of meat g, omllets, moonaise es from soaked germinated
to minimize losses Gelatin and frozen desserts – factors affecting ice crystal for	rmation
Core Corse:12 Institutional Food Managem	ent
☐ Running and managing a food service institution cafeteria☐ Quantity cookery – standardized portions☐ Visit to various food service institutions.	
Core Corse:13 Community Nutrition	
 Development of low cost recipes for infants, preschoolers, el adolescents, Pregnant and lactating mothers. Planning of cyclic menus for balwadi/nursery school, mid-one Survey: Dietary surveys and assessment of nutritional statute. Visits to the ongoing public health nutrition programmes 	lay snack/school lunch.
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Semester- IV

Course Opted	Course Name	Credits
EC - 1 (Elective Course)	Practical Approach to Writing Research Activities	5 (0+5)
EC - 2 (Elective Course)	Internship/Dissertation/ Project/Seminar	5 (0+5)
GE -1 (Generic Elective)	Human Rights	5 (5+0)
	Total	15

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Semester- IV

Elective Course 1: Practical Approach to Writing Research Activities

05 Credits

Time: 3 Hours Full Marks: 70

The pattern of question papers will be as under

Group A- Compulsory – ten questions (two questions from each unit) of two marks each.

 $2 \times 10 = 20 \text{ marks}$

Group B- Five questions (one from each unit) - each question of 5 marks, four to be answered.

 $5 \times 4 = 20 \text{ marks}$

Group C-Five questions (one from each unit) – each question of 10 marks, three to be answered.

 $10 \times 3 = 20 \text{ marks}$

Unit I

Writing for Grants - and Aid

- ☐ Getting familiar with the proposal format of different funding agencies: National and International level
- ☐ Project proposal presentation
- Proposal for Seminar/ Conference / Workshop

Unit II

Different forms of research writing

- Dissertation
- Project report
- Articles in Journals
- Research notes and reports
- Review of article
- Review of books

Unit III

Power Point Presentation of any one from Unit I & II

Elective Course2: Internship / Dissertation / Project / Seminar 05
Credits

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Internship Project:

The students shall be required to undergo and internship project for a total duration of 4-6 weeks in their chosen area of interest/ specialization /optional group that will facilitate their pursuing a professional career in the same field. They will be assigned the project work to be completed during the break after second semester. The organization/ institute (public/private) providing internship facility to students should stand as good professional career support. The students will be required to submit and present a report of the internship project after completion of the same. It is also envisaged that the participating organization / institution will give the performance appraisal of the students work at the end of internship period.

Dissertation:

Every student shall be allotted a research supervisor. The research supervisor shall be from the Department of Home Science and if the topic so requires the co-guide could be from other semester. The topic of research will be finalized by the research supervisor in consultation with the Head of the Department. It is the responsibility of the research supervisor that the student is making the required progress in work. The student will have a give a presentation on the research proposal and a seminar on the findings of research before submitting the dissertation. The suggestions and constructive criticism of the faculty should be made use of

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by student for further improving the draft of the dissertation. The study must be completed and submitted in the form of a dissertation by the end of the final year. Normally, the M.A. Dissertation is expected to cover 60-80 pages of A4 size, excluding bibliography and appendices. Three copies of the same should be submitted to the Department of Home Science. Each student submitting a dissertation must also submit three copies of the abstract of her dissertation not exceeding 300 words, excluding the title. Marks will be awarded, for research seminars practical exercises and viva-voce examination. Student shall give a formal presentation of the report before the jury comprising of minimum three internal faculty members including internal supervisor who will be appointed by the Director of the college. The external marks will be awarded the external examiner to be appointed by the examination division of the university. The format of the report is given below:

- 1. Research Objective
- 2. Literature Review
- 3. Research Methodology
- 4. Results and Analysis
- 5. Conclusion
- 6. References
- 7. Appendices to include questionnaire, if any

Dissertation shall incorporate the certificate given by the internal supervisor regarding its satisfactory completion.

Seminar

A seminar will be presented based on the Dissertation

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