

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.

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

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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