



# OPJS UNIVERSITY

*Progress Through Knowledge*

## SYLLABUS

### MASTER OF PUBLIC HEALTH

**SESSION 2013 - 2015**

#### **First year**

<b>code</b>	<b>Subjects</b>
Mph11	Epidemiology
Mph12	Biostatistics
Mph13	Social and Behavioral Aspects of Public Health
Mph14	Ethics in Public Health
Mph15	International Nutrition

#### **Second year**

<b>code</b>	<b>Subjects</b>
Mph21	Environmental Health & Sustainable Development
Mph22	Research Methodology
Mph23	Health system & polices in public health
Mph24	Health economic & health care financing
Mph25	Health program management

## **MPH11: Epidemiology**

- ❖ Recent development in epidemiology
- ❖ Definition, scope and use of epidemiology
- ❖ Epidemiology and public health
- ❖ Achievement in epidemiology
- ❖ Measuring health and disease
- ❖ Measuring disease frequency
- ❖ Death rates
- ❖ Observation epidemiology
- ❖ Experimental epidemiology
- ❖ Potential errors in epidemiological studies
- ❖ Causation in epidemiology
- ❖ Communicable diseases
- ❖ Clinical epidemiology

## **MPH12: Bio statistics**

- ❖ Principle of biostatistics
- ❖ Properties of measurement
- ❖ Measuring reliability and validity
- ❖ Sampling
- ❖ Source of data
- ❖ Population
- ❖ Strategies for understanding the measure of data
- ❖ Descriptive statistics measure of central tendency
- ❖ The coefficient of variation (C,V)
- ❖ Conditional probability
- ❖ Marginal probability
- ❖ Using sample data to make estimates about population

## **MPH13: Social and Behavioral Aspects of Public Health**

- ❖ Difference between sex and gender.

- ❖ Mechanisms that relate gender to wellness and illness.
- ❖ health in a cultural perspective
- ❖ Race and Ethnicity
- ❖ Poverty
- ❖ Social Support, and Social Capital
- ❖ Role of Families
- ❖ Rational Decision Making
- ❖ Spirituality
- ❖ Change Within Systems

### **MPH14: Ethics in Public Health.**

- ❖ Tradition and profession and values in public health
- ❖ Research ethics in public health
- ❖ Special ethics concerns
- ❖ Public health research and practice in international settings
- ❖ Community base practice
- ❖ Ethics and infections disease control
- ❖ Public health genetics
- ❖ Public health and health system reform

## **MPH15: International Nutrition**

- ❖ Presents major nutritional problems that influence the health, survival,
- ❖ Developmental capacity of populations in developing societies.
- ❖ World declaration on the survival, protection and development of children.
- ❖ Millennium development Goals ( MDGs)
- ❖ Under nutrition
- ❖ Community, national, and international levels to improve nutritional status.
- ❖ Full economic development through targeted public and private sector interventions that address the causes of malnutrition.
- ❖ Breast and complementary feeding
- ❖ Community based Nutrition interventions
- ❖ Nutrition and HIV infection
- ❖ The Nutrition Transition

## **MPH21: Environmental Health and sustainable development**

- ❖ Human impact on the environment

- ❖ Environment-human interaction
- ❖ Environmental impact on humans
- ❖ Exposure, dose, response
- ❖ Environmental toxicology
- ❖ Environmental carcinogenesis
- ❖ Risk assessment and management
- ❖ Indoor and outdoor air pollution
- ❖ Environmental health economics and policy
- ❖ Occupational health
- ❖ Food- and water-borne disease
- ❖ Municipal, industrial, and hazardous waste
- ❖ Environmental justice and policy
- ❖ Risk communication

## **MPH22: Research Methodology**

- ❖ Definition of Research
- ❖ Motivation in Research
- ❖ Types of Research

- ❖ Significance of Research
- ❖ Research and scientific method
- ❖ Research process
- ❖ Criteria of a Good Research
- ❖ Problems encountered by researchers in India

### **MPH23: Health system & policies in public Health**

- ❖ Policy making process , with historical,Ethical,legal.
- ❖ Basic model and function of health service
- ❖ International health
- ❖ Persistent and wide spread issues in providing health service
- ❖ Standard framework for policy analysis

### **MPH24:Health Economic and health care financing**

- ❖ Basic economics tools
- ❖ Microeconomics tools for health economic
- ❖ Statistical tools for health Economics

- ❖ Supply and demand
- ❖ Production of health
- ❖ Demand for health capital
- ❖ Demand and supply of health insurance
- ❖ The organization of health insurance market
- ❖ Key players in the health care sector
- ❖ Hospital and long - term care
- ❖ Government intervention in health care
- ❖ Government regulation principle regulatory mechanism
- ❖ Social insurance
- ❖ Health system reform
- ❖ Epidemiology and economics

## **MPH25:Health program management**

- ❖ principles in practice of health management
- ❖ Health development
- ❖ Health care as system
- ❖ Public health service



- ❖ Quality of health care management
- ❖ Management cycle from planning to evaluation
- ❖ Health needs concepts
- ❖ Health organization and strategies intent
- ❖ Health policy analysis tools for planning and evaluation of public health intervention.

OPJS University

Churu - Rajasthan India