the circular of Dr. Ram Manohar Lohia Avadh University, Faizabad No. लो. अ. वि./शै./3830/2002 dated 3.7.2002.

V-FEE STRUCTURE

All regular candidates of B.Sc. Home Science Part I, II & III shall pay fee in accordance with G.O. No. 1907/70-97-02 (85)/97 dated 11 Nov. 1997 of U.P. State Government.

VI-COURSE OF STUDY

The three-year B.Sc. Course in Home Science shall be spread over three academic sessions *viz.* Part I, II & III. The course of study shall be divided into three groups A, B & C in Part I, II & III each group shall carry a maximum of 200 marks. Each group contains two papers, which may or may not have practical. Students admitted to faculty of Home Science shall have to study all compulsory papers in Part I, II & III as given bellow:

MAIN COURSES B.Sc. (HOME SCIENCE) FIRST YEAR GROUP-A

Paper	Name of the Paper	page Manon	Marks	370
		Theory	Practical	Total
Paper-I	English Grammar & composition	50	- / General	50
Paper-II	Basic Sciences	90	60	150
SCALIBINE VI	Total	une emec s	SE PENSENNE	200

GROUP-B

Paper	Name of the Paper	Theory	Marks Practical	Total
Paper-III	Ecology and	60	40	100
apor III	Environment	Taria epsilol	onuside n	100
Paper-IV	Sociology and	60	40	100
O HONSTON	Psychology	Glablenso.n 1	o admissions o	MT
	Total			200

GROUP-C

Paper	Name of the Paper	no nomento	Marks	9 Prichago
		Theory	Practical	Total
Paper-V	Computer Application	60	40	100
Paper-VI	Research Methods and Statistics	60	40	100
100,000	Total	OSSIS IN EXEM	Pierr bedivers	200

200

B.Sc. : HOME SCIENCE

MAIN COURSES B.Sc. (HOME SCIENCE) SECONDYEAR GROUP-A

Paper	Name of the paper	Theory	Practical	Total
Paper-I	Extension	60	40	100
aport	management and			
	communication			
	Technology			
Paper-II	Introduction to textile	60	40	100
0.0000000	Total	perpedia o	d liezie ineitui	200
asol to be	GROU	JP-B		2 21 5 50
Paper	Name of the paper	Theory	Practical	Total
Paper-III	Human Development-I	60	40	100
Paper-IV	Resource management	60	40	100
	Total	to minora	200	100-1
	GRO	UP-C		SIGNATURE.
Paper	Name of the paper	Theory	Practical	Total
Paper-V	Principles of Nutrition	60	40	100
Paper-VI	Empowerment through	60	40	100
dought b	entrepreneurship			
	development	Service Company	Principal con	lerb.
ERON HONO	Total	Montac year		200

MAIN COURSES B.Sc. (HOME SCIENCE) THIRD YEAR GROUP-A

Paper	Name of the Paper	di agazia)	Marks	Total
		Theory	Practical	
Paper-I	Cooking and	TO-STATE OF THE	100	100
	baking			
Paper-II	Functional interiors			
apor II	and space	60	40	100
	management			
	Total			200
ASSURE ONLY	GROU	ID B		
)r-D	Marks	7/5
Paper	Name of the Paper			-
Patrello		Theory	Practical	Total
Paper-III	Human Development II	60	40	100
Paper-IV	Programme Planning	60	40	100
raper-iv	and Evaluation			
	and Evaluation			000

Total

GROUP-C

Paper	Name of the Paper	V(CH)	Marks	
	THE RESERVE OF THE STATE OF	Theory	Practical	Total
Paper-V	Clothing construction	60	40	100
	and costume			
	management			
Paper-VI	Home Science applied	60	40	100
	to community		la di la	100
	Total		What opposite	200

VII-ATTENDANCE

A student shall be deemed to have pursued a regular course of study in a subject during each year provided he/she attended at least 75% of the classes actually held in each subject of his/her examination.

VIII-EXAMINATION

- 1. The B.Sc. Home Science Part I, II & III examinations shall be conducted in the month of March/April every year by means of written papers or partly written papers and partly practicals. Examination in practical shall not preclude putting oral questions to the candidates by examiners.
- All applications to appear at examination shall be addressed to the Registrar of Dr. R.M.L. Avadh University, Faizabad through the Principal concerned and shall be presented in such time and such manner as may be notified by the Registrar of Examinations.
- 3. His/Her application form and fees shall be dispatched through the proper channel* so as to reach the Registrar of Examinations on the date to be notified for each examination. Even in the case of candidates who appear as ex-student** for any examination, the application form through the proper channel should be submitted to the Registrar of Examination.
- 4. No candidate shall be allowed to pursue in B.Sc. Home Science course as a private candidate.
- * The application forms of regular students shall be forwarded by the Principal of the college.
- ** A student having the eligibility to appear in the examination but could not appear or declared fail shall be deemed to be an exstudent.

IX-SCHEME OF EXAMINATION

Pattern of question in each paper shall be as follows:

- 1. Objective Questions: 10% of Max. Marks Approximately
- Short Questions: 30% of Max. Marks Approximately.
 Long Questions: 60% of Max. Marks Approximately.

X-ADMIT CARD

A candidate may not be admitted into examination room unless he/she produces his/her admit card to the officer conducting examination or satisfy such officer that it will be subsequently produced.

XI-DECLARATION OF RESULT

Candidates must secure the following minimum percentage of marks for passing part I, II & III of B.Sc. Home Science Examinations:

33% in theory and practical separately in each group.

A candidate securing 25% marks in any of the three groups excluding practicals not less than 33% marks in the remaining two groups shall be declared passed provided he/she secured minimum aggregate of 33% in theory only.

The Division in B.Sc. Home Science shall be declared on the basis of aggregate marks of Part I, II & III examinations as given bellow:

- 1st Division 60% 1.
- IInd Division 45% 2.
- IIIrd Division 33% 3.

NOTE:-

A candidate may appear in the back paper examination in accordance with regulations issued by Dr. RML Avadh University, Faizabad.

MAIN COURSES B.Sc. (HOME SCIENCE) FIRSTYEAR

GROUP-A			
Name of the Paper	Theory	Marks Practical	Total
English Grammar &	50	Total Control	50
composition	00	60	150
	90	00	200
Total	2	Charles .	
	,	Marks	
Name of the Paper	Theory	Practical	Total
Ecology and Environment	60	40	100
Sociology and Psychology	60	40	100
Total	elello Lea	solendance	200
GROUP-0	C	- 0000000	
Name of the Paper	rivid busi	Marks Practical	Total
Computer Application	60	40	100
Research Methods and	60	40	100
Statistics	MILLION DE	Jesteles Land	200
	English Grammar & composition Basic Sciences Total GROUP-E Name of the Paper Ecology and Environment Sociology and Psychology Total GROUP-E Name of the Paper Computer Application Research Methods and	Rame of the Paper English Grammar & 50 composition Basic Sciences 90 Total GROUP-B Name of the Paper Ecology and Environment Sociology and Psychology Total GROUP-C Name of the Paper Computer Application Research Methods and Statistics	Name of the Paper English Grammar & 50 composition Basic Sciences 90 60 Total GROUP-B Name of the Paper Ecology and Environment Sociology and Psychology Total GROUP-C Name of the Paper Computer Application Research Methods and Statistics Marks Practical Marks Practical Marks Practical 60 40 60 40 60 40 60 40

FIRST YEAR PAPER-I

COURSE TITLE : ENGLISH GRAMMER AND COMPOSITION Catalogue Description:

A course in English aiming at improving ability to comprehend, write and speak the language through the study of parts of speech, tense, articles, voice, narration, idioms and phrases, Antonym etc. Improving writing skills of students through letter writing and essay writing. Objectives:

To enable students to obtain knowledge about fundamentals of English grammer. Develop skills and techniques that are essential for precis writing, Expansion of idea, Letter and essay writing. Syllabus Theory

Marks: 50

	SECTION-A (Applied Grammar)	
S.No.	Theory Topics	
1.	Parts of Speech	
	noun-kinds, Number, Gender, Person, Case	
	II. Pronouns	
	III. Adjectives	
	IV. Verbs	
	V. Prepositions	
	VI. Conjunctions	
	VII. Interjections	
2.	Tense	
3.	Article Article	
4.	Voice	
5.	Narration	
6.	Word Power-idioms and phrases, Antonym	
	SECTION-B (Composition)	
1.	Precise writing	
2.	Punctuation	
3.	Expansion of ideas	
	SECTION-C (Letter Writing and Essay Writing)	
1. 00000	Private Letters	
2.	Business Letters	
The state of the s	Lottoro	

Reference Books:

- Allen, W. Stannard. Living English structure, Orient Langmans, London, 1962.
- Jones, Daniel, Everyman's English Pronouncing Dictionary, University book stall, New Delhi, 1993.
- Jones, Daniel, An out line of English Phonetics, Arnold, London, 1970.

4. George, H.V. common error in english learning, M/S Newbury House, London, 1970.

5. Sharma, S.D.A. Text book to spoken and written English, Vikas, Delhi, 1984.

FIRST YEAR PAPER-II

COURSETITLE: BASIC SCIENCES

Catalogue Description: An elementary study of physics, chemistry and

	nutrition science.	
	tive: To enable students to:	diseases
1.	Gain knowledge about the essentials of chemistry ar	
2.	Develop Fundamental knowledge about nutrition.	Understand
	adulteration, additive, preservation fortification and I	piochemical
	aspects of nutrition science.	
Syllabi	us Theory	Marks: 15
bressi	SECTION-A: CHEMISTRY	
S.No.		Lecture No.
1.	Elementary students of atomic structure chemical bo	ondina 1
2.	Water-Desalination of water, hard and soft water. Ha	
-	their removal, method of purification of water for drinki	
	in city, lionisation of water, lonic product of water,	
	Main concept regarding Acids and bases.	
2		
3.	Organic Chemistry: Introduction, Origin, class	
	nomenclature and purification of organic compounds	
	molecular and structural formula of organic compoun	
4.	Hydrocarbons (Elementary idea about alkanes and	alkenes &
	Alkeynes), IUPAC names of simple Hydrocarbons.	1
5.	Acids-Preparation, properties and use of acetic acid	and oxalic
	acid.	1
6.	Elementary study of essential oils.	1
7.	Soaps, shampoos, hair dye (Elementary Knowledge)	1
Syllabi		Marks: 15
	SECTION-B: PHYSICS	
S.No.	Theory Topics	Lecture No
1.	Basic Units of measurement, Domestic electricity,	distribution
•	Methods, Basic switches, plug, adopter, Socket, fuse,	
	and insulators.	2
2.	Concept and measurement of temperature and press	SECULIAR DE LA PRINCIPA DEPUE DE LA PRINCIPA DE LA
2.	of Heat and its modes of transmission. Nature of	
	basic properties only, concept of propagation, reflection	
0	polarization, Mirror and lenses.	3
3.	Basic electronics circuit elements (Resistors,	capacitors,

Inductors, Diode and transistor) Building blocks of computer Radio, T.V. (Basic knowledge).

4. Sound-Recording and reproduction of sound, Echoes, Resonance.

Syllabus

Theory SECTION-C

Marks: 60

COURSETITLE: BASIC NUTRITION SCIENCE

Catalogue Description: Composition of Foods, functions of foods, nutritional value of foods and meals, nutrients. Function and deficiency diseases.

S.No. TheoryTopics

1. Definitions- Food, Nutrition, Nutrients, Nutritional status, Optimum Nutrition, Under nutrition, dietetics.

Function of food, food groups.

 In short description of cereals, Millets, Pulses, Nuts and seed, Fruits. Vegetables, Milk and Milk products, Egg, Meat, Fish and poultry, Fats and oils. Sugar and jaggery. Spices and condiments.

4. Food Adulteration: common adulterants, food additives, Measures to overcome food adulteration, food laws.

5. Improving Nutritional quality: germination, fermentation, Supplementation, substitutions. Fortification and enrichment.

6. Food Preservation-Principles and Methods- importance of food preservation, causes of spoilage, principles of food preservation, Methods of food preservation.

7. Home scale methods of food preservation in short Drying, pickling, Jam, Jellies, bottling fruit juices or squashes, freezing.

- 8. Elementary knowledge of microbiology, microorganism and food. Food poisoning-(in short) Types of foods poisoning, salmonella food poisoning, staphylococcal food poisoning. Botulism., C.I, perfringens food poisoning, B. cereus food poisoning. Prevention and control.
- Biochemical Aspects: carbohydrates: Definition, classification and functions of
 - (a) Monosaccharides —glucose, fructose, galactose

(b) Disaccharides -- maltose, lactose, sucrose

(c) Polysaccharides - Starch, glycogen.

- Lipids: Definition and classification of lipids, types and properties
 of Fatty acids composition and characteristics of fats, types and
 functions.
- Proteins: Definition, classification, functions of proteins, Amino acids, sources.

Enzymes: Definition, types and classification of enzymes, 12. definition and types of coenzymes.

Vitamins: Fat soluble and water soluble vitamins, function, RDA, 13.

sources, Deficiency diseases.

PRACTICAL SYLLABUS

CHEMISTRY PRACTICAL MARKS: 20

SECTION-A: Practical Title

- Qualitative analysis of organic compounds (test for following 1. compound and their identification) Methanol, ethanol, acetic acid, oxalic acid, fructose and glucose.
- Estimation of available chlorine in bleaching, powder.

Acid base titration (oxalic acid-sodium hydroxide)

PHYSICS PRACTICAL MARKS: 20 SECTION-B:

S.No. Practical Title

Repairing of fuse, Iron

Formation of electrical-circuit to glow a bulb.

- Measurement of temperature, length, density, Mass, weight and
- Study of series and parallel combination of switches. 4

Ohm's law (verification and resistance determination).

BASIC NUTRITION PRACTICAL MARKS: 20 SECTION-C: S.No. Practical Title

Test of carbohydrates and proteins

Microscopic view of bacteria.

Reference Books:

- Physical and inorganic chemistry by J.K. Khanna, R.K. Baundra, R.K. Khanna
- Physical and inorganic chemistry by B.P. Bochlar, R.P. Gupta. 2.
- Organic Chemistry by R.K. Baundra and JR.K. Khanna, R.K. 3. Khanna.

Avery household equipments

- Fundamental physics- Kumar & Mittal
- Practical Physics- Kumar & Mittal.
- Practical Chemistry- High school level.

Biotechnology- R.C. Dubey.

- Conn and Stmpf. Outlines of biochemistry (iv or v edn.) 1976
- 10. Lehninger (1983) principles of Biochemistry.
- 11. Plummer Introduction to practical biochemistry
- 12. Homes, Hooper & Houghton; Instatant notes in Biochemistry.

13. Biochemistry-Harper

14. Biochemistry- A.V.S.S. Rama Rao.

FIRSTYEAR PAPER-III

Course Title- ECOLOGY AND ENVIRONMENT

Catalogue Description :- Scope of environmental sciences, environmental influences environmental principles, energy, natural resources and uses, environmental disruptives environmental ethics, management and organizations.

Objectives: - To enable students to:

Obtain knowledge about fundamentals of ecology and environmental.

Syllabus

Theory MARKS: 60 S.No. TheoryTopics Scope of environmental Sciences: Definitions, Meaning, Scope,

- Interrelationship and importance of the study of environment. 2. Environmental segments; Lithosphere, Hydrosphere, Atmosphere, Biosphere their physical structure and composition, origin and inter relationship.
- 3. Environmental and Ecological Principles; Ecological terminology and definition, ecosystem and its components (both terrestrial and aquatic) energy flow, food chain, food web, ecological pyramids and population dynamics.
- 4. Environmental Factors: Laws of minimum and Law of tolerance, environmental factors such as light, water, temperature, gases, soil and micro climate.
- 5. Biogeochemical cycles: cycling of minerals in the environment with particular reference to nitrogen, carbon, phosphorus, oxygen and sulphur.
- Environmental Descriptions:
 - A. Pollution: Tyupes sources, effects and control of air, water and soil pollution.
 - B. Biotic activities; Deforestation, grazing, burming, mining etc., and their influences in environmental and agriculture, effects of industrialization on environment.
 - Introduction to global environmental problem viz. acid rain, ozone depletion, green house gases and climatic changes.
- Natural Resources Water, Land, Forest, Mineral, wild life biodiversity etc. with particular references to natural resources on India and their current status. Biodiversity loss and its conservation.
- Energy and its Utilization Renewable and non-renewable energy sources and their utilization with special references to Indian scenario: Environmental waste management and utilization process, types, characteristics and treatments and as resources.

 Environmental management and Ethics: Basic environmental Law and policies. National and International environmental conservation bodies and organization effect of population industrialization on environment.

SYLLABUS

PRACTICAL

MARKS: 40

S.No. Practical Title

- Analysis of D.O. & B.O.D. in natural water system.
- 2. Soil texture pH and E.C. in soil system.
- Biodiversity analysis of flora & fuuna in pond water.
- 4. Quantitative enumeration of bacteria and fungi in outdoor and indoor conditions.
- 5. Biodiversity analysis in natural land system.

References:-

- 1. De. A.K. Environmental chemistry. Wiley Eastern Ltd. New Delhi.
- Odum E.P. Fundamental of biology.
- Agrawal, K.C. Environmental Biology.
- 4. Sharma, B.K. and Kaur H. Environmental Chemistry.
- 5. Dhaliwal G.S. Sangha G.S. and Rablan P.K. 1996 Fundamentals Environmental Sciences. Klyari publishers, New Delhi, p-375.

FIRST YEAR PAPER-IV

COURSE TITLE-SOCIOLOGY AND PSYCHOLOGY

Catalogue Description: Meaning and scope of Rural sociology, socio cultural setting of rural India, rural traditions, customs and folkways; Rural Institutions- Social, Economic, Political, and Religious; Rural social stratification; Rural social change with specific reference to Agricultural Innovations; social changes and impacts, Evaluation.

Objectives: To enable students to:

- Understand the fundamentals of sociology and psychology.
- 2. Introduce students to the experience of using the required tools (Psychology tests) to measure various aspects of behaviour.

Syllabus Theory MARKS: 30

SECTION-A SOCIOLOGY

S.No. TheoryTopics

- . Rural sociology: Meaning, scope, objectives and emerging trends.
- Society: Concepts of society, meaning and definition, element of society.
- 3. Planned social change
 - a. Approaches to rural planning: Improvement and transformation
 - b. Indian Rural Development programmes- Critical analysis of development programmes, particularly Integrated Rural

Development-programme and their consequences.

- Social stratification- Meaning and definition, Bases and forms of 4. social stratification.
- Social group- Meaning and definition, primary and secondary 5. groups. Importance of social groups.
- 6. Social Control- Meaning and definition, Means and agencies of social control (Family, education, customs, religious, state, law)
- Social change- Meaning and definition, factors of social change. 7.
- Social evils (a) casteism, untouchability, dowry. 8. Syllabus

Theory SECTION-B PSYCHOLOGY

MARKS:30

S.No. Theory Title

- Introduction- Definition of psychology, psychology science, its scope, branches and importance, applied psychology in home
- Main method of studying psychology. 2.
- Motivation- Definition, Concept and need, Incentive and instinct 3. types of motives-Innate and acquired.
- Personality- Concept of personality, Definition of personality, types 4. of personality, Measurement of personality importance of Heredity and environment in the development of child personality.
- Learning- Meaning, Learning and maturation, Laws of learning, factors affecting learning.
- Individual differences- Meaning, types and causes of individual 6. differences.
- Intelligence- Meaning, theories and measurement of intelligence. 7. Syllabus Practical

S.No. Practical Title

- Verbal and non verbal test. 1.
- Performance test. 2.
- 3. Ability test
- 4. Personality test.
- Seminar on any topic.

FIRST YEAR PAPER-V

Course Title - Computer Application

Catalogue Description: Introduction to personal computer, peripheral, Operating system (DOS & Windows) and high level languages. Interaction with software package (Excel, Fox Pro) and their execution for the following applications. Solution of arithmetical/logical, operation, plotting of graphs and diagrams. Simple statistic computations and data base file creation and query.

15

-

Objectives: To enable student to:

Understand the fundamental of personal computer and peripheral,

operating system.

Introduce students to the Execution of software package and data MARKS: 60 Theory base management system. Syllabus oi

Total Number of Lecture: Lecture **Theory Topic** S.No.

108

Introduction to personal computer And Peripheral

Computer History

Classification

Number System Generation

Computer Languages

Hardware

*Definition

*Classification

*CPU

"Input/Output Devices

*Storages Devices

*Definition Software

*Classification

* Examples

Operating System (DOS & Windows)
* MS Dos oi

18

"Introduction

*Booting

*Classification of Commands

"Commands Definition

"An Introduction MIS Wilndows

*Desktop Property

"Windows Events

"Windows Explorer *Startup Menu

Execution of software package:

3

MS Word

*Document

*Templates

*Table

40

16		DR. RAM MANOHAR LOHIA AVADH UNIVERSITY
		*Formatting
		*Mail Merge
		*Printing
	0.*5.90	MS Excel
		*Basic Concept of spread Sheet
		*Cell referencing
		*Formula/Function Handling
		*Data Table Management
		*Goal Seek/Scenario
		*Pivot Table/Subtotal/Sort/Filters
		*Chart (Pi/Bar/Line Etc.)
		*Printing
	*	MS Power Point
		*Presentation Concept
		*Slide Master
		*Slide View
		*Formatting
		*Transition/Animation
		*Compilation/Pack and Go
4.	Data	Base Management System 40
	*	An Introduction with Fox Pro
	*	Concept of DBMS
		*Table
		*Field
		*Records
	*	Data Base Handling
		*Creation of Table
		*Type of Field
		*Table Properties
	_	Programming with Data Base
	_	An introduction with Programming
	*	Programming Logic and Technique
	*	Simple Arithmetical/logical Operation
0	*	Data base Handling with Programming in Fox Pro.
Syllab		Practical MARKS: 40
1.	MSD	
		Working with Internal Commands.
0	MON	Working with External Commands.
2.	MSW	findows (D. H. 1/2)
		Desktop Setting (Background/Scrensaver/Appearance)
	4	Data Time Properties
		Working with files, Folders, Sub-Folder

- Creation of Folder/Sub-Folder
- Creation of Files
- Renaming of Files/Folders
- Move and Copy a File/Folder
- Setting Properties of Folder

3. MS Word

- Creating Document (Blank/Templates)
- Editing on Document
 Formatting on document
 - Font Style-Font Size/Colour/Background
 - Bullets and Numbers
 - Borders and Shading
 - Headers and Footers
 - Proofing of Document (Spelling/Grammar check)
 - Inserting Page Number, comment, Date time, Bokmark, Pictures, File and Document
- Applying Different type of views on document
- Working with Table
- Mail Merge
- Printing a Document

MS Excel

- Working with Formula
- Working with Function
 - Date/Time Functions
 - Arithmetical Functions
 - Statistical functions
 - Relational Functions
 - Logical Functions
- Formatting on Worksheet
- Working with Chart
- Working with data Table
 - Sort
 - Filter
 - Sub Total
 - Goal Seek
 - Scenario
- Pivot Table
- * Printing the Worksheet

5. MS Power Point

- Creating a presentation using
 - Blank Presentation
 - Template

- 18
- Auto Content Wizard
- Slide View
 - Compilation/Pack and Go
- Applying different view on slides
- Formatting
- Transition/Animation
 - Compilation/Pack and Go
- Data Base Management System
- Working with Data Base Table
 - Fields
 - Records
 - Data Base Handling
 - Creation of Table
 - Type of Fields
 - * Table Properties
 - Programming with Data Base

FIRSTYEAR PAPER-VI

COURSETITLE: Research methods and Statistics

Catalogue Description: Types and methods of research bibliography & literature survey, statistical analysis. Introduction to statistics, Diagrammatic and graphical representation of data. Measures of central tendency, dispersion, skewness and kurtosis. Correlation and Regression. Introduction to sampling methods.

Objectives:

To develop on understanding of research methods and techniques. 1.

MARKS: 60

To understand Basic statistics.

Syllabus Theory S.No. Theory Title

- 1. Types of research
- Methods of research-observation field and laboratory studies 2.
- 3. Bibliography and literature survey
- 4. Statistical analysis: Parametric and non-parametric techniques
- Selection of variable: dependent and independent 5.
- 6. Research reporting
- Introduction to statistics: definitions, functions, uses of limitations 7.
- Classification and tabulation of data, Qualitative and quantitative 8. Classification, Discrete and continuous variables, Frequency tables, Grouped and ungrouped data.
- Diagrammatic representation of data, Histogram, Frequency 9. polygon, Frequency curve, Ogives.

 Measures of central tendency, introduction to basic concepts of logarithms, AM, GM, H.M., Median, Mode and Merits, Demerits and uses, Relationship between AM, GM, HM, Quartiles, Deciles and percentiles.

 Measure and Dispersion: Range, Range coefficients, Inter Quartile Range, Quartile Deviation, variance, standard Deviation, coefficient

of variation.

12. Measures of skewness and kurtosis, Definitions of symmetrical distribution, skewness and kurtosis, Relationship between mean, median and mode and between quartiles of symmetrical and skewed Distributions.

13. Correlation and Linear Regression Analysis, Definition of Correlation, its types, Definition of Regression, Regression equations of Y on X and X on Y. relationship between correlation

coefficient- and regression coefficients.

14. Introduction of sampling Methods: Definition of population, Random sample, Sampling versus complete enumeration, use of random number table for selecting a simple random sample.

Syllabus Practical MARKS: 40
Practical Title

- 1. Preparation of survey report- that include different sampling methods, statistical analysis, graphical presentation etc.

 References:
- 1. D.N. Elhance- Fundamentals of statistics

2. Basic statistics by B.L. Agarwal

- 3. Mathematical statistics of Kapoor & Saxena.
- 4. Agriculture statistics by Verma & Singh.
- 5. Higher Algebra Hall and Knight
- 6. Statistical Analysis- S.P. Gupta