

PRAVARA INSTITUTE OF MEDICAL SCIENCES (DEEMED TO BE UNIVERSITY)

Loni, Tal. Rahata, Dist. Ahmednagar 413736 NAAC Re-accrediated with 'A' Grade

SYLLABUS

Post Graduate Degree Programme in Master of Public Health (School of Public Health and Social Medicine) (Academic Council Meeting Dated 28th October 2021)

Content

| SN | Contents | | | |
|----|--|--|--|--|
| | SECTION I- Rules and Regulation for MPH program | | | |
| 1 | General | | | |
| 2 | Nomenclature of Degree | | | |
| 3 | University | | | |
| 4 | Faculty | | | |
| 5 | Pattern of the course | | | |
| 6 | Background of the course | | | |
| 7 | Duration of the Program | | | |
| 8 | Medium of instruction | | | |
| 9 | MPH Program Objective | | | |
| 10 | Highlights of the New Curriculum | | | |
| 11 | Eligibility for admission to the Master of Public Health Program | | | |
| 12 | Selection of Students for Master of Public Health Program | | | |
| 13 | After Selection Formalities | | | |
| 14 | Procedure for Cancellation of admission | | | |
| 15 | Course | | | |
| 16 | Program structure | | | |
| 17 | Attendance/Leave/Vacation | | | |
| 18 | Assessment of Course/Examination | | | |
| 19 | Scheme of Examination | | | |
| 20 | Rules of passing | | | |
| 21 | Promotion of student to next semester/year | | | |
| 22 | Fees and payments | | | |
| 23 | Maximum Duration for completion of the Programme | | | |
| 24 | Grade/class Improvement | | | |
| | SECTION II- Syllabus for MPH | | | |

SECTION I- RULES AND REGULATIONS FOR MPH PROGRAM

1. Nomenclature of Degree

Master of Public Health (MPH)

2. University

Pravara Institute of Medical Sciences, Deemed University

3. Constituent unit

Centre for Social Medicine

4. Faculty

This program is offered under the "Faculty of Allied Health Sciences"

5. Pattern of the program

The program adopts Choice Based Credit System (CBCS) and Grading System.

6. Background of the program

This program has been specially designed to meet the ever increasing demand for well trained personnel with advanced & appropriate skills and knowledge to plan and implement innovative Public Health Schemes and Programs at regional, national and international level

7. Duration of the Program

Duration of this program will be two academic years with four semesters. First semester will commence in the first week of August every year, second and fourth semester will commence in first week of January and third semester will commence in first week of July every year.

8. Medium of instruction- English

9. MPH Program Objective

The broad objective of Master of Public Health program at Pravara Institute of Medical Sciences Deemed University is to train human resources in the science of public health, with a firm understanding of the determinants of health and the public health system in the country, the community context, the determinative influences of globalization, urbanization, global and national policies and a strong foundation in research methodology.

The specific objectives of the program include

- 9.1 To equip students to have an overall perspective on public health
- 9.2 To create good program managers in public health
- 9.3 To inculcate interdisciplinary approach to problem solving skills in public health
- 9.4 To encourage interdisciplinary research in public health
- 9.5 To improve leadership skills in public health
- 9.6 Students will have:
 - Hands-on experience of handling public health projects and programs
 - Experience of independently designing, executing, and observing urban, rural and tribal health care delivery systems and innovative public health interventions

10. Highlights of the New Curriculum:

The New Curriculum intends to add immense value to all stakeholders by effectively addressing their requirements in more than one way

- Enhancing the brand value of the MPH programme by providing the much needed flexibility with CBCS.
- Focusing on 'Concurrent Evaluation' i.e. continuous evaluation throughout the programme.
- Empowering the Institutes through cafeteria approach by providing Core, Elective, value and credit audit Courses.
- Supplementing traditional classroom teaching/learning with focus on group activity, seminar, role play, field work, experimental learning, self-study and research projects.

11. Eligibility for admission to the Master of Public Health Program

- Bachelor's degree in any Science subjects (biological, physical, mathematical, veterinary etc)
- Bachelor's degree in any medical (MBBS, BAMS, BHMS, BUMS), dental, nursing, physiotherapy, pharmacy, public health and other allied health sciences
- Bachelor's degree in Social & Humanitarian Sciences such as Anthropology, Sociology, Psychology, Journalism, Law, Social Work, Women Studies & Management etc
- Bachelor's degree other than the above mentioned subjects will be considered only if the candidate has a minimum of 5 years working experience in supervisory capacity in government or private/NGO sector in the field of Public Health.

All foreign or international university degree holders should submit their equivalence certificate from Association of Indian University (AIU) or respective statutory bodies like MCI, DCI, INC etc.

Candidates with minimum 50% marks (minimum 45% for SC/ST/OBC) in above subjects from any Indian University or their equivalent recognized degree from foreign University.

12. Selection of Students for Master of Public Health Program

- The selection of the students will be based purely on the merit of the marks obtained in the qualifying examination from any Statutory University in India or its equivalent degree from any other Statutory University abroad.
- Preference will be given to the candidates who have work experience in the field Public Health or its related fields.
- An "Admission Committee" appointed by the PIMS-Deemed University will screen the applications for eligibility and other conditions and oversee the admission process as per the guidelines of the University

13. After Selection procedures

- **Collect Provisional Admission Letter:** A provisional admission letter duly signed by the Director, CSM will be issued to all the admitted candidates.
- Acceptance Letter of Admission: The student to return the duly signed copy of the Provisional Admission Letter as acceptance of admission to the Director, Centre for Social Medicine.
- Verification of Original Documents: The following certificates will have to be submitted to the Office of CSM for verification at the time of finalizing the Admission of the Candidate. After confirmation of admission, all these documents will be retained by the Centre.
 - All Degree certificates & Mark sheets/Transcripts
 - o Nationality Certificate/Domicile Certificate/Valid Passport/Aadhar Card
 - School or College Leaving/Transfer Certificate
 - Migration Certificate
 - Medical Fitness Certificate
 - Gap Certificate (if applicable)
 These documents will be returned to the candidate after completion of the course.
- **Confirmation of Admission**: Admission will be confirmed only after receipt of the payment of Full Tuition Fee and other statutory fees & deposits, by the candidate within the stipulated time.

14. Procedure for Cancellation of admission

A candidate who has confirmed the admission may cancel it by submitting an application to the Director, Centre for Social Medicine along with the following document

- i) Application for cancellation duly signed by the candidate & Co signed by parent/ Guardian.
- ii) Original Fees Receipts.

| Period of cancellation | Permissible Refund |
|--|--|
| Within Thirty days from date of admission | Entire amount of Annual Tuition Fees after deduction of processing fee of Rs. 1000/- |
| Within Forty five days from date of admission | Refund will be made after following deductions Rs.1000/- processing fee Deduction of monthly fee i.e. 10% of tuition fee |
| After forty five days of admission | No cancellation of admission, entire tuition fee has to be paid |

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- All Deposit will be refunded in full in case of cancellation of admission.
- The permissible refund will be made after three months from date of application for cancellation. No Correspondence in this regard will be entertained during this period.

Cancellation during the conduct of the course

In the event of failure to qualify to continue the chosen Programme, for what so ever reasons, the student will be liable to pay the complete course fee to secure NOC and return of original documents from the institute concerned. Application needs to be submitted to the Director of the college to this effect.

15. Course

- A "Course" is a component of programme, i.e. papers will be referred to as courses. Each course is identified by a unique course code. Papers from each semester will be given different codes i.e courses from semester I will be identified as MPH 101 onwards, likewise courses from semester II will be identified as MPH 201 onwards, semester III as MPH 301 and semester IV as MPH 401 onwards.
- EL refers to elective course (e.g. MPH 304 EL)
- A course comprises lectures/ tutorials/ laboratory work/practical/ field work/ project work /scenario based learning/ seminar/ workshop/ symposia/ CME/ conference etc. or a combination of some of these.

| Subject code | Title of Paper/ Practical | Subject code | Title of Paper/ Practical |
|-----------------|--|-----------------|---|
| | SEMESTER I | | SEMESTER II |
| MPH 101 | Introduction to Public Health | MPH 201 | Communicable Diseases |
| MPH 102 | Biostatistics | MPH 202 | Non-communicable Diseases |
| MPH 103 | Epidemiology | MPH 203 | Population Science |
| MPH 104 | Social and Behavioral Science | MPH 204 | Research Methodology |
| MPH 105 EL | Human Biology (Value Audit Foundation Course for non-medical students) | MPH 211 | Practical's based on MPH 201 to MPH 204 |
| MPH 111 | Practical's based on MPH 101 to MPH 104 | | |
| | SEMESTER III | | SEMESTER IV |
| MPH 301 | Health Policy, Economics and Financing | MPH 401 | Public Health Nutrition |
| MPH 302 | Environmental Health & Sustainable Development | MPH 402 | Occupational Health |
| MPH 303 | Reproductive and Child Health | MPH 403 EL1 | Global Health |

16. Program structure

| MPH 304 EL1 | Law, Ethics and Human Rights in Public Health | MPH 403 EL2 | Rural and Tribal Health |
|----------------|---|----------------|--|
| MPH 304 EL2 | Health Systems Management and Informatics | MPH 404 | Research Dissertation |
| MPH 305 | Public Health Internship | MPH 405 | Project Design and Management-(Value Audit Course) |
| MPH 311 | Practical's based on MPH 301 to MPH 304 | MPH 411 | Practical's based on MPH 401 to MPH 403 |

- All students admitted to first year have to complete four theory subjects and a practical subject in First Semester. However, the students from non-medical background have to complete one additional Subject i.e. MPH 105-Human Biology as Value Audit Foundation Course. This additional course will help them to understand the mechanism and function of human body. This subject will be evaluated internally at college level.
- In Second Semester, students will have to appear for four theory and one practical subject, all subjects are compulsory.
- In third semester, students have to study three core subjects, one elective subject out of two i.e. MPH 304 EL and one practical.
- The public health internship of one month duration is compulsory component of the third semester which will be scheduled in the beginning of the semester.
- In fourth semester, students have to complete three core subjects, one elective subject out of two i.e. MPH 404 EL and one practical.

17. Attendance/Leave/Vacation

The student must meet the requirement of 75% attendance per semester per course for granting the term. The teacher handling a course shall be responsible for maintaining a record of attendance of students who have registered for the course.

All teachers shall intimate to the Director at least seven calendar days before the last instruction day in the semester the particulars of all students who have less than 75 % attendance in the course.

The Director shall have the right to withhold the student from appearing for examination of a specific course if the above requirement is not fulfilled. The Director, at the time of issuing hall ticket has to verify that the student is meeting the minimum requirement of attendance.

There will be no leave for the students during the academic session; however, due to unavoidable circumstances if the student proceeds on leave, s/he has to take prior permission from the Director/Course coordinator.

However, students will be given a 10 days preparatory leave before start of university examinations. The time between final university examination and start of the academic session of next semester will be considered as vacation for the students. All other rules for student's vacation will be as per the university guidelines.

18. Assessment/Examination

The final total assessment of the student shall be made in terms of an internal assessment and an external assessment. The internal and external assessment will constitute separate heads of passing and they will be shown separately in the marks sheet. For each paper meant for University evaluation, the ratio of marks for internal assessment in relation to external assessment shall be 30:70. The schedule of both the Internal and university examination will be communicated to the students through the academic calendar before starting the semester.

18.1- Continuous Internal Assessment (CIA).

CIA forms the Formative Assessment component of evaluation. It is structured to elicit the Students' domain knowledge, analytical and creativity skills. The internal assessment will be continuous throughout the semester. The CIA for each theory subject would have a total weightage of 150 marks which would be assessed in the following pattern for the components mentioned in the table. The marks received by the student in CIA will be converted in to 30 marks, as an internal assessment. If the marks obtained by the student in CIA are in decimal point, it will be rounded off to next digit. The CIA will be done by the subject teacher.

| Midterm written test (50 Marks) | Pre final (Prelims) written test (70 Marks) | Field work/ Posting (10 Marks) | Seminar/GD (10 Marks) | Assignments/ Scenario based study (10 Marks) |
|---------------------------------------|---|-----------------------------------|--------------------------|---|
| To be conducted in the mid of | To be conducted just before | Public health posting/ field work | 2 seminar/ subject/ | 2 assignments /subject/ |
| semester | university exam | | semester | semester |

The value/credit audit courses (i.e MPH 105-Human Biology and MPH 405- Project design and management) will be assessed internally through the written test which will be conducted at the end of semester. The test will be conducted for 50 marks. Passing in these subjects is compulsory for the students in order to complete the MPH degree. Students who get 40 % marks in these subjects in the written examination will be declared as pass and the result will be communicated to the university. The result will be mentioned as pass or fail on the final mark sheet.

The CIA for practical subject for all the semesters will be conducted in following manner.

| Midterm written test (50 Marks) | Pre final (Prelims) written test (140 Marks) |
|---------------------------------------|---|
| Experiment- 1*20 Marks | Exercise-2*20 Marks |
| Exercise/Scenario based question-1*15 | Exercise/Scenario based question-2*15 Marks |
| Marks | Spots-5*4 Marks |
| Viva Voce-15 Marks | Viva voce-40 Marks |
| | Journal-10 Marks |

| Conference attendance | Research Publication | Research methodology Workshop |
|-------------------------|-----------------------------|----------------------------------|
| Students have to attend | Students have to publish | Students have to attend minimum |
| minimum one Conference | minimum one research | one workshop related to research |
| | paper. | methodology. |
| 20 Marks | 20 Marks | 20 Marks |

The CIA for MPH 405-Research Dissertation will be conducted for the components mentioned below for 60 Marks.

The marks of the CIA will be communicated to the university at the end of the semester before the university exams. The marks awarded by a teacher in the internal evaluation shall be immediately communicated to the student.

Reassessment of Internal Marks –in case of those students who have secured less than passing percentage of marks in the internal evaluation, the College should administer a separate internal test for these 30 marks in the subsequent semester before the university examination. In this case, the internal assessment will be through written test only (70 Marks). The marks of all other components of the CIA (except midterm test) will be carried forward and included in this test. Hence, the internal assessment in this case will be for 100 marks, which will be converted into 30 marks.

Internal assessment will be treated as separate head of passing and without passing the internal examination; students will not be allowed to appear for university examination of that particular subject.

18.2- External/University Assessment.

The university assessment for theory subjects shall be based upon the written examination to be held at the end of each semester. The written examination will be conducted for 70 marks by the university. The schedule of the examination will be communicated by the university well in advance. All rules regarding passing or university examination will be as per university rules.

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19. Scheme of Examination.

The distribution of the marks as well as credits for all the courses under MPH will be as follows.

| Subject code | Title of Paper/ Practical | | Marks | | Credits |
|--------------|--|-----------|---------------------|-----------|---------|
| | | Internal | External | Total | |
| | SEMESTE | RI | | • | |
| MPH 101 | Introduction to Public Health | 30 | 70 | 100 | 4 |
| MPH 102 | Biostatistics | 30 | 70 | 100 | 4 |
| MPH 103 | Epidemiology | 30 | 70 | 100 | 4 |
| MPH 104 | Social and Behavioral Sciences | 30 | 70 | 100 | 4 |
| MPH 105 EL | Human Biology (Value Audit Foundation Course for non-medical students) | 50 | Intern | al Assess | ment |
| MPH 111 | Practical's based on MPH 101 to MPH 104 | 60 | 140 | 200 | 8 |
| | | | ks/Credits | 600 | 24 |
| | SEMESTEI | | 1 | I | 1 |
| MPH 201 | Communicable Diseases | 30 | 70 | 100 | 4 |
| MPH 202 | Non-communicable Diseases | 30 | 70 | 100 | 4 |
| MPH 203 | Population Sciences | 30 | 70 | 100 | 4 |
| MPH 204 | Research Methodology | 30 | 70 | 100 | 4 |
| MPH 211 | Practical's based on MPH 201 to MPH 204 | 60 | 140 | 200 | 8 |
| | | | ks/Credits | 600 | 24 |
| | SEMESTER | | 1 | 1 | |
| MPH 301 | Health policy, economics and financing | 30 | 70 | 100 | 4 |
| MPH 302 | Environmental Health & Sustainable Development | 30 | 70 | 100 | 4 |
| MPH 303 | Reproductive and Child Health | 30 | 70 | 100 | 4 |
| MPH 304 EL1 | Law, Ethics and Human Rights in Public Health | 30 | 70 | 100 | 4 |
| MPH 304 EL2 | Health Systems Management and Informatics | 30 | 70 | 100 | 4 |
| MPH 305 | Public Health Internship | - | 100 | 100 | 4 |
| MPH 311 | Practical's based on MPH 301 to MPH 304 | 60 | 140 | 200 | 8 |
| | | Total Mar | | | |
| | SEMESTER | RIV | | | |
| MPH 401 | Public Health Nutrition | 30 | 70 | 100 | 4 |
| MPH 402 | Occupational Health | 30 | 70 | 100 | 4 |
| MPH 403 EL1 | Global Health | 30 | 70 | 100 | 4 |
| MPH 403 EL2 | Rural and Tribal Health | 30 | 70 | 100 | 4 |
| MPH 404 | Research Dissertation | 60 | 140 | 200 | 8 |
| MPH 405 | Project design and Management (Value audit course) | 50 | Internal Assessment | | ment |
| MPH 411 | Practical's based on MPH 401 to MPH 403 | 60 | 140 | 200 | 8 |
| | | | | | |
| | Total marks/credits for | | | | |

The pattern of question paper will cover the entire syllabus. The theory paper will consist of SAQ and LAQ. However, the practical examination will cover the entire aspects of practical's, field postings, field visits and all other aspects which are not included in theory. Following is the subject wise details of examination scheme.

• Theory subjects carrying 70 marks for university examination will be assessed with following method (MPH 101, MPH 102, MPH 103, MPH 104, MPH 201, MPH 202, MPH 203, MPH 204, MPH 301, MPH 302, MPH 303, MPH 304, MPH 401, MPH 402, MPH 403)

| Que.1 | Short Answer Questions (SAQ)-Attempt any four. | | | 40 Marks |
|-------|--|---------------------------------|------------|----------|
| | А | Short Answer Question 1 | 10 Marks | |
| | В | Short Answer Question 2 | 10 Marks | |
| | С | Short Answer Question 3 | 10 Marks | |
| | D Short Answer Question 4 10 Marks | | 10 Marks | |
| | Е | Short Answer Question 5 | 10 Marks | |
| Que.2 | Long | g Answer Questions (LAQ)-Attemp | t any two. | 30 Marks |
| | А | Long Answer Question 1 | 15 Marks | |
| | В | Long Answer Question 2 | 15 Marks | |
| | С | Long Answer Question 3 | 15 Marks | |

The question paper should give equal weightage to all the topics in the course. The questions can be subdivided as per the demand of syllabus. The time allotted for the theory examination is 3 clock hours.

• Practical subjects carrying 140 marks for university examination will be assessed with following method (MPH 111, MPH 211, MPH 311, MPH 411)

| Que. 1 | Lab work/Experiment | | | 40 Marks |
|--------|---------------------|---------------------------------|----------|----------|
| | А | Experiment 1 | 20 Marks | |
| | В | Experiment 2 | 20 Marks | |
| Que. 2 | Exercise | /Scenario based questions (SBQ) | | 30 Marks |
| | А | Exercise/SBQ 1 | 15 Marks | |
| | В | Exercise/SBQ 2 | 15 Marks | |
| Que. 3 | Spots | | | 20 Marks |
| | | 5 spots * 4 Marks | 20 Marks | |
| Que. 4 | Viva voo | ce | | 40 Marks |
| Que. 5 | Journal | | | 10 Marks |

• The assessment of MPH 305-Public Health Internship and MPH-404-Research Dissertation for university examination will be as follows.

Following is the breakup of assessment pattern for MPH 305- Public Health Internship. There will be no internal assessment for MPH 305. The assessment of the Public Health Internship will be carried out in following manner.

PIMS (DU), Post Graduate Degree Programme in Master of Public Health-Syllabus, implemented from Academic Year 2021-2022

| SN | | Head of assessment | Marks |
|----|----------------|--------------------|-------|
| 1 | Report writing | | 50 |
| 2 | Viva voce | | 50 |

Following is the breakup of assessment pattern for MPH 404- Research Dissertation

| SN | Head of assessment | Marks |
|----|---|-------|
| 1 | Dissertation writing | 100 |
| А | Literature Review | 10 |
| В | Research Methodology | 30 |
| С | Results and Discussion | 40 |
| D | Field Application of the research topic | 20 |
| 2 | Viva voce | 40 |

All components of this assessment will be evaluated by the examiners appointed by the university during the exam.

20. Rule of passing.

The student will be declared as pass only when s/he scores minimum 50 % marks in internal as well as external examination. This rule is applicable to university subjects.

21. Promotion of student to next semester/year.

Students are permitted to carry-over all failed courses from first to second semester and from third to fourth semester. However, in order to get promoted to second year, students have to pass not less than eight theory/practical subjects. Students can keep the term for not more than two subjects while entering in the third semester (i.e. second year).

If the student does not clear the arrears at the end of second semester, s/he will take a break and reappear for the university assessments in the failed subjects in the subsequent semester and after passing s/he can enter in the second year of the course in next academic year.

22. Fees and payments.

The students have to pay the yearly tuition fee at the start of respective academic year in order to undertake the program. The fee structure will be decided by the university and will be revised / updated from time to time as and when it is necessary. The fee structure decided by the university at the time of entry of student in the program will remain same unless s/he completes the program. However, if the students fail to qualify to enter in second year, s/he still has to pay the entire tuition fee of the second year. The tuition fee will be collected for not more than two academic years from the students.

The other fees/charges during the academic program will be Field visit expenditure, caution money, ERP Software, Insurance, Blazer, Eligibility, Registration, examination fee etc.

23. Maximum Duration for completion of the Programme

The candidate shall complete the MPH Programme within maximum period of four academic years from the date of admission. The student will be finally declared as failed if s\he does not pass in all subjects within a total period of five years. After that, such students will have to seek fresh admission as per the admission rules prevailing at that time.

24. Grade/class Improvement

A Candidate, who has passed the MPH programme and desires to avail the Grade/class Improvement facility, may apply under Grade Improvement Scheme within five years from passing that Examination. S/he can avail not more than three attempts, according to the syllabus in existence, for grade improvement. S/he shall appear for University Evaluation of at least 3 Subjects for the purpose of Grade Improvement. However, if the candidate fails to improve the grade/class, the marks in the previous exam will be considered as final.

PIMS (DU), Post Graduate Degree Programme in Master of Public Health-Syllabus, implemented from Academic Year 2021-2022

| | SEMESTER I | | |
|---|--|---------------------------------------|-------------------|
| Course title | INTRODUCTION TO PUBLIC HEALTH | Course Code | MPH 101 |
| Course duration | August to December | Course type | Core |
| | Course Objective | | |
| | introduce students to the field of public h | | |
| • To | give an overview of the determinants and | l measures of health | |
| • To | impart knowledge about status of health | and disease: global a | nd national |
| | Course Content | | |
| Introductio | | | |
| | finition | | |
| | olution of Public & Community Health | | |
| 8 | nificance | | |
| | pe and application of public health. blic health versus Medical care | | |
| | allenges of Public health | | |
| | pulation Medicine | | |
| Por Health and | | | |
| | anging concept of health | | |
| | nensions of Health | | |
| | terminants of health. | | |
| | licators of Health | | |
| | ncept of disease and causation and natura | l history of disease. | |
| | ncept of prevention and control | , , , , , , , , , , , , , , , , , , , | |
| | ernational Classification of Diseases (ICD | 10/11) | |
| | s to Public Health – | , , | |
| | olic health models in high (US, UK), mic | ddle (China, India) a | nd low (Ethopia, |
| | nbabwe). | | , I |
| o Mo | rbidity pattern & Epidemiological trans | ition in high, middle | e and low income |
| cou | intries with special reference to India. | | |
| | of Health delivery system in India- | | |
| o Lev | vels of Health Care | | |
| | olic Health care delivery system - Sub | center, PHC, CHC | , Rural hospitals |
| | trict hospitals and tertiary care hospitals. | | |
| | es and responsibilities of key public | | - ASHA, AWW |
| | khya Sevika, CDPO, BDO, DHO &TMO, | CEO ZP. | |
| 0 | on of Public health system | | |
| | vernment systems in UK, USA, Germany, | , India, UAE | |
| | er sectors in public health- | (1· · · · · | |
| | vate health sector, Indigenous system | m of medicine, N | on-Governmenta |
| | ganization/Voluntary Organization | | |
| | nd International public health institution | | O CDC LINIEDA |
| | MR, NIHFW, PHFI, NIN, NACO, WHO, I | ILO, World bank, FA | O, CDC, UNFPA |
| | IICEF, UNESCO, United Nations | | |
| | y Diagnosis & Needs Assessment- thods and approaches-Bottom up approa | ch | |
| | mmunity perception and priorities on hea | | |
| • Con Practical's | minumy perception and priorities of field | וווו מות נוזכמזכ. | |
| | SC/PHC/RH | | |
| | Private/NGO hospital. | | |
| | Civil Hospital/THO/DHO to study role | and functions. | |
| | ign a public health model to address pub | | |
| | ess various communities need by family | | ıdent) |

| | SEMESTER I | | |
|-----------------|--|------------------------|-------------------|
| Course title | BIOSTATASTICS | Course Code | MPH 102 |
| Course duration | August to December | Course type | Core |
| course duration | Course Objective | course type | Core |
| • T | | a in public boolth | |
| | o introduce students to the use of bio-statistic | - | |
| | o train students in presentation and interpret | | • • 1 |
| | o train the students in application of statistic | al knowledge in de | signing research |
| St | rudies. | | |
| • Introduct | Course Content ion to Biostatistics | | |
| | Definition and Scope | | |
| | ole and Applications | | |
| | dvantages and Limitations of statistics in | human hialagu | and health care |
| | elivery | i numan biology a | ind nearth care |
| | envery | | |
| • Data | unas of Data Sources & Sustams of Riostatisti | | |
| | ypes of Data, Sources & Systems of Biostatisti follection and organization of data & Scales o | | lethode Svetome |
| | : Tools | i Measurement – M | lethous, systems |
| | lassification & Presentation of Medical & Hea | alth Data -Tabular & | Graphical |
| | ve Statistics | | , Graphicai |
| _ | leasures of Central Tendency | | |
| | leasures of location | | |
| | leasures of Variability | | |
| | Coefficient of variation | | |
| | Iormal Distribution & Normal Curve | | |
| | ty & inductive Statistics | | |
| | Definition | | |
| | cope & Applications in Public Health and Me | dical Sciences | |
| | tandard Error of Mean, Proportion, Differ | | means & two |
| | roportions | | |
| _ | nd Sampling Methods | | |
| | echniques & Sample Size | | |
| | ampling distributions – Concept & Applicatio | ons | |
| | al Statistics | | |
| | oncept and applications | | |
| | stimating population values | | |
| | tatistical significance of a difference | | |
| | ests of Significance - Concept and applicati | ons of Parametric | Tests: Z test, X2 |
| | est, t-test, F- test, ANOVA | | |
| • C | oncept and applications of Non-parametric T | ests | |
| | ssociation & Correlation – Concept, Types an | | |
| | egression - Concept, Types and Applications | | |
| | ital and Hospital Statistics | | |
| | Practical's | | |
| 1. To study | the data management and its applications usi | ng Microsoft excel. | |
| | ledical Record department of tertiary hospital | l to study hospital st | atistics. |
| - | ze calculation using computer software's. | | |
| 4. To design | a sampling technique, tool and collect the da | ta from field survey | 7 |

| Course | e title | EPIDEMIOLOGY | Course Code | MPH 103 |
|--------|------------|--|--------------------------|-------------------|
| Course | duration | August to December | Course type | Core |
| | | Course Objective | | |
| • | To familia | rize students on concepts and use of e | pidemiology, methods | to measure and |
| | | ealth of populations and risk measureme | | |
| • | | student capable to discuss and deve | | perspectives to |
| | | ealth related events and disease | | |
| | | Course Content | | |
| • | Introducti | on | | |
| | o De | efinition, History, Aims, Basic principles | | |
| • | Measurem | nent of morbidity- | | |
| | o In | cidence, cumulative incidence, incidence | e density. | |
| | o Pr | evalence: point prevalence, period preva | alence | |
| • | Disease b | urden : | | |
| | o Qt | uality of life, survival rate, life table, YPL | L | |
| • | Measuren | nent of mortality- | | |
| | • M | ortality rates, | | |
| | • C1 | rude rate (Birth and death) | | |
| | o Fe | rtility rates, case fatality rates | | |
| | | ause specific mortality rates | | |
| | | oportion mortality rate | | |
| | | fant mortality rates | | |
| | | aternal mortality rate | | |
| | | eonatal mortality rates | | |
| | | ther mortality rates | | |
| • | - | logical methods | | |
| | | escriptive Epidemiology | | |
| | | nalytical Epidemiology | | |
| | | perimental Epidemiology | | |
| • | | n and causation | | |
| • | | disease epidemiology | | |
| • | - | of diseases urveillance | | |
| • | | | | |
| • | - | investigations | | |
| • | | of Social epidemiology | 8- Mothoda | |
| | | efinition, History, Aims, Basic principles E pidemiology | a memous | |
| | 0365 01 1 | Practical's | | |
| 1. | Calculatio | ns based on mortality rates | | |
| 2. | | ns based on Morbidity | | |
| 3. | | ns based on screening of diseases. | | |
| 4. | | ns based on odds ratio, relative risk, a | ttributable risk. popula | tion attributable |
| | risk. | , | · · · · | · · · · · |
| 5. | | ns based on five year survival, attack rat | e, case fatality rate. | |
| 6. | | t disease surveillance in the community. | • | |

| | SEMESTER I | | |
|--------------------|--|-------------------------|--------------------|
| ourse title | SOCIAL AND BEHAVIORAL | Course Code | MPH 104 |
| a | SCIENCE | Course loss a | Carra |
| ourse duration | August to December | Course type | Core |
| — • • • • • | Course Objective | 1 1 | |
| - | he knowledge to identify, critically revie | | of behavioral an |
| | ces, concepts, theories and models in pub | - | |
| | students to identify, discuss social and l | behavioral factors that | at influence healt |
| 0 | avior and health disparities | | |
| | and analyze the social, cultural and beh | navioral factors assoc | iated with health |
| illness | | | |
| Life Case I | Course Content | | |
| - | Developmental Psychology | | |
| | gnitive development rcho Social development | | |
| 5 | L. | | |
| 5 | chosexual development | | |
| | ral and Ethical development erarchy of need | | |
| | velopmental tasks of adulthood and old a | 200 | |
| Social Psyc | - | uge | |
| - | ial thinking- Self in the social world, soc | cial belief and judgm | ent behavior an |
| | tude. | end bener und judgin | ent, benavior un |
| | ial influences-Culture and gender, confo | rmity, group influend | ce |
| | ial relationship- Prejudices / discrimi | | |
| | flicts and conflict resolution, supporting | • - | • |
| Health Psy | | | - |
| o Intr | roduction | | |
| o Hea | alth behavior | | |
| o Fac | tors predicting health behavior | | |
| | eories of health behavior | | |
| o Mo | difying and enhancing health behavior | | |
| | n, Education and Communication (IEC) | | |
| | alth Education-Principle and practice, ap | | |
| | alth Communication-Theories, Models an | nd Contents | |
| | ssage framing. | | |
| | riers of communication | | |
| Health Cou | | | |
| | roduction | nt of counceles | |
| | erpersonal and intrapersonal development | | |
| | eories, types, and techniques of counselin | ıg | |
| | idance and counseling chotherapy-Behavior therapy, Cognit | tive behavior there | any Multimod |
| | rapy, Psychoanalysis | | ry, wuunnou |
| | Practical's | | |
| 1. To conduct | the counseling sessions | | |
| 2. To design a | nd develop IEC material | | |

3. To design and develop a health education program.

| Course title | HUMAN BIOLOGY | Course Code | MPH 105E | | | |
|--------------------------------------|------------------------------|-------------------|----------------------------------|--|--|--|
| Course duration | August to December | Course type | Elective (Value Audit course) | | | |
| | Course | e Objective | | | | |
| To provide a | n understanding about the | structure and fur | nction of the human body | | | |
| | Cours | e Content | | | | |
| Human Ana | - | | | | | |
| | 5 | | | | | |
| | ted medical terminology | 1. | | | | |
| o Struc | cture and function of organ | • | ulatory and lymphatic, Musculo | | | |
| - | skeletal, Nervous, Rep | • | ulatory and lymphatic, Musculo- | | | |
| • Human Bioc | - | louucuve | | | | |
| | • | n Biochemist | ry and Related medical | | | |
| | ninology | | iy and neutra meater | | | |
| | 01 | mistry of co | rhahudratas fata protaina | | | |
| | | • | rbohydrates, fats, proteins | | | |
| | mins, and minerals in | | | | | |
| | | 0 | s -Role, Importance and | | | |
| | lication in Public Heal | th. | | | | |
| Human Phys | | | | | | |
| | duction to Human physiol | 01 | | | | |
| | | rdiovascular, GL | Г, Reproductive and Circulatory | | | |
| syste Human Mici | | | | | | |
| | duction to human microbi | ology | | | | |
| | ted medical terminology | lology | | | | |
| | lization, Disinfection | | | | | |
| • Mor | ohology of Bacteria and V | Virus (TB, Lepros | sy, Malaria, Typhoid, HIV, Hool | | | |
| worr | n, Round worm, Hepatitis, | , Polio) | | | | |
| | Principles & concepts of I | 0, | | | | |
| | | vestigations -Rol | e, Importance and application ir | | | |
| | ic Health | | | | | |
| Human Path | | ~~~ | | | | |
| | duction to human patholo | 0. | Importance and application ir | | | |
| | ic Health | suganons -Role, | importance and application if | | | |
| | | ictical's | | | | |
| 1. Visit to C | Clinical Biochemical labora | | | | | |
| | Clinical Microbiology labor | 2 | | | | |
| | Clinical Pathology laborato | | | | | |
| 4. Visit to s | tudy the Central Sterilizati | on Department. | | | | |

SEMESTER I

| Course title | Practical's based on MPH 101 to MPH 104 | Course Code | MPH 111 | | | |
|---|---|-------------|---------|--|--|--|
| Course duration | Course duration August to December | | Core | | | |
| | Course Objective | | | | | |
| • To impart the practical training in the students through demonstration, field visit, field survey and field studies. | | | | | | |
| Course Content | | | | | | |
| • The content of this course will be as per the practical's and field visits mentioned at the end of each course of semester I. | | | | | | |

SEMESTER I

| Course title | | COMMUNICABLE DISEASES | Course Code | MPH 201 | |
|--------------|---|--|------------------------|----------------|--|
| Course durat | ion | January to June | Course type | Core | |
| | | Course Objective | | | |
| • To pr | ovide an c | overview of infectious diseases of pub | olic health importance |) | |
| • To ur | nderstand | the pathology, pathogenesis, clinical | manifestation, mode | of transmissio | |
| preve | ntion and | control of diseases of bacterial and v | iral etiology | | |
| • To or | ient stude | nts about the national disease control | programmes | | |
| | | Course Content | | | |
| • Over | view of ep | oidemiology of communicable disea | ses. | | |
| • Respi | iratory dis | eases | | | |
| 0 | | | | | |
| 0 | ARI-Inf | luenza-Swine flue | | | |
| 0 | | s, Mumps, Rubella | | | |
| 0 | Ebola | | | | |
| 0 | - | ox, Chicken pox | | | |
| • Intest | tinal Disea | | | | |
| 0 | | bea, Food poisoning | | | |
| 0 | Typhoi | d | | | |
| 0 | Polio | | | | |
| 0 | Hepatit | | | | |
| 0 | | infestations | | | |
| | o r borne Ir Malaria | | | | |
| 0 | | | | | |
| 0 | 0 | atic, Filariasis | | | |
| 0 | Zika vi | | | | |
| 0 | | gunya fever | | | |
| 0 | | se encephalitis | | | |
| • Zoon | · - | e enceptantis | | | |
| 0 | Leptosp | pirosis | | | |
| 0 | Plague | | | | |
| 0 | Rabies | | | | |
| Conta | act : | | | | |
| 0 | STDs, A | AIDS | | | |
| 0 | Tetanus | 5 | | | |
| 0 | Leprosy | Į | | | |
| • Emer | ging & re- | emerging diseases | | | |
| • Hosp | ital acqui | red infections | | | |
| • Recen | nt global e | pidemic diseases | | | |
| | | Practical's | | | |
| 1. Arthr | opods of p | public health importance (Identificati | on and control) | | |
| 2. Intera | Interaction with hospital acquired infection control committee | | | | |
| 3. Vacci | Vaccine (BCG, OPV, IPV, Measles, Rabies, TT, DPT, Pentavalent, Hepatitis) | | | | |
| | chain Mar | 0 | | | |
| 5. Exerc | ises on -A | nnual parasitic index, ABER, SPR, Fil | larial Index, Chandler | 's Index. | |

| Course title | NON-COMMUNICA | ABLE DISEASES | Course Code | MPH 202 |
|--------------------------------|---|-----------------------|--------------------|--------------------|
| Course duration | January to | o June | Course type | Core |
| | Cor | urse Objective | | |
| To give an | understanding of the pa | thophysiology of s | some common NCE | Ds. Classification |
| biochemist | ry, clinical manifestation | s, diagnosis and, tr | eatment. | |
| To unders | tand the risk factors for | common NCDs, a | nd methods of dis | ease control and |
| health prop | notion | | | |
| • To give a | n understanding of the | e pathophysiology | of some common | n mental health |
| problems | | | | |
| | Co | ourse Content | | |
| Overview | and introduction to NCI | Ds | | |
| o Ep | idemiology of NCDs, | | | |
| o Ris | sk factors | | | |
| o Pr | evention and managemer | nt: general strategie | es | |
| Some imp | ortant NCDs and related | national health pr | rograms: | |
| | ncer | | | |
| o CH | | | | |
| | pertension | | | |
| | eumatic heart diseases | | | |
| | abetes | | | |
| | ndness | | | |
| | pesity | | | |
| • R1 | | | | |
| | enetic diseases | | | |
| Mental He | | | | |
| | oncept of Mental Health Irden of Mental diseases | | | |
| | assification-Depression, | Schizophropia | Alzheimer's, Parl | kinson's, Senile |
| | mentia, Suicides | Schizophienia, | Alzhenner 5, 1 dif | sinson s, benno |
| | inical manifestations | | | |
| | agnosis and treatment an | d prevention | | |
| | ervention and support se | 1 | | |
| | ational Mental Health Pro | | | |
| | bstance Abuse-Tobacco, A | 0 | | |
| • Oral healt | | | | |
| | ental Caries, Periodontal c | liseases | | |
| | ngivitis, Fluorosis | | | |
| | ecancerous leisons and | conditons (Liche | n Planus, Leukop | lakia, Oral sul |
| m | ucous fibrosis, Candidiasi | is) | | |
| | | Practical's | | |
| 1. Visit to Ca | ncer registry. | | | |
| 2. Visit to de- | addiction center. | | | |
| | entally challenged school. | | | |
| | betes registry. | | | |
| 5. Visit to der | ntal hospital to study oral | health diseases. | | |

| | | POPULATION SCIENCES | Course Code | MPH 203 |
|----|---------------------|---|------------------------|--------------------|
| | duration | January to June | Course type | Core |
| | | Course Objective | | |
| • | | ze students on the fundamentals of populati | | ks with |
| ٠ | | ly planning, population policies and program | | |
| ٠ | | students in using demographic tools in und | | |
| • | To train the | students in application of various demogra | phic methods in publi | c health study. |
| | Tata 1. d'a | Course Content | | |
| • | Introduction | n initions | | |
| | | | | |
| | | pe and nature torical review | | |
| | | nographic transition | | |
| | | nographic dividend-Concept, scope and app | plications | |
| • | | ic Data Collection | plications. | |
| • | | nary and Secondary sources of data collection | 0 n | |
| | | cedures | 011 | |
| | o Use | | | |
| | | engths and weakness of census | | |
| | | al statistics | | |
| | | pple survey, Duel reporting system – SRS | | |
| | | a from national health program/disease | surveillance, hospita | l statistics, poli |
| | | ords, remand homes etc. | · 1 | · 1 |
| • | | composition | | |
| | | composition and factors affecting sex comp | osition | |
| | | e structure and Population pyramids, Impa | | phic processes |
| | | age structure. | U | |
| | o Cor | nparison - developed and developing count | tries. | |
| • | Fertility | | | |
| | o Det | erminants: Social, economic, political, | | |
| | | ural fertility levels and trends in India and v | world, | |
| | | asures of fertility | | |
| | 1 | pact of level of fertility on reproductive heal | th, | |
| | | icies about fertility control. | | |
| ٠ | Mortality | | | |
| | | asures of mortality | | |
| | | ises of Death: epidemiological perspective, | | |
| | | nds of Mortality in India, | | |
| | | erentials in mortality in developed and dev | eloping countries. | |
| • | • | nd urbanization: | | |
| | | neral terms and concepts | Differential migrati | an Internation |
| | | ernal migration, Measures of migration, | Differential migrati | ion, internation |
| | - | ration, Migration in India. | | |
| • | | an challenge of health and environment. Growth and Problems | | |
| • | - | | | |
| | - | pulation growth | | |
| | | al-urban distribution of growth pattern pulation growth and related problems. | | |
| | • Pop Population | | | |
| • | - | roncy alth planning in terms of Family planning, H | Jealth services with n | rocesses |
| | | cies and programs influencing demograp | | |
| | | vulation. | ine processes in the | |
| | pot | Practical's | | |
| 1. | Calculation | of fertility and mortality rates | | |
| 2. | | ict census office | | |
| 3. | | demographic survey | | |

- To conduct demographic survey
 Exercises on population trends and growth.

| | SEMESTER II | | | | |
|----------------|---|-------------------------|----------------|--|--|
| ourse title | RESEARCH METHODOLOGY | Course Code | MPH 204 | | |
| ourse duration | January to June | Course type | Core | | |
| | Course Objective | | | | |
| | roduce students to research methods | | | | |
| | in students in appropriate selection of metl | | | | |
| • To tra | in the students in writing the research prop | posals. | | | |
| Introduct | Course Content | | | | |
| | efinition, Uses, Characteristics, Objectives, | Motivation Pre-rear | icitos | | |
| | lajor areas of health systems research | wouvation, i re-requ | 1151105 | | |
| | roblems encountered by researchers | | | | |
| | ypes of Research & Scientific Foundations of | of Research | | | |
| 5 | Methodology and process | | | | |
| | lethods and Process/ Cycle | | | | |
| | lentification and Prioritization of Research | Problems / Areas | | | |
| | iterature Search | | | | |
| | ormulation of Objectives, Research Questio | | | | |
| | anning the Measurements, Scales of Measu | irements | | | |
| | sign Options-Quantitative Research | | | | |
| | troduction, concepts, decision algorithm f | | | | |
| | as and Confounding, Basic Risk Measurem | | | | |
| | xploratory, Descriptive (cross-section | 1 0 | , , | | |
| | bservational (case-control & cohort), Prosp iagnostic/experimental/ interventional d | | | | |
| | asi experimental studies (randomization, | | - | | |
| - | BD, Latin square, Factorial | | | | |
| | ve Research | | | | |
| | oncepts, Purpose, Methods | | | | |
| | lassification of research procedures/technic | ques and Variables | | | |
| o St | atistical tools and measurements in researc | 'n | | | |
| | Types of variables, Scale of mea | | | | |
| | Techniques, Tools/instruments, Dat | a editing & data grou | ıping | | |
| Data Coll | | | | | |
| | ampling methods/techniques | | | | |
| | etermination of Sample Size | Cuideo en d Chillo | | | |
| | esigning research instruments, Interview G | Juides and Skills | | | |
| | ysis and Management nalysis of Quantitative Data – Descriptive a | and informatial statist | ice | | |
| | nalysis of Qualitative Data – Descriptive a | and interential statist | .105 | | |
| | ata Management | | | | |
| | sues & Aspects of Health Research | | | | |
| | ion of a Research Proposal | | | | |
| | f thesis and Research Articles | | | | |
| 3 | Practical's | | | | |
| 1. To develo | p a research proposal | | | | |
| 2. Critical ap | | | | | |
| | Application of statistical software's in data management and analysis - e.g. SPSS | | | | |
| | et the Focus Group Discussion (FGD) | | | | |
| | ct in depth interview (IDI) | 1 1 5 | | | |
| - | PRA technique (Venn diagram, seasonal o | calendars, Resource i | mapping, Incoi | | |
| AT OVDODA | iture matrix etc) | | | | |

- & expenditure matrix etc).
- 7. To study review of literature (online and offline sources of literature)

| SEMESTER II | | | | | |
|--|------------------|-------------|------|--|--|
| Course title Practical's based on MPH 201 to MPH 204 Course Code MPI | | | | | |
| Course duration | January to June | Course type | Core | | |
| | Course Objective | | | | |
| • To impart the practical training in the students through demonstration, field visit, field survey and field studies. | | | | | |
| Course Content | | | | | |
| • The content of this course will be as per the practical's and field visits mentioned at the end of each course of semester II. | | | | | |

PIMS (DU), Post Graduate Degree Programme in Master of Public Health-Syllabus, implemented from Academic Year 2021-2022

| ourse title | | HEALTH POLICY, ECONOMICS AND FINANCING | Course Code | MPH 301 |
|-------------|-------------|---|------------------------|---------|
| | duration | July to December Course Objective | Course type | Core |
| • | To train t | he students in health policy issues pertaining to | public health. | |
| • | | the students to international health policies. | 1 | |
| • | | ne basic introduction to health economics and fi | nancing in health care | |
| | 0 | Course Content | Q | |
| • | Health P | Policy | | |
| | o (| Dverview of health policies | | |
| | οI | Health policy | | |
| | οI | Research policy | | |
| | 0 I | Nomen policy | | |
| | | Child policy | | |
| | | Drug policy | | |
| • | | evelopment | | |
| | | Need Assessment | | |
| | | Policy Development | | |
| | | Policy Implementation | | |
| | | Policy Evaluation, SWOT analysis | | |
| • | | onal Health Policies | | |
| | | Alma Atta and Primary Health Care | | |
| | | Millennium Development Goals (MDG's) | | |
| _ | | Sustainable Development Goal (SDG's) | | |
| • | | re Legislation in India: | | |
| | | Medical Termination of Pregnancy Act, | | |
| | | The maternity benefit act, | | |
| | | The immoral traffic (prevention) act The transplantation of human organs act | | |
| | | CPNDT Act | | |
| | | The registration of birth and Death act | | |
| | | The child labor (prohibition and regulation) act | | |
| | | COPRA Act | | |
| | | Disability Act. | | |
| • | Health M | 5 | | |
| | | National Rural Health Mission (NRHM) | | |
| | | National Urban Health Mission (NUHM) | | |
| | | National Health Mission (NHM) | | |
| • | Health E | | | |
| | οI | Health economics | | |
| | | Budgeting techniques | | |
| | 0 I | nvestment in Health Care & Public health | | |
| | 0 I | National income-GDP, GNP and NNP | | |
| ٠ | Health Fi | inancing | | |
| | | Financing of Health Care – Public, Private & Con | nmunity/Individual | |
| | | Resource allocation | | |
| | | Health Insurance Schemes, community health in | | |
| | 0 I | Development Partners in Public health, Public P | rivate Partnership (PP | P) |
| | | Practical's | | |
| 1. | | the implementation of PCPNDT act. | | |
| 2. | | the implementation of MTP act. | | |
| 3. | Visit to st | udy the PPP model. | | |

| | SEMESTER III | | |
|---|--|--------------------------|----------------------|
| Course title | ENVIRONMENTAL HEALTH & SUSTAINABLE DEVELOPMENT | Course Code | MPH 302 |
| | July to December Course Objective | Course type | Core |
| • To train th | e students in the basic concepts of environme | ntal health sciences and | l kev environment |
| health issu | - | | 2 |
| | the knowledge of disaster management, Enviro | | pact assessment. |
| To study the study th | ne role of sustainable development in Public he | ealth. | |
| ENVIRONMENTA | L HEALTH | | |
| | pt and Scope of Environmental Health- | | |
| | efinition | | |
| | ypes of environment in context to public health | 1 | |
| | ental Pollution | deen/Ortheen) Weter | Nation Caliderate |
| | purces, Impacts and control measures of Air (In comedical waste pollution. | ndoor/Outdoor), Water | , Noise, Solid Wast |
| | ent & Environmental issues | | |
| | nvironmental Ethics, Global Warming, Climate | e Change | |
| | zone Depletion, Acid Rain | 0 | |
| Eco-friend | ly environmental practices | | |
| | Vaste management | | |
| | nergy practices | | |
| | griculture Practices. | | |
| | Management efinition, Types and management. | | |
| | ent & Health Impact Assessment- | | |
| | oncept, Steps and application | | |
| SUSTAINABLE DI | | | |
| Developm | | | |
| | pt, Definition & Theories (Modernization, | structuralism, depend | lency, basic need |
| | ssical, sustainable, human development) | | |
| | enges of present development models and three | atened future, | |
| | pproaches to environment & development le Development | | |
| | oncept and Definition | | |
| | rinciple and Models | | |
| | Concerns of Sustainable Development | | |
| | evelopment & environment – dichotomy | | |
| | nvironmental priorities for development | | |
| | quity and common interest, strategic imperativ | | |
| | ole of international economy, markets, governi | nents and the environm | nent |
| | Challenges of Sustainable Development opulation perspectives and human resources | | |
| | ood Security, Sustainable Agriculture, | | |
| | pecies and ecosystems (resources for developm | ient), | |
| | nergy, Economy & Environment (Sanitation, C | | |
| | dustrial growth and its impact, | | |
| | rban development, Rural environmental polici | es and issues, | |
| | Endeavours of Sustainable Development | | at Tastit (1 1 |
| | lanaging the Commons, Peace, Security, deve gal changes, Participatory, Planning and Comm | | nt, Institutional ar |
| le | gal changes, Participatory Planning and Comn Practical's | | |
| 1. To stu | dy the Water quality analysis | | |
| | dy the Ecofriendly practices | | |
| | ation of Cl demand of water | | |
| | o Incinerator for BMW | | |
| | o Water treatment plant | | |
| 6. Visit t | o waste water treatment plant | | |
| | o swimming pool and market sanitation. | | |

| ourse | SEMES: title | FER III | REPROD | UCTIVE ANE HEALTH | CHILD | Course Code | MPH 303 |
|-------|-----------------|------------|----------------|--------------------------|------------------|---|-------------------|
| | | L | Jul | y to Decembe | | Course type | Core |
| • | To impa | rt the kn | owledge to i | Course (dentify wome | | ies that affect wom | en throughout th |
| | | | | | | otion and disease p | |
| • | Student | s should | learn abou | t factors affect | ting the heal | th of mother and | child, the exist |
| | services | for moth | ner and child | | | | |
| | T (1 | | | Course | Content | | |
| • | Introdu | | Commente | TT: 0 | | U | |
| | 0 | | | | | H policy, FP policy, MNCI, RCH I & R | |
| | 0 | | URHM, NH | 0 | programs – n | WINCI, KCITT& K | CIT II, KIVIINCIT |
| • | Conder | and Hea | | 101 | | | |
| • | 0 | | | ociety, Equity | and Equality | | |
| | 0 | | | | | s (reproductive hea | alth matters) |
| | 0 | | le approach | | J | | , |
| | 0 | 2 | | nework, gende | er issues in dif | ferent disease cond | litions. |
| • | Materna | al Health | - | U | | | |
| | 0 | | | | | l care, Post-natal ca | |
| | 0 | | 1 | 2 | 0 | uses significance an | nd prevention |
| | 0 | | | d of problem i | | | |
| | 0 | | | | | insafe abortion | |
| • | | | | f public healt | - | | 1 1 |
| | 0 | | | | | ogy, screening an | |
| | | | | | | f RTI's/STI's, HIV | -AIDS, counsell |
| | 0 | | | , Infection Pre | | of HIV/AIDS, Sci | rooning diagno |
| | 0 | | | | | ns for High Risk | |
| | | | | | | 1 perspectives; th | |
| | | | ance and con | | | I - I , - , | |
| | 0 | Cancer- | Cervical and | Breast cancer | and related n | ational health prog | grams. |
| • | Child a | nd Adole | escent Health | n: Growth and | l developmen | t | |
| | 0 | | | | | cal measurements | |
| | | | | | | Behavioral develop | |
| | | | | | | e, Infant mortality- | magnitude, caus |
| | | | | ventive and so | | | |
| | 0 | | | | | fare program, ICI zation schedule, N | |
| | | children | | ve bleast leet | ing, minun | zation schedule, 1 | vational policy |
| • | Family | Life Edu | | | | | |
| | 0 | | | tion-adolescer | ce, pubescen | ce, Stages of deve | elopment and th |
| | - | | | | | and care in illness. | |
| | 0 | | | | 1 | dolescent boys, ad | dolescence frien |
| | | health s | services, Phy | sical, mental | and social, | School health, FL | LE Act, emerger |
| | | | eption, youth | | | | |
| ٠ | - | | | | vorks with sp | pecial reference to | Quality of Fam |
| | | | CH/RCH Se | | | | |
| • | Male pa | irticipati | on in Wome | n's health/RC | H | | |
| | Colorit | tion of D | CUlociation | Pract | ical s | | |
| • | | | CH logistics | dications aids | offects and f | ailure rates of com | tom connor T |
| • | 0 | eptive pil | | uications, side | enects and I | ailure rates of conc | ioni, copper 1, C |
| • | | | traceptive fai | lure rate | | | |
| • | | | - | family plannir | ησ | | |
| - | | | | nemes at PHC. | 0 | | |

• To study JSY, RMNCH+A schemes at PHC.

SEMESTER II

| Course title | | LAW, ETHICS AND HUMAN RIGHTS IN PUBLIC HEALTH | Course Code | MPH 304 EL | | | |
|--------------|--|--|-----------------------|-----------------|--|--|--|
| | luration | July to December | Course type | Elective | | | |
| | | Course Objective | | | | | |
| • (| Gain an ovei | rview of public health ethics as a distinct | t field within health | ethics | | | |
| • I | Demonstrate | e ethics and accountability at all levels (p | professional, persona | al and social) | | | |
| • 1 | Practice prof | fessional excellence, scientific attitude ar | nd scholarship | | | | |
| | | Course Content | | | | | |
| • 1 | Public Healt | h laws and ethics | | | | | |
| • I | Human righ | ts in public health | | | | | |
| • 1 | Role of gove | ernments in managing health of people | | | | | |
| • I | Public health | h regulations in Indian context | | | | | |
| • I | Public health | h information and privacy | | | | | |
| • I | Research eth | nics in public health | | | | | |
| • I | Regulations | during emergencies and outbreaks | | | | | |
| • 4 | Addressing | newer challenges: Bioterrorism, conflicts | and emerging infe | ctious diseases | | | |
| • 1 | Public Healt | h laws in global economy | | | | | |
| • (| Global healt | h hazards and security | | | | | |
| • I | Different for | rms of power, influential to policy makin | ng | | | | |
| • (| Concept of g | governance and institutions | | | | | |
| • I | Different the | eories useful in policy analysis | | | | | |
| | Political nature of evidence for policy making in health | | | | | | |
| • 1 | Political natu | ure of evidence for policy making in hea | lth | | | | |

| | SEMESTER III | | |
|--------------------|--|--------------------|-------------|
| Course title | HEALTH SYSTEMS MANAGEMENT AND | Course Code | MPH 304 |
| | INFORMATICS | | EL |
| Course duration | July to December | Course type | Elective |
| | Course Objective | | |
| • To understa | nd various health systems and health care provide | ers | |
| • To develop, | implement and monitor various public health pro | grams | |
| To understa | nd health planning and management. | | |
| • To study the | principals and components of health informatics | and MIS | |
| | Course Content | | |
| Iealth Systems Dev | - | | |
| Introduction | | Chata and Diata | |
| | oduction to various Health System Models- Centro Ith services philosophies. | e, State and Distr | ict ievei |
| | Ith care committees. | | |
| | grated health care delivery-Preventive, Promotive | . curative & reha | bilitative. |
| | an Public Health Standards (IPHS). | , caraare a rena | |
| • Levels of he | | | |
| o Prin | nary, Secondary & Tertiary. | | |
| o Prin | cipal of Primary Health Care. | | |
| o Dec | entralized health care delivery system. | | |
| o Sust | ainable, Grassroots & Comprehensive Health Mo | dels. | |
| • Health care | providers | | |
| | ernment, Private, Voluntary/NGO, Indigenous. | | |
| | systems of medicine (AYUSH) | | |
| Health Sector | | | |
| Health Planning an | - | | |
| | h planning and management techniques. tion and evaluation of health planning. | | |
| - | n Behavior and Design. | | |
| Resource M | C | | |
| | n, Material and Money | | |
| | arance and Quality certification of health system | S | |
| · · | NABH, NABL | | |
| Health Informatics | | | |
| Introduction | n to Health informatics | | |
| | ciples of public health informatics | | |
| | nponents of public health informatics | | |
| | ealth and m-health | | |
| | -health and telemedicine | | |
| • Managemer | nt Information and Evaluation System | | |
| 1. Visit to e-he | Practical's | | |
| | S of health care facility | | |
| 2 | BH/NABL accredited hospital/laboratory. | | |
| 4. Visit to PRI. | , | | |

| | | SEI | MESTER III | | |
|-------------|---------------|------------------------------|------------------|-----------------------|-------------------|
| Course tit | le | PUBLIC HEALTH IN | TERNSHIP | Course Code | MPH 305 |
| Course du | ration | July to Decem | ıber | Course type | Core |
| | | Course | e Objective | | |
| | - | he opportunity to the stu | idents to stud | y the functioning o | f public health a |
| 0 | ass root lev | | <i>c</i> | 1 (| 6 11 1 1 |
| | - | practical knowledge | of structure | and function of | t public healt |
| - | - | licy/organization. | manana / a atim | ition in Dublic Hool | th and davialan |
| | - | e student to various prog | | | - |
| | search etc. | ve understanding of prog | annine design | , strategies and plan | |
| Ie | search etc. | Courses | Description | | |
| E 147 1 | (D 11) | | Description | 1 · 1 1 1 | 11 (114 - 11 |
| | | Health Internship is part | | • | |
| | <i>.</i> | y approved regional/r | | | 5 |
| - | | rch & Academic/Trainir | 0 0 | | fill be schedule |
| | | & III. Report may be subm | | | |
| | - | to conduct following acti | | - | 1 . 1 1 11 |
| | | e information about organ | | - | |
| | | e work, type of organizat | ion (govt., sei | mi-govt., INGO, voi | untary, corpora |
| eto • To | <i>,</i> | ut the different projects / | programa (inc | titutional / communi | ity based) when b |
| | e organizat | out the different projects/ | programs (ms | inutional/commun | ity based) full t |
| | - | r with communication pro | cedure betwee | en health workers at | nd community |
| | | ractical knowledge & prac | | | - |
| | | the problems encounter | - | | - |
| | oject. | the problems encounter | eu a solution | is affived while i | inplementing ti |
| - | | ut working of the Manager | ment informati | ion system (MIS) | |
| | | out method and source of e | | ion by stem (1010). | |
| | | Suggestive Format for | | port Writing | |
| 1. Ti | tle of the p | | - | | |
| 2. Al | oout the or | ganization | | | |
| 3. In | troduction | and objectives of the proje | ect/programm | e / organization | |
| 4. Fu | inding age | ncy – about the agency, he | ow to get fund | ing, Nature of fundi | ng agency |
| 5. Sta | affing patte | ern of the project with thei | r functions | | |
| 6. M | ajor activit | ies being undertaken unde | er the project | | |
| 7. Re | sults achie | ved so far (target Vs achie | vement) | | |
| 8. Ro | ole of the ca | andidate in the project/pro | ogramme / org | ganization | |
| 9. Pr | oject/Prog | ram Evaluation by the can | didate. | | |
| | | | edit distributio | on | |
| P. | port Writi | ng- 2 credits and Viva-voc | e-2 credits | | |

SEMESTER II

| Course title | Practical's based on MPH 301 to MPH 304 | Course Code | MPH 311 | | | | | |
|---|---|-------------|---------|--|--|--|--|--|
| Course duration | July to December | Course type | Core | | | | | |
| | Course Objective | | | | | | | |
| • To impart the practical training in the students through demonstration, field visit, field survey and field studies. | | | | | | | | |
| | Course Content | | | | | | | |
| • The content of this course will be as per the practical's and field visits mentioned at the end of each course of semester III. | | | | | | | | |

SEMESTER IV

| | | PUBLIC HEALTH NUTRITION | Course Code | MPH 401 |
|----|--------------------------|---|-----------------------|-----------------|
| | duration | January to June | Course type | Core |
| | | Course Objective | | |
| ٠ | | the concept of nutrients and their physiol | | |
| • | | and the common nutritional disorder | s: physiological ba | sis, measureme |
| | Intervention | - | | |
| • | | e knowledge of evaluating community nu | | |
| • | | develop methodologies for nutritional int | ervention at individu | al, community a |
| | national leve | | | |
| • | Introduction | Course Content | | |
| • | | nition of nutrition and nutrients | | |
| | | cipals of human nutrition | | |
| | | e of nutrition in health and diseases | | |
| | | sification of food (Food groups) | | |
| | | nced diet | | |
| | | planning | | |
| • | | facronutrients and their deficiencies | | |
| - | | kimate Principal (Carbohydrate, Fat, Protei | ins) | |
| | | mins and minerals | 110) | |
| | | ary antioxidants | | |
| • | | led dietary allowances | | |
| • | Community | - | | |
| | - | ional nutrition policy | | |
| | | ional program in nutrition and their evalua | ation | |
| | | ritional assessment | | |
| | Diet | survey | | |
| | | o ecology of nutrition | | |
| | | o-ecology on Nutrition | | |
| • | Nutritional | | | |
| | | ein Energy Malnutrition (PEM) | | |
| | o Vit. | A deficiency | | |
| | | ne Deficiency Disorders | | |
| | Nut | ritional Anemia | | |
| | Prob | plems of over nutrition | | |
| | | nyrism | | |
| | | emic fluorosis | | |
| | | k food and its implications. | | |
| ٠ | Food hygien | | | |
| | | k hygiene, Meat hygiene | | |
| | | tation of eating places, Food handlers | | |
| • | | and food security | | |
| | | ional Food security program | | |
| | | d additives | | |
| | | d adulteration-prevention and control | | |
| | | d preservation | | |
| | | d fortification and enrichment | | |
| | | vention of food contamination | | |
| | | d labeling | | |
| | 0 F00 | d toxins Practical's | | |
| 1. | Estimation | f fat content in milk | | |
| 2. | | on of milk adulteration | | |
| 3. | Visit to milk | | | |
| 4. | | of dietary plan for specific condition. | | |
| 5. | | establishment and health education of foo | d handlers. | |
| 6. | Community | nutritional assessment | | |

| urse t | itle | OCCUPATIONAL HEA | ALTH | Course Code | MPH 402 |
|--------|------------|--|--------------|---------------------|---------------|
| arse d | luratior | January to June | | Course type | Core |
| | | Course Of | ojective | | |
| | - | rt the understanding of occupatio | nal hazards, | and diseases rela | ated to workp |
| | - | revention | | | |
| | | s should be able to demonstrate | | • | |
| 7 | workpla | ce problems and advance safe, hea | 5 | r oneself or others | 3 |
| • 1 | Introdu | Course C | ontent | | |
| • 1 | | Definition and concept of occupation | onal health | | |
| | | Fundamentals of occupational Hea | | | |
| | | Occupational Environment | | | |
| | | Principles of occupational Health | | | |
| • (| | ional Hazards | | | |
| | - | Types of Hazards | | | |
| | | Prevention of hazards | | | |
| • (| Occupat | ional diseases | | | |
| | - | Major pneumoconiosis | | | |
| | 0 | Minor pneumoconiosis | | | |
| | 0 | Lead poisoning | | | |
| | 0 | Occupational Dermatitis | | | |
| | 0 | Occupational cancers | | | |
| | 0 | Musculoskeletal Disorders | | | |
| | 0 | Agriculture hazards | | | |
| • 1 | Ergonor | nics | | | |
| | 0 | Principals od ergonomics | | | |
| | | Applications of ergonomics | | | |
| • (| _ | ional Safety & Health | | | |
| | | Risk assessment-Pre-placement exa | amination | | |
| | | Chemical and physical exposures, | | | |
| | | Control of occupational exposures | and risk mit | igation | |
| | | Injury control | | | |
| | | Access to health services | | | |
| | | Industrial Hygiene | | | |
| , | | Industrial Psychology | | | |
| •] | | on and control of occupational di | seases | | |
| | | Engineering measures | | | |
| | | Legal measures International Labor Organization (| ΊΙ O) | | |
| • • | | _ | | | |
| • (| _ | ional health of unorganized secto Farmers | 115 | | |
| | | Commercial Sex Workers (CSW) | | | |
| | | Daily wagers | | | |
| | 0 | Practic | al's | | |
| 1. \ | Visit to l | ndustry to study the occupational | | | |
| | | ducation to reduce the occupation | | | |

| | | | S | EMESTER | IV | | | |
|--------------------|----------------------|--------------------------|--|-----------------------------|--------------------|----------------------------------|-------------------|-------|
| Course title | | GLOBAL HEALTH Con | | | Course Code | MPH 403 | EL | |
| Course duration | n |] | January to Ju | | | Course type | Elective | |
| • To impa | art the | e knowledge | global health about Intern s and SDG's | national he | al buro ealth a | den of disease gencies and he | ealth regulations | 5. |
| . | | | Cou | rse Conter | nt | | | |
| • Introdu | | | | | | | | |
| 0 | Defin | ition and co | oncept | | | | | |
| 0 | Scope | e & importa | nce | | | | | |
| 0 | Chall | enges of glo | bal health | | | | | |
| • Global | burde | en of diseas | e | | | | | |
| 0 | Over | view of gloł | oal diseases | | | | | |
| 0 | Meas | urement of | global healtl | ı | | | | |
| 0 | Deter | minants of | morbidity ar | nd mortalit | y at g | lobal scale. | | |
| 0 | Socio | cultural and | l economic f | actors affeo | cting g | global health | | |
| • Interna | tional | Health Ag | encies | | | | | |
| 0 | Bilate | eral and mu | ltilateral | | | | | |
| 0 | Interr | national nor | n-governmer | nt organiza | tions (| (INGO) | | |
| • Interna | tional | Health Reg | gulations | | | | | |
| 0 | IHR | | | | | | | |
| 0 | Healt | h Insurance | Policies | | | | | |
| 0 | Foreig | gn Contribu | tion Regula | tion Act (F | CRA) | | | |
| • Interna | tional | Health Tou | urism and E | mporiatric | S | | | |
| • Millen (SDG's | Struct nium 5) | tural Adjust Developm | r health care ment Progra ent Goals tional health | am (SAP). (MDG's) | | Sustainable | Development | Goals |
| 4 577 94 - | T - | | P | ractical's | 11 1 | • 1 1 6 1 1• • | 1.1 | |
| 1. Visit to | an Int | ernational c | organization | working in | n the f | ield of public | health | |

| | SEMESTER IV | | | | | | | | | |
|--|--|-----------------------|----------------|--|--|--|--|--|--|--|
| Course title | RURAL AND TRIBAL HEALTH | Course Code | MPH 403 EL | | | | | | | |
| Course duration | January to June | Course type | Elective | | | | | | | |
| | Course Objective | | | | | | | | | |
| To introduce students to tribal and rural health | | | | | | | | | | |
| • To impart th | • To impart the knowledge on various determinants of tribal and rural health | | | | | | | | | |
| • To orient th | • To orient the students to different issues of tribal and rural health | | | | | | | | | |
| | Course Content | | | | | | | | | |
| <u>Tribal Health</u> | | | | | | | | | | |
| • Tribal cultu | ire of India | | | | | | | | | |
| 0 Trik | bal ethnography | | | | | | | | | |
| o Ter | ritorial distribution | | | | | | | | | |
| o Clas | ssification of tribes - linguistic, ethnic, eco | nomic, cultural | | | | | | | | |
| | l programs of Government (State & Centre |) for tribal health a | nd development | | | | | | | |
| Organizatio | ons engaged in Tribal health & India | | | | | | | | | |
| Determinar | nts of tribal health | | | | | | | | | |
| | ial - lifestyle, marriage, family, substance abus | e and food habits, | | | | | | | | |
| | logical (genetic) | | | | | | | | | |
| | vironmental (hygiene & sanitation, proximity | to animals, etc) | | | | | | | | |
| _ | nd challenges of tribal health care delivery | | | | | | | | | |
| 1 0 | n Health & Nutritional Status of tribals | | | | | | | | | |
| - | nd challenges of food & nutrition security i | n tribal communit | ies | | | | | | | |
| Rural Health | | | | | | | | | | |
| Socio-polition | cal system and Strategies for building coali | tion in rural comm | nunities | | | | | | | |
| Health asses | ssment in rural areas | | | | | | | | | |
| Access to he | ealthcare in rural areas | | | | | | | | | |
| Rural health | n care budgets and financing | | | | | | | | | |
| Public healt | h challenges in rural areas. | | | | | | | | | |
| Making a la | rge and lasting impact | | | | | | | | | |
| Understand | ling community change | | | | | | | | | |
| | lity through better paper work | | | | | | | | | |
| - | v based development | | | | | | | | | |
| - | nt without wealth | | | | | | | | | |
| | g balance between people and nature | | | | | | | | | |
| | conceptual and cultural breakthrough | | | | | | | | | |
| Case studies | s on: Curtiba-Brazil, Jamkhed and Gadchir | oli-India, Kakame | ga-Kenya | | | | | | | |
| | Practical's | | | | | | | | | |
| 1. Visit to triba | | | | | | | | | | |
| 2. Visit to rura | ıl village | | | | | | | | | |

3. Visit to tribal health services.

| | | | SEMESTER IV | | |
|--------|---|--|--|--|--|
| Course | title | RESEARCH | DISSERTATION | Course Code | MPH 404 |
| | duration | | ary to June | Course type | Core |
| | | | Course objective | <u> </u> | |
| • | To enable the study. | e student to gain a | , | o a particular field or | topic chosen for |
| • | | knowledge of the | research methodolog | y in practical | |
| • | dissertation any current course coord The topic fo done in a rep The student | under the guidance public health issu- linator. r the research sho puted organization should choose the | nparted in the course e of a faculty. The to e and can be selecte uld be chosen based or in community (res | ne dissertation in any | nay be related to h the guide and st and should be |
| | | | Course Content | | |
| end of | | ter. However, the | | nd the assessment wi ed to start the researc | |
| | | research dissertat | ion | | |
| 1. | - | | | will be done in First | wook of second |
| 1. | semester. Stu | | hoice to select the gu | ide in consultation wi | |
| 2. | semester wh | ile they study the sult with their gu | theory subject Resea | proposal from the beg arch Methodology. Du for and the subject tea | uring this period |
| 3. | Once the pr | oposal is ready, st | | y in a prescribed form is should be complete | |
| 4. | Students hav get the appro | - | proposal before the | Institutional Research | Committee and |
| 5. | Students car | n complete their f | ield work including cember (i.e. Third sen | data collection, data nester) | analysis and all |
| 6. | During this September a | time, students h | ave to submit two pre 15 th January. The | progress reports i.e. progress report shou | |
| 7. | 0 | expected to attend | | shop on Research Me | thodology before |
| 8. | Students hav | ve to present their | research finding in St International confere | ate/National/Internat | tional conference |
| 9. | Students also | | ninimum one researc | h article based on the | ir research in the |
| 10. | Final submis | sion of the researc | · · · · · · · · · · · · · · · · · · · | e before 15 th April of la | ast semester. The |
| 11. | The certification | | sentation in the confe | rence and paper publi | ication should be |
| 12. | Four copies | (five in case of co | o-guide) of research | dissertation shall be s on will be accepted | |

| Course title | | PROJECT DESIGN & MANAGEMENT | Course Code | MPH 405 |
|--------------|---------------------|--|---------------------|---------------------------|
| course durat | ion | January to June | Course type | Credit audit course |
| | | Course Obj | ective | |
| | - | ining in the methodology of | developing a resea | rch proposal and scientif |
| writi | ng. | Course Co | ntent | |
| • Intro | duction | | | |
| | | t planning and management i | n health care & pub | lic health |
| | ect Plann | | intentiteure e pub | |
| • 110,0 | | ure & Content – Personnel, Fii | nancial Operational | planning |
| Deci | | ing tools for project planning | - | plaining |
| | | al Framework Analysis (LFA) | - | |
| c | U | Γ Analysis for project develop | | |
| | ect Life C | | nent | |
| ° 110je | | t identification, preparation & | formulation | |
| c | | t Proposal Writing | Iomulation | |
| c | , | t budgeting and financing | | |
| c | , | t review and approval | | |
| c | | t execution/implementation | | |
| | ect manag | · • | | |
| ,- c | o Histor o Types | ry, Roles & Responsibilities 5 of management (Strategic r | nanagement, Opera | ations management, Cris |
| • Proie | mana ect evalua | gement) ation | | |
| , | | al and external evaluation | | |
| С | Partic | ipatory evaluation Methods | | |
| c | | & Techniques (PERT, CPM) ators for project evaluation | | |
| | | for projects | | |
| | | Practica | l′s | |

| SEMESTER IV | | | | | | |
|---|---|-------------|---------|--|--|--|
| Course title | Practical's based on MPH 401 to MPH 403 | Course Code | MPH 411 | | | |
| Course duration | January to June | Course type | Core | | | |
| Course Objective | | | | | | |
| • To impart the practical training in the students through demonstration, field visit, field | | | | | | |
| survey and field studies. | | | | | | |
| Course Content | | | | | | |
| • The content of this course will be as per the practical's and field visits mentioned at the | | | | | | |
| end of each course of semester IV | | | | | | |
| | | | | | | |



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PIMS (DU), Post Graduate Degree Programme in Master of Public Health-Syllabus, implemented from Academic Year 2021-2022