



# **BLDE**

## **(DEEMED TO BE UNIVERSITY)**

### **CBCS**

# **Curriculum for**

# **Master of Public Health (MPH)**

## **2019-20**

Published by

**BLDE**

**(DEEMED TO BE UNIVERSITY)**

Declared as Deemed to be University u/s 3 of UGC Act, 1956

The Constituent College

**SHRI B. M. PATIL MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, VIJAYAPURA**

Smt. Bangaramma Sajjan Campus, B. M. Patil Road (Sholapur Road), Vijayapura - 586103, Karnataka, India.

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BLDE(DU)/REG/MPH/2019-20/1068/1

August 03, 2019

**NOTIFICATION**

Sub: Syllabus for Master of Public Health programme with Semester based system

Ref: 1. Minutes of the meeting of the 2<sup>nd</sup> Standing Committee of Academic Council of the University held on 13-06-2019.

2. Minutes of the meeting of the 48<sup>th</sup> BoM of the University held on 18-07-2019.

3. On approval of Hon'ble Vice-Chancellor Order No.490/A, dtd.01-08-2019.

In accordance with the Rule-09 (ii) of the Memorandum of Association (MoA) of the Deemed to be University, the Board of Management (BoM) has approved the Syllabus for **Master of Public Health (MPH)** Programme following Choice Based Credit System (CBCS) with semester scheme in its 48<sup>th</sup> meeting held on July 18, 2019.

The Syllabus shall be effective from the Academic Session 2019-20 onwards, in the Constituent College of the University viz. Shri B. M. Patil Medical College, Hospital and Research Centre, Vijayapura.

To,  
The Dean, Faculty of Medicine and Principal  
Shri B. M. Patil Medical College,  
Hospital and Research Centre,  
Vijayapura

  
REGISTRAR  
REGISTRAR  
**BLDE (Deemed to be University)**  
Vijayapura-586103. Karnataka

Copy to:

- The Secretary, UGC, New Delhi
- The Controller of Examinations
- The Dean, Student Affairs
- The Prof. & HoDs of Pre, Para and Clinical Departments
- The Coordinator, IQAC
- PS to the Hon'ble Chancellor
- PS to the Hon'ble Vice-Chancellor

Smt. Bangaramma Sajjan Campus, B. M. Patil Road (Sholapur Road), Vijayapura - 586103, Karnataka, India.

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# CONTENTS

## Section-I

Preamble

## Section-II

1. MPH Programmeme - Goal, Objectives
2. Institution's Vision & Mission
  - a) BLDE (DU)-Vision & Mission
  - b) Department of Public Health-Vision and Mission

## Section-III

1. Scope of MPH Programmeme
2. Information about MPH Programme
  - a) Eligibility criteria
  - b) Duration of Programme
  - c) Course Details
  - d) Training, Teaching and Learning Activities
  - e) Schedule of Examination
  - f) Career Opportunities
  - g) Core Department
  - h) BOS Committee

## Section-IV

1. Semester Distribution of Master's Programme
  - a) Semester Outline
  - b) Course Credits & Teaching Hours
2. Course Contents
3. Reference & Books

## **SECTION-I**

### **PREAMBLE**

Public Health has a multisectoral approach in nature to promote health and prevent diseases. Public health extends far beyond the traditional view of health care. Primary health care professionals are the key personnel behind the idea of public health, practitioners in this field strive to improve the economic, social & environmental health of the communities and tackle the challenges in implementing programmes and bringing out the evidence through research which helps in framing policies and programmes.

The Masters of Public Health is a skill-based degree which has wide applicability across a number of disciplines and professions. This Degree/ Programme prepares candidates to become competent public health personnel by emphasizing on the acquisition of learning skills essential to the practice of public health through techniques like practical field exposures, problem solving and self-directed learning. Public health personnel have a wide scope in their employment; they can function as policy analysts, health planners, epidemiologists, demographers, social and behavioral scientists etc. So, this degree enables a graduate to function in multidisciplinary set-ups and help in bringing public health concepts into practice.

## **SECTION-II**

### **1. MPH PROGRAMME-GOAL, OBJECTIVES**

#### **❖ GOAL:**

The Goal of the BLDE (DU) MPH Programme is to provide training, research and service activities that develop public health professionals, healthcare providers, social health activists and researchers to plan, develop, implement, monitor and evaluate population-based and individualized approaches for quality health care.

#### **❖ OBJECTIVE:**

- To offer a globally competitive and practice-based Masters of Public Health (MPH) Programme to prepare leaders in public health sciences and practice to address current and future public health challenges.
- To educate and train a person to a skilled level of expertise in the domain area of the growing community health sector.
- To create a cadre of public health professionals and operations of ground-based growing health industry needs.
- To enable the students to acquire knowledge of introduction to public health, concepts of disease, health development, health information system, health care delivery system.

## 2. INSTITUTION'S VISION & MISSION

### ❖ **BLDE (Deemed to be University)**

#### **Vision:**

- Be a Leader and be recognized as an institution striving for maintenance and enhancement of quality medical education and health care.

#### **Mission:**

- We are committed to promote sustainable development of higher education, including health sciences education consistent with statutory and regularly requirements.
- Reflect the needs of changing technology.
- Make use of academic autonomy to identify the academic Programmes that can be dynamic.
- To adopt global concept in education

### ❖ **Department of Community Medicine**

#### **Vision:**

- To develop competent & Efficient leader in public Health
- To improve the health of the community with promotive, preventive& curative measure.

#### **Mission:**

- **Education** to prepare tomorrow's public health leaders through excellence and innovation in education and to promote transition of knowledge into policy and practice.
- **Research** to work in partnership to achieve excellence in public and global health, for addressing contemporary and future critical health challenges. **Services** to community with special focus on those with most in need, who would benefit most from improved health and reduced inequalities (the disadvantaged, underserved and vulnerable) Nationally and Globally.

## SECTION –III

### 1. Scope of MPH Programmeme

The aim of BLDE (DU) in starting Master of Public Health is to create Health is to create Public Health professionals for delivering better health care. It is one among the most widely recognized profession with credentials for leadership in public health. MPH caters to the increasing demand for public Health graduates in National and International Non Governmental organizations (NGOs), public and private sector and in various health research institutes.

### 2. Information about MPH Programme

#### (a) Eligibility Criteria for the Masters in Public Health Programme:

- A Bachelor's degree in Medical, Dental Ayurveda, physiotherapy, pharmacy/Pharm-D, Nursing from any statutory university in the country or abroad. And B.Sc. with life Science.
- A post graduate degree holder with M.Sc (Nutrition), M.Sc. Nursing, M.Sc. (Home Science) Master of Social Work and MA Sociology with a minimum of 50% marks from a recognized university.

#### (b) Duration of Programme:

- Two years (four semesters) full time Programme Including internship and dissertation At the end of the 2-years Programme, the PH post-graduates are expected to demonstrate the following Broad Values in the context of public Health;
  - **Apply the course learning to the public health system and its challenges:**
    - a. Demonstrate adequate knowledge and skills to a wide range of public health topics.
    - b. Critically conduct the situational analysis and develop action plan for identified public health issues.
    - c. Develop work force for talking public health related responsibilities in defined geographical areas.
    - d. Develop an understanding of the epidemiological transitions of Programmes specific to each state within the country in order to prioritize public health challenges for policy making.
  - **Develop, implement and evaluate key public health policies:**
    - a. Develop a capacity to apply conceptual frame work to understand policy processes in healthcare
    - b. Understand roles of supply and demand in policy making in healthcare
    - c. Develop an understanding to facilitate inter – sectoral coordination and public- private partnership
    - d. Critically analyze resource allocation for competing public healthcare interests across Programmes

- e. Formulate context appropriate policies and design Programmes to Address public health challenges, effectively
- **Develop and demonstrate competency in managing health system at different levels:**
  - a. Identify immediate and long term health Programme goals at national, state and district levels
  - b. Prioritize health issues in population
  - c. Describe various managerial information system and their application
  - d. Describe Programme management plans in health
  - e. Understand and apply core management principles for human resources in health
  - f. Understand and apply Programme budgeting and economic evaluation
  - g. Understand and apply quality assurance and improvement techniques in health care
- **Develop competency in research:**
  - a. Understand and apply ethical principles in research, evaluation and dissemination
  - b. Develop competence to critically evaluate existing information and identify gaps
  - c. Formulate and test research hypotheses in real world scenarios
  - d. Translate research knowledge for evidence based policymaking

## SECTION – IV

### a) Course Details

DURATION	INTAKE CAPACITY	ELIGIBILITY	FEES (INR)	
TWO YEARS (full time)	4 seats per year	<ul style="list-style-type: none"><li>• A Bachelor's degree in Medical, Dental, Ayurveda, Physiotherapy, Nursing from any Statutory University in the Country or abroad.</li><li>• A Postgraduate degree holder with M.Sc. (Nutrition), M.Sc. (Home Science) Master of Social Work and MA Sociology with a minimum of 50% marks from a</li></ul>	1 <sup>st</sup> year	50.000/-
			2 <sup>nd</sup> year	50.000/-

### b) Course Outline

The MPH course will comprise of 16 core modules and 8 elective modules which may be offered by universities depending on their capacity and capability. A candidate will need to pass 16 core (compulsory) modules of the chosen stream to successfully complete the Programme.

#### i) Core Modules

1. Principal and Practices of Public Health
2. Research Methodology
3. Social and Behavior Change in Health Care
4. Health Care Delivery System
5. Basic Epidemiology
6. Basic Biostatistics (part-ii)
7. Demography & Population Science
8. Communication Skill in Health Care
9. Inferential Biostatistics (part-II)
10. Epidemiology of Infectious & Non-Communicable Diseases
11. Public Health Legislation & Health Information System
12. Health Planning & Management
13. Occupational & Environmental Health
14. Maternal & Child Health



15. Public Health Nutrition

16. Health Economics

### **Elective Modules**

1.	Dental public health
2.	IDSP Module (Communicable/ Non Communicable Diseases)
3.	Library Dissertation
4.	Geriatric health
5.	Mental health

#### ➤ **Selection Criteria:**

Selection of candidates will be based on merit, written test/ personal interview.

#### **Accommodation:**

Candidates who are selected will be given accommodation in Shri B M Patil Medical Collage hostels depending on the availability.

#### **c) Training, Teaching and Learning Activities:**

A Candidates pursuing the course shall work in the Department as a full time candidate.

No candidate shall be permitted to run a clinic/laboratory/nursing home while studying.

Every candidate shall take part in seminars, group discussions, journal review meeting etc.

Every candidate shall attend teaching and learning activities during each semester as prescribed by the Department and not absent himself/herself without valid reasons.

A list of teaching and learning activities designed to facilitate acquiring of essential knowledge and skills outlined is given below:

- **Lectures:** For all subjects lectures shall be conducted by the faculty.
- **Journal Club:** Recommended to be held twice a week. All the MPH candidates are expected to attend and actively participate in discussion and enter the relevant details in the log book. Further, every candidate must make a presentation from the allotted journal(s), selected articles with special emphasis on public health related topics, at least two times a year.
- **Subject Seminar:** Recommended once a week. All the MPH candidates are expected to attend and actively participate in discussion and enter in the log book the relevant details.further, every candidate shall present a seminar on selected topics at least four times a year and have a total of eight seminars in two year. The presentations would be evaluated using checklist and would carry weight age for internal assessment. A time table with the subjects and the names of the candidates and moderator will be scheduled at the beginning of each semester.
- **Field Visit:** PHC, DHO Office, Hospital visits, Sewage treatment plant, Water purification plant, milk dairy, Industry visit, pollution Control Board, CDPO officer, IDSP, DSO office and other institutions of public Health importance.

- **Field Activities:** Health education talks, nutritional survey, school health Programmes. National health Programmes.

### ❖ **Attendance and Monitoring Progress:**

#### **Attendance:**

- A candidate pursuing MPH Course shall study for the entire period as full time candidate. No candidate shall join any other course of study or appear for any other examination conducted by this University or any other University in India or abroad during the period of registration.
- Each semester shall be considered as a unit for the purpose of calculating attendance.
- Every candidate shall attend symposia, seminars, conferences, journal review meetings, dissertation review meeting and lectures during each year as prescribed by the Department/ collage / University and not absent himself/ herself without valid reasons.
- The Candidate who has put in a minimum of 75% of attendance in the theory and practical assignments separately shall be permitted to appear for University examination at the end of each semester.
- Any candidate who fails to complete the course in the manner stated above shall not be permitted to appear for the semester University examinations.

### ❖ **Monitoring Progress of Studies:**

- **Log Book:** Every candidate shall maintain a log dairy and record his / her participation in the training Programmes conducted by the Department such as journal reviews, seminars, etc. Special mention shall be made of scientific presentation in conference by the candidate as well as details of assessment works like essay writing etc submitted by the candidate. The work dairy shall be scrutinized and certified the Head of the Department and presented in the University viva- voce examination.
- **Sessional Examination:** Records and marks obtained in Sessional test shall be maintained by the Head of the Department and sent to the University, when called for.
- **Records:** Records and marks obtained in Sessional tests, seminars, journal clubs, field activities and weekly written assignments which shall be maintained by the Head of the Department and shall be made available to the University.

### ❖ **Internship;**

- Two months internship will be undertaken by all the candidates with an aim to integrate learning and practice in an active public health organization. This can be undertaken at governmental or non-governmental public Health organizations or Programme management units. The internship should include the candidate's role and support in assessing, monitoring, or conducting surveillance of health problem/ services in a assessing, monitoring, or conducting surveillance of health problem/ services in a population; research on population- based health problems; developing and/or implementing policies and intervention strategies to meet public health needs. Overall it should contribute to the organization, and should help in understanding

public health management and coordination and gaining personal confidence and leadership experience. Although finding a suitable internship opportunity lie with the candidate him / herself, mentors will facilitate the process. After the completion of 2 months of internship, candidates will be expected to submit a brief summary of public health Programme / challenge dealt with and solution proposed / implemented by the candidate at the end of second semester.

- Candidate should submit two copies of the training report duly certified by the authorities of the training center in which he/she has undergone training duly accepted and certified by the Head of the Department.
- Candidates should submit their project plan and preliminary time scale with their chosen topic for dissertation at the end of the internship to their mentor / tutor to seek appropriate approvals before embarking on the full investigation and project.

### ❖ **Dissertation:**

#### **SYNOPSIS:**

- Every candidate shall submit a synopsis of intended dissertation work through the Director Academic Affairs of BLDE (Deemed to be University) through the HOD and Head of the institution, not later than five months from the date of admission to MPH. The date will be notified by BLDE (Deemed to be University).
- Such synopsis will be reviewed and the dissertation topic will be registered by the University. No changes in in the dissertation topic or guide shall be made without prior approval of the University.
- Every candidate pursuing MPH course is required to carry out work on selected research project under the guidance of a recognized guide. The results of such work shall be submitted in from of a dissertation.
- The Dissertation is aimed to train the candidate in research methodology. It includes identification of the problem, formulation of a hypothesis, review of literature, getting acquainted with recent advance, designing of a research study, collection of data, critical analysis and comparison of result and drawing conclusion.
- Dissertation shall require approval of the institutional ethics Committee (IEC) prior to initiation of any dissertation work. Candidate shall work under the supervisor to attain IEC approval. Student shall maintain regular contact with the guide during his/ her dissertation work.

The dissertation should be written under the following headings;

- Introduction
- Objectives
- Review of literature
- Material and Methods
- Results –including table & graphs
- Discussion
- Conclusion

- Summary
  - References
  - Annexure
- The written text of dissertation shall be not less than 50 pages and shall not exceed 150 page excluding references, tables, questionnaires and annexure. It should be neatly typed with double line spacing on one side of bond paper (a4 size,8.27’’\*11.69’’) and bound Property. Spiral binding is not permitted. The dissertation shall be certified by the guide and co- guide if any, Head of the Department and Head of the institution.
  - The dissertation shall be valued by examiner appointed by the University.
  - A guide shall be a full time postgraduate teacher of a constitute collage of BLDE (Deemed to be University) and recognized by BLDE(Deemed to be University)as a guide for supervision of dissertation work.
  - Change of Guide; Guide may be charged with prior permission from the University.
  - Submission of Dissertation; Two copies of the dissertation duly certified by the guide, the Head of Department of Public Health shall be submitted to the controller of Examinations, BLDE (Deemed to be University), through the head of the department at least 2 months before Examination of semester IV.

#### **d) Schedule of Examination**

##### **A. Sessional Examination**

<b>Theory</b>	<b>Marks</b>
Written Examination	80 marks
Internal Assessment	20 marks
Seminar	10 marks
Journal Club	10 marks
Reports of field visits	10 marks
Models / essay writing / project work	10 marks
Camps / Group activities / role play	10 Marks

- The total marks obtained have to be calculated for 10.
- 2 marks will be given to candidates who make Scientific Presentation in National Conference.
- A cumulative total will be calculated out of 20 as “ Internal Assessment “(IA) MARKS”

##### **B. University Examination**

###### **• Theory:**

- There shall be four University examinations for the entire namely I, II, III, IV, semester examination. The examination will be conducted at the of each semester. There shall be four (3) core theory paper. All core subjects &

elective will have University exam. Each paper shall be of 3 hours' duration carrying 80 marks each.

- **Viva-voce:** Each candidate shall give viva-voce examination for semester II (subjects of semester I&II) & semester IV (subject of semester III & IV).

## SCHEME OF EXAMINATION FOR THEORY

Question	Number of Questions	Marks	Maximum Marks	Total Marks
Long Questions	5	10	50	80
Short Essays	6	5	30	

### MPH Semester-I Theory

Paper No.	Paper	Max Session Marks	Max University Marks	Total Maximum Marks	Minimum Marks pass
MPH-I- PAPER -I	Epidemiology & Research Methodology	20	80	100	50
MPH -I - Paper -2 -	Principles and practices of public Health, Health Care Delivery System	20	80	100	50
MPH - I- PAPER -3	Social and behavior change in Health Care, Communication Skill in Health Care,	20	80	100	50

### MPH Semester-II Theory

Paper No.	Paper	Max Season Marks	Max University Marks	Total Maximum Marks	Minimum Marks to pass
MPH -II - Paper -I	Epidemiology of Infectious diseases	20	80	100	50
MPH - II- Paper -2	Public Health Legislation & Health Information System	20	80	100	50
MPH - II- paper - 3	Biostatistics & Demographics Science, epidemiology of Non-Communicable Diseases	20	80	100	50

### Practical Exam for Semester-II

Paper No.	Paper	Max Session Marks	Max University Marks	Total Maximum Marks
1	Critical appraisal	20	20	50
2	Biostatistics exercises	30	30	
3	Epidemiological exercises	30	30	
4	Viva voce	20	20	

### MPH Semester-III Theory:

Paper No.	Paper	Max Session Marks	Max University marks	Total Maximum MARKS	Minimum Marks to pass
MPH –III - Paper -1	Health planning & Management, Health Economics, Public Health Nutrition	20	80	100	50
MPH – III - Paper -2	Occupation & Environmental Health	20	80	100	50
MPH – III - Paper-3	Maternal & child Health	20	80	100	50

### MPH Semester-IV Theory

Paper No.	Paper	Max Session Marks	Max University Marks	Total Maximum Marks	Minimum Marks to pass
MPH – IV – E T	Elective (s) as per selection	20	80	100	50

### MPH Semester-IV – Viva-Voce Examination

MPH – IV – p	Viva- voce & dissertation presentation	-	100	100	50
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#### **Dissertation Valuation:**

The examiners appointed by the University shall evaluate the dissertation; Approval of dissertation work is an essential prerequisite for a candidate to appear in the semester IV dissertation work is an essential prerequisite for a candidate to appear in the semester IV University examination. The dissertation shall be valued by two evaluators (examiner) one within the University and one outside. Any one-evaluator acceptance will be considered as a prerequisite for eligibility to take up examination.

#### **❖ Viva-Voce and Defense Examination:**

The viva-voce and defense examination shall aim at assessing the dept. Knowledge, logical reasoning, confidence and oral communication skills. The viva – voce and defense examination shall be held after the submission dissertation. If a candidate fails to submit the dissertation on or before the prescribed, his/her viva- voce and defense shall be conducted during the subsequent University examination.

#### **❖ Examiners:**

There shall be least two examiners, out of them one shall be from out of university with post graduate qualification (MD Community medicine OR MPH) with minimum five years of teaching experience.

### ❖ **Evaluation Policy:**

There will be two evaluation for each paper, if there is deviation of more than 15% between two evaluator than there will be a 3<sup>rd</sup> evaluation.

### **Criteria for Declaring Pass:**

Minimum number of marks for each semester examination required for passing the examination is 50% in theory as well as 50% in practical including viva- voce. If the candidate has failed either in theory or practical, he/she will appear for only that part in subsequent semester along with other subjects of the respective semester.

### **Carry Over:**

At any given point of time a candidate shall have subject pending to clear of only previous semester in addition to the subjects of the current semester that he is appearing for eg.:

- If the candidate has not cleared semester I, he can appear for semester II and pending subject of semester I simultaneously.
- For appearing for semester III should have cleared semesters I and can appear for papers pending from semester II along With semester III subjects.
- For appearing for semester IV he/she should have cleared semesters II completely and can appear pending papers of semester III simultaneously.

### **e) Career Opportunities:**

The MPH degree will provide career opportunities for students as Programme Manager, Project coordinator, Epidemiologist, and Research Assistants in

- National Health and State Government Health Organizations
- National Rural / Urban Health Mission,
- National Health Programmes,
- Public Health and Research Institutes
- International Agencies- WHO, UNICEF etc.
- Academic Institutions
- Funding Agencies
- Advocacy groups, Voluntary Health Organizations, Non-Governmental Organizations

**f) Core Department:** Community medicine, Shri B M Patil Medical College, Hospital and Research Centre, Vijayapura.

### **g) BoS Committee:**

BoS Committee has to be framed consisting of Community Medicine faculty and eminent Public Health faculty to frame the curriculum and evaluation system to monitor the progress of MPH Programmeme.



### 3. Semester Distribution of Master's Programme

#### a) Semesters Outline:

#### 4.1 SEMESTER-I

S.No	Core subject	Credits
MPH-I-1 T	Principal and practices of public Health	2
MPH-I-2 T	Research Methodology	6
MPH-I-3 T	Social and behavior change in Health Care	4
MPH-I-4 T	Health Care Delivery System	4
MPH-I-5 T	Basic Epidemiology	6
MPH-I-6 T/P	Basic Biostatistics (part –I)	5(4+1)
MPH-I-7 T	Demography & population Science	2
MPH-I-8 T	Communication skill in Health Care	3(2+1)
MPH-I-9 P	Field Visits	1
MPH-I-10 P	Field Visits	1
MPH-I-11 P	Field Visits	1
MPH-I-12 P	Practical	1
MPH-I-13 P	Practical	1
MPH-I-14 P	SDL	1
MPH-I-15 P	SDL	1
MPH-I-16 P	SDL	1
MPH-I-17 P	Journal Club / Seminar	1
MPH-I-18 P	Journal Club / seminar	1
	<b>TOTAL</b>	42

### THEORY

#### 1. Principal and practices of public health:

##### Introduction to Public Health

- Evolution of Public Health
- Ancient India and Public Health
- Founders of Modern Public Health
- Principles of Public Health
- Practice of Public Health

#### 2. Research Methods (Qualitative & Quantitative)

##### Quantitative Research Method:

- Introduction to Research Methodology
- Developing a Research Question
- Developing a Hypothesis
- Data Collection Tool Development

- Epidemiological study design: Cross sectional, Cohort, Case Control
- Experimental Design: Randomized, Non randomized, parallel, Factorial, Cross Over

### **Qualitative Research Method:**

- Overview of Qualitative Research Methods
- Overview of Comparing Quantitative and Qualitative Research
- Overview of Sampling in Quantitative Research
- Theories of qualitative Research – Grounded, Ethnography, Phenomenology with case study examples

### **3. Sociology & its basic concept related to health & disease**

- Sociology & its basic concept
- Introduction on sociological perspective on health
- Introduction to Medical Sociology
- Key concepts in sociology as applied to the study of health
- Social and cultural processes impacting health status and access to health services
- Health and human behavior

### **4. Health care Delivery System**

#### **Changing concept of Health Care**

- Comprehensive Health Care
- Basic Health Care
- Primary Health Care

#### **Levels of Health Care**

- Primary Health care
- Secondary Health Care
- Tertiary Health Care

#### **Community Diagnosis**

#### **Health Administration in India**

- Central Level
- State level
- District level-Panchayat Raj Institutions
- Health for all-Millennium Development goal & Sustainable Development Goals
- Voluntary & International Health Agencies
- National Health Policy

## **5. Epidemiology**

- Concept and dimensions of health, well being
- Quality of life, spectrum of health
- Determinants of Health
- Indicators of Health
- Epidemiology triad
- Dynamics of Diseases Transmission
- Natural history of diseases
- Epidemiology Definition, principles, uses
- Identification of Health problems
- Survey methods
- Planning, Designing and conducting of epidemiological surveys
- Investigation of an epidemic
- Using epidemiology to Identify the Cause of Diseases
- Applying Epidemiology to Evaluate Health Services & policy Screening for Diseases
- Types of screening test
- Assessing the validity and reliability of diagnostic and screening tests

## **6. Basic Biostatistics (part-I)**

Introduction to Biostatistics

Application of statistics to problems in clinical and public Health setting Data.

- Classification
- Presentation – Tables and Graphs
- Collection
- Sampling Designs
- Sample size Calculation
- Descriptive Statistics
- Measures of Central Tendency
- Measures of Dispersion
- Measures of Kurtosis and Skewness

## **7. Demography & Population Science**

- Factor affecting population
- Measures of fertility and mortality
- Standardization methods
- Population growth and projection

- Demographic transition
- Implication of rapid population growth
- Demographic dividend or disaster
- Life table
- Urbanization

## **8. Communication skill in Health Care**

- Implementing and managing social and behavior change communication in public health: Information Education and Communication (IEC), Inter personal Communication (IPC) Behavior change Communication (BCC), Social Behavior change communication (SBCC).
- Human behavior and communication, its role in public health problems and solutions
- Verbal vs. Non- verbal communication
- Various forms of written communication
- Consensus building
- Using audiovisual aid in communication

## 4.2 SEMESTER-II

S.No.	Core Subjects	Credit
MPH –II -1 T	Inferential Biostatistics (part –II)	4 (2+2)
MPH –II -2 T	Epidemiology of Infectious & Non – Communicable Diseases with National Programme	15
MPH –II -4 T	PUBLIC Health Legislation & Health Information System	4
MPH –II -5 P	Critical Appraisal of published article (Practical)	2 (1+1)
MPH –II -6 P	Field Visits	1
MPH –II -7 P	Field Visits	1
MPH –II -8 P	Practical	1
MPH –II -9 P	Practical	1
MPH –II -10 P	SDL	1
MPH –II -11 P	SDL	1
MPH –II -12 P	SDL	1
MPH –II -13 P	Computer skill & Applications	3 (1+2)
MPH –II -14 P	Journal Club / Seminar	1
MPH –II -15 P	Journal Club / Seminar	1
	<b>TOTAL</b>	38

### THEORY

#### MPH II -1 T. Biostatics (part – II)

Probability and probability Distribution (Binomial, poisson and Normal distribution)

Testing of Hypothesis: parametric Tests (z test, t test, Analysis of variance-one way), non parametric Tests

Correlation Analysis

Regression Analysis: Simple, Multiple, Logistic

Estimation: point and Interval

## **MPH II - 2 T. Epidemiology of Infectious & Non-Communicable Diseases with National Programmeme**

General control measure of Communicable Diseases

Epidemiology & control of Communicable Diseases

- Respiratory Infection
- Intestinal Infection
- Arthropod Borne
- Surface Infections
- Zoonotic Diseases

Epidemiology & control of Non Communicable Diseases

- Cardiovascular Diseases
- Hypertension
- Cancer
- Diabetes
- Mental Health problems
- Obesity
- Blindness
- Accidents

Emerging & Re- emerging Infectious Diseases

### **Public Health Legislation & Health Information System:**

- Public Health laws and ethics
- Human right in public health
- Role of governments in managing health of people
- Public health information and privacy
- Research ethics in public health
- Legislation related to Quality of professional Education and Services
- Health Information system: Sources, Uses

<b>INTERNSHIPS: 2 MONTHS - 10 CREDITS</b>
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### 4.3 SEMESTER-III

Sl. No.	Core Subjects	Credit
MPH - III - 1 T	Health planning & Management	4
MPH - III - 2 T	Occupation & Environmental Health	8
MPH - III - 3 T	Maternal & child Health	8
MPH - III - 4 T	Public Health Nutrition	6
MPH - III - 5 T	Health Economics	3
MPH - III - 6 P	Field Visits	2
MPH - III - 7 P	Field Visits	1
MPH - III - 8 P	Practical	1
MPH - III - 9 P	practical	1
MPH - III - 10 P	SDL	1
MPH - III - 11 P	SDL	1
MPH - III - 12 P	SDL	1
MPH - III - 13 P	Journal Club / seminar	1
MPH - III - 14 P	Journal Club / Seminar	1
MPH - III - 15 P	Orientation to Elective Modules	4
MPH - III - 16 P	Dissertation work	2
	<b>Total</b>	45

### **THEORY**

#### **MPH –III – 1 T Planning & Management**

- Introduction to health planning & Management
- Planning Cycle
- National health policy & Various committee
- Management Methods & techniques
- Health planning and system in India

#### **MPH – III -2 T Occupational & Environmental Health Occupation Health**

- Introduction to Occupational health
- Prevention of occupational diseases

- Medical & Engineering Measures
- Prevention of occupational diseases – Legislative Measures

### **Environmental Health**

- Introduction to Environmental Health
- Water sources and water pollution
- Purification of water-Different Methods
- Water quality, criteria & standards
- Air pollution -Causes & prevention
- Ventilation, light, noise
- Ventilation, light, noise
- Radiation, Meteorological environment
- Housing, Solid waste disposal
- Excreta disposal, Sewage Treatment

### **MPH -III - 3 Maternal & Child Health**

- Introduction of MCH, Antenatal care, intranatal care & PNC
- Care of children and development, LBW, Feeding of infant
- Delivering the MCH care, Indicators of MCH Services
- Integrated Management of Childhood Illness
- Under 5 Mortality
- School Health services & Social welfare Programmes
- Child Behavior problem
- Geriatric Health
- Adolescent Health

### **MPH –III – 4 T Public Health Nutrition**

- Introduction to Nutrition & health
- Nutritional problems in public Health
- Method of Nutritional Assessment
- Community Nutrition Programmemes
- Food Toxicants
- Adulteration of food



#### 4.4 SEMESTER-IV

Sl. No.	Core Subjects	Credit
MPH – IV – 1 T	Chosen Elective Module	10
MPH – IV – 2 T	Dissertation writing & submission	10
	Total	20

**Importance of professionalism, values and communication:** During orientation week, the course is expected to provide an overview of professionalism, importance of professional values and communication including;

- Professional value- Integrity, objectivity, professional competence and confidentiality.
- Core values-Accountability, Altruism, Compassion/caring, Excellence, integrity, professional duties, social responsibility
- Personal values-ethical or moral values
- Attitude and behavior-professional behavior, treating people equally
- Code of conduct, professional accountability and responsibility, misconduct
- Cultural issues in the health care environment
- Differences between the various health care professions and importance of team efforts
- Entry level health care practitioner, direct access, autonomy in profession, practitioner of medical practice and evidence based practice

## Cumulative Grade Point Average (CGPA)

Letter Grades and Grade points equivalent to percentage of Marks and performances

### 10 Point Grade Scale

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
91.00 – 100	0	10	Outstanding
80.00 – 89.99	A+	9	Excellent
70.00 - 79.99	A	8	Good
60.00 - 69.99	B+	7	Fair
50.00 - 59.99	B	6	Average
Less than 50	C	0	Fail
<b>Absent</b>	AB	0	Fail

### 1. Conversion of Grades in to GPA:

$$\text{GPA} = \text{Credits} * \text{Grade points} / \text{Total Credits}$$

1. **Cumulative Grade point Average (CGPA)** of all 4 semester will be calculated as: Total No. GPA / NO. of semester.

### Elective Modules

1.	Dental public Health
2.	IDSP MODULE (Communicable /Non communicable diseases)
3.	Library Dissertation
4.	Geriatric health
5.	Mental health

### Adjunct Faculty

1. Dental Dept.
2. Psychiatry Dept.
3. Geriatric Dept.
4. Dept of Library
5. DHO/DSO/RCH Officers, Vijayapura

## 2. References:

<b>Sl. No.</b>	<b>Title of the Books</b>	<b>Author</b>
1	Text of preventive & social Medicine	K.Park
2	Epidemiology and Demography Public Health	Japhet killewo
3	Sociology for Health Professional	Lani Rusell
4	Community Medicine (Practical Guide)	Kusum Latha Gaur
5	Advances in Health Care Management	Gromt T. Sevege
6	Health Survey Method ( Hand book)	Timothy P . Johanson
7	Public Health Management	Sunderlal Vikas
8	Community Medicine with Recent Advances	A.H..Suryakant
9	Text Book of preventive and Social Medicine	K.park
10	`Review of preventive and Social Medicine Including Biostatistics	Jain Vivek
11	Policy in Public Health; Maternal and child Health	Kotch Jonathan B
12	Principles of Epidemiology in Public Health practice	CDC
13	Public Health Education Methods a Practice guide to identification biology & control	Chapanan & Hall
14	Public Health Administration & practice	Lloyd F Novick
15	Advocacy in Health Care	Kevin Teasdale
16	Public Health Preventive Medicine	Maxcy Rosenau last
17	Public Health Administration & practice	Hason John J
18	Epidemiology & Management for health care for all	Sathe PV & Sathe AP
19	Public Health at the Crossroads	Beaglehone
20	Moxcy Rosenall Public Health & Preventive Medicine	John M Last
21	Epidemiology & Public Health	Thomas B. Newnan & others
22	Oxford Text book of Public Health	Water W.Holland & others
23	Public Health and Preventive Medicine (maxcy-Rosenau-Last Public Health and preventive Medicine)	Robert B. Wallace
24	Epidemiology	Leon Gordis
25	Oxford Textbook of Public Health	Honnand W, Detel R, Know G.
26	Practical Epidemiology	D.J. P Barker
27	Epidemiology, Principles and Methods	B. MacMahon, D Trichopoulos
28	Hunter's Diseases of Occupations	Donald Hunter,P A BRaffle, P H Adams, peter J. Baxter, W R L
29	Text Book of preventive and social Medicine	Sunderlal
30	National Health Programme	Jugal Kishore
31	Recent Advances in Occupational Health	Harrington