

Syllabus for
Master of Arts in Home Science
Under Choice Based Credit System

Academic Session:
w.e.f. 2020-2022



for
All Constituent/Affiliated Colleges Under
Binod Bihari Mahto Koyalanchal University,
Dhanbad

Members of Board of Studies of CBCS Under-Graduate Syllabus as per Guidelines of the Binod Bihari Mahto Koyalanchal University, Dhanbad

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COURSE STRUCTURE
Post Graduate
Semester wise Course

Semester	Subject Code	Nature of Course	Paper Name	Full Marks	End Semester Marks	Mid Semester (Internal) Marks Written (20 marks) + Day to Day assessment includes extracurricular activities (5 marks) + Attendance (5 marks)
I	HSC-F-101 (05 Credits 60 Lectures + 15 Tutorials)	Foundation	Research Methodology & Statistics	100	70	30
	HSC-C-102 (05 Credits 60 Lectures + 15 Tutorials)	Core	Resource Management	100	70	30
	HSC-C-103 (05 Credits 60 Lectures + 15 Tutorials)	Core	Applied Physiology	100	70	30
	HSC-C/P-104 (05 Credits 75 Lectures)	Core/Practical	Practical (02&03)	100	70	30

Semester	Subject Code	Nature of Course	Paper Name	Full Marks	End Semester Marks	Mid Semester (Internal) Marks Written (20 marks) + Day to Day assessment includes extracurricular activities (5 marks) + Attendance (5 marks)
II	HSC-S-205 (05 Credits 60 Lectures + 15 Tutorials)	Skill Development Course (SEC)	Advance in food microbiology and food preservation	100	70	30
	HSC-C-206 (05 Credits 60 Lectures + 15 Tutorials)	Core	Human Development & Women related issue	100	70	30
	HSC-C-207 (05 Credits 60 Lectures + 15 Tutorials)	Core	Textile & Clothing	100	70	30
	HSC-C/P-208 (05 Credits 75 Lectures)	Core	Practical (06&07)	100	70	30

Semester	Subject Code	Nature of Course	Paper Name	Full Marks	End Semester Marks	Mid Semester (Internal) Marks Written (20 marks) + Day to Day assessment includes extracurricular activities (5 marks) + Attendance (5 marks)
III	HSC-A-309 (05 Credits 60 Lectures + 15 Tutorials)	Choice based (Generic Open Elective)	Therapeutic Nutrition	100	70	30
	HSC-C-310 (05 Credits 60 Lectures + 15 Tutorials)	Core	Extension Education & Communication	100	70	30
	HSC-C-311 (05 Credits 60 Lectures + 15 Tutorials)	Core	Food Science & Nutritional Biochemistry	100	70	30
	HSC-C/P-312 (05 Credits 75 Lectures)	Core/Practical	Practical (10&11)	100	70	30

Semester	Subject Code	Nature of Course	Paper Name	Full Marks	End Semester Marks	Mid Semester (Internal) Marks Written (20 marks) + Day to Day assessment includes extracurricular activities (5 marks) + Attendance (5 marks)
IV (Group-A)	HSC-E-413A/ (05 Credits 60 Lectures + 15 Tutorials)	Discipline Centric Elective Theory Group A.	Institutional Food Administration	100	70	30
	HSC-E-414A/ (05 Credits 60 Lectures + 15 Tutorials)	Discipline Centric Elective Theory Group A.	Public Nutrition & Therapeutic Nutrition	100	70	30
	HSC-E/P-415A/ (05 Credits 75 Lectures)	Discipline Centric Elective Practical Group A.	Practical (13&14)	100	70	30
	HSC-D-416 (05 Credits 75 Lectures)	Dissertation/ Project		100	70	30

Semester	Subject Code	Nature of Course	Paper Name	Full Marks	End Semester Marks	Mid Semester (Internal) Marks Written (20 marks) + Day to Day assessment includes extracurricular activities (5 marks) + Attendance (5 marks)
IV (Group-B)	HSC-E-413B/ (05 Credits 60 Lectures + 15 Tutorials)	Discipline Centric Elective Theory Group B.	Early Childhood Education, Parent Community Education	100	70	30
	HSC-E-414B/ (05 Credits 60 Lectures + 15 Tutorials)	Discipline Centric Elective Theory Group B.	Theory of Human Development & Exceptional Children	100	70	30
	HSC-E/P-415B/ (05 Credits 75 Lectures)	Discipline Centric Elective Practical Group B.	Practical (13&14)	100	70	30
	HSC-D-416 (05 Credits 75 Lectures)	Dissertation/ Project		100	70	30

Semester	Subject Code	Nature of Course	Paper Name	Full Marks	End Semester Marks	Mid Semester (Internal) Marks Written (20 marks) + Day to Day assessment includes extracurricular activities (5 marks) + Attendance (5 marks)
IV (Group-C)	HSC-E-413C/ (05 Credits 60 Lectures + 15 Tutorials)	Discipline Centric Elective Theory Group C.	Apparel Design & Construction	100	70	30
	HSC-E-414C/ (05 Credits 60 Lectures + 15 Tutorials)	Discipline Centric Elective Theory Group C.	Textile Industry & Garment Production Technology	100	70	30
	HSC-E/P-415C/ (05 Credits 75 Lectures)	Discipline Centric Elective Practical Group C.	Practical (13&14)	100	70	30
	HSC-D-416 (05 Credits 75 Lectures)	Dissertation/ Project		100	70	30
			Total Marks	1600	1120	480

Semester-I
Compulsory Foundation Course
Research Methodology & Statistics

Code-HSC-F-101
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours – 3

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To acquaint students with the concepts of research and statistics.
2. To develop an understanding of the nature and scope of research.
3. To develop an understanding of an appreciation for the various kinds of research as well as their aspects.
4. To apply statistical techniques to research data for analyzing and interpreting data meaningfully.
5. To develop insights into the methodological issues involved in inter disciplinary area.

Contents:-

Unit-I	<u>Research as a process of acquiring knowledge</u> Research; Meaning, scope, importance, characteristics and types of research, Techniques of Data collections: Observation, Interview, Questionnaire, Rating scale, Check list and Case study.
Unit-II	<u>Research Design</u> Selection of the problem, Review of related literature, Formulating objectives and Hypothesis, Sample and Sampling Techniques Variables and basis of selecting variables Report Writing
Unit-III	<u>Statistics : Descriptive Statistics</u> Meaning and scope of statistics in research. Tabulation and graphical representation of data

- Unit-IV **Probability:**
 Concept, Normal distribution, NPC Concept Co-relation and its types
- Unit-V **Inferential Statistics:**
 Parametric Statistics: Mean, Median, Standard Deviation of Variance, test
 Non-Parametric Statistics-chi-square test

Suggested Book

1	Best, J.W. Research in Education IV	Prentic hall of India, New Delhi. India Edition
2	Agarwal, J.C.: Education Research	An Introduction, Agra Book Depot, New York
3	Kerlinger, Fred N. 1973	Foundation of Behavioral Research, II edition, Holt Rinchart & Winston, IUC, New York.
4	Yadav, M.S. & Sib K. Mitra K Mitra (cbs) 1989	Educational Research Methodological prospective, Centre of Advanced study in Education, Ms. University of Bokaro, Baroda.
5	Bandarkar, P.L. & Wilkinson. T.S. (2000)	Methodology and Techniques of Social Research, Himalaya Publishing House, Mumbai.
6	Batanagar, G.L. (1990)	Research Methods and Measurement in and social science, Agri. Cole Publishing Academy New Delhi
7	Dooley, D (1998)	Strategies for interpretation qualitative data, Saga Publication, California
8	Edwards	Experimental Design in Psychological Research
9	S.P. Singh	Fundamentals of statistics S. Chand and Co. Ltd.
10	M.K. Gupta & D.D. Dharma	Social Research Sahitya Bhawan Agra
11	Dr. Kamlesh Mahagan & Dr. Dharmbir	Shiksa Sahitya Prakashan.
12	Dr. B.N. Gupta	Statistics Sahitya Bhagwan, Agra
13	H.K. Kapil	Research Methods, Har Prasad Bhargau (Hindi Version)
14	K.K. Kapil	Elements of Statistics (In Social Sciences) Vinod Pustak, Mandir, Agra.
15	Dr. Bipin Asthana	Prambhik Shankhki Bidhiya Binod Pustak Mandir (Hindi Version)
16	Gouri Shankar & Suresh Chandra Mathe	Social Research and Statistics, Student Friends and Company Baranashi (Hindi Version)
17.	xqlrk] ,l-ih- lkaf[;dh fof/k;k	“kkjnk iqLrd Hkou] 11 ;qfuoflZVh jksM+ bykgkcknA
18	M. Milan, James H. & Schumjacher, Sally	Research in Education A Conceptual International, II Edn. Harper Collins Publishers, USA.
19.	Research Methodology (“kks/k i)fr;kW½	MkW0 ch0 ,y0 QkfM+;k] lkfgR; Hkou ifCyds”kUI] vkxjk

Semester-I
Core Course
Resource Management

Code-HSC-C-102
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours – 3

Instruction to faculty members and Question Setter :
Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To become aware of the aspects of financial management.
2. To Develop the ability to evaluate the management efficiency in resources

Contents:-

Unit-I	<u>Home Management Process: Concept of Home management and steps</u> Management process: Planning, Organizing, Controlling and Evaluating. Decision making in family; steps and methods of resolving conflicts.
Unit-II	Housing for family and community living:- Housing an element in socio-economic developmental process. House needs and way to acquire house, planning to built a house, building materials.
Unit-III	Market & Price Definition & types of Market & Price, how to price fixed in the market.
Unit-IV	<u>Consumer Behavior</u> Understanding consumers and their wants. Guidelines for wise purchasing practices Consumer rights & Responsibilities. Consumer Laws-Role & Provisions of the act implications. Consumer protection Act 1986.

Unit-V Financial Management:- Income. Budgeting-Planning the family budget & its significance.
Concepts of Saving, Investment and taxes

Suggested Books:-

- 1 S.P. Naikand Kulsarni G.Y. (1983) Indian Economy, Vipul Prakashan, Mumbai.
- 2 Desh Pandey (1947) Modern Ideal Homes for India, United Book Corporation.
- 3 Faulkner, S (1979) Planning a House, Holt, Richard & Winson
- 4 Agan, T. The House- Its plan and use
- 5 Sethi, M. and Seethuraman, P. (1994) Consumerism A Growing Concept Phonix Publishers, New Delhi
- 6 Kulshreshtha, R.S. Financial Management, Sahitya Bhawan, Agra
- 7 Dr. Bete Gargaw Home Management, Research Pub. Jaipur, New Delhi. (Hindi Version)
- 8 Dr. Kanti Pandey Home Management, Bihar Hindi Granth, Academy (Hindi Version)
- 9 Dr. G.P. Shari House Hold Management and House Hold Art (Hindi Version)
- 10 Dr. Asha Parik & Dr. Chandrakant Mehta Home Managements (Hindi Version)
- 11 Dr. Manju Patni Home Management (Hindi Version)
- 12 Bedekar, S.J. (1991) Marketing Concept and Strategies Oxford University Press, Mumbai
- 13 Shelekar, S.A. S.J.S., Victor & K.N. Prasad Himalaya Publisher Mumbai (1994)
- 14 Verghese,M.A. Ogale N.N.& Sirnivasan, K. Home Management

Semester-I
Core Course
Applied Physiology

Code-HSC-C-103
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

APPLIED PHYSIOLOGY

1. To enable students to understand the general structure and functions of the various systems and organs in the body.
2. To gain deeper knowledge of the physiology of human body.

Contents:-

Unit-I **Cell**

Structure, function & classification

Unit-II **Digestive System:-**

Review of structure & function, secretory, Digestive and absorptive functions

Role of liver pancreas and gall bladders and their function

Unit-III **A) Circulatory system:**

Structure & function of heart and blood vessels.

Blood pressure, heart failure, hypertension

B) Blood:-

Blood Composition

Blood Clotting

Blood groups

Unit-IV **Excretory system:-**

Structure & function of kidney, Urine formation

Unit-V

A) Reproduction:-

Structure function of male and female reproductive organs
Menstrual cycle

B) Endocrine System:-

Mechanism and action of Hormones

Reference Books:-

1. Jain, A.K. Text book of Physiology. Vol- I and II
Avichol Publication Co-New Delhi.
2. ekuo "kjhj ,oa iks'k.k foKku & vk"kk dqekjh] Dykfldy ifCyf" kax] ubZ
fnYyhA
3. ekuo "kjhj ,oa fØ;k foKku & MkW0 o`Unk flag] iap" khy izdk"ku] t;iqjA
4. "kjhj fØ;k foKku] O;ogkfjd thou foKku ,oa ekuo LokLFk & ch0ds0
c["kh] vxzoky ifCyds"kuA

Semester-I
Core/Practical
Resource Management & Applied Physiology

Code-HSC-C/P-104
Credits – 5

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 marks each of 3 hours duration (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA. (Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) :

The questions of practical examination will be of equal to 70 marks and will be of 3 hours duration. Distribution of marks in practical paper of an end-semester examination will be of 60% in performance of experiment. 20% in record/note book and 20% in viva-voce.

Contents:-

Unit-I	Analysis House Plan of different income group
Unit-II	Sample Collection of Suitable furnishing materials floor covering, alpana, rangoli.
Unit-III	Sample Collection of suitable building materials.
Unit-IV	Draw the diagram of different internal physiological system with pointing out their sub parts and write their name.
Unit-V	Show the anyone internal physiological system through model and their structure & function through Power Point.

Semester-II
Skill Development Course
ADVANCE IN FOOD MICROBIOLOGY AND FOOD PRESERVATION

Code-HSC-S-205
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To gain the knowledge of role of microorganism in human
2. To understand body for regulation of metabolic pathway
3. To understand the importance of microorganism in food spoilage

Contents:-

- 1 Factors responsible for the growth microorganism in foods- Intrinsic and extrinsic parameters.
- 2 Contamination and microorganism in spoilage of different kinds of foods – Milk and milk products, cereals and pulses, vegetables and fruits, meat, fish, eggs, poultry, canned foods.
- 3 Food Preservation – Methods & impact of their nutritive value
- 4 Baking – Principles and Ingredients
- 5 Fermentation technologies
- 6 Prevention of Spoilage-Principles of common techniques applied to above mentioned groups of foods.
- 7 Food born diseases – Symptoms, cause and methods of prevention- Bacterial and viral, parasitic infestation.
- 8 Fruits and vegetables processing canning.

Reference Books:-

1. Food Microbiology – William C. Frazier, Tata Mc. Graw Hill, New Delhi.
2. Food Hygiene and sanitation – S. Roday, Tata Mc. Graw Hill Publisher. New Delhi.
3. ekuo “kjhj ,oa iks’k.k foKku & vk”kk dqekjh] Dykfldy ifCyf”kax] ubZ fnYyhA
4. M.R. Adams (M). Moss, Food Microbiology New Aga International (P) Ltd. Ublish.
5. James M. Jay, Modern Food Microbiology, Chaman & Hall in New York.
6. William, Fra Westhoff, Food Microbiology, Tata Mc. Gan Hill

Semester-II
Core Course

Human Development and Women's Related Issues

Code-HSC-C-206
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. "Best of Two" shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks" 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. Understanding the biological and psychological foundation of development.
2. Understanding the principles and factors influencing human development.
3. To be aware of issues and concerns related to situation of women with specific reference to the Indian context. Content.

Contents:-

Unit-I

Advanced Human Development:-

Meaning Principles of Human Development

Meaning, stages and Principles of Growth & Development

Importance, Scope and Historical perspective of Human Development.

Unit-II

Basis of Human Development:-

Biological and Environmental basis of Human Development

Stage of prenatal development

Influence of genetic and Environmental factors.

Unit-III

Development aspects of Infancy, Childhood and adolescence

A. Physical

Social

Motor

Emotional

Cognitive

Unit-IV

A. **Adulthood:-**

Characteristics, Development task of adulthood Social & Economical adjustment

B. **Old Age**

Characteristics, Problems related to old age (60 on words)

Unit-V Problems and issues related to women in India:-
Understanding concepts of gender difference
Child Marriage, Discrimination in nutrition & health care, Socialization of
girl child, Dowry, Violence, Women's Identity
Educational opportunities and sex based education
Employment, Women in politics, legal status of women
Family Welfare Programme.

Books Recommended :-

1. Alexander T. Paul road and Berrard Human: Development Psychology. D. Van Nosthand Co, New York, 1980.
2. Garg, Grace, J. Human Development, Prevtice HaH inc. H. Jersey.
3. K., Robert: Human Development A life span Prospective, Allyn Baleen Inc. Boston.
4. Kerwis, MD : The Psychology of Human aging theory Research of Practice, Allyen & Bacon inc. Bosteen.
5. Stewart. A.C. & Frideman S: Child Development infancy through Adolescence- Wiley International ed. 1987.
6. Vikery, F.E.: Creative Programming for older Adults, Association Press, Chicago.
7. Dr. Neeta Agarwal. Dr. A.K. Kamma Tripathi, Manav Vikas, Agarwal Publication (Hindi Version).
8. Desai. N. & Patel, V. Indian Women: Change and Challenges in the International Decade: Popular Prakashan, Bombay.
9. Antony, M.J. (1985), Women's Rights: Dialogue, New Delhi.
10. Verma, Preety & Dr. D.N. Srivastava, Bal Manovigyan Avam Vikas (Hindi Version).
11. Baker, H.A. Berheide, G.W. and Others (EDs.) (1980) Women Today: A multi disciplinary approach Women' s studies. Books/Cole Publication.
12. Baraj, J.K. & Patnaik, K. (1990) Gender Politics. New Delhi: Discovery.

Semester-II
Core Course
Textile And Clothing

Code-HSC-C-207
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To Understanding the Chemistry, Production and fundamental properties of natural and synthetic fibers.
2. To acquaint the student with some advances textile technology.
3. To familiarize with the chemical processing from designing to finishing of textiles and principle.
4. To develop sensitivity and understanding towards historic silhouettes and designs.

Contents:-

Unit-I	History, manufacturing, properties & uses of cotton, linen, rayon, wool, silk, nylon & polyester.
Unit-II	A. Yam and their manufacture B. Fabric manufacture Weaving parts and function of the handloom, types of weave- basic and decorative. Felts Non women – Knitting braiding.
Unit-III	A. Textile finishing and finishes – concept, aims and objectives and their types B. Scientific basis of dyeing and printing of textile Classification of dyes Application of dyes on various fabrics Printing – Methods of Printing
Unit-IV	Design Analysis:- Scope & importance of dress and apparel design Types of design – Structural and Decorative Elements and Principles of Design Study of line- Texture and Colour their effect and function in dress

Unit-V Design selection relation to figure, complexion occasion and fashion
Traditional Indian textiles and embroideries

Suggested Book:-

1. Shenia, V.A. (1984) – Technology of textile processing. Vol. –X Sevak Publication.
2. Mash J.T. (1979) – An introduction of Textile Finishing. B.I. Publications.
3. Lewin. M. & Sellos. Stephen. B. (1983) Vol-II Chemical process of Fiber and fabrics Functional Finishes. Part-A Marcel. Deker. Inc. Ny and Basel.
4. Armstrong – Pattern Making for Fashion design.
5. Grate and Storm concepts in clothing – Me. Grw Hill Book Co. New Delhi.
6. Natalie Bray – Dress Fitting Published by Blackwell Science Ltd.
7. Clarie Shaeffers – Fabric Sewing Guide Chilton Book Company. Radnot. Penny-Vania.
8. Subodh Kr. Agarwal (1980)- Textile Processing and Auxiliaries.
9. Textile and Fashion – Mote
10. Textile – S.P. Sukhia
11. Iswari Anwani, Lekhraj Hans – Cutting and Tailoring
12. Verma & Pandey, Vastra avm Paridhan, Hindi Granth Academy (Hindi Version).

Semester-II **Core/Practical**

Code-HSC-C/P-208
Credits – 5

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 6

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 marks each of 3 hours duration (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) :

The questions of practical examination will be of equal to 70 marks and will be of 3 hours duration. Distribution of marks in practical paper of an end-semester examination will be of 60% in performance of experiment. 20% in record/note book and 20% in viva-voce.

Human Development & Textile & Clothing

Contents:-

- | | |
|----------|--|
| Unit-I | Prepare a growth chart in different Socio-Economic background. |
| Unit-II | By interviewing find out the personal and social changes in adolescents. |
| Unit-III | Drafting and construction of following garments:- Salwar & Kurti,
Pajama & Kurta |
| Unit-IV | A. Dyeing & Printing
B. Embroideries:- Preparation of samples of different parts of India and making presentable album, patch work of Bihar and Rajasthan, appliqué work of Rajasthan, Bengal Ka Kantha, Chicken Kari of Uttar Pradesh, Kashmir Kashida, Punjab Phulkari, Karnataka Kasuti. |
| Unit-V | Survey of different dress designing Institute and textile related Institute. |

Home Science
Semester-III
Generic (Open) Elective
THERAPEUTIC NUTRITION

Code-HSC-A-309
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To enable students to understand the physiologic and metabolic anomalies of acute and chronic disease and patient needs.
2. To be able to recommended and provide appropriate nutritional care for preventive and therapeutic treatment of the various diseases.
3. To know the effect of various diseases on nutritional status and nutritional dietary requirements.

Contents:-

Unit-I	Importance of Nutrition in health and disease
Unit-II	A. Meal Planning:- Objectives and principles of diet therapy and factors to be kept in mind. B. Modified therapeutic diet:- Soft diet, liquid, bland diet. Different types of feeding pattern, nasal feeding, nerve feeding and oral feeding. High and low calorie diet, High and low protein diet, High and low fibre diet.
Unit-III	Etiopathogenesis, clinical feature and dietary management of: Cardiovascular disease – Hypertension, Hyperlipidemia, atherosclerosis. Diabetes Mellitus-Insulin dependent and non-insulin dependent. Acute and chronic liver disorder – hepatitis, cirrhosis of liver Gastro intestinal disorders-Constipation, diarrhea peptic ulcer. Renal disease Infection & AIDS Cancer Obesity

- Unit-IV Nutritional problems of old aged – Etiopathogenesis, prevention and control, nutritional requirements and dietary management to meet nutritional needs.
- Unit-V Dietary counseling – Concepts and dietary counseling in different diseases.

Reference Books:-

1. Dietetics-B. Srilakshmi. New age international publisher, New Delhi.
2. Fundamentals of food, nutritional and diet therapy- Mudami, Rajgopal
3. Food and Nutrition – Dr. M.S. Swaminathan
4. Dietetics & Therapeutic Nutrition – Star publication, Agra-2 (Hindi version)- B.D. Harplani.
5. Dietetics, Scientific Book Company Patna- (Hindi version) Dr. Pramila Verma & Dr. Kanti Pandey.

Semester-III
Core Course
Extension Education & Communication

Code-HSC-C-310
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To enable students to understand the principles and techniques to extension
2. To identify the support system development for extension education
3. To understand the concept of development examination
4. To understand the process of programme planning in extension.

Contents:-

Unit-I

Extension Teaching Methods & Aids:-

Definition and importance of teaching tools classification (according to use and according to form), Audi-Visual aid project & non-project selection teaching methods, combining of extension teaching methods. Three categories of extension teaching methods (Individual group and mass contact method) Advantages and limitation.

Unit-II

A. National Extension Systems:-

Community Development Programme: The community and the need of development, objective, scope. Principles and process of community development.

B. Support Structures and their functions:-

Panchayat, Panchayat Union and DRDA Central Social Welfare Board, State.

Unit-III

A. Programme Planning :-

Meaning and importance of Programme Planning in Extension Planning.

Criteria of a good programme planning.

B. Evaluation :-

Objectives, Values uses and benefits of evaluation, types of evaluation main steps evolved in.

C. Role of Home Science in Rural Development:-

- Unit-IV Communication: Meaning, Definition, Importance, evaluation with respect to historical and cultural perspective of development communication.
- Unit-V Media in development communication:-
Understanding the role of traditional and modern media in development communication.

Suggested Book:-

- 1 Albrechts, H.e.t.a. (1989) Rural Development series, Agricultural Extension Vol. I & U. Basis Concepts and methods, Wiley eastern limited, New Delhi
- 2 Dhama, O.P. & Bhatnagar, O.P. (1987) An Introduction, Agra Book Depot, New York
- 3 Extension Education in Development (1961) Community Education and Communication for development, Oxf and IBH Publication Co. Pvt. Ltd., New Delhi.
- 4 Narula. U. (1994) Development Communication Haranand Publications.
- 5 Dr. Paramila Verma and Dr. Kanti Pandey Extension Education Scientific Book Company Patna (Hindi Versic
- 6 Durga Prasad Sharma and Dr. Ummed Singh Krishi Prasar Ke Sidhant (Hindi Version) B.K. Prakashan, Merath.
- 7 Supe, S.V. (1982) Introduction to extension education, Oxford Publisher, New Delhi.
- 8 Supe, S.V. (1982) Introduction to extension education, Oxford Publisher, New Delhi.

Semester-III
Core Course
Food Science and Nutritional Bio-Chemistry

Code-HSC-C-311
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. Provide an understanding of composition of various food stuffs.
2. To understand the mechanism adopted by the human body for regulation of metabolic pathway.
3. Get on insight into interrelationship between various metabolism pathways.

Contents:-

Unit-I Carbohydrates – Digestion, absorption and metabolism – Glycolysis
Glycogenesis, gluconeogenesis, citric- acid cycle, pentose – phosphate pathway. BMR.

Unit-II A. Protein – Digestion absorption, metabolish-Animation, de-amination, trans-amination.

B. Lipids – Digestion, absorptions & metabolism-synthesis of unsaturated fatty acids, ketogenesis, cholesterol, phospholipids.

Unit-III A. Minerals – Biological role of mineral – Calcium, phosphorous, Magnesium, Sodium, Potassium Zinc, Iron, Iodine – Bioavailability, their deficiency disease.

B. Vitamins – Vitamin-A, Vitamin-C, Vitamin-B, Complex-Thiamine, riboflavin, niacin Biological role & bioavailability and their deficiency disease, antioxidants.

Unit-IV Enzymes: Nature & characteristics .

Unit-V Changes During Cooking

Sugar – Crystallisation of sugar stages of sugar cookery

Starch – Gelatinization and composition, Modified food starches
Protein – Meat, Fish, Eggs, Milk and Milk products, fiber and legumes, their composition, coagulation of egg protein and milk, physical and chemical properties.

Reference Book :-

1. vkgkj ,oa iks'k.k foKku & MkW0 th0 ih0 "kSjh
2. Nutritional and deities – Subhangini Johsi, Tata Mc Graw Hill, New Delhi.
3. Text Book of human nutrition ahtab S. Bamji, Oxfore and IBTT Publication, New Delhi.
4. Concept of Bio-Chemistry, Dr. A.C. Deb, Books and allied (P) Ltd. Calcutta
5. Advanced text book on food and nutrition – Dr. M. Swami Nathan.

Semester-III **Core/Practical**

Code-HSC-C/P-312
Credits – 5

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours – 6

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 marks each of 3 hours duration (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) :

The questions of practical examination will be of equal to 70 marks and will be of 3 hours duration. Distribution of marks in practical paper of an end-semester examination will be of 60% in performance of experiment. 20% in record/note book and 20% in viva-voce.

Group-A

Extension Education & Communication

Unit-I- Preparation of poster, flash card and various types of puppets.

Unit-II- Field trips with a prepared project on specific area in development of communication.

Group-B

Food Science & Nutritional Biochemistry

Unit-III- A. Crystallization of Sugar – Preparation of Sakarpara, Peanut Brittle.

B. Observation of changes in cooking pectin substances (Jam and Jellies)

Unit-IV- Physical and chemical properties changes in fat during storage and cooking

Unit-V – Chemical test for protein carbohydrate, fat and starch.

Semester-IV
Elective “Group-A”

Code-HSC-E-413A
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

INSTITUTIONAL FOOD ADMINISTRATION

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Att.<80% 2 marks: 80<Att. <85 3 marks” 85<Att. <90 4 marks: 90<Att. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To develop a knowledge base in key areas of institutional Food Administration.
2. To provide practical field level experience in institutional Food Administration.
3. To impart necessary expertise to function as a food service manager.
4. To equip individual to start their own food service unit leading to entrepreneurship.

Contents:-

- Unit-I Introduction of food service system:-
Evolution of the food service industry.
Institutional food service.
- Unit-II Organization and Management :-
Theory of organization
Organization Structure
- Unit-III Food Management :-
Menu planning and types of menu and menu card
Food selection and storage
Quantity food production.
- Unit-IV A. Personnel Management (Staff) :-
Recruitment, Orientation, Training, Performance appraisal.
- B. Financial Management :-
Determining the finance needed to establish or run an unit.
Budgets
Food cost control
Record control
Book keeping and accounting

Unit-V A. Food safety Laws and Standards

B. Quality Assurance :-

Food Quality

Total Quality Management

Suggested Books:-

1. Hichcok, M.J. (1980) - Food service system administration, Macmilan Publishing Company.
2. Kumar, H.L. (1986) - Personnel management in Hotel and catering industries, Metopolitan Book Company, New Delhi.
3. Coltman, M.M. (1977) - Food and Beverage cost control, Prentice Hall Services.
4. Brichfiled, J. (1988) - Design and layout of food service facilities, New York, Van Nortand Reinhold.
5. Mohini Sethi - Swarjeet Malhan (2nd Edition)
Catering Management, New Age International (P) Ltd. Publisher
6. Bimala Saiman & Kum Kum - Sharma - Food service management
7. Kotschwar, L.H. & Terrell, M.E. - (1977) - Food Service Planning and Layout & Equipment (3rd Edition) John Wiley & Sons, New York.

Semester-IV
Elective “Group-A”

Code-HSC-E-414A
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

PUBLIC NUTRITION AND THERAPEUTIC NUTRITION

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To develop knowledge and understanding the nutritional problems and their evaluation.
2. To know the various assessment method for assessment of health’s status.
3. To understand and consequences of nutrition problems in society.
4. To be able to recommended and provide appropriate nutritional care for preventive and therapeutic treatment of the various diseases.

Contents:-

Unit-I A	Public Nutrition – Concept, relationship between health and nutrition – role of dieticians in health care delivery.
B	Nutritional Assessment Methods – Direct & indirect Method.
Unit-II A	Nutritional status, Determinants of nutritional status of individual and community:- Nutrition and Non-nutritional indicators: Socio-Cultural, biological, environmental and economic.
B	Malnutrition – Its impact on productivity and national development.
Unit-III	Nutritional policies and programmes.
Unit-IV	Objectives and principles of diet therapy and factors to be kept in mind. Modified therapeutic diet:- Soft diet, liquid, bland diet. Different types of feeding pattern, nosal feeding, nerve feeding and oral feeding. High and low caloric diet, High and low protein diet, High and low fibre diet.

- Unit-V A Major Nutritional problems – Etiology prevalence clinical signs, preventive and therapeutic measures in protein energy mal nutrition (PEM), nutritional anemia, Rickets, Osteomalasis, Goiter.
- B Etiopathogenesis, clinic features and dietary management of:
- Cardiovascular disease – Hypertension, atherosclerosis.
- Diabetes Mellitus
- Acute and chronic liver disorder – Hepatitis, Cirrhosis of liver.
- Gastro intestinal disorders – Constipation, diarrhea peptic ulcer.
- Infection & AIDS
- Obesity.

Reference Book:-

1. Fundamentals of food, nutritional and diet therapy – Mudamsi, Rajgopal
2. iks'k.k ,oa iks'k.k Lrj & Mkw0 eaxyk dkuxks
3. vkgkj ,oa iks'k.k foKku & ,e0 LokehukFku] bankSj
4. Child nutrition – Niraja Sharma, Murari Lal & Sons, New Delhi.
5. mipkjkRed vkgkj & ch0 Mh0 gjiykuh
6. Dietetics – B. Srilakshmi. New Age International Publisher, New Delhi.
7. Food and Nutrition – Dr. M.S. Swaminathan
8. Dietetics & Therapetic Nutrition – Star Publication, Agra-2 (Hindi Version) – B.D. Harplani.
Dietetics, Scientific Book Company Patna- (Hindi Version) Dr. Pramila Verma & Dr. Kanti Pandey.

Semester-IV
Elective “Group-A”
Practical

Code-HSC-E/P-415A
Credits – 5

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours – 6

INSTITUTIONAL FOOD ADMINISTRATION

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 marks each of 3 hours duration (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) :

The questions of practical examination will be of equal to 70 marks and will be of 3 hours duration. Distribution of marks in practical paper of an end-semester examination will be of 60% in performance of experiment. 20% in record/note book and 20% in viva-voce.

- Unit-I Planning menus for quantity
 Banquet
 Outdoor catering
 Packed meals
 Restaurant
- Unit-II Institutional Food Service Survey

PUBLIC NUTRITION AND THERAPEUTIC NUTRITION

- Unit-III Assessing nutritional status of children by using anthropometric measurement and clinical methods.
- Unit-IV Planning and preparation of diet and calculation of nutrient for the patients of Cardio-vascular disease-hypertension and atherosclerosis, Diabetes Mellitus, Liver Cirrhosis, Hepatitis Gastrointestinal Problems-Diarrhea, Constipation, Peptic ulcer, Obesity.
- Unit-V Planning a day meal for deficiency disease
- a. Vitamin ‘A’ deficiency.
 - b. Calcium deficiency.
 - c. Anemia
 - d. Protein calorie malnutrition.

Semester-IV
Elective “Group A”
Dissertation/Project

Code-HSC-D-416A
Credits – 5

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours – 3

Guidelines to Examiners for :

- Mid-Semester/Internal Assessment Examination = 30 marks
- End-Semester Examination: Project model (if any) and the Project record notebook, Project presentation and viva-voce = 70 marks
(Jointly conducted by One External & One Internal Examiners)

Semester-IV
Elective “Group-B”

Code-HSC-E-413B
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

EARLY CHILDHOOD EDUCATION PARENT
COMMUNITY EDUCATION AND GUIDANCE COUNSELLING

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To understand the essential basis of early stages in the role of human development.
2. To understand certain instructional design related to preschool education.
3. To understand the parent and community education.
4. To familiarize them with the different types of Audio-visual materials and their administration in actual situation.
5. To understand the significance of Guidance and counseling.

Contents:-

Unit-I **Early Childhood Education :-**

Historical perspectives of Early childhood education.

Contribution of pastallozzi, Froebel, Rousseau, Montessori, Gandhi, Tagore, Tarabai Modak and Gijubhai.

Unit-IIA **Instructional Design of Pre-School Programme**

- 2.1 Instructional Design and Activities Related to Pre-School Programme:-
Montessori
Kinder Garden
Play Centre
Day-Care
Balwadi & Anganwadi

- 4.2 Planning Nursery School Activity for development of concepts language, Math, Science, Creative art and celebration.
- Unit-III Issues related to Early childhood Education:-
 Contributes of the Five Year Plans in Early childhood education.
 Pre-School education in India.
- Unit-IV A Parent and Community Education :-
- 4.1 Meaning, Need, principles of Parent and Community Education.
 Roles of parent in education the child.
 Participate of parents in school programmes
 Parent-Child relationship
- 4.2 Methods of parent and community education :-
- a) Parent-teacher, contacts: Home visits, school visits, sending printed materials and participation of parents in school.
- b) Use of Audio-Visual materials in Parent and Community Education poster, charts, pamphlets, folders, field trips, etc.
- Unit-IV Guidance Services :-
- A. 5.1 – Meaning, Need and Principles of Guidance
 Philosophy and aims of Guidance
 A brief discussion about area of guidance
 Education, Vocational and personal guidance
- B. Evaluation and research in guidance
- 5.2 Counseling Service:-
 Meaning, Characteristics, Principles & Scope of Counseling Service.
 Techniques of counseling-Directive, Non-directive & Elective.
 Role and training of counselor
 Play Therapy

Books Recommended :-

1. Murlidharan, R (1991) A Guide to Nursery School Teachers, N.C.E.R.T. Publications, Delhi.
2. Grewal, J.S. (1984) Early childhood education-Foundation and practice, Har Prasad Bhargava, Educational Publishers, 4/230, Kacheri Ghat, Agra-282004.
3. Read Katherine H.: The Nursery School-A Human Relationship Laboratory, Oxford & IBH Publishing Co.
4. Lawton, Joseph T: Introduction to child care and early childhood education, Scott, Foresman & Company, London.
5. Robinson : Exploring Teaching in Early Childhood Education, Allyn & Bacon Incorporation, Boston.
6. Ruth & E.marthey, Lawrence K. Frank, Robert M. Goldenson: Understanding Children's Play, Columbia University Press, New York, London.

7. Leawit J.E.: Nursery Kindergarden Education, Mc-Graw Hill Book Co. Inc. New York.
8. Dhama, O.P. & Bhatnagar, O.P: Education & Communication for Development.
9. Duerback, Aline : 'Parents learn through discussion' child study Assoc. America, 1967.
10. L. Green : Parents of Teachers, Partners or Rivals ? George Alien & Unwin Ltd., Great Britan, 1968.
11. Stearns, L. Harry : Community Relations & Public Schools in USA, 1956.
12. Kulkarni, Sudha : Parent Education – Perspectives & Approaches, Rawat Publications, Jaipur, 1988.
13. Bengalee, Mehroo, D. "Guidance and Counseling: SHETH Publishers Pvt. Ltd., Educational Publishers 296. Sopariwala estate, Tata Rd. No. 2, Opp. Central Cinema, Bombay-400 004.
14. Kochar, S.K. : Guidance & Counseling in colleges & Universities.
15. Traxler, Arthur E: Techniques of Guidance (Revised End), Harper & Brothers, Publishers, New York.
16. Jones, A.J.: Principles of Guidance and public personnel work, N.Y.Mc.-Graw Hill, Book, Co. Inc.
17. Bhargava, Mahesh : Adhunik Manovigyanik Anik Parishan Evan Mapan, Agra.
18. Chauhan, S.S. : Principles & Techniques of Guidance.
19. Crow & Crow : Introduction to Guidance
20. Jaiswal, S.R. : Guidance & Counseling.

Semester-IV
Elective “Group-B”

Code-HSC-E-414B
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

THEORIES OF HUMAN DEVELOPMENT AND EXCEPTIONAL CHILDREN

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To understand the psychological foundation of Human Development.
2. To acquaint the basic concepts and principles of major schools of learning and their application of the Human Development.
3. To understand the Psycho-Social behavior of learner.
4. To acquaint student with the concepts of Exceptional children.
5. To develop and understanding of various kinds of Exceptionality.

Contents:-

- Unit-I A. Human Development as a synthesis of disciplines : Meaning and significance of a theory.
- B. Psycho-Analytic theory : Freud
Psycho- Social Theory : Erickson’s
- Unit-II A. Learning Theory : S-R Strategies,
Behaviorism : Watson
- B. Cognitive theory : Pajet
Theories of insight : Kohler
- Unit-III Personality theories
- Trait theory : Allport
- Self theory : C.R. Rogers

Unit-IV A Exceptional Children :

Definition and significance of the term exceptional-children. Needs of Exceptional children.

Rehabilitation of Exceptional children.

- B. A brief Introduction of Physically Handicapped :-
Visual Impairment – Characteristics, special education.
Deaf and Hard of Hearing – Causes, Characteristics, Special education.

Unit-V A Intellectually Exceptional Children :-

The gifted child – Characteristics, special education.

The mentally retarded – Problems in learning & special education

- B. The Crippled child and special education :-
Juvenile delinquency – Causes & Programme.

Books Recommended :-

1. Hurlock, Elizabeth B: Development Psychology – A life span approach, 5th edition, TATA Mcgraw Hill Publishing Company Ltd., New Delhi.
2. Papalin, Diane, E. & Olds, Sally Wendkos : Human Development 5th edition, TATA Mcgraw Hill Publishing Company Ltd., New Delhi.
3. Berk, Laura E. Child Development, 3rd edition, Prentice- Hall of India Private Ltd. New Delhi-110001, 1996.
4. Hall Calvins, Lindzey Gardner : Theories of personality, 2nd ed. Willey Eastern Ltd., New Delhi.
5. Bischof, Ledferds : Interpreting Personality theories, V. Harper, New Delhi.
6. Baddwin Alfred L : Theories of Child Development, John Willey & Sons, New York.
7. Hjelle, Larry A; Personality Theories : Basic Assumptions Research & Applications, Mc-Graw International Book Company.
8. Hallahan, Daniel, P & Kauffman, James M: 'Exceptional Children – Introduction to special education. IV end. Prentice Hall, Englewood Cliffs, New Jersey-07632.
9. Gallagher, K-Educating Exceptional Children.
10. Cyril Birt : Gifted Child
11. Swanson : Exceptional Children.
12. Qnansky & Fallen : Children with special needs.

Semester-IV
Elective “Group-B”
Practical

Code-HSC-E/P-415B
Credits – 5

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours – 6

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 marks each of 3 hours duration (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) :

The questions of practical examination will be of equal to 70 marks and will be of 3 hours duration. Distribution of marks in practical paper of an end-semester examination will be of 60% in performance of experiment. 20% in record/note book and 20% in viva-voce.

Unit-I Visit to various centers which are to the Pre-school stage e.g.

Day Care Centre

Balwadi

Aanganwadi

Mobile Creche

Unit-II Planning and working with children and parents.

Unit-III Visit to various exceptional children centers and NGO.

Unit-IV Observation and participation in the laboratory nursery school planning programmes for children.

Unit-V Evaluation of their performance concept development science.

Semester-IV
Elective “Group B”
Dissertation/Project

Code-HSC-D-416B
Credits – 5

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours – 3

Guidelines to Examiners for :

- Mid-Semester/Internal Assessment Examination = 30 marks
- End-Semester Examination: Project model (if any) and the Project record notebook, Project presentation and viva-voce = 70 marks
(Jointly conducted by One External & One Internal Examiners)

Semester-IV
Elective “Group-C”

Code-HSC-E-413C
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

APPAREL DESIGN AND CONSTRUCTION

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To train girls fashion designing and dress making for self employment and for jobs in garment producing organizations.
2. To help develop skills in pattern making and construction.

Contents:-

Unit-I Dynamics of fashion :

Importance of fashions in relation to changing pattern.

Factors influencing fashion origins of fashions producers of fashions

Unit-II Design Analysis :

Structural and Decorative

A review of the principles and element of design as applied to clothing.

Study of line, texture, colour, their effects and functions in dress.

Design selection in relation to figure, complexion, climate, occasion and fashion.

- Unit-III Methods of pattern making :
- Drafting
 - Flat Pattern
 - Draping
- Unit-IV Developing paper pattern :
- Understanding the commercial paper pattern
 - Layouts on different fabrics, widths and types.
- Unit-V A. Fitting-Factors, effecting good fit common fitting problems and remedies for fitting defects :
- B. Renovation of garments by alternation in design characterizes :

Suggested Books :

1. Anderson Black. Muidge Garland-A History of fashion, orbis publishing Ltd. London.
2. Boucher Francios – A History of customs in the west Thames and Fudson.
3. Garment Technology for fashion Designers Gerg, Cockling, Block Well Science Ltd.
4. Watz B. & Morris B (1978) – The Fashion Makers, Randon House.

Semester-IV

Elective “Group-C”

Code-HSC-E-414C
Credits – 5 (60-L, 15-T)

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours - 3

TEXTILE INDUSTRY AND GARMENT PRODUCTION TECHNOLOGY

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

There will be two groups of questions in written examination of 20 marks. Group A is compulsory and will contain five questions of multiple type questions considering of 1 mark each. Group B will contain descriptive type five questions of five marks each out of which any three are to be answered. The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) : There will be two groups of questions. Group A is compulsory and will contain two questions. Question No. 1(A) will be multiple type questions consisting of six questions of 1 mark each. Question No. 1(B) will be two short answer type of 4 marks. Group B will contain descriptive type eight questions of fourteen marks each out of which any four are to be answered.

Objectives:-

1. To aim of this paper is to acquaint the student with the multifaceted profile of the textile industry of India and the latest garments/clothing manufacturing.
2. To make students aware of the importance of maintaining quality standards during productions.

Contents :-

Unit-I Business Environment of India.

Unit-II Importance of textile and clothing Industry in the Indian economy in terms of domestic consumption, employment and per capital income gross national product and international trade.

Unit-III The Organization of a garment factory :-

Principles of Management

Various Departments like – Design departments, Marketing department, purchasing department, Production department.

Unit-IV Manufacturing Technology :-

a) Cutting and cutting room

Market Planning
Efficiency, Method and use of worker plan
Methods of spreading of fabric and requirements of the spreading process.
Cutting the fabric – Objectives and method of cutting fabric.

- b) Sewing Technology
 - Sewing – Properties types
 - Stitch types
 - Sewing machines
 - Sewing thread – Types of fibre construction and finish thread size.
 - Thread package, thread costs, thread properties and scan performance.
 - Sewing problems.
 - Testing for sew ability and tailor ability.
- c) Sewing Machinery
- d) Use to components and trains
- e) Pressing technology

Unit-V Quality Control

Suggested Books:-

1. Easey, M (1995) Fashion Marketing Black Wen Science Ltd.
2. Chuter, A.J. (1995) : Introduction to clothing production Management, Black well science Ltd.
3. Gerry, Cooking – Introduction to clothing manufacture Black well science Ltd.
4. Mishra & Puri : Indian Economy, Himalaya Pub, House.
5. Journals : Clothing Business India Business Today etc.

Semester-IV
Elective “Group-C”

Code-HSC-E/P-415C
Credits – 5

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours – 6

PRACTICAL

Instruction to faculty members and Question Setter :

Mid Semester Examination (MSE):

The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 marks each of 3 hours duration (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. “Best of Two” shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Attd.<80% 2 marks: 80<Attd. <85 3 marks” 85<Attd. <90 4 marks: 90<Attd. 5 marks).

End Semester Examination (ESE) :

The questions of practical examination will be of equal to 70 marks and will be of 3 hours duration. Distribution of marks in practical paper of an end-semester examination will be of 60% in performance of experiment. 20% in record/note book and 20% in viva-voce.

1. Study of different types of sleeve, pockets and yokes.
2. Study of different shape of neck line and collars.
3. Pleats, trucks, gathers and bands- their application in dress.
4. Use of embroidery and painting in dress making.
5. Survey of textile and clothing industry and dress designing institution.

Semester-IV
Elective “Group C”
Dissertation/Project

Code-HSC-D-416C
Credits – 5

Full Marks – 100
Internal – 30 marks
End Sem. – 70 marks
Hours – 3

Guidelines to Examiners for :

- Mid-Semester/Internal Assessment Examination = 30 marks
- End-Semester Examination: Project model (if any) and the Project record notebook, Project presentation and viva-voce = 70 marks
(Jointly conducted by One External & One Internal Examiners)

Annexure-1

RESEARCH METHODOLOGY (Common for All Faculties)
M.A./M.Sc./M.Com. Courses)
Semester-IV
Paper Code: HSC-D-416

Mid Semester Examination (MSE): There will be two groups of questions in written examinations of 30 marks. Group A is compulsory and will contain ten questions of multiple type questions consisting of 1 marks each. Group B will contain descriptive type eight questions of five marks each, out of which any four are to be answered.

Broad topics of the syllabus are as under:

Introduction of Research Methodology: Meaning of Research, Objectives of Research, Research Methods.

Types of Research: Descriptive vs. Analytical Research, Applied vs. Fundamental Research, Quantitative vs. Qualitative Research, Conceptual vs. Empirical Research

Research Process: Basic Overview: Literature Review, Formulating the Research Problem, Hypothesis, Research Questions, Research Methodology.

Data Collection: Primary and Secondary Data, Sampling Method, Observation Method, Interview Method, Questionnaires, Case Study Method, Historical Method, Processing and Analysis of Data, Interpretation of Data/Results, Conclusions/Findings.

Research Writing: Synopsis, Articles/Research Paper, Research Project, Thesis, Dissertation Book, Book-Review, Case Review, Criteria of Good Research, Plagiarism

Citation Style & Methods: MLA, APA, Foot Note, Text Note, End Note, Footnotes, Biography, References

Reference Books:

- a) Best and Kahn, Research Methodology, PHI Limited
- b) Kothari, C.R. Research Methodology (Methods and Techniques), New Age Publisher.

***Dissertation/Project: Evaluation of project dissertation work may be as per the following guidelines:**

- **Mid-Semester/Internal Assessment Examination** = 30 marks (**Annexure-1**)
- **End Semester Examination:** Project model (if any) and the Project record notebook, Project presentation and viva-voce = 70 marks
(Jointly conducted by One External & One Internal Examiners)

Overall project dissertation may be evaluated under the following heads:

- Motivation for the choice of topic
- Project dissertation design
- Methodology and Content depth
- Results and Discussion
- Future Scope & References
- Participation in Internship programme with reputed organization
- Application of Research technique in Data collection
- Report Presentation
- Presentation style
- Viva-voce

Note:

(a) Each student must submit two copies of the dissertation work duly forwarded by the Head of the Department and duly signed by the supervisor concerned. The forwarded copies will be submitted to the concerned Department of University, for evaluation.

The paper will consist of

- Field work/Lab work related to the project.
- Preparation of dissertation based on the work undertaken.
- Presentation of project work in the seminar on the assigned topic & open viva there on.

(b) Each student shall have to complete a project work on any topic of his choice, but relevant to the frontier area of Science and Technology, or on a topic allotted by his/her Project Guide/Supervisor/Department in Semester -IV. This is compulsory and the candidates shall ensure that his project is on a relevant topic completed by him independently with the help and inputs from his/her guide/supervisor. Other guidelines pertaining to this paper shall be provided by the Department.

(c) Student alone or in a group of not more than five, shall undertake one Project approved by the Subject Teacher/H.O.D. of the Department/College concerned. The progress of the Project shall be monitored by the faculty members at regular intervals.

(d) Students will select topics for the project work in consultation with a teacher of the Department. The Seminar will be held in the concerned Department of University.

Format of the Dissertation/Project:

The **Dissertation/Project** shall be presented with the following specifications:

- (a) **Size of Paper:** A4. Dissertation/Project must be printed on one side of the paper.
- (b) **Font Type:** Times New Roman/Arial for English and Kruti Dev 010 for Hindi.
- (c) **Font Size:** Font size for English text is 12pt. in standard form and for Hindi is 14pt.
- (d) **Font of Chapter Headings and Sub-Headings:**
 - Chapter headings may be written in all Capitals, bold text in point size 15
 - Sub-headings are written with left margin alignment
 - First level sub-headings are written in normal sentence case using bold text in point size 14
 - Second level sub-headings are point size 13
- (e) **Spacing and Paragraphing:**
 - Printing shall be in standardised form with 1.5 line spacing
 - Leave as triple spacing (2 empty lines) in base point size 12 before and after sub-headings and one empty line after all sub-headings
 - Use one empty line between left-justified paragraphs
- (f) **Margin:** Left margin should be 4cms and right and top margin should be 2cms. Bottom margins should be 2.5cms. No ornamental bordering of sides is permitted.
- (g) **Page Numbering:** Preliminary pages of the **Dissertation/Project**, i.e. those preceding in text are to be numbered in Roman numbered. Text should be numbered in Arabic beginning with Pg No 1 on the first page of chapter 1.
- (h) Preliminary sections of the **Dissertation/Project** should include, Declaration of Attendance, Certificate from Supervisor, Declaration by Candidate and Supervisor regarding Plagiarism, Acknowledgement, Table of Contents, List of Tables, List of Figures/Diagrams, List of Abbreviations (if any) and an Abstract of the Dissertation/Project.
- (i) **Referencing and Citation Style:** Citation i.e. a way of giving credit to individuals for their creative and intellectual works that you utilised to support your research, differs by faculty in the style of ordering, punctuating and formatting of name, date, page, work etc.

The referencing of work and Citation style in the Dissertation/Project submitted in **Faculty of Science and Social Science** will be in **American Psychological Association (APA) style (6th edition)**, for **Faculty of Humanities** except for the Indian Languages, format shall be **Modern Language Association (MLA) (8th edition)** and for **Medical Science**, it shall be **Vancouver style**.

Annexure-2

Format of question paper of Mid Semester Theory Examination



Binod Bihari Mahto Koylanchal University, Dhanbad

Mid-Semester Examination XXXX (Session: XXXX-XX)

Subject/Code:

Full Marks: 20

Pass Marks: 08

Time: 1.5 Hours

General Instructions:

Candidates are required to give their answers in their own words as far as practicable.

The Questions are of equal value.

Answer any four questions of the following in which Q.1 is compulsory.

Group A

1. (A) Multiple Choice Questions (1x5=05)
- (i)
 - (ii)
 - (iii)
 - (iv)
 - (v)

Group B

(Long answer type questions)

Answer any three of the following

(5x3=15)

- 2.
- 3.
- 4.
- 5.
- 6.

Note: The Mid Semester Examination shall have three components (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each (b) Class Attendance Score of 5 marks and (c) Day to Day & Extracurricular activities of 5 marks. "Best of Two" shall be applicable for computation of marks for SIA.

(Attendance Upto 75% 1 marks: 75<Att.<80% 2 marks: 80<Att. <85 3 marks" 85<Att. <90 4 marks: 90<Att. 5 marks).

Format of question paper of End Semester Theory Examination



Binod Bihari Mahto Koylanchal University, Dhanbad

End-Semester Examination XXXX (Session: XXXX-XX)

Subject/Code:

Full Marks: 70

Pass Marks: 28

Time: 3 Hours

General Instructions:

Candidates are required to give their answers in their own words as far as practicable.

The Questions are of equal value.

Answer any five questions of the following in which Q.1 is compulsory.

Group A

1. (A) Multiple Choice Questions (1x6=06)
- (i)
- (ii)
- (iii)
- (iv)
- (v)
- (vi)
- (B) Short answer type questions (4x2=08)
- (a)
- (b)

Group B

(Long answer type questions)

Answer any four of the following

(14x4=56)

2.
3.
4.
5.
6.
7.
8.

9. **Short notes type questions** (7x2=14)
- (a)
- (b)
- (c)
- (d)

Distribution of Marks for Mid Semester Examination:

Table No. 1: Distribution of marks of Theory Examination of Mid Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A (Multiple type question) Compulsory Questions No. of Questions x Marks = F.M.	Group-B (Descriptive Questions) No. of Questions x Marks = F.M.	Total No. of Questions of Set	
							Group A	Group B
Mid Sem	T 30 HSC	30 (20+5+5)	17	1½ hrs.	5x1=5	3 (out of 5) x 5 = 15	05	05

* There shall be 20 marks theory examination for mid sem, 05 marks for attendance/ regular interactions & 05 marks for seminar/assignment/ term paper given by faculty concerned in classrooms.

Distribution of Marks for End Semester Theory Examination:

Table No. 2: Distribution of marks of Theory Examination of End Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A (Multiple type question) Compulsory Questions No. of Questions x Marks = F.M.	Group-B (Descriptive Questions) No. of Questions x Marks = F.M.	Total No. of Questions of Set	
							Group A	Group B
End Sem	T 70 HSC	70	28	3 hrs.	Q. No. 1(A) 1x6=6 Q No. 1(B) 4x2=8	4 (out of 8) x 14 = 56	02	08