

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards++ - 57 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

CIRCULAR NO.SU/Social Sci./M.A. Home Sci. Syll./52/2015

It is hereby informed to all concerned that, on the recommendation of the Board of Studies in Home Science, the Hon'ble Vice-Chancellor has accepted the **Curriculum under Choice Based Credit & Grading System of M.A. Home Science Ist Year Semester-I & II under the Faculty of Social Sciences** on behalf of the Academic Council Under Section-14[7] of the Maharashtra Universities Act, 1994.

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF. NO. SU/M.A. HOME SCI./
2015/11411-30
Date:- 07-08-2015.

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Director,
*Board of College and
University Development.*

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University.**

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [M.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Public Relation Officer,
- 7] The Record Keeper.

Dr. Babasaheb Ambedkar Marathwada University,

**D R. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



**CURRICULUM UNDER CHOICE BASED CREDIT &
GRADING SYSTEM**

M. A. I YEAR

Home Science

SEMESTER-I & II

**RUN AT COLLEGE LEVEL FROM THE
ACADEMIC YEAR 2015-16 & ONWARDS**

*Dr. Anshul
Dr. Nughatsultana
BOS Chairperson
Home Science*

**D R. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



M.A. First Year

Ist Sem.

HOME SCIENCE

(EFFECTIVE FROM - 2015 ONWARDS)

Alphat
Charman BOS
in Home Sci.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD

Department of Home Science

Curriculum Structure and Scheme of Evaluation

For M.A. Ist Year

Semester – First

Sr. No.	Course	Name of the Subject	Scheme of teaching (Periods Per week)			Scheme of Evaluation Marks			Total Credits	
			T	P	Total Periods	Theory Exam	Internal	Practical		
1	HSC 401	(Comp.) Human Development (Early Child Education)	04	-	04 Week	80	20	--	100	4
2	HSC 402	(Comp.) Research methods & Research Statistics	04	--	04	80	20	--	100	4
3	HSC 421	(Opt) Communication Techniques and Computer Application	04	--	04	80	20	--	100	4
4	HSC 422	(Opt) Textile and clothing construction	04	--	04	80	20	--	100	4
5	HSC 451	(Comp) Textile and clothing construction Practical - I	--	04	04	80	20	--	100	4
		TOTAL			16	320	80		400	16

**M.A. FIRST YEAR
HOME SCIENCE
(First Semester)
Human Development
(Early Childhood Education)**

Subject Ref. No.	: HSC	401
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

SCOPE :

The Student would be eligible & qualified for teaching at preprimary level. This will provide opportunity for self employment a) Starting crèche b) Day care centers.

OBJECTIVES :

1. To understand the principles and to develop interest and ability of childhood care and education.
2. To develop the skills & techniques to plan and conduct activities in earlier childhood care & education centers of different types and to work effectively with parents and community.
3. To interact effectively with parents and community.
4. To develop the concern regarding child's health and well being & to train / mould him in a socially acceptable manner.

Unit I) Preschool Children Care

Credit 1

- i) Introduction to early childhood Concept of early childhood Characteristics, physical and motor, social, emotional

cognitive and language development, Behavioral Problems in early childhood. (Brief Review).

- ii) Growth Monitoring of Early Childhood.
- iii) Happiness & common interest in early Childhood.
- iv) Hazards during Early Childhood.

Unit II) Principles of Early Childhood Care

Credit 0.5

- i) Importance need & scope of early childhood care & education.
- ii) Substitute care at home and outside
 - a) By Parents, Grandparents, other at home
 - b) Outside home- crèche /day care centre, Play centre

Unit III) Historical Development of Preschool Education

Credit 0.5

- i) Western Methods and Philosophies: Comenius, Rousseau, Pestalozzi, Froebel, Montessori and Dewey etc.
- ii) Indian Methods and Philosophies: Tagore, M.K. Gandhi, Giju Bhai Bhadaka & Tara bai Modak. Principles , (application and limitations) etc.

Unit IV) a) Nursery School Building and Equipments

Credit 1

- i) Site & Location Plan of preschool
- ii) Types of preschool buildings,
- iii) Space for indoor & outdoor games
- iv) Play Equipments - Play Equipment according to various development
- v) Use of advanced Electronic games for Preschool Children and its Effects.

b) Formal and Non-formal education

- i. Concept
- ii. Play way method
- iii. Integrated approach to teaching, learning, experiences.
- iv. Psychological effect of pressure on education / play activities.

Unit V) Preschool teacher and administration

Credit 1

- i) Role & Responsibilities and essential qualities of a teacher
Head Master/Principal & Supervisor other personnel.
- ii) Importance of Essential of records (General Register, Attendance Register for staff & students, Log book for Teacher, Service Book, & cumulative Record card.
- iii) Performance appraisal: Meaning & Importance criteria of performance appraisal of teachers.

Related activities/sessionals (Any two)

1. Visits to Day -care centers, ICDS, Balwadi, Anganwadi, Creche etc.
2. Observation & Participation in the nursery school, Preschool, crèches & day care centre for a week.
3. Planning & preparation of teaching aids & materials needed for young children such as puppets, posters, blocks, flash cards or any other.
4. Observation of a child in Nursery School for his developmental stage for one month in the following areas and submission.
 - i) Physical- Height and Weight
 - ii) Motor skills, Handedness
 - iii) Emotional Development
 - iv) Play Activity

- v) Group Play
- vi) Language
- vii) Social Development
- viii) Peculiar Behavior
- ix) Find I.Q. of students of preschool class

REFERENCES :

1. Bhatia & Bhatia (1995). Theory and Principles of Education, Doaba House, Delhi.
2. Brewe, J.A. 1998 Introduction to early childhood Education third Ed. Boton: Ahyn & Bacaon.
3. Carol : E.C. and Jan Allen (1933). Early Childhood curriculum, Unversity of Tennessee, New York: Macmillan.
4. Day Barbara (1989). Beginning and Beyond, Second Education, Dalmar Pub. Inc.
5. Grewal, J.S. (1984). Early childhood Education, agra National Pschology Corporation Pub.
6. Hydebrand Verma (1981). Introduction to Early Childhood Education N.Y, Macmillan.
7. Jinkinse. E. (1977) a Practical guide to early childhood curriculam, C.V. Mostey Co.
8. Kaul V. (1971). Early Childhood Education Programmes New Delhi. NCERT.
9. Kohn Ruth (1992). The Exploring child, Mumbai Orient Longman.
10. Kulkarni S. (1998) Parent Perspectives and Approaches. Jaipur, Ravat Publications.

11. Mohati & Mohati (1996). Early Childhood Care & Education
New Delhi Deep & Deep Publication.
12. अशा परुळेकर, मुलांचे मानसिक तणाव व उपचार उन्मेष प्रकाशन, पुणे.
13. प्रा. रमेश पानसे, बालशिक्षण - स्वरूप व नवी दिशा, डायमंड पब्लिकेशन्स, पुणे.
14. प्रा. प्रियंवदा लाठकर, मातृकला व बालविकास, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
15. ज्योति गायकवाड, बालविकास शास्त्र श्री मंगेश प्रकाशन, नागपूर.
16. बालविकास डॉ. नुजहत सुलताना आणि डॉ. खंदाट एम.एस. चिनमय प्रकाशन,
औरंगाबाद.

**M.A. FIRST YEAR
HOME SCIENCE
(First Semester)
Paper -II**

Research Methods & Statistics

Subject Ref. No.	: HSC	402
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

OBJECTIVES:

1. To understand the significance of statistics and research methodology in Home Science Research.
2. To understand the Application of appropriate statistical techniques for research design.
3. To know the sampling methods for research work.

CONTENTS:

Unit I Introduction to research methods and statistic *Credit 1*

- a) Meaning, Definition and importance of research methods.
Role of Statistics and research in Home Science discipline
Types of Research -Historical, Survey, experimental, case study, Social, participatory.
- b) Meaning, Definition & Characteristics of statistics.
- c) Introduction, definition & importance of research design,
Types of Research design-Exploratory Descriptive,
Diagnostic, experimental.

Unit II Definition & Identification of a Research Problem *Credit 1*

- a) Formulation or identification of problem- meaning, definition, factors.

- b) Hypothesis-Meaning & types, Limitations & delimitations of the problem

Unit III Data gathering

Credit 1

- 1. Primary – Direct observation, Questionnaires, Interview, group discussion, Schedule, case study Scaling Methods and Home Visits
- 2. Secondary- Personal documents, Public records and reports, Role of Library.
- 3. Reliability & Validity of measuring instrument.

Unit IV) Selection of Sample/sampling

Credit 1

- a) Meaning, Definition, Selection of Sample, Size of Sample, types of Probability, Sampling Systematic, random sampling two stages and multistage sampling.
- b) Non Probability sampling, Purposive Sampling.
- c) Quota
- d) Volunteer/Self Selection, Snowball Sampling.
- e) Pilot Study-Definition & Characteristics.
- f) Data Analysis Meaning, Definition, importance & Steps, Classification, tabulation, interpretation of statistical information, diagrammatic Presentation & graphical Presentation.

Related activities/Sessionals (Any two)

- 1. Prepare PPT on Research Project
- 2. Formulation of Research Project
 - i) Introduction
 - ii) Importance

- iii) Objectives
 - iv) Review of Literature
 - v) Hypothesis
 - vi) Research Methodology.
 - vii) Result & Discussion
 - viii) Summary & Conclusion
 - ix) Bibliography
3. Prepare a CD on any topic related to subject.

REFERENCES :

1. Bandarkar, P.L. and Wikinson T.S. (2000): methodology and Techniques of Social Research, Himalaya Publishing House, Mumbai.
2. Bhatnagar, G.L. (1990): Research Methods and Measurement in Behavioural and social Science, Agri, Cole Publishing Academy, New Delhi.
3. Kerlinger:m Foundation of Education Research.
4. An Introduction of Science research : E. B. Wilson.
5. An n handbook of methodology research : Dr. R.R. Deodar.
6. Methods in social Research :Goode & Half.
7. Ajit Kumar Parnaik (2000) Research Methodology in social science, coomonwelth publishers, darya Ganj, New Delhi.
8. Dr. Suman Bahare Samajik Sushodhan Padhati Vidhya Prakashan, Ruikar road, Nagpur.
9. R.R. Mule V. L. Umale Shikshanik Mutatve Maharashtra University Nirmat Mandal Nagpur.
10. Dr. Kachode Samajik Saushodhan Padhati Kailas Publication, Aurangapaura.

11. Prof. Khatode, Samajshastra Saushodhan Tatve Va, Shri. Mangesh Prakashan, Nagpur
12. Dr. Deshkar, Prof. Deshpande Sankhikishashtra.
13. डॉ. प्रदिप आगलावे, संशोधन पध्दतीशास्त्र श्रीसाईनाथ प्रकाशन, नागपूर.
14. डॉ. काचोळे, सामाजिक संशोधन पध्दती कैलास पब्लिकेशन, औरंगाबाद.
15. डॉ. सुमन बेहेरे, सामाजिक संशोधन पध्दती, विद्या प्रकाशन, नागपूर.
16. डॉ. खैरनार व प्रा. राऊत सामाजिक संशोधन पध्दती चिन्मय पब्लिकेशन औरंगाबाद.
17. प्रा. माधव सोमण, सामाजिक संशोधनची तत्वे, पुणे विद्यार्थी गृह प्रकाशन, पुणे.

**M.A. FIRST YEAR
HOME SCIENCE
(First Semester)**

**Paper -IV
Communication System & Computer Application**

Subject Ref. No.	: HSC	421
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

SCOPE :

OBJECTIVES:

1. To impart knowledge and understanding of various communication system.
2. To provide a sound knowledge base for the relevance and applicability of the various media used in human communication and their complementary role towards each other.
3. To enhance versatility of the student in the selection and use of media in different socio -culture environments
4. To impart skill in preparation of various Computer Aided Media messages.

CONTENTS:

Unit -I Communication System

Meaning, Principles, Nature, Role and Significance of communication system.

Communication Systems - Types of Communication systems

Mass communication- Scope, Elements & characteristics

credit 1

Visual Communication-Elements of visual design –colour, line, form, Texture & Space.

Principles of Visual design- rhythm, Harmony, Proportion, balance, and emphasis

Visual composition and editing

Unit –II Communication Technology (In respect to education) *Credit 1*

- a) Concept, meaning, definition & characteristics of ICT in education.
- b) Advantage and limitation of ICT
- c) Developing the unit plans, creating multimedia presentation, support material for teachers and students.
- d) Government Policies and regulations on mass media in India.
- e) Understanding and analysis of the ongoing and Non-Government efforts in communication development.
- f) New avenue for communication development, literacy, women and development, human rights and development.

Unit –III Computer application in education

Credit 1

- a. Computer –Meaning, Characteristics, types
- b. Application of computer in various fields, education use of computer
- c. Internet technology-historical development, its application, email.
- d. Language Laboratory, Teleconferencing (audio, video, computer)

Unit IV) Modern Media of Communication

Credit 1

- a) Print Media books, news papers, magazines, leaflets and pamphlets.
- b) Electronic Media –Radio, T.V. Video, Computer based Technologies.
- c) Outdoor media Exhibition & fairs.
- d) Barriers of Communications.

Related Activities/Sessionals (Any two)

1. Preparation of PPT & CD on related Topic
2. Preparation of transparency & Slide
3. Preparation of IEC material on various topics of different target audience.
4. Dealing with various issues in development communication through the use of folk media, leaflets, newspapers stories and reports, exhibitions, computer aided technologies.
5. Project Preparation on specific area in development communication.

REFERENCES

1. Dhama, O.P. Bhatnagar, O.P.: Education and Communication for Development, 1987.
2. Dhama, O.P. Bhatnagar, O.P.: Communication for Development, 1991.
3. Educational Technology – A.R. Sharma, Vinod Pustak Mandir, Agra.
4. IT Tools and Applications – Sanjay Sexena & Prabhpreet Chopra, Vikas Publishing House, New Delhi.

5. Computer Science – Dr. S.A. Mannan & Dr. M. Razaullah Khan, Renuka Prakahsna, Aurangabad.
6. प्रगत शैक्षणिक तंत्रज्ञान डॉ. ह. न. झगताप नुतन प्रकाशन, पुणे.
7. माहिती तंत्रज्ञान, डॉ. शोभना जोशी, सौ. मेघना शिराढोणकर, मृण्मयी प्रकाशन, औरंगाबाद.
8. शैक्षणिक तंत्रज्ञान आणि व्यवस्थापन डॉ. शारदा शेवतेकर (बढवे) प्रज्ञा प्रकाशन पुणे.

**M.A. FIRST YEAR
HOME SCIENCE
(First Semester)**

Paper -IV

Textile and Clothing Construction

Subject Ref. No.	: HSC	422
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

SCOPE :

Student will be able to work as dress designers in clothing manufacturing units and boutiques

OBJECTIVES:

1. To develop skills in dress designing & clothing construction.
2. To create awareness regarding Indian traditional textile & regional embroideries.
3. To impart the knowledge regarding fashion & apparel designing.
4. To aware the students about the current fashion trends.

A) Unit I Fabric Identification

1. Importance & identification of grain.
2. Identifying right & wrong side.
3. Different widths of fabrics.
4. Economical layout plan.

Credit 1

B) Basics of Clothing construction

1. Drafting height & girth measurement & Chest Measurement
2. Study of chest measurement system.
3. Principles of cutting & drafting
4. Techniques Pattern making drafting, flat pattern method & draping

Unit II General Principles of Clothing Construction

credit 1

1. Study of body measurements in relation to height & age.
2. Taking body measurement for different types of garment.
3. Importance of drafting and making paper pattern.
4. Basic cutting Procedure- racing, placing, pinning & cutting pattern
5. Calculating the amount of material required for different garment
6. Preparation of fabrics strengthening, shrinking & Pressing.

Unit III Fitting

credit 0.5

1. Figure irregularities
2. Factors affecting good fitting
3. Common problem encountered in fitting of garments.
4. Basic alternations remedies for fitting defects lengthwise & widthwise, alternation for both above waist & below waist garments.

Unit IV) Traditional textile & regional embroideries of India

credit 1

1. Traditional textile- Dhaka, Chanderi, Baluchedar & Buttedar, Himru- Amru, Kin-Khwab, Bafta-Ahirwhan, Paithani, Pitambari, Bandhani.

2. Regional embroideries –Phulkari, Kasuti of Karnataka, Kanta, Kashmiri, Chikankari, Kutch & Kathiawars, Applique work of Bihar

Unit V) Fashion

Credit 0.5

1. Introduction
2. Fashion technology
3. Principles of on Fashions
4. Fashion Cycle
5. Factors influencing fashion
6. Study of fashion figure (briefly)

a) Fashion buyers

- a) Manufacture role
- b) Types of Manufacturer
- c) Theories of fashion adaptation
- d) Cope of fashion business
- e) Current fashion trends in teenager's clothing.

Related activities/Sessionals (Any two) Report writing

1. Visit to review Textile mills & museums in India. (Use of Internet direct).
2. Visit to small scale Industry - Pathani weaving centre.
3. Visit to Boutique
4. Visit to tailoring classes

REFERENCES

1. Deulkar D. "House Hold Textile & Laundry Work" Atmaram & Son. New Delhi.

2. Dantyagi "Fundamentals of Textile & their care" 4th Edition, Orient Laongman Ltd. New Delhi-110002.
3. Isabel B.W., Textile Fabrics & Their selection. 8th Edition, Prentice Hall Inc. Eaglewood Cliff.
4. Sheneei N.A. "Hisotry of Textile Seuk Publications.
5. Pandit S : Regional Embroidery, "Faculty of Home Sicne Baroda".
6. Fraef J.L. Concepts of Clothing Mc Graw Hill, New York.
7. प्रा. विमल आढाव, वस्त्रशास्त्र.
8. डॉ. वैरागडे, प्रा. अनिता अग्रवाल, वस्त्रशास्त्र संकल्पना व फॅशन डिझाईनिंग, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
9. प्रा. शुनिता काळे - पवार वस्त्रशास्त्र, परभणी.

**M.A. FIRST YEAR
HOME SCIENCE
(First Semester)**

Paper – V

Textile and Clothing Construction (Practical)

Subject Ref. No.	: HSC	451
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

Content of Practicle

- I. Stitching of garment (Any one)
 1. Salwar/Churidar
 2. Kameez
 3. Party wear frock
 4. Blouse –Katori
 5. Gawn
- II. Knitting of Sweter
- III. Making of Designer's dupatta
- IV. Fashion illustrations
 - a. Sketching of human figure
 - b. Fashion accessories hats & head wears, foot wear, Bags & purses, neck wears & jewellery.
- I) Prepare a sample of tie and die. (5)

**M.A. FIRST YEAR
HOME SCIENCE
(First Semester)**

Examination Pattern for Practical

Textile and Clothing Construction (Practical)

Stitching of Garment	:	30 Marks
Knitting of Sweater	:	20 Marks
Prepare a sample of tie & die	:	20 Marks
Record book	:	20 Marks
Viva	:	10 Marks
Total	:	100 Marks

Nuzhat
Dr. Nuzhat Sultana
BOS chairman in
Home Sci.

**D.R. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



M.A. First Year

IIInd Sem.

HOME SCIENCE

(EFFECTIVE FROM - 2015 ONWARDS)

*Alughat
Dr. Nughat Sultana
Chairman Board
in Home Sci*

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD

Department of Home Science

Curriculum Structure and Scheme of Evaluation

For M.A. Ist Year

Semester – Second

Sr. No.	Course	Name of the Subject	Scheme of teaching (Periods Per week)			Scheme of Evaluation Marks			Total Credits	
			T	P	Total Periods	Theory Exam	Internal	Practical		
1	HSC 403	(Comp.) Human Development (Management for Early Childhood Education)	04	-	04 Week	80	20	--	100	4
2	HSC 404	(Comp.) Research methods & Research Statistics	04	--	04	80	20	--	100	4
3	HSC 423	(Opt) Extension Education	04	--	04	80	20	--	100	4
4	HSC 424	(Opt) Advanced Nutrition	04	--	04	80	20	--	100	4
5	HSC 452	(Comp) Advance Nutrition Practical – I	--	04	04	80	20	--	100	4
		TOTAL			16	320	80		400	16

**M.A. FIRST YEAR
HOME SCIENCE
(Second Semester)
Human Development
(Management for Early Childhood Education)**

Subject Ref. No.	: HSC	403
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

SCOPE :

The Student would be eligible & qualified for teaching at preprimary level. This will provide opportunity for self employment a) Starting crèche b) Day care centres.

OBJECTIVES:

1. To understand the influence of various philosophers, education & theories on E.C.C.E.
2. To make parents aware of significance of E.C.C.E.
3. To develop the skills and techniques to plan and conduct activities in E.C.C.E. centers of different types and to work effectively with parents and community.
4. To understand special needs of exceptional children in educating them.

Unit I Management in Pre School Education

Credit - I

- i) Principles, long & short term, weekly & daily planning outline & schedules
- ii) Activities for early childhood care & education

- iii) Activities of Preschool Routine activities story telling, music & Rhymes, creative, activities, science experiences, social studies experiences, literature, reading, programme, field trip, festivals & celebration.
- iv) Preparation & use of teaching aids in Nursery school.
- v) Different Ways for Parents Participation, Parent Teacher Association (PTA) Importance & its Activities.

Unit II Teaching methods for Preschool Children Credit - I

- a) Concept of formal & non-formal education
 - i) Play way methods
 - ii) Integrated approach to learning, teaching experience
 - iii) Psychological effect of pressure on education and play activities
- b) Discipline & Accountability in school
 - i) School discipline, rewards and punishment
 - ii) Ways of ensuring effective institutional discipline
 - iii) Accountability in school education
 - iv) Methods used for assessment of accountability of Teaching & Non-Teaching staff.

Unit III Children with special needs Credit - I

- a. Definitions, causes & Need for Early Detection and Intervention.
- b. Types of Disabilities: Characteristics.
 - 1. Sensory Deficits- Visually & Hearing impairment, Blind children.
 - 2. Mental Retardation

3. Learning Disabilities
4. Children with speech defects.
5. Gifted children – meaning classification characteristics, identification, education, special program.
6. Common behavioral Problems of Pre School Children: Causes and Prevention.

Unit IV) Child Guidance and Counseling

Credit - I

- a. Concept, aim, scope, Principle of guidance & counseling with Reference to Child development
- b. Competencies of Child guidance worker & Counselor
- c. Process of Child Guidance and Counseling
- d. Different Technique of guidance and Counseling-Behavior, Modification, Play Therapy, Case Study

Related activities/sessionals (Any two)

1. Visits to institutions and families for the study of (Any one)
 - a) Mentally challenged children
 - b) Blind Children
 - c) Deaf and dumb children
 - d) Physically crippled children
 - e) Children with speech defects
2. Growth monitoring of Anthropometric measurements (Height, Weight and Head Circumference) of Early Childhood. (Ten sample)
3. Presenting a Lecture / Demonstration /Seminar / Workshop on issues related to guidance & Counseling of Pre School Children.

4. Evaluation of Nursery school time table and suggest changes if necessary.

REFERENCE

1. Bhatia & Bhatia (1995). Theory and Principles of Education, Doaba House, Delhi.
2. Brewe, J.A. 1998 Introduction to early childhood Education third Ed. Boton: Ahyn & Bacaon.
3. Carol : E.C. and Jan Allen (1933). Early Childhood curriculum, Unversity of Tennessee, New York: Macmillan.
4. Day Barbara (1989). Beginning and Beyond, Second Education, Dalmar Pub. Inc.
5. Grewal, J.S. (1984). Early childhood Education, agra National Pschology Corporation Pub.
6. Hydebrand Verma (1981). Introduction to Early Childhood Education N.Y, Macmillan.
7. Jinkinse. E. (1977) a Practical guide to early childhood curriculam, C.V. Mostey Co.
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9. Kohn Ruth (1972). The Exploring child, Mumbai Orient Longman.
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23. प्रा. रमेश पानसे, बालशिक्षण - स्वरुप व नवी दिशा, डायमंड पब्लिकेशन्स, पुणे.
24. प्रा. प्रियंवदा लाठकर, मातृकला व बालविकास, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
25. ज्योति गायकवाड, बालविकास शास्त्र श्री मंगेश प्रकाशन, नागपूर.
26. बालविकास डॉ. नुजहत सुलताना आणि डॉ. खंदाट एम.एस. चिनमय प्रकाशन, औरंगाबाद.

**M.A. FIRST YEAR
HOME SCIENCE
(Second Semester)
Paper -IV**

Research Methods & Statistics

Subject Ref. No.	: HSC	404
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

OBJECTIVES:

To develop understanding of report writing & techniques in statistics.

CONTENTS:

Unit -I Report Writing

Credit - I

- a) Introduction, Definition & objectives of report writing. Factors of report writing Introduction, Review of Literature, Methodology, result & Discussions, Summary and Conclusion, Bibliography, Appendix

Unit -II Statistical Techniques

Credit -I

- i) Introduction, Definition, use, merits and demerits of mean, median & mode.
ii) Measures of Variability- Introduction, definition, Mean deviation, standard deviation, characteristic, Use, limitations.

Unit III Correlation & Degree of freedom

Credit -I

Correlation- Introduction, definition & Types- Karl Person's & Spearman's rank correlation method. Correlation of coefficient- Meaning & use.

Unit IV - Degree of Freedom

Credit -I

- i) Introduction, Definition.
- ii) χ^2 (Chi-square) Test for $2 \times 2 \times 2 \times 3$ table.
- iii) Application of t' for small samples (below 30 samples)
- iv) Application of F test.
- v) Analysis of Variance (ANOVA)

Related activities/Sessionals (Any two)

1. Find out the Mean, Mode, and Median from scores of any class.
2. Find Standard deviation from scores of any class.
3. Find co-relation.
4. Test application of any one : Chi-square, t test, f test.

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13. Dr. C.P. Kadam, Shishanik Sankhayashastra Nutan Prakashan Daswadi. Pune.
14. Dr. K.M. Bhadarkar, Sulabh Shaishanik Sankhayashastra, Nityanutan Prakashan, Daswadi Pune.
15. Deshkar, Deshpande, SankhkiShastra.
16. Dr. Suman Bahare Samajik Sushodhan Padhati Vidhya Prakashan, Ruikar road, Nagpur.
17. Dr. U.B. Kondewar, Smita Kondewar, Sankhiki aani Sankhayatmak tantra. Shibhabharti Prakashan, Ahemadpur Dist. Latur.
18. Dr. Pradip Aaglave, Saushodhan Padhati va Tantra Pramod Munje, Vidhya Prakashan, Nagpur.
19. Dr. Dilip Khainar, Dr. Kishor Raut, Samajik Saushodhan, Shinmaya Prakashan Paithan gate road Aurangabad.
20. R.R. Mule V. L. Umale Shikshanik Mutatve Maharashtra University Nimit Mandal Nagpur.

**M.A. FIRST YEAR
HOME SCIENCE
(Second Semester)
EXTENSION EDUCATION**

Subject Ref. No.	: HSC	423
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

OBJECTIVES :

1. Understand the role of Home Science in Rural Development
2. Plan an Extension Education Programme in Home Science
3. To develop skills in working with people.

Unit I Rural Sociology

Credit 1.5

- a. Community, family, Groups and neighborhood, Concept and Characteristics.
- b. Rural and urban community characteristics
- c. Social mobility, social interaction, social institutes, culture, social control and social change
- d. Understanding concept related to gender differences for society and development perspective. Patriarchy, caste class, gender and education, economic empowerment and gender, and issues related to women.

Unit II Teaching Learning Process

Credit 0.5

- a) Concept of learning , Elements & Principle involved in Learning

- b) Learning experience
- c) Types of Learning
- d) Adult Learning

Unit III Extension Program Planning

Credit - 1

- a) Meaning and importance of Extension Program Planning
- b) Principles of Extension Program Planning
- c) Steps in Program Planning
- d) Problems in implementation of an Extension Program

Unit IV Support Structure and their function in extension education

Credit - 1

- A)
 - i) Panchayat Raj Institution in India
 - ii) Zilla Parishad
 - iii) State social welfare board
- a) Rural development Programme, agencies and voluntary organizations in rural development-
 - 1. Development Programmes for farm sector-FAO, NAREGA, TRYSEM
 - 2. Development Programmes for non farm sector-ICDS,SGSY, NIPCD,WHO, DWACRA,
 - 3. Development agencies –RUDA, NABARD, ATMA, CAPARTC

Sessional Activities (Any Two)

- 1. Preparation of CD/DVD on any topic from five major areas- Human Development, Nutrition, dietetics extension, family resource management, textile & clothing.
- 2. Survey of rural community and need assessment (Report writing).

3. Assignment on rural development programmes.
4. Survey to any developmental organization / Government or Non-Government.

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8. डॉ. बरिदे, डॉ. कुलकर्णी, सामुदायिक आरोग्य व पारिचारिका सेवा संकेत प्रकशन, औरंगाबाद.
9. प्रा. सुधा काळदाते, आधुनिक भारताच्या सामाजिक समस्या.
10. के. पाक, अनुवादक - डॉ. जगन्नाथ दिक्षित, सामाजिक आरोग्य परिचर्या.

**M.A. FIRST YEAR
HOME SCIENCE
(Second Semester)
Advanced Nutrition**

Subject Ref. No.	: HSC	424
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

OBJECTIVES :

1. To understand the basic concept of metabolism of nutrients.
2. To plan and prepare innovative foods.
3. To understand the importance of enrichment of food.

Unit – I Carbohydrate

Credit – I

- a. Composition.
- b. Classification, distribution & characteristics.
- c. Functions.
- d. Dietary allowances & food sources.
- e. Dietary fibers.
- f. Digestion & metabolism of carbohydrates.

Unit – II Proteins and amino acid

Credit – I

- a. Composition, structure, and classification (in brief)
- b. Function.
- c. Dietary protein requirements and allowances, biological value.

- d. Improving protein quality of foods.
- e. Food sources.
- f. Digestion & absorption and metabolism of protein (in brief).
- g. Protein deficiency - Causes, classification & nutritional remedies, malnutrition.

Unit – III Lipids

Credit – I

- a. Composition, classification & characteristics.
- b. Functions of Fats
- c. Essential fatty acids, Phospholipids, cholesterol.
- d. Dietary allowances.
- e. Food sources
- f. Digestion, absorption & metabolism (in brief).

Unit – IV Energy Metabolism

Credit – I

- 1. Introduction
- 2. Measurement, Kilocalories, Joules, Physiological Fuel and Specific Fuel.
- 3. Factors influencing the total energy requirement.
 - a. Muscular activity
 - b. Mental effort
 - c. Calorigenic effect of food.
 - d. Maintenance of body temperature
 - e. Growth
- 4. Measurement of energy exchange of body : Direct & indirect calorimeter. Basal metabolism test, Factors influencing on BMR.

Sessional Activities : (Any two)

1. Making and selling of products like pickles, masale, squash, dry chutneys etc.
2. Survey of new instant food products oat products, soya products, multigrain products.
3. Survey of malnourished child with corrective measures suggested.

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7. डॉ. मोळवणे मंजूषा, आहारशास्त्र, कैलाश पब्लिकेशनस, औरंगाबाद-२०००.

M.A. FIRST YEAR

HOME SCIENCE

(Second Semester)

Advanced Nutrition (Practical)

Subject Ref. No.	: HSC	452
No. of Credits	: 04	
No. of periods per weeks	: 04	
Assignments / Sessionals	: 20	
Semester Exam	: 80	

- 1. Enrichment :**
 - a. Protein – For malnourished children of different grades and income group (quality, quantity).
 - b. Calories – Low & high calories diet (fat free recipes).
 - c. Fiber – High & Low fiber food.
 - d. Minerals – Calcium, Iron and Sodium High & Low.
 - e. Vitamins – Vit A, B Complex : B1, B2, B3 and Vit C.
2. Preservation – Jam, Jelly, Ketchup, Chutney, Avala moravala, Avala Supari, Pickles with and without oil, Lime and orange squashes, Masala Kala Masala, Samber Masala, Pavbhaji Masala Garam Masala.
3. Development and preparing non conventional food.
 - a. Recipe :

Atleast 3 recipes made from waste of vegetables, fruits, cereals and milk.
 - b. Sensory Evaluation
 - c. Preparation of recipes containing probiotic foods.

Distribution of Marks for Practical Examination

Enrichment Planning & Calculation of 3 recipes (one for each income group) of given nutrient	:	20 Marks
Preparation of one recipe	:	20 Marks
Detail write up and calculation of given recipe:	:	20 Marks
Preservation : Planning any one given recipe / Non Conventional food planning of any one Recipe & detail write up	:	20 Marks
Viva	:	10 Marks
Record Book	:	10 Marks
Total	:	100 Marks

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