

DEPARTMENT OF PUBLIC HEALTH

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INTRODUCTION

The Faculty of Allied Health Sciences under Sri Devaraj Urs Academy of Higher Education & Research offers Masters of Public Health programme. This two year postgraduate programme is interdisciplinary in nature and comprises of class room based teaching, field work, health survey, dissertation, laboratory based teaching, computer based learning and internship.

What is public health?

Unlike Medicine which is mainly concerned with treatment of disease in sick individuals, Public health is the art and science of preventing disease, promoting health and maintaining health of population. The health of people is not only determined on health care services but also on human behavior, nutrition, physical and biological environment, social and economic conditions, genes, etc. Hence the science of public health is interdisciplinary in nature and involves the study of various disciplines such as epidemiology, biostatistics, demography, medicine, microbiology, nutrition, biochemistry, genetics, social and behavioral sciences and management sciences.

Public Health personnel typically are involved in assessing the health status of population and in planning, implementation and monitoring of programmes to improve the people's health. They study disease epidemics and take measure to control them. They work at administrative and managerial levels in health organizations of Government, Private, NGO's and International agencies like WHO, UNICEF, etc. They are also employed in health research agencies and in academic institutions of public health.

VISION, MISSION & OBJECTIVES

Goal of M.P.H programme

To prepare professionals in the field of Public Health who can plan, monitor, implement and evaluate need based health care services to the community which is based on sound scientific principles. The public health professional should be able to manage health systems and health programmes in public, private and voluntary sectors and in International agencies.

Objectives of M.P.H programme

To prepare public health professionals who

- Will be able to understand the multiple determinants of health including social and cultural determinants

- Will be able make a community diagnosis of health problems and plan and implement strategies to mitigate these problems
- Will be able to apply the knowledge and skills of management to health care programmes
- Can contribute to health policy development and to evaluate its impact on community health
- Will be able to develop leadership qualities necessary for public health administration
- Will be able to effectively educate communities on health problems and evaluate such activities
- Will be able to undertake health research and be able to use the health data in planning, monitoring and evaluating health care services
- Will be able to teach the principles and practice of public health discipline to health care personnel in the academic and service sector

THRUST AREAS

- Applied epidemiology
- Health care of the underprivileged communities

HEADS OF DEPARTMENT

Co-ordinator:

Dr.Ranganath.B.G,

Professor in Community Medicine

Sept 2014 to till date

FACULTY

- 1. Dr.Ranganath.B.G, MBBS, MD, Professor**
- 2. Dr. Vijayashree, MBBS, MPH, (PhD), Associate Professor**
- 3. Dr. Mahesh K, BDS, MPH, Asst. Professor**
- 4. Dr. Narayanswamy, MBBS, DPH, Senior Resident**

FACILITIES

The following facilities are provided for conducting the MPH course

Class rooms

The institute has fully equipped class rooms for modern learning.

Public Health Laboratory Facility

The laboratory for teaching and training purpose have been fully equipped to perform

- Biochemical tests, microbiology and pathology examinations of body samples.
- Nutritional assessment of food samples including food contamination testing.
- Testing of drinking water samples for quality.

Field Training Centres

Three rural primary health centres and one urban health centre is attached to the institute for teaching and training purpose during term and internship.

Hospital

RL Jalappa is an 850 bedded state of the art multispecialty referral hospital for patient care and diagnostic laboratory services.

Computer and Internet facilities

The institute is fully equipped with computer and broad band internet facilities for teaching and learning purpose.

Library facilities

The institute has a well equipped library facility with books and journals in all the branches relevant to public health. E-learning facilities are available. Students can also use the medical college and nursing college library facilities for referral purposes

Transport facilities

The institute has transport facility to visit centres and places of importance to understand public health

TEACHING & EVALUATION

MPH course is a two year full time interdisciplinary study programme. There will be four teaching Semesters of six months duration each. Internal assessment for each subject in theory and practical shall be conducted formative assessment. An end semester University examination will be conducted for each subject. Teaching is both theory and practical based and the medium of instruction is in English

Internship

There will be rotating internship at the health care institutions of the university, Government health organizations and non-governmental organizations (NGOs). Internship will be both at the rural and urban areas.

Thesis and Research

MPH students are required to complete a dissertation project. This research project is an ongoing process during the student's academic program under the fourth semester. The research project may be descriptive research, investigative research, public health policy development or a program

evaluation. The project must have an analytic component, which may be qualitative as well as quantitative. The project must also have utility, with some application for public health action.

The research project involves a smaller scale of data management activities than a typical MD/MS or PhD thesis. Students may use existing datasets or develop their own from small population samples. Datasets are usually available from the faculty of Medicine and Allied Health Sciences of Sri Devaraj Urs University who conduct research. Datasets are also available from the District health administration on various health programmes although they might not be rigorous enough for research.

Examination pattern of Semester - I

Paper	Section	Subject	Marks	Total Marks
Paper - 1	A	Public Health Concepts	50	100
	B	Basic Human Biology	50	
Paper - 2	A	Demography	50	100
	B	Basic Sociology	50	
Paper - 3	A	General Epidemiology	50	100
	B	Basic Biostatistics - I	50	

SYLLABUS FOR MPH

Semester- I Subjects	
MPH 1.1	Public Health concepts
MPH 1.2	Basic Human Biology
MPH 1.3	Demography
MPH 1.4	Basic Sociology
MPH 1.5	General Epidemiology
MPH 1.6	Basic Biostatistics

Semester – II Subjects	
MPH 2.1	Basic Public Health Microbiology
MPH 2.2	Environmental Health
MPH 2.3	Public Health Nutrition
MPH 2.4	Research methodology and Ethics in research
MPH 2.5	Advanced Biostatistics- II
MPH 2.6	Infectious diseases – Epidemiology, Prevention and Control
MPH 2.7	Non communicable diseases – Epidemiology, Prevention and Control
MPH 2.8	Internship

Semester – III Subjects	
MPH 3.1	Health Promotion and Education
MPH 3.2	Women and Gender, Health and Human Right
MPH 3.3	Health care of women and children
MPH 3.4	Public Health Laws and Regulations, Ethics in Public Health
MPH 3.5	National Health System and Programmes
MPH 3.6	Occupational Health
MPH 3.7	Project Work

Semester – IV Subjects	
MPH 4.1	Advanced Epidemiology
MPH 4.2	Health Planning and Management
MPH 4.3	Public Health policy and Governance in Health, Entrepreneurship in Health
MPH 4.4	Health economics and Financing
MPH 4.5	International Health
MPH 4.6	Health care of Elderly and Marginalised Community
MPH 4.7	Internship
MPH 4.8	Project Work

Explanatory note on Semester - I Courses:

There are five main courses:

- **MPH 1.1 Introduction to public health Concepts:**
This course has classroom based teaching (MPH 1.11 Introduction to public health concepts and issues) and is supported with field based learning. The field based courses aim at introducing students to the organizational structure and the functions of the public health system (MPH 1.12).
Course MPH 1.13 is aimed at providing students with an understanding of community demographics, socio-economic status, types and distribution of diseases and disorders in a community and a community perspective of the factors determining utilization of health services.
- **MPH 1.2 Human Biology**
is aimed at providing knowledge on the functioning of the human body and the human life cycle.
- **MPH 1.3 Demography**
an introductory course to population sciences.
- **MPH 1.4 and MPH 1.5 Epidemiology and Basic Biostatistics**
courses will use the field data (MPH 1.12 and MPH 1.13) to provide hands on experience on various methods for analysis, presentation and interpretation of health data. Biostatistics course includes computer-based work which will provide students the opportunity to use various epidemiological soft wares.
- **Internship:**
For Course MPH 1.12, 4 days assignment at PHC/Urban health facility.
For Course MPH 1.13, 4 days of Urban and Rural Internship.

MPH 1.1 Introduction to Public Health Concepts

MPH 1.11 Public Health Concepts

- **Course Objective**
 - To understand the Concepts of Health and Disease
 - To understand the Determinants and Indicators of health
 - To understand the Health Status – Global and at Country level
- **Course**
 - Health: Health and its Determinants
 - Disease and its concepts
 - Diseases of public health importance; Disease control measures
 - Prevention: Levels of prevention

- Health Indicators
- Health Status: Global and India; Developed and Developing Countries
- Issues in Public Health

MPH 1.12 Health care organizations: Public health systems

- **Course Objective**
 - To understand the Health Care Systems and Organizations available in the Country
 - To understand the functional Organization of the Public Health system from District to Village level in the Country
- **Course**
 - The roles of the Public, Private and NGO sectors in Health care
 - The multiple Systems of Medicine in the Country
 - Organization of the Public Health Services and its functions
 - Primary Health Care, National Health Programmes

MPH 1.13 Utilization of Health Care

- **Course objective**
To understand the factors relating to Utilization of Health Care Services and Systems
- **Course :**
 - Sources of Data, Community perceptions in Health and Disease
 - Study, Analysis and submission of Report on factors determining Utilization / Barriers to Utilization of Rural or Urban Public Health Services, Private Health Services and Traditional systems of Medicine.
 - Data collection so as to provide an insight into community demographics, socio-economic status, types and distribution of diseases and disorders in a community.

MPH 1.2 Human Biology

- **Course Objective**
To understand the Structure and Function of the Human Body
- **Course**
 - Human Life Cycle: Growth and Development, Sexuality and Conception
 - Structure and Function of Organs and Systems: Cardiovascular, Respiratory, Digestive, Musculo-skeletal, Nervous, Renal, Endocrine, Reproductive & Skin

MPH 1.3 Demography

- **Course Objective**
To become familiar with the fundamental of population sciences and its association with various factors
- **Course**
 - Methods of demographic data collection

- Sources of data
- Population composition
- Fertility
- Mortality
- Migration
- Population growth, problems, projections
- Life table
- Population policy

MPH 1.4 Epidemiology (5)

MPH 1.41 Fundamentals of Epidemiology

- **Course Objectives**

To become familiar with the Concepts and Uses of Epidemiology, Methods to measure and describe Health of populations and Risk measurement

- **Course**

- Historical aspects, Definition, Aim and Uses
- Descriptive Epidemiology
- Determinants of Disease, Natural history of Disease
- Epidemiological Principles in Prevention and Control of Disease
- Risk measurement, Measurement of Morbidity and Mortality: Incidence, Prevalence, Age-adjustment and Survival Analysis, use of Morbidity and Mortality Indices in Epidemiological studies.

MPH 1.42 Epidemiologic Methods

- **Course Objectives:**

To equip students with the tools and strategies of Epidemiological investigation.

- **Course**

1. Epidemiological Study Designs
2. Bias and Confounding
3. Causal Association
4. Screening tests
5. Surveillance
6. Outbreak investigation

MPH 1.5 Basic Biostatistics

MPH 1.51 Principles of Biostatistics

- **Course Objective**

To introduce students to the use of Bio-statistics

- To present and interpret data

- **Course**

- Levels of measurement

- Measures of central tendency, Measures of variability
- Probability and Normal Distribution
- Sampling methods
- Data entry, analysis, presentation
- Confidence Intervals
- Test of Significance
- Nonparametric tests
- Association and Causation
- Analysis of Variance
- Computer based Practicals - Data entry, summary data presentation, Data analysis, Use of Statistical Software

TEACHING SCHEDULE FOR MPH

Teaching Schedule, Aug 2014

Day	Dates & Subject; Time: 4.00-5.30 pm				
Mon		4/8 Public Health	11/8 Public Health	18/8 Public Health	25/8 Public Health
Tue		5/8 Human Biology	12/8 Human Biology	19/8 Human Biology	26/8 Human Biology
Wed		6/8 Public Health	13/8 Public Health	20/8 Public Health	27/8 Public Health
Thu		7/8 Biostatistics	14/8 Biostatistics	21/8 Biostatistics	28/8 Biostatistics
Fri	1/8 Public Health	8/8 Public Health	15/8 -----	22/8 Public Health	29/8 -----
Sat	2/8 Social Science	9/8 -----	16/8 Social Science	23/8 Social Science	30/8 Social Science

Teaching Schedule, Sept 2014

Day	Dates & Subject; Time: 4.00-5.30 pm				
Mon	1/9 Public Health	8/9 Public Health	15/9 Public Health	22/9 Public Health	29/9 Public Health
Tue	2/9 Human Biology	9/9 Human Biology	16/9 Human Biology	23/9 Human Biology	30/9 Human Biology
Wed	3/9 Public Health	10/9 Public Health	17/9 Public Health	24/9 -----	

Thu	4/9 Biostatistics	11/9 Biostatistics	18/9 Biostatistics	25/9 Biostatistics	
Fri	5/9 Public Health	12/9 Public Health	19/9 Public Health	26/9 Public Health	
Sat	6/9 Social Science	-----	20/9 Social Science	27/9 Social Science	

Teaching Schedule, Oct 2014

Day	Dates & Subject; Time: 4.00-5.30 pm				
Mon		6/10 Public Health	13/10 Public Health	20/10 Public Health	27/10 Epidemiology
Tue		7/10 Human Biology	14/10 Human Biology	21/10 Human Biology	28/10 Human Biology
Wed	1/10 Public Health	8/10 Public Health	15/10 Public Health	22/10 -----	29/10 Epidemiology
Thu	1/10 -----	9/10 Biostatistics	16/10 Biostatistics	23/10 Biostatistics	30/10
Fri	3/10 -----	10/10 Public Health	17/10 Public Health	24/10 -----	31/10 Epidemiology
Sat	4/10 -----	11/10 -----	18/10 Social Science	25/10 Social Science	

Teaching Schedule, Nov 2014

Day	Dates & Subjects; Time: 4.00-5.30 pm				
Mon		3/11 Epidemiology	10/11 Epidemiology	17/11 Epidemiology	24/11 Epidemiology
Tue		4/11 Human Biology	11/11 Human Biology	18/11 Human Biology	25/11 Human Biology
Wed		5/11 Epidemiology	12/11 Epidemiology	19/11 Epidemiology	26/11 Epidemiology
Thu		6/11	13/11	20/11	27/11

		Biostatistics	Biostatistics	Biostatistics	Biostatistics
Fri		7/11 Epidemiology	14/11 Epidemiology	21/11 Epidemiology	28/11 Epidemiology
Sat	1/11 -----	8/11 -----	15/11 Social Science	22/11 Social Science	29/11 Social Science

Teaching Schedule, Dec 2014

Day	Dates & Subject; Time: 4.00-5.30 pm				
Mon	1/12 Epidemiology	8/12 Epidemiology	15/12 Epidemiology	22/12 Epidemiology	29/12 Demography
Tue	2/12 Human Biology	9/12 Human Biology	16/12 Human Biology	23/12 Human Biology	30/12 Human Biology
Wed	3/12 Epidemiology	10/12 Epidemiology	17/12 Epidemiology	24/12 Epidemiology	31/12 Demography
Thu	4/12 Biostatistics	11/12 Demography	18/12 Demography	25/12 -----	
Fri	5/12 Epidemiology	12/12 Epidemiology	19/12 Epidemiology	26/12 Demography	
Sat	6/12 Social Science	13/12 -----	20/12 Social Science	27/12 Social Science	

Teaching Schedule, Jan 2015

Day	Dates & Subject; Time: 4.00-5.30 pm				
Mon		5/1 Demography	12/1 Examinations	19/1 Examinations	26/1
Tue		6/1 Demography	13/1 Examinations	20/1 Examinations	27/1
Wed		7/1 Demography	14/1 Examinations	21/1 Examinations	28/1
Thu	1/1	8/1	15/1	22/1	29/1

	Demography	Demography	Examinations	Examinations	
Fri	2/1 Demography	9/1 Demography	16/1 Examinations	23/1 Examinations	30/1
Sat	3/1 Social Science	10/1 -----	17/1 Examinations	24/1 Examinations	31/1

Practical Teaching Schedule, Jan 2015

Date	9 AM to 12 PM	2 PM to 4 PM
06/08	Public Health	Physiology
13/08	Public Health	Physiology
20/08	Public Health	Physiology
27/08	Public Health	Physiology
03/09	Public Health	Physiology
10/09	Public Health	Physiology
17/09	Public Health	Physiology
01/10	Public Health	Physiology
08/10	Public Health	Physiology
15/10	Public Health	Biostatistics
29/10	Public Health	Biostatistics
05/11	Public Health	Biostatistics
12/11	Public Health	Biostatistics
19/11	Epidemiology	Biostatistics
26/11	Epidemiology	Biostatistics
03/12	Epidemiology	Biostatistics
10/12	Epidemiology	Demography
17/12	Epidemiology	Demography
24/12	Epidemiology	Demography
31/12	Epidemiology	Demography
07/01	Epidemiology	Demography