

GURUGRAM UNIVERSITY, GURUGRAM

(Established under Haryana Act 17 of 2017)

MASTER OF PUBLIC HEALTH

(COMMUNITY MEDICINE)

(Two Year Post Graduate Program)

(Structure & Syllabi)

Effective from the Academic Session- 2024-2026



Department of Public Health

Faculty of Life Sciences

Gurugram University

Gurugram-122018

HARYANA (INDIA)

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**Scheme and Syllabus Masters of Public Health
Semester 1**

Course ID	Course Title	Course ID	L	T	P	L	T	P	Total	MARKS													
			(Hrs.)			Credits			Credits	TI	TE	PI	PE	Total									
Core Course(s)																							
CC-A01	Community Medicine and Public Health		3		2	3		1	4	25	50	05	20	100									
CC-A02	Concept of Health and Disease		4			4			4	30	70			100									
CC-A03	General Epidemiology and Epidemiological Methods		4			4			4	30	70			100									
Discipline Specific Elective Courses (Select any one course from the following)																							
DSE-01	One from Pool of same discipline		3						3	25	50			75									
Multidisciplinary Course(s)																							
MDC-01	One from the Pool		3						3	25	50			75									
Ability Enhancement Course(s)																							
AEC-01	One from the Pool		2						2	15	35			50									
Value-added Course(s)																							
VAC-01	One from the Pool		2						2	15	35			50									
Total Credits									22					550									

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Semester 2

Course ID	Course Title	Course ID	L	T	P	L	T	P	Total Credits	MARKS				
			(Hrs.)			Credits				TI	TE	PI	P E	Total
Core Course(s)														
CC-A04	Sociology and Community Health		4			4			4	30	70			100
CC-A05	Nutrition		4			4			4	30	70			100
CC-A06	Medical and Psychiatric Social work		3		2	3		1	4	25	50	05	20	100
Discipline Specific Elective Courses (Select any one course from the following)														
DSE-01	One from Pool of same discipline		3						3	25	50			75
Multidisciplinary Course(s)														
MDC-01	One from the Pool		3						3	25	50			75
Ability Enhancement Course(s)														
AEC-01	One from the Pool		2						2	15	35			50
Value-added Course(s)														
VAC-01	One from the Pool		2						2	15	35			50
Total Credits									22					550

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Multidisciplinary Course from the Public Health department for pool of the Courses in the University
(These courses are to be offered to students of different discipline/Subject)

Semester 1

Course Code	Course Title	Course ID	L	T	P	L	T	P	Credits	MARKS				
			(Hrs)			Credits				TI	TE	PI	PE	Total
MDC-1	Genetics and Health		3			3			3	25	50			75

Semester 2

Course Code	Course Title	Course ID	L	T	P	L	T	P	Credits	MARKS				
			(Hrs)			Credits				TI	TE	PI	PE	Total
MDC-2	Health Education, Communication and Information		3			3			3	25	50			75

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Value Added Course from the department for pool of the Courses in the University

I the departments will offer value added course for the students of same or different departments.

Semester 1

Course Code	Course Title	Course ID	L	T	P	L	T	P	Credits	MARKS				
			(Hrs)			Credits				TI	TE	PI	PE	Total
VAC-1	Role of alternate medicine in public health		2			2			2	15	35			50

Skill Enhancement Course from the department for pool of the Courses in the University

(These courses are offered by each department for students of other departments/same department and is designed to provide value-based and/or skill-based knowledge and should contain both theory and lab/hands-on/training/field work.)

Semester 2

Course Code	Course Title	Course ID	L	T	P	L	T	P	Credits	MARKS				
			(Hrs)			Credits				TI	TE	PI	PE	Total
SEC-1	Computer Application		2			2			2	15	35			50

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Master of Public Health

Title

The title of the course shall be Master of Public Health (Community Medicine).

Objective

The main aim of the Master of Public Health (Community Medicine) programme is to train the persons in community and health, professionals to apply the knowledge of Community Medicine and Public Health to community, health care delivery, research and population based community health initiatives. Our ultimate purpose to train our graduates to think always in terms of Community Health, Health Promotion and Community Disease Prevention.

Duration

The total duration of the course shall be of two years, spread over in four semesters.

Nature: Budgeted

Number of Seats: 20

Eligibility: Any graduate in any stream of any recognized university in India and Abroad.

Admission Policy: As per University norms

Eligibility

Any graduate with three-year degree in any stream shall be eligible for admission to the course.

Admission Policy:

A per University norms.

Course Content

The curriculum will be divided in to two parts:

(1) Theory Papers

(2) Field Work Practicum

Field work practicum includes weekly conference as categorized below-

- 1) Individual Conference (IC)- Must be attended by student under the concern Field supervision (Teacher) every week
- 2) Group Conference (GC)- Student must attend group conference on weekly basis under the field supervision.

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Theory Paper

Evaluation Pattern

In each paper shall be of 100 marks. (Internal Assessment-30marks+ End Term-70 Marks)

In Semester IV — The Dissertation shall be of 100 marks in which 30 marks for progress report presentations an interaction with supervisor and 70 marks for final submission and viva vice.

Field Work

There shall be two types of field work

- (i) **Concurrent Field Work**
- (ii) **Block Field Work**

Concurrent Field Work will be done simultaneously with class-room teaching of theory papers from the beginning of the session up to the preparation leave before the commencement of the examination. Each student will required to go for concurrent field work for two days in a week (excluding holidays). Concurrent field work will be 100 Marks in each semester.

Block Field Work through placement in any reputed Hospitals, Medical College (Government and Private), Clinic District Hospitals, CHC, PHC and different Nursing Homes or community for six weeks after the end of Fifth semester will be organized just after the end of theory papers. The student will submit weekly report of the work done to t supervisor on his/her recommendation mark sheet/degree will be released by the Examination Section of University Gurugram. Every student will be required to pass separately in theory papers, Field Work and General Viva-Vo Examination as per Gurugram University guidelines.

Dissertation Report

Each student shall be required to submit a Dissertation on the topic (to be decided in consultation with the supervis(during the IV Semester.

Fee: As per university norms

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Detailed Syllabus

Semester — I

Community Medicine and Public Health

(Credit 4)

Unit-I

Community Medicine: Meaning, Definition, History, Goals and Objectives.

Unit-II

-Family and Community Medicine

-Social Control of Medicine

-De-professionalization of Medicine

-Failure of Medicine

Unit-III

-Public Health: Concept, Rise of Public Health in India and its current status

-Changing Concept of Public Health and delivery of Services in India

-New Horizons in Public Health

Unit-IV

-Federation of Public Health Association in India: Goal and Objectives

-Manpower Problems and Training of Health Personnel

-Population and Public Health

Books:

1. Sundar Lal, Adarsh, Pankaj, Textbook of Community Medicine (Preventive & Social Medicine), CBS Publishers, New Delhi
2. K. Park, Textbook of Preventive & Social Medicine, Banarsidas Bhanot Publishers Jabalpur India
3. Piyush Gupta, O.P. Ghai, Textbook of Preventive & Social Medicine CBS Publishers, New Delhi
4. James F. McKenzie, Robert R. Pinger, Jerome E. Kotecki, An Introduction to Community Health (Fifth edition) Jones and Bartlett Publisher, USA 2005.
5. Carol Holtz, Global Health care: Issues & Policies Jones and Bartlett Publisher, USA 2008.
6. Surendra Singh, P.D. Mishra, Health and Disease: Dynamics and Dimensions, New Royal Book Company 2000
7. Mary Jane Schneider, Introduction to Public Health, Jones and Bartlett Publisher, USA 2004
8. J. S. Mathur- A Comprehensive Textbook of Community Medicine, CBS Publisher and Distributors 2008
9. G.R. Krishnamurthy, A.K. Singh, S. K. Bajpai- Indian Health Scenario (Perspectives and Dimensions) Ser Publication.
10. Oxford's textbook of Public Health Fifth edition Vol 1,2,3
11. F. Douglas Scutchfield, C. William Keck, Principles of Public Health Practice.
12. Imrana Qadeer- Public Health in India (2011) Danish Books.
13. Piyush Gupta, O.P. Ghai, Textbook of Preventive & Social Medicine CBS Publishers, New Delhi
14. James F. McKenzie, Robert R. Pinger, Jerome E. Kotecki, An Introduction to Community Health (Fifth edition) Jones and Bartlett Publisher, USA 2005.
15. Carol Holtz, Global Health care: Issues & Policies Jones and Bartlett Publisher, USA 2008.
16. Surendra Singh, P.D. Mishra, Health and Disease: Dynamics and Dimensions, New Royal Book Company 2000
17. Mary Jane Schneider, Introduction to Public Health, Jones and Bartlett Publisher, USA 2004
18. Thomas C. Timmreck, An Introduction to Epidemiology (third edition), Jones and Bartlett Publisher, US 2002.

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Unit-I

- Evolution of Medicine (History of Medicine)
- The Dawn of Scientific Medicine
- Modern Medicine

Unit-II

- Evolution of Public and Community Health
- Definition of Health
- Relative Concepts
- Determinants and Indicators of Health

Unit-III

- Disease — Concept and Meaning
- Spectrum of Disease
- Factors responsible for Disease
- Stages and Interventions in Preventions of Diseases

Unit-IV

- Environmental Factors in Health and Disease
- Indices used in Measurement of Health
- Difficulties in Measurement of Health
- Level of Prevention

Books:

1. SundarLal, Adarsh, Pankaj, Textbook of Community Medicine (Preventive & Social Medicine), CBS Publishers, New Delhi
2. K. Park, Textbook of Preventive & Social Medicine, BanarsidasBhanot Publishers Jabalpur India
3. Piyush Gupta, O.P. Ghai, Textbook of Preventive & Social Medicine CBS Publishers, New Delhi
4. James F. Mckenzie, Robert R. Pinger, Jerome E. Kotecki, An Introduction to Community Health (Fifth editio Jones and Bartlett Publisher, USA 2005.
5. Carol Holtz, Global Health care: Issues& Policies Jones and Bartlett Publisher, USA 2008.
6. Surendra Singh, P.D. Mishra, Health and Disease: Dynamics and Dimensions, New Royal Book Company 200
7. Mary Jane Schneider, Introduction to Public Health, Jones and Bartlett Publisher, USA 2004

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Unit-I

-Epidemiological — concept and Definition, Principles Approach

Unit-II

-Methods of Epidemiology

-Descriptive

-Analytical

-Experimental

Unit-III

-Association and Causation

-Measurements of Morbidity and Mortality

-Sources of Epidemiological Data and its use in Epidemiology

Unit-IV

-Concept for Screening and its uses in Epidemiology

-Criteria for Screening

-Community Diagnosis

-Modes of Disease Transmission, Measures of Prevention and its Control

Books:

1. K. Park, Textbook of Preventive & Social Medicine, BanarsidasBhanot Publishers Jabalpur India
2. Piyush Gupta, O.P. Ghai, Textbook of Preventive & Social Medicine CBS Publishers, New Delhi
3. James F. Mckenzie, Robert R. Pinger, Jerome E. Kotecki, An Introduction to Community Health (Fifth editio Jones and Bartlett Publisher, USA 2005.
4. Carol Holtz, Global Health care: Issues& Policies Jones and Bartlett Publisher, USA 2008.
5. Surendra Singh, P.D. Mishra, Health and Disease: Dynamics and Dimensions, New Royal Book Company 20(
6. Mary Jane Schneider, Introduction to Public Health, Jones and Bartlett Publisher, USA 2004
7. Thomas C. Timmreck, An Introduction to Epidemiology (third edition), Jones and Bartlett Publisher, US 2002.

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Unit-I

- Environment: Concept and Meaning, Types and Importance
- Environmental Management — Scenario, Problems and Perspectives -Emerging Concerns and Challenges -Environmental Movement in India.

Unit-II

- Laws relating to Protection Environment
- Forest Conservation Act
- Environmental Protection Act
- Water Prevention and Control of Pollution Act
- Air (Prevention — Control of Pollution) Act

Unit-III

- Sanitation: Concept, Meaning and Scope
- Water Management-Water, safe — wholesome -Water, Water Borne Disease, Water Literacy
- Methods of Purification of Water
- Standards Analysis of Water Quality
- Solid Waste Management- Areas,
- Disposal of Wastes in Urban and Rural Areas
- Disposal of Excreta

Unit-IV

- Pollution Indicators and Prevention-Air, Water, Noise
- Radiations — Hazards and Prevention
- Meteorology — Effect on Health
- Housing Standards

Books:

1. SundarLal, Adarsh, Pankaj, Textbook of Community Medicine (Preventive & Social Medicine), CBS Publishers, New Delhi
2. K. Park, Textbook of Preventive & Social Medicine, BanarsidasBhanot Publishers Jabalpur India
3. Piyush Gupta, O.P. Ghai, Textbook of Preventive & Social Medicine CBS Publishers, New Delhi
4. Chirās- Environmental Sciences (Eight edition) Jones and Bartlett Publisher, Carol Holtz, Global Health callissues& Policies Jones and Bartlett Publisher, USA 2008.
5. Surendra Singh, P.D. Mishra, Health and Disease: Dynamics and Dimensions, New Royal Book Company
6. Etienne Dubois, Environment and health Effects, Apple Academic Press 2010
7. Cordelia Strange, Water Pollution &Health, Alpha House Publishing, New York

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Unit-I

- Genetics- Definition and concept: DNA, Chromosomes, Genome
- Genes- Hereditary Concept

Unit-II

- History of Genetics and Principles of Heredity
- Human Genetics -Sex Linkage, Crossing Over

Unit-III

- Genetic Diseases
- Genetic Testing- Concept
- Ethical Legal and Social Issues and Genetic Counseling

Unit-IV

- Genetics and Health
- Genetics and Awareness

Books:

1. Monroe W. Strickberger, Genetics (third edition) Pearson Education, 2008
2. K. Park, Textbook of Preventive & Social Medicine, BanarsidasBhanot Publishers Jabalpur India
3. Piyush Gupta, O.P. Ghai, Textbook of Preventive & Social Medicine CBS Publishers, New Delhi
4. Kenen, Stephaine- Medicine, Degeration and Eugenics (2002)
5. Sengoopta, Chandak-Darwin, Darwinism and the Modern World (2004) □Ravi Shankar- human GenetiModern approach, cyber Tech publication 2012.

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Unit-I

- Introduction to health Communication
- Definition and scope of health communication
- Theoretical foundations of health communication
- The role of health communication in public health
- Historical overview of health communication

Unit-II

- Communication and health behaviors
- The influence of media on health behaviors
- Health literacy and its impact on health outcomes
- Risk communication and crisis communication
- Interpersonal communication in healthcare settings

Unit-III

- Developing effective health communication campaigns
- Audience segmentation and targeting
- Message development and framing
- Communication channels and platforms
- Evaluation of health communication campaigns

Unit-IV

- Health communication and social determinants of health
- Health disparities and communication
- Cultural competency in health communication
- Community engagement and participatory communication

Unit-V

- Emerging trends in health communication
- Digital health communication
- Social media and health
- Health communication ethics

Books:

Health communication: Strategies, Principles and Practices by Timothy L. White and Steven R. Rogers.

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Unit-I

Introduction to AYUSH Systems of medicine and the emphasis by the central government for integrating these systems of medicine into main stream, Organizational structure of AYUSH, AYUSH components under healthcare delivery system

Unit-II

Introduction to Ayurveda System of Medicine: Importance of integrating the Ayurveda system of medicine into main stream Allopathy medicine, Role of Ayurveda in painrelief, Preparation of ayurvedic medicines, benefits and limitations of ayurvedic system of medicine.

Unit-III

Introduction to Unani System of Medicine: Importance of integrating Unani system of medicine into main stream Allopathy medicine,

Unit-IV

Introduction to Siddha System of Medicine: Importance of integrating the Siddha system of medicine into main stream Allopathy medicine.

Unit-V

Introduction to Homeopathy System of Medicine: Importance of integrating Homeopathy system of medicine into main stream Allopathy medicine: Introduction to homoeopathic repertory and organon of medicine, homoeopathy drug preparation and potentization
Naturopathy, Reiki, Yoga, Acupressure, Bee sting therapy, Salt room therapy, Massage therapy

References:

1. Fundamentals of complementary medicine by Mare Miccozi
2. Alternative medicine by Burton Goldberg
3. Organon of medicine by Dr. Samuel Hahnemann

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Semester II

Sociology and Community Health

(Credit 4)

Unit-I

- Sociology: Concept, Meaning, Nature & Scope
- Concept in Sociology relating to Health

Unit-II

- Social Institutions Family , Group and Community
- Role of Family in Community Health

UNIT-III

- Community Health Concept, Meaning and Scope
- Social Medicine
- Community Diagnosis
- Community Treatment

Unit-IV

- Clinico-Social Evaluation of the Individual: In relation to Socio-Economic and Cultural Aspects
- Attitude towards Health, Disease and Health services
- Identification of Social Factors in relation to Health and Diseases: Urbanization, Industrialization

Books:

1. David Wainwright, A Sociology of Health, Sage Publication 2008
2. SundarLal, Adarsh, Pankaj, Textbook of Community Medicine (Preventive & Social Medicine), CBS Publishers, New Delhi
3. K. Park, Textbook of Preventive & Social Medicine, BanarsidasBhanot Publishers Jabalpur India
4. Piyush Gupta, O.P. Ghai, Textbook of Preventive & Social Medicine CBS Publishers, New Delhi
5. James F. Mckenzie, Robert R. Pinger, Jerome E. Kotecki, An Introduction to Community Health (Fifth editio Jones and Bartlett Publisher, USA 2005.
6. Carol Holtz, Global Health care:Issues& Policies Jones and Bartlett Publisher, USA 2008.
7. Surendra Singh, P.D. Mishra, Health and Disease: Dynamics and Dimensions, New Royal Book Company 20(
8. Mary Jane Schneider, Introduction to Public Health, Jones and Bartlett Publisher, USA 2004
9. Social Problems (selection from Co Researcher) sage Publication 2008
10. Sandro, Galia and David Vlahov-Handbook of Urban health, Springer
11. Mukherjee-A textbook of Social Psychology, wisdom Press 2012

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Unit-I

- Nutrition: Concept and its role in Human Health -

Food Nutrition & Health

-Classification of Nutrients and its sources -

Balance Diet

UNIT-II

-Nutritional Deficiency Diseases and others Nutritional Problems

-Maternal Malnutrition

-Nutrient Deficiency Control Program

Unit-III

-Assessment of Nutrient Status

-Supplementary Feeding Program

-Dietary Management

Unit-IV

-Food Budgeting

-Food Selection, Food Storage

-Food Preservation Food Safety

Books:

1. Jane B Mrgan, John W. T. Dickson , Nutrition in early Life, Jon Wiley 2003 Camden Flath, Nutrition a Science, Alpha House Publishing, New York 2009
2. Zachary Chastian, Nutrition & Society, Alpha House Publishing, New York
3. Mukesh Mittal-Diet Nutrition and Health, Aadi publication 2011
4. K. Park, Textbook of Preventive & Social Medicine, BanarsidasBhanot Publishers Jabalpur India
5. Sundar Lal. Adarsh, Pankaj, Textbook of Community Medicine (Preventive & Social Medicine). CBS Publishers, New Delhi
6. Piyush Gupta, O.P. Ghai, Textbook of Preventive & Social Medicine CBS Publishers. New Delhi

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Medical and Psychiatric Social Work

(Credit 4)

Unit-1

Medical Social Work- Concept, principles and its scope.

Unit-II

Medical and Psychiatric Social Work: Retrospect and Prospect
– Role of Medical Social work in various medical setting

Unit-III

-Psychiatric Social Work: Concept, roles, functions and scope
-Role of Rehabilitation and Counseling Centre

Unit-IV

-Application of Psychiatric Social Work in different setting-Mental Hospital, child guidance clinic.

Books:

1. K. Park, Textbook of Preventive & Social Medicine, BanarsidasBhanot Publishers Jabalpur India Marc Berg, Health Information Management, Routledge
2. SundarLal, Adarsh, Pankaj, Textbook of Community Medicine (Preventive & Social Medicine), CBS Publishers, New Delhi
3. Piyush Gupta, O.P. Ghai, Textbook of Preventive & Social Medicine CBS Publishers, New Delhi
4. Oxford's Textbook of Public health , Fifth edition, Vol. 1,2,3
5. David Seed house: Health Promotion- Philosophy, Prejudice and Practice, John Wiley & Sons Ltd. 2006

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Unit I: Introduction to Research and Reporting Practices

Nature and Scope of Research- Conceptual Foundations; Over view of the research process; Introduction to the concepts and procedures of research in detail. Uses of research in public health, Formulation of research problems, writing research questions.

Unit II: Literature Review and Research Proposal

Review of Literature - Literature review and its importance in research; theoretical framework for reviewing the literature; linking what it is proposed to examine and what has already been studied, Writing Research Proposal – Contents of Research Proposal, Measurement Procedures, Structure of the Report, Problems and Limitations Format and contents, Rationale of Research

Unit III: Research Design

Research Design: Various approaches and Strategies - Main research approaches; Research Designs based on the nature of the problem/investigation; Techniques of data collection; Concepts of Validity and Reliability; Ethical issues implied in the research design

Sampling Methods - Need for Sampling; Sample designing process; Sampling Techniques; Non-probability versus Probability Sampling Techniques

Unit IV: Questionnaire Design and Data Collection Method

Data Collection Methods - Types of data – Primary data versus Secondary data; Methods of data collection- Survey methods (Focus Group Discussions (FGDs), Questionnaires, Personal Interview, Telephonic Survey, Electronic Media)
Measurement and Scaling - Measurement –Types of data; Criteria for good measurement; Types of Measurement Scales; Attitude and Behavioral Scales

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Unit V: Hypothesis Formulation and Testing

Hypothesis Testing - What is a hypothesis? Characteristics of a good hypothesis; Null and alternate hypothesis, level of significance, decision rules, Type 1 & Type 2 errors and one- tailed and two tailed tests; Hypothesis testing procedure; Choosing the statistical method; Types of tests; Basic tests on small and large samples; Applications based on Z-test, t-test, Chi square tests, Applications based on Non-parametric tests, ANOVA (F-Test), Multiple Regression Analysis

Unit VI: Report Writing

Research Report Writing-Basic requirements of report writing and report format; meeting the necessary assessment criteria; Citations-In-text citation and referencing, Bibliography; Impact Factor of the Journal

Reference readings:

1. Public Health Research Methods by Greg S. Guest, Emily E. Namey, 1st Edition by Sage publications (2015)
2. Handbook for Team-based Qualitative Research by Guest, Greg, and Kathleen M. MacQueen, eds. Lanham: Altamira, 2008.
3. Research methodology by Mahajan Designing and conducting health surveys. Jossey Bass Publishers

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Unit-I

- Health Education: Concept, Definition- Role and Importance
- Approaches to Health Education
- Methods of Health Education Schemes related to Health Education.

Unit-II

- Models of Health Education
- Content of Health Education
- Principles of Health Education
- Practice to Health Education

Unit-III

- Communication- Meaning, Definition, concept, Principles, models and forms
- Health education and Role of IEC
- Development of I E C Material

Unit-IV

- Health information system- Concept
- Component- Uses of Health Information system
- Sources of Health Information System
- Indian Health information System

Books:

- Goldstein D., Expanding Horizons in Medical Social Work
- Goldstein D., Readings in the Theory and Practice in Medical Social Work
- Mishra P.D., Social Work, Philosophy and Methods
- Sharon D.P., Social Work and Community Practice, Apple Academic Press 2011

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Unit-I

- Biostatistics: Definition, scope and uses
- Collection, Classification and Presentation of -Statistical Data
- Analysis and Interpretations of Data

Unit-II

- Sources and Uses of Statistics
- Test of Significance
- Sample Size Determination
- Multivariate Analysis
- Life Table

Books:

1. K. Park, Textbook of Preventive & Social Medicine, Banarsidas Bhanot Publishers Jabalpur India
2. Coroxtn and Cowden Applied General Statistics
3. Mueller and Schuessler-Statistical Reasoning in Sociology
4. Lohen, Lilian-Statistical methods for Social Science

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