

MAULAN AZAD UNIVERSITY, JODHPUR

B.Sc. PUBLIC HEALTH

CODE	PAPER NAME	T/L	Pd/W	CIA	ESE	TOTAL
BPH 101	Human Biology	T	2	20	80	100
BPH 102	Introduction to Public health	T	2	20	80	100
LAB.	Human Biology and First aid Lab	P	2	20	80	100
BPH 201	Psychology and Social Anthropology	T	2	20	80	100
BPH 202	Basic Nutrition and Food Hygiene	T	2	20	80	100
LAB.	Psychology and Social Anthropology Lab	P	2	20	80	100
BPH 301	Determinants of Health and Disease	T	2	20	80	100
BPH 302	Essentials of Demography	T	2	20	80	100
LAB.	Demography Lab	P	2	20	80	100
BPH 401	Fundamentals of Epidemiology	T	2	20	80	100
BPH 402	Biostatistics and Research Methods	T	2	20	80	100
LAB.	Epidemiology and Biostatistics Lab	P	2	20	80	100
BPH 501	Epidemiology of Communicable and non communicable diseases	T	2	20	80	100
BPH 502	Health care systems	T	2	20	80	100
LAB.	Health care system Lab	P	2	20	80	100
BPH 601	Health Education and Health Promotion and Communication	T	2	20	80	100
BPH 602	Global health	T	2	20	80	100
LAB	Field Project	P	2	40	160	200

CIA – Continuous Internal Assessment, ESE – End Semester Examination, T/L – Theory / Laboratory

MAULAN AZAD UNIVERSITY, JODHPUR

B.SC. IST SEMESTER BPH 101: HUMAN BIOLOGY

Unit I : Cell Theory / Cells, cell membrane, cell organelles.

Unit II : Applied Anatomy and Physiology of Respiratory System, Digestive System.

Unit III: Applied Anatomy and Physiology of Reproductive System, Endocrine System, Skeletal System, Nervous System.

Unit IV: Applied Anatomy and Physiology of Excretory System, Circulatory System.

Unit V : Immune system and First Aid.

SUGGESTED READINGS:

- **Human Anatomy & Physiology**, Elaine Marieb & Katja Hoehn ISBN: 0-8053-9591
- **Anatomy & Physiology**, Frederic H. Martini ISBN: 0-321-59660-9

BPH 102: INTRODUCTION TO PUBLIC HEALTH

Unit I : History, Context and Concepts of Public Health.

Unit II : Healthcare versus Medical Care, Approaches to Public Health.

Unit III: History of public health in India.

Unit IV: Different Systems of Medicine.

Unit V : Historical and Modern Perspective, Interdisciplinary nature of Public Health.

SUGGESTED READINGS:

- A Dictionary of Public Health 1st Edition by John M. Last
- Text Book of Public Health and Community Medicine, 2009. Published by the Dept of Community Medicine, AFMC Pune

LAB.-PRACTICAL

HUMAN BIOLOGY AND FIRST AID LAB.

SUGGESTED READINGS:

- First Aid and Emergency Preparedness Quick Reference Guide by American Red cross ISBN-13: 978-1584803904

MAULAN AZAD UNIVERSITY, JODHPUR

B.Sc. IIND SEMESTER

BPH 201: PSYCHOLOGY AND SOCIAL ANTHROPOLOGY

Unit I : Psychology and Public Health, concept of Mental Health, Stress, Well being and quality of life.

Unit II : Development of Psychology as a Science ,methods used in study of Psychology, Foundations of Behavior, Biological inheritance, influence of environment,

Unit III: Personality development and its effect on health, Methods of Study in cultural anthropology

Unit IV : Scope in understanding health and Disease, Social psychology in understanding health and disease

Unit V : Different Social Theories, Social Organizations, structures, Social Controls, & Methods of study in sociology, Process of social change, Community Ecology

SUGGESTED READINGS:

- Anthropology and Public Health Bridging Differences in Culture and Society Second Edition Robert A. Hahn and Marcia C. Inhorn
- Oxford Textbook of Global Public Health (6 ed.) Edited by Roger Detels, Martin Gulliford, Quarraisha Abdool Karim, and Chorh Chuan Tan Publisher: Oxford University Press,2015

BPH 202: BASIC NUTRITION AND FOOD HYGIENE

Unit I: Elements of normal nutrition: micronutrients, etc.

Unit II: Life-cycle approach to nutrition.

Unit III: Cultural and religious food patterns and beliefs and their implications for health.

Unit IV: Nutrition related to chronic communicable diseases.

Unit V: Malnutrition and obesity.

SUGGESTED READINGS:

- Food Science Nutrition and Safety ,Sukhneet Suri ,Anita Malhotra Pearson; 1 edition (1 August 2013)
- Text Book of Public Health and Community Medicine, 2009. Published by the Dept of Community Medicine, AFMC Pune

LAB. : PSYCHOLOGY AND SOCIAL ANTHROPOLOGY LAB

SUGGESTED READINGS:

Integrating Behavioral and Social Sciences with Public Health Edited by Neil Schneiderman,APA books ISBN: 978-1-55798-721-1

MAULAN AZAD UNIVERSITY, JODHPUR

B.Sc. IIIRD SEMESTER BPH 301: DETERMINANTS OF HEALTH AND DISEASE

Unit I: Basic Concepts and Definition, Disease Control and Levels of Prevention.

Unit II: Social and other types of health determinants in a public health context.

Unit III: Indicators of Health, Health situation and Trends in India.

Unit IV: Nutrition-based physiology and its relationship to health and disease.

Unit V: Gender and Equity as determinants of Health.

SUGGESTED READINGS:

- Text Book of Public Health and Community Medicine, 2009. Published by the Dept of Community Medicine, AFMC Pune
- Park's Textbook of Preventive and Social Medicine by K. Park Banarsidas Bhanot Publishers

BPH 302: ESSENTIALS OF DEMOGRAPHY

Unit I: Basic Concepts and Definition.

Unit II: Demographic structure and cycle.

Unit III: Demographic transition and trends in developing and developed regions.

Unit IV: Fertility and mortality indicators and trends.

Unit V: Population pyramid, impact of ageing.

SUGGESTED READINGS:

- Fundamentals of Demography ,P.K. Majumdar,2010
- Applied Demography and Public Health Hoque, Nazrul; McGehee, Mary A.; Bradshaw, Benjamin S.,2013

LAB. : DEMOGRAPHY LAB

SUGGESTED READINGS:

- Applied Demography and Public Health Hoque, Nazrul; McGehee, Mary A.; Bradshaw, Benjamin S.,2013

MAULAN AZAD UNIVERSITY, JODHPUR

B.Sc. IVTH SEMESTER

BPH 401: FUNDAMENTALS OF EPIDEMIOLOGY

Unit I: Introduction, Data sources for Epidemiology.

Unit II: Epidemiological concept of disease, Measures of disease frequency.

Unit III: Epidemiological methods: Descriptive Epidemiology and Analytical Epidemiology.

Unit IV: Measures of association.

Unit V: Outbreak investigation.

SUGGESTED READINGS:

- Text Book of Public Health and Community Medicine, 2009. Published by the Dept of Community Medicine, AFMC Pune
- Park's Textbook of Preventive and Social Medicine by K. Park Banarsidas Bhanot Publishers

BPH 402: BIOSTATISTICS AND RESEARCH METHODS

Unit I: Data and Data Presentation: Types of data, simple, compound, percentage, bar chart, Histogram, Frequency Polygon, Frequency curve, Normal curves, Skewed diagram.

Unit II: Numerical Description of Data: Measures of central tendency, Mean Median, Mode, Geometric mean, Harmonic mean, Measures of dispersion: range, Mean Deviation, Standard Deviation, quartile deviation, Co-efficient of variation, Standard Error

Unit III: Scientific research: Nature and Scope, Basic Principles of scientific research, Steps involved in a scientific study/ investigation, Formulation of Hypothesis, sources, qualities of a workable hypothesis.

Unit IV: Sample, sampling methods, estimation of sample size, non parametric tests, Basic Principles of sample survey

Unit V: Biases in sampling, Data collection tools.

SUGGESTED READINGS:

- Text Book of Public Health and Community Medicine, 2009. Published by the Dept of Community Medicine, AFMC Pune
- Park's Textbook of Preventive and Social Medicine by K. Park Banarsidas Bhanot Publishers

LAB. : EPIDEMIOLOGY AND BIOSTATISTICS LAB

SUGGESTED READINGS:

Health Science Research: A Handbook of Quantitative Methods, Jennifer Peat, Craig Mellis

MAULAN AZAD UNIVERSITY, JODHPUR

B.Sc. VTH SEMESTER

BPH 501: EPIDEMIOLOGY OF COMMUNICABLE AND NON COMMUNICABLE DISEASES

Unit I: Communicable Diseases: Concepts and Principles, Prevention and Control : Vector born diseases, Leprosy, Influenza,

Unit II: Concepts and Principles, Prevention and Control TB, water borne disease , AIDS and others STD.

Unit III: Non-Communicable Diseases: Concepts and Principles, Prevention and Control :Cardiovascular diseases, Stroke, Hypertension, Diabetes.

Unit IV: Concepts and Principles, Prevention and Control: Cancer, obesity and accidents, blindness.

Unit V: National health programs.

SUGGESTED READINGS:

- Text Book of Public Health and Community Medicine, 2009. Published by the Dept of Community Medicine, AFMC Pune
- Park's Textbook of Preventive and Social Medicine by K. Park Banarsidas Bhanot Publishers

BPH 502: HEALTH CARE SYSTEMS

Unit I: Introduction and history of Healthcare systems.

Unit II: Systems and Indices.

Unit III: Organization and Structure in the Indian context.

Unit IV: Concept of Primary Healthcare.

Unit V: Regionalization of care, Comparison of world systems of healthcare.

SUGGESTED READINGS:

- Text Book of Public Health and Community Medicine, 2009. Published by the Dept of Community Medicine, AFMC Pune
- Park's Textbook of Preventive and Social Medicine by K. Park Banarsidas Bhanot Publishers

LAB.: HEALTH CARE SYSTEM LAB

SUGGESTED READINGS:

- Comparative Health Systems: Global Perspectives, James A. Johnson, Carleen Stoskopf, 2011

MAULAN AZAD UNIVERSITY, JODHPUR

B.Sc. VITH SEMESTER

BPH 601: Health Education and Health Promotion and Communication

Unit I: Introduction to health education: Definition, concept, goals and objective of health education, role of health educator.

Unit II: Introduction to health promotion : Definition, concept and charters of health promotion.

Unit III: Theories of Health Behaviour : Stages of Change Model ,Social learning/social cognitive theory, Health Belief Model, Diffusion of Innovations Theory.

Unit IV: Methods and Approaches to health education: IEC, Individual and group approach-Medical or Preventive, Behaviour Change, Educational, Empowerment, Social Change; Mass media, Social marketing.

Unit V: Workplace health promotion: Concept and guidelines, key elements of a workplace.

SUGGESTED READINGS:

- Text Book of Public Health and Community Medicine, 2009. Published by the Dept of Community Medicine, AFMC Pune
- Park's Textbook of Preventive and Social Medicine by K. Park Banarsidas Bhanot Publishers

BPH 602: GLOBAL HEALTH

Unit I: Disease patterns around the world, Regions of the world according to WHO and their overall health status, effect of climate, politics and society on health.

Unit II: International health agencies, activities & other actors.

Unit III: Nutrition and global health, Water & sanitation.

Unit IV: Disease control priorities in low income countries, Global Health and Ethics.

Unit V: Maternal and child health, Technology and Global Health.

SUGGESTED READINGS:

- Global Health: An Introductory Textbook by Hans Rosling ,Studentlitteratur AB2006ISBN-13: 978-9144021980

LAB.: FIELD PROJECT

Fieldwork is among the most crucial components of the Public Health curriculum. Fieldwork placements are designed to be practical experiences that provide students with an opportunity to apply the concepts, techniques, and theories learned in the classroom to real life experiences working in the field. The field project is determined according to both the students interest and an agency's/organization's willingness. These experiences are intended to give the student an opportunity to observe, learn, and participate in the various activities of health agencies. At the end of session student is required to submit a detailed field project report of work done.