DATTA MEGHE INSTITUTE OF MEDICAL SCIENCES,
(DEEMED UNIVERSITY)
SAWANGI (MEGHE), WARDHA

Programme Project Report

of

MASTER OF PUBLIC HEALTH (MPH) PROGRAMME

Conducted By

Department of Community Medicine
Jawaharlal Nehru Medical College, DMIMS (Deemed University)
Sawangi, (Meghe), Wardha

For Application as 'Open and Distance Learning Mode'

Under University Grant Commission

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■ PREAMBLE:

In low income countries, despite the availability of effective interventions for many priority health problems and enhanced developmental assistance, progress towards the health Millennium Development Goals is impeded by the **shortage of *trained, motivated* and *supported* health workers.**

A clear understanding of the health workforce situation is critical to the development of effective policies to develop and manage a responsive workforce. Human resource shortages hinder scale up of health services and limit the capacity to absorb additional financial resources.

As India strives to achieve universal health coverage by 2020, and committed to Sustainable Development Goals (SDGs) improvement in healthcare delivery through the **availability of skilled and motivated health workers is essential**. India faces **an acute shortage of health personnel**. Currently the doctor population ratio in India is 1 to 1700, less than the recommendation by WHO. Furthermore, with inequalities in distribution of health workers and lack of skill mix among the public health professionals and doctors, this shortfall impedes progress towards achievement of the SDGs. **It is essential to produce public health workforce who will have social inclination and understand social responsibility and accountability to prefer to serve at underserved and unreached areas of the society with global acumen to become a public health leader**.

To contribute to fulfilling the need of health work force in India, **DMIMS (DU) started a *'Masters of Public Health'* (MPH) Program** in year 2007 under the Faculty of Medicine (Department of Community Medicine). This course strives to develop *competent, confident* and *compassionate* health personnel suited for Govt. as well as private health sector, especially for serving rural and underserved area.

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MPH Programme – Goal, Objectives

- **GOAL:**

The Goal of the DMIMS (DU) MPH program is to provide **training**, **research** and **service** activities that develop Public Health Professionals, Health Care Providers, Social Health Activist and Researchers to plan, develop, implement, monitor and evaluate population-based and authenticated individual approaches for quality health care.

- **PRIMARY OBJECTIVE :**

To offer a globally competitive and practice based Masters of Public Health (MPH) program to prepare leaders in public health science and practice to address current and future public health challenges.

- **SECONDARY OBJECTIVES:** (with specific focus on Public Health Practice) -

(i) To provide training in public health to qualified health professionals and to other individuals whose prior training or experience has made them capable of playing a leadership role in public health.

(ii) To develop human resource with expertise in the field of public health and epidemiology, who can ensure comprehensive health development of the community and better quality of life.

(iii) To promote the understanding of the need to integrate social and cultural factors and determinants.

(iv) To award the MPH degree to individuals who have acquired a particular depth of knowledge in public health sciences and who have demonstrated the following capacities to -

- Understand the distribution of major determinants of health in populations relevant into the practice of public health,
- Effectively contribute to the management of health services,
- Analyze risks and devise strategies for a healthier environment, a safer workplace, and fewer injuries,
- Identify ways in which changes in behavior and social structures may affect the health of populations,

(v) To lead students to achieve these capacities in a setting that demands that the student query, learn, persuade, and communicate in active interchange with his or her peers, with faculty, and with practitioners outside.

The MPH degree is the most widely recognized professional credential for leadership in public health. The program emphasizes active, student-directed learning, problem solving, and the acquisition of skills essential to the practice of public health.

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Relevance of the program with Institution's Mission and Goals

- **DMIMS (DU)- Vision and Mission:**

Vision :

To emerge as the Global centre of excellence in the best evidence based higher education encompassing a quality centric, innovative and interdisciplinary approach, generating refutitive research and offering effective and affordable health care for the benefit of the mankind.

Mission :

DMIMS shall develop competent, confident, concerned, compassionate and globally relevant professionals by quality, learner, community and evidence centric 'competency based model' of higher education with value orientation, through all its constituent units. It shall foster a conducive milieu for interdisciplinary research practices generating consequential and meaningful outcomes for the nation in general and the region in particular. It shall deliver comprehensive quality health care services to the rural, needy, marginalized and underprivileged populace. This shall be achieved through appropriate collaborative linkages and a proactive, transparent and accountable decentralized governance system.

- **Department of Community Medicine**

VISION : Improve population health for sustainable communities locally, nationally and globally.

MISSION:

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

Thus, MPH programme objectives are aligned with the DMIMS (DU) and Department of Community Medicine Vision and Mission. The MPH programme contributes in its achievement.

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■ LEARNING OUTCOMES of MPH PROGRAM:

At the end of the program the MPH, student shall endeavor to be able to:

1. Recognize `Health for all' as a national goal and health right of all citizens and by undergoing training for health profession, fulfill his / her social obligation toward realization of this goal.

2. Able to -

- Understand the distribution of major determinants of health in populations relevant into the practice of public health and manage the same at different level of health care agencies,
- Effectively contribute to the management of health services,
- Analyze risks and devise strategies for a healthier environment, a safer workplace, and fewer injuries,
- Identify ways in which changes in behavior and social structures may affect the health of populations.

3. Learn every aspect of National policies on health and devote himself /herself to its practical implementation.

4. Achieve competence in management of holistic approach for comprehensive health care.

5. Appreciate rational for different social needs, therapeutic modalities; be familiar with the administration of the 'essential drugs' and amenities conducive to social structure.

6. Posses the attitude for continued self-learning and to seek further expertise or to pursue research in any chosen area of medicine.

7. Become exemplary citizen by observation of social and medical ethics and fulfilling social and professional obligations, so as to respond to national aspirations.

8. Explore Opportunities to facilitate collaboration, networking with international and national level institutes / organizations / foundations for promotion, advancement and sharing of academic and research knowledge and activities in medicine, health and allied sciences for human development.

9. Acquire basic management skills in the area of human resources, materials and resource management related to health care delivery.

10. Be able to work as a leading partner in health care teams and acquire proficiency in traditional and e-communication skills.

11. Have personal characteristics and attitudes required for professional life such as personal integrity, sense of responsibility and dependability and ability to relate to or show concern for other individuals.

12. To promote and provide

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i. Instruction, knowledge, education, training and research facilities of high order in the areas of study relevant to medicine, health and allied Health sciences as per its current status and such other manner as may develop in future

ii Research relevant to current and emerging field of medicine, health and Allied Health sciences.

iii Opportunities for the integration of formal, newer learning technologies e.g. Problem Based Learning and non-formal learning with practical experiences in medical and health sciences with other areas of human development.

- **NEED FOR ADOPTING ONLINE AND DISTANCE LEARNING MODE FOR RUNNING MASTER OF PUBLIC HEALTH PROGRAM**

The extent to which we are able to improve the health of the public depends, in large part, upon the quality and preparedness of the public health workforce, which is in turn dependent upon the relevance and quality of its education and training.

Public health education for long has been expected to find solutions for multitude of public health problems through building the capacity of public health workforce. In order to bridge the gap between the need and demand of Public Health workforce, it is vital to offer the public health education programs in distance learning mode to cater to the needs of variety of student population. Hence DMIMS (DU) is aiming to start distance education mode for students who wishes to pursue academics in Public Health but find it difficult for want of time devotion for regular learning mode.

INTER ALIA INFORMATION OF MPH COURSE

- **ELIGIBILITY CRITERIA FOR ADMISSION: (Target group of learners)**

Bachelor's degree with 50% Marks in Biological, Clinical and Social Sciences. B.Sc. in Life sciences, Pharmacy, Pharmacology, Nutrition & dietetics, Medicine (MBBS, BAMS, BHMS), Dental, Nursing, Physiotherapy, Medical Social Work and Social sciences (Medical Sociology, Medico-social Psychology, social Anthropology), Biotechnology, Medical Microbiology Medical Biochemistry , Medical Physiology, B.Sc. DMLT, any other specialization with experience of at least one year in public health sector. The qualification must be recognized by Indian University or an equivalent qualification from foreign university recognized by University Grant Commission.

- **DURATION OF COURSE** : Two years (Semester based= Four Semesters)
- **INTAKE CAPACITY:** Maximum 20 candidates per year
- **VALIDITY OF REGISTRATION** – Four years

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■ CAREER OPPORTUNITIES:

The MPH Programme will provide career and employment opportunities for students as Programme manager, Community Health Officer, Project coordinator, Epidemiologist and Health manager etc in

- International organizations like WHO, UNICEF, UNFPA etc
- National and state Government Health Organizations,
- National Rural Health Mission
- Advocacy Groups ,Voluntary Health Organizations, Non-Governmental Organizations
- Research Institutions
- Academic Institutions
- Funding Agencies

■ **CORE DEPARTMENT:** Community Medicine, Jawaharlal Nehru Medical College, DMIMS(DU), Wardha (Maharashtra)

INSTRUCTIONAL DESIGN

■ TEACHING- LEARNING& ASSESSMENT STRATEGIES:

The Teaching - Learning strategies for MPH course in open and distance learning mode will be mainly leaner centered with blended mode of learning.

Onsite contact session:-

1. Lectures (Didactic),
2. Group activity,
3. Seminar presentations,
4. Critical appraisal of Journal Article
5. Demonstration
6. Laboratory Experiments
7. Directly observed Field skills (DOFS)
8. Mini Clinical Evaluation Exercise (Mini-CEX)

Distance learning

1. Webinar
2. Online group discussions (e- learning)
3. Community Based Project Work
4. Field Activities/Survey
5. Assignments (Protocol Development, Problem Based Exercises, Epidemiology, Biostatistics And Data Base Exercises)

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■ LOGBOOK FOR RECORD OF ALL ACTIVITIES : -

Student will maintain a logbook of all activities conducted during the course and submit it at the end of semester. The log book shall consist of records of the various presentations, assignments, carried out by the student during the respective semester.

■ COURSE STRUCTURE

COURSE CODE	COURSE/ SUBJECT NAME	TOTAL HOURS	CREDITS
	MPH- Semester I		
101	Ethics in Public Health	60	2
102	Basic epidemiology	150	5
103	Biostatistics	120	4
104	Research methodology	150	5
	Subtotal	**480 hours**	**16 credits**
	MPH- Semester II		
201	Social / Behavioural Sciences and Health communication, Gender issues	90	3
202	Public Health Nutrition	90	3
203	Demography , Reproductive and child health	150	5
204	Communicable and Non Communicable Disease epidemiology	150	5
	Subtotal	**480 hours**	**16 credits**
	MPH Semester III		
301	Health committee, Five year plans, Public Health planning and management	120	4
302	Health system, Policy & financing, Health equity	120	4
303	Implementation of field intervention projects	150	5
304	Monitoring and evaluation	90	3
	Subtotal	**480 hours**	**16 credits**
	MPH Semester IV		
	Dissertation work -		
401	Selection of topic, Literature search	120	4
402	Synopsis preparation, presentation and submission to IEC	120	4
403	Field work , Data collection, and data entry and Thesis review	120	4
404	Data analysis, Report writing, Report presentation and & submission	120	4
	Subtotal	**480 hours**	**16 Credits**

Note – One credit equals to 30 TLE

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■ CONTACT THEORY AND PRACTICAL SESSIONS

MPH Post Graduate Degree Course is of two years duration and semester based. There are two semesters each year. The contact sessions will be twice per semester. It will be mandatory for the candidate to attend the contact programmes. Ten credits under assessment head will be allotted for the same.

As per the UGC guidelines, each semester shall have 16 credits. One credit is equal to **30 study hours of study** including face to face contact component.

	MPH Programme with a total of 16 Credits per semester (16 credits x 30 hrs/credit=480 hours)	
Number of Assignments	**Theory**	**Practical**
Four per semester	10 Credits for Theory=300 hrs	6 credits for Practical=180 hrs
	Contact sessions Theory	**Contact sessions-Practical**
	48 hours	60 hours of guided experiments with support of internal supervisor per 2 credits

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ACADEMIC PLANNER (2018-19)

Name of Activity	Semester I		Semester II		Particulars
	From	To	From	To	
Admission process (Start of course)	15th June 2018	25th June 2018	----	-------	
Semester term	01 July 2018	31 December 2018	1 January 2019	30 June 2019	6 months/Semester
Duration (hrs) of contact sessions	Theory= 48 hrs	Practical=60 hrs	Theory= 48 hrs	Practical=60 hrs	
	6 days (8 hrs/day)	08 days (8 hrs/day)	6 days (8 hrs/day)	08 days (8 hrs/day)	
Contact session- I **(Distribution of Study learning material)**	1 July 2018 to	7 July 2018	1st Jan 2019	7th Jan 2019	Theory = 3 days (8hrs /day) Practical = 4 days (8hrs/day) Total = 7 days
e- learning & online discussion	15 July 2018	15 Sept 2018	15 Jan 2019	15 March 2019	8 weeks (One topic will be discussed in each week)
Contact session- II	16 September 2018	22 September 2018	16 March 2019	22 March 2019	Theory = 3 days (8hrs /day) Practical = 4 days (8hrs/day) Total = 7 days
e- learning & online discussion	1 Oct 2018	15 Nov 2018	1 April 2019	15 May 2019	6 weeks (One topic will be discussed in each week)
Assignment submission	16 Nov 2018	20 Nov 2018	16 May 2019	20 May 2019	Submission of all four assignments
Exam form submission	25 Nov 2018	30 Nov 2018	25 May 2019	30 May 2019	
Examination	5thDec 2018	15 th Dec 2018	5th June 2019	15th June 2019	Term end Summative assessment
Declaration of result	By 31st December 2018		By 30th June 2019		On university website

Note -

i. Last date for University enrolment – 30th September 2018.
ii. Academic planner for Semester III and IV will run in the year 2019-2020, on similar lines.
iii. The dates given are tentative and may be subject to change.

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ACADEMIC PLANNER (2019-20)

Semester III :

Name of activity	Semester III		Particulars
	From	To	
Semester term	01 July 2019	31 December 2019	6 months/Semester
Duration (hrs) of contact sessions	Theory= 48 hrs	Practical=60 hrs	
	6 days (8 hrs/day)	08 days (8 hrs/day)	
Contact session- I	1 July 2019 to	7 July 2019	Theory = 3 days (8hrs /day) Practical = 4 days (8hrs/day) Total = 7 days
e- learning & online discussion	15 July 2019	15 Sept 2019	8 weeks (One topic will be discussed in each week)
Contact session- II	16 September 2019	22 September 2019	Theory = 3 days (8hrs /day) Practical = 4 days (8hrs/day) Total = 7 days
e- learning & online discussion	1 October 2019	15 November 2019	6 weeks (One topic will be discussed in each week)
Assignment submission	16 Nov 2019	20 Nov 2019	Submission of all four assignments
Exam form submission	25 Nov 2019	30 Nov 2019	
Examination	5thDec 2019	15 th Dec 2019	Term End Summative Assessment
Declaration of result	By 31st December 2019		

Semester IV :

Name of activity	Semester IV	
	From	To
Semester term	1 January 2020	30 June 2020
Contact session- I (Distribution of guidelines for Synopsis and Thesis preparation & submission)	1st Jan 2020	7th Jan 2020
Submission of synopsis for IEC approval *(online)*	10 Feb 2020	15 Feb 2020
Contact session- II (First Project Report presentation and Submission)	16 March 2020	22 March 2020
Second Project Report Submission *(online)*	25th April 2020	30 April 2020
Submission of Thesis	1 June 2020	
Declaration of result	By 30 June 2020	

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Sessions	Duration	Action Plan
Contact session-I	7 days contact session	• Sensitization about the complete 2 year MPH course. • Distribution of Self learning material to candidates • Modules and scheme of examination will be explained. • Allotment of topics for presentation during II contact session • Session on e-learning and distribution of plan and topics for online discussion along with moderators and faculty allotment. • Topics to be covered (as per prescribed syllabus)
Online discussion	8 weeks	• One topic will be discussed in each week. • Total 8 topics will be covered through e-learning during this period.
Contact session-II	7 days contact session	• Topics to be covered (as per prescribed syllabus) • Each candidate will present two seminars • Distribution of plan and topics for online discussion along with moderators and faculty allotment.
Online discussion	6 weeks	• One topic will be discussed in each week. • Total 6 topics will be covered through e-learning during this period.
Assignment submission	As per calendar	• Assignments will be four in number/semester • Questions will be mainly of higher order thinking skills. • eg. Problem Solving Exercises, Protocol Development , Report Writing, Case Scenario Based Learning Etc.
Examination	As per calendar	• Summative Assessment • Theory exams and viva voce

■ FACULTY AND SUPPORT STAFF REQUIREMENT

Currently the Dept of Community medicine, J N Medical College, Wardha is running this course in Regular mode and Faculty Staff Of Department is actively involved in Teaching-Learning and Evaluation activities of the course. However, recruitment of separate staff shall be done for running the MPH program in ODL mode as per the UGC guidelines.

Staff at Headquarters:

1] Director- Dr Anjali Borle

2] At least two full time faculty member (per discipline or specialization or programme at Associate and Assistant Professor level.

1. Dr Sonali Chaudhari – Associate Professor
2. Dr Sarika Dakhode – Assistant Professor

3] Deputy Registrar: Mr Ashok Bramhankar
4] Assistant Registrar: Mr Anand Gujar
5] Section Officer: Mr Ajay Karande
6] Assistants: Mr . Alok Ujawne, Mr Sachin Kalaskar
7] Computer Operators: Mr Pravin Dhokne , Mr Ramakant Gode
8] Class IV: Mr. Santosh Firke, Manish Taksande
9] Librarian : Mr. Sandesh Nimbalkar

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■ REFERENCE LEARNING RESOURCE MATERIAL:

BOOKS:

1. AFMC & WHO: Text book of Preventive & Social Medicine, WHO, 2007
2. PiyushGhai. Text book of Community Medicine, 2nd ed, CBS publication, New Delhi
3. K Park, Text book of Preventive & Social Medicine, 22nd ed, Banarsidas Bhanot, Jabalpur.
4. Laharia, Handbook of Preventive & Social Medicine, JP brothers, New Delhi
5. J Kishor, National Health Programs, New Delhi,
6. Oxford , Text book of Public health
7. Govt. of India, Ministry of Health & Family welfare ,Immunization Handbook for Medical Officers. Nirman Bhawan, Maulana Azad Road, New Delhi, 2008.
8. Govt. of India, Ministry of Health & Family welfare ,NRHM modules. Nirman Bhawan, Maulana Azad Road, New Delhi,
9. Govt. of India, Ministry of Health & Family welfare ,IPHS modules. Nirman Bhawan, Maulana Azad Road, New Delhi,
10. Maxy- Rousunue, Text book of public health
11. Donna J. Petersen and Greg R. Alexander. Needs Assessment in Public Health, A Practical Guide for Students and Professionals. Kluwer Academic/Plenum Publishers, New York. 2002
12. R. Bonita, R. Beaglehole, T. Kjellström. Basic Epidemiology, 2nd edition World Health Organization. 2006
13. Mahajan B K , text book of biostatistics, sixth ed.J P Brothers.
14. A. K. Jain, Anatomy& Physiology for nurses, Arya Publications, New Delhi.
15. CM Francis, Hospital Administration, ,Jaypee brothers, Medical Publishers, New Delhi.
16. Dr. A. G. Chandorkar, Hospital Administration and Planning, Paras Medical Publisher, Hyderabad.
17. Hospital Administration Manual, Vol. – I, Govt. of Maharashtra.
18. Hospital Administration Manual, Vol. – II, Govt. of Maharashtra.
19. World Health Organization. Developing Health Management Information Systems. A Practical Guide for Developing Countries. WHO. 2004.
20. World Health Organization. Improving Data Quality. A Guide for Developing Countries. WHO. 2003
21. Bhusan& Gupta, Text book of sociology.

JOURNALS

1. Indian Journal of Community Medicine
2. Indian Journal of Public Health
3. Indian Journal of Community Health
4. Journal of Communicable Diseases
5. Indian Journal of Medical and Child Health
6. Indian Journal of Preventive and Social Medicine
7. Indian Journal of Occupational Health and Industrial Medicine
8. Indian Journal of Medical Research
9. National Medical Journal of India
10. Indian Journal of Malariology renamed Journal of vector borne disease
11. Indian Journal of Environmental Health
12. Indian Journal of Medical Education
13. Journal of Indian Medical Association
14. Journals of Medicine, Paediatrics, OBG, Skin & STD, Leprosy, Tuberculosis & Chest Diseases (For Reference)
15. Indian pediatrics
16. Journal of food science and nutrition, NIN

International Journals

1. WHO Publications – All
2. Journal of Epidemiology & Community Health
3. Tropical Diseases Bulletin

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4. Vaccine
5. American Journal of Public Health
6. Lancet
7. New England Journal of Medicine.
8. Journal of travel medicine
9.International journal of epidemiology
10. Population reports
11.American journal of clinical nutrition

ADDITIONAL READING:-

1. National Health Policy, Ministry. of Health & Family Welfare, NirmanBhawan, New Delhi, 1983.
2. Santosh Kumar, The elements of Research, writing and editing 1994, Dept. of Urology, JIPMER, Pondicherry
3. Indian Council of Medical Research, "Policy Statement of Ethical considerations involved in Research on Human Subject", 1982, I.C.M.R., New Delhi.
4. Code of Medical Ethics framed under section 33 of the Indian Medical Council Act, 1956.Medical Council of India, Kotla Road, New Delhi.
5. Francis C M, Medical Ethics, J P Publications, Bangalore,1993.
6. Kirkwood B R, Essential of Medical Statistics for Medical students, 1st Ed.Oxford: Blackwell Scientific Publications 1988.
7. Mahajan B K, Methods in Bio statistics for medical students, 5th Ed. New DelhiJaypee Brothers Medical Publishers, 1989
8. Raveendran B Gitanjali, A Practical Approach to PG dissertation, New Delhi, J P Publication, 1998
9. WHO (1986) Geneva, **Early detection of Occupational Disease**
10. **Hunter's Diseases of Occupations**, Edited by P.A.B. Raffle, P. H. Adams,P.J. Baxter and W.R.Lee Edward Arnold Publishers (1994), Great Britain
11. International health regulations 2007, WHO

Committee reports

1. Bhore Committee Report (1946) Health Survey and Development Committee, Govt. of India, Delhi.
2. Mudaliar Committee Report (1961) Health Survey and Planning Committee, Govt. of India, Delhi
3. Shrivastav Report (1974), Health Services and Medical Education – A programme for immediate action, Group on Medical Education and Support Manpower, Ministry of Health and Family Welfare, Govt. of India,
4. ICSSR/JCMR (1981), Health for All- An alternative strategy – Report of a Joint study group of ICSSR/ICMR, Indian Institute of Education, Pune.
5. National Health Policy, (1982) Ministry of Health and Family Welfare, Government of India, New Delhi.
6. Compendium of Recommendations of various committees on Health and Development (1943-1975), Central Bureau of Health Intelligence (1985) Directorate General of Health Services, Ministry of Health and Family Planning, New Delhi.
7. Bajaj, J.S. etal (1990) Draft National Education Policy for Health Sciences, I.J.M.E. Vol.29, No.1 & 2 (Jan-August 1990)

Websites:

www.icmr.nic.in
www.mohfw.nic.in
www.nacoonline.org
www.npspindia.org
www.tbcindia.org
www.iapsm.org.in
www.iphaonline.org
www.who.int
www.whoindia.org
www.cdc.gov
www.censusindia.gov.in
www.nrhm.gov.in
www.maha-arogya.gov.in

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- **PROCEDURE FOR ADMISSIONS, CURRICULUM TRANSACTION AND EVALUATION INCLUDING STUDENT ASSESSMENT TOOLS, SCHEME OF EXAMINATION & BLUEPRINT OF THEORY QUESTION PAPER:**

- **Minimum eligibility for MPH course**– mentioned as above

- **MPH programme delivery**– For admission to MPH course, applications are invited for each academic year. The notification is issued by Registrar of the DMIMS (DU). The notification, along with application form & brochure is uploaded on website for easy access.

- **Fee structure : As Mentioned in the table below**

Name Of The Programme	MPH - MASTER OF PUBLIC HEALTH	FEES IN SEMSTER I	FEES IN SEMSTER II	FEES IN SEMSTER III	FEES IN SEMSTER IV
Degree	POST GRADUATE				
Admission Fee (One Time)	1,000	✓	-		
Course Fee Per Semester	10,000	✓	✓	✓	✓
University Fee (One Time)	5,000	✓			
Exam Fee Per Semester	2,000	✓	✓	✓	✓
Convocation Fee (One Time)	2,000	✓			
Total Fees For Complete Programme	**56,000***	**20,000**	**12,000**	**12,000**	**12,000**

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- **Curriculum transaction**

  As mentioned in the above section of instructional design, the total hours of the Teaching-Learning and assessment per semester will be 480 hours (16 credits).

  The unit in each semester is given weightage. The curriculum will be delivered using the set of applicable teaching learning methods with major focus on learning of desired competency in each unit. Similarly assessment of the student will be done by using varied assessment tools to determine the achievement of the required competency.

- **Evaluation of learner progress along with methods and tools**- Cumulative Grade Point Average (CGPA) System is adopted for student assessment.

  The evaluation includes two types of assessments **Ccontinuous or Formative assessment** and **Summative assessment.** The components of Formative assessment are *home assignment, students' response sheets* and *contact programmes*. The summative assessment is in the form of *'semester end Examination'*.

  The weightage for 'Formative assessment' is 30% and that of Summative assessment Semester end examination is 70%. Marks or grades obtained in all these heads including the score in Summative examination are shown separately in the grade card.

Mode of evaluation for the MPH program

Sr. No.	Modality	Weighatge
1	Assignments	10%
2	Practicals	10%
3	Project	10%
4	Term end examination	70%

Assessment tools:

1. Written examination- Short answer question, Long answer question with component of higher order cognitive domain.
2. Objective Structured Practical Examination (OSPE)
3. Viva voce
4. Log book
5. Directly Observed Procedural Skills (DOPS)
6. Mini Clinical Evaluation Exercise (Mini-CEX)

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- **Scheme of examination: A total of 200 Credits is given for the each semester of MPH programme**

Break up of total 200 credits for student assessment in each semester

Sr No.	ASSESSMENT	% WEIGHTAGE	CREDITS ALLOTED	Time to conduct
Formative assessment (30%) 60 credits				
01	Assignments	10%	20 credits	During semester
02	Practicals	10%	20 credits	
03	Project/Theory (Part completion test)	10%	20 credits	
Summative assessment (70%) 140 credits				
03	Theory Examination	30%	60 credits	At the end of each semester
04	Practical Examination	40%	80 credits	
	TOTAL	100%	200 credits	

- **Formative Assessment : 30% - 60 credits out of 200**

Formative assessment	Credits Allotted (A)	Credits obtained (B)	% secured by student (C)	Grade score (D)	Earned Grade Points E= Ax D
Assignments	20				
Practicals	20				
Project/Theory (Part completion test)	20				
Total	**60** credits				

- **Summative assessment : 70% - 140 credits out of 200**

I) THEORY Examination: 30% = 60 credits

- There will be two papers of 100 marks for 3 hours duration.
- The questions will be short answer questions (SAQ) and long answer questions (LAQ)

II) PRACTICAL : **40%** = 80 Credits

Summative assessment	Credits Allotted (A)	Credits obtained (B)	% secured by student (C)	Grade score (D)	Earned Grade Points E= Ax D
Theory Examination					
Paper I	30				
Paper II	30				
Practical Examination	80				
Total	140 credits				

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- **CALCULATION OF GRADES:-**

- ***'Grade'*** is an assessment of a student's performance in an examination/paper/course.
- Commonly expressed by letter on a scale of **A-F**.
- The **marks** obtained will be converted into **grades** as shown below:

Percentage secured by student	Grade	Grades on 9 Point Score
90 - 100	A+	9.0
80 - 89	A	8.0
70 - 79	B+	7.0
60 – 69	B	6.0
50 – 59	C+	5.0
40 – 49	C	4.0
30 – 39	D+	3.0
20 – 29	D	2.0
10 – 19	E	1.0
Less than 10	F	00

Note – Minimum cutoff for passing is 50% for each assessment head.

- **Earned grade points** = Credits allotted x Grade score
- **GPA** = Total earned grade points in one assessment head divided by the total allotted credits.
- Final grading will be awarded based on 'grades' of all 'assessment heads' taken together.
- The assessment of the overall performance of the student will be obtained by calculating **Cumulative Grade Point Average** (CGPA).
- PCT, Elective , Theory, Practical & Research project viva.
- **CGPA** = GPA (PCT)+GPA (Elective)+ GPA (Theory) + GPA (Practical) + GPA (Research project viva)/5
- The 'Final Grade' earned will be as per following table.

CGPA	Grade
8.0-10.0	A+
7.0-7.9	A
6.0- 6.9	B+
5.0 -5.9	B

- The candidate will be declared as successful if she/he scores the CGPA score of "B" or more.

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■ Blueprint of question paper of Summative Theory Examination

- **Template**

Time : 3 hours **Marks : 100**

Question Number	Type of Question	No of questions	Marks	Total Marks
SECTION – A				
1.	S.A.Q. Short Answer Question	6	10marks each	6 x 10marks = 60
SECTION – B				
2.	L.A.Q. Long Answer Question	2	20 marks each	2 x 10marks =40
				100 marks

■ REQUIREMENT OF THE LABORATORY SUPPORT AND LIBRARY RESOURCES:

A well-established public health laboratory is available in the dept. of Community Medicine for carrying out the public health experiments. Besides this, for field work, adopted villages are available. For online learning, the practical can be conducted and performed by applying virtual reality methods.

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■ COST ESTIMATE OF THE PROGRAMME AND THE PROVISIONS:

Calculation of cost of MPH Course fee 18-19

Sr. No.	Nature of Expenses	No. of Staff	Per Month	Annual Expenses (Rs.)-I year	Annual Expenses (Rs.)-II year	Total Expenses
1	Salary & Allowances					
	Teaching Staff					
	Director	1	80000	960000	1056000	2016000
	Associate Professor	2	61221	1469304	1616234	3085538
	Asst. Professor	3	41600	1497600	1647360	3144960
	Non-teaching staff					
	Dy. Registrar	1	20000	240000	264000	504000
	Asst. Registrar	1	15000	180000	198000	378000
	Section Officer	1	10000	120000	132000	252000
	Office Asst.	2	8500	204000	224400	428400
2	Contingencies		50000	600000	660000	1260000
3	Printing & Stationary		50000	600000	660000	1260000
	(15000 Sq. ft.@2000/-) 3 crore					
	Grand Total Expenses A			**5870904**	**6457994**	**12328898**
	Total INTAKE Capacity	I	II			
	MPH	50	50			
	MHA	20	20			
	Sub Total	**70**	**70**			
	Total Divisor Factor B					**140**
	Cost of per student per / Course = (A/B)					**88064**

The expenses towards development and sustenance of the distance education programs shall be met by fees incurred from the enrolled students. Any additional expenses shall be borne by the University.

■ QUALITY ASSURANCE MECHANISM AND EXPECTED PROGRAMME OUTCOMES:

For this, the curriculum of the course is revised time to time, based on the need of the learners as well as taking into consideration local and global health scenario. There is a separate Board of studies for the MPH course, which looks into the updating and revision of the curriculum, scheme of examination.

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For monitoring the effectiveness of the programme- evaluation of the curriculum is done every 3 to 5 years. Feedback from alumni and peer, faculty and community stakeholders is also taken.

Centre for Internal Quality Assurance" (CIQA), established by the DMIMS (DU) shall ensure the quality of MPH programme offered by it through internal quality monitoring mechanism in accordance with the guidelines.

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■ Annexure : - Detailed curriculum of MPH course

COURSE CONTENT OF MPH PROGRAM

■ COURSE CONTENT OF MPH PROGRAM

Course code	MPH 101 : Ethics in Public Health and Concept of Health & Disease	Hours	Credits awarded
Unit No.	Course description		
1	**Ethics in Public health** • Ethical Basis of the Practice of Public Health • Justice and Resource Allocation • Ethics and Health Disparities Individual and Social Responsibility for Health	30	1
2	**Concept of health and disease:** • Concept of Health & Public Health. Public health in developed and developing countries. Determinants, dimensions, spectrum of health • Concept of diseases, natural history of diseases, Iceberg phenomena • Health promotion, protection, prevention and control of diseases • Measuring Health & disease – Measuring tools, Health indicators • Contemporary issues in public health Assignements : sstudying families and understanding dimensions and determinants on health and presentation in class.	30	1

Unit No	MPH - 102: EPIDEMIOLOGY Course description	Hours	Credits awarded
1	**Epidemiology basics**		
	• Introduction to Epidemiology/Science of Public Health , Basic Terminology, Historical Aspects , definition , aims and uses. • History of health programs and strategies • Measurement of morbidity and mortality: Incidence, Prevalence, Age-adjustment and survival analysis, • Characteristic of health indicators / SMART indicator approach • Introduction to public health monitoring • Epidemics and outbreak investigation **Assignements:** Data base exercises (Example of database (NFHS, DLHS, IDSP etc) - Give case studies in disease control program (for example changes in stunting over time, diarrheal disease epidemic, changing pattern of disease etc) and critique it and present it in class.	60	2
2	**Epidemiological Methods / Approaches**		
	• Classification of epidemiological methods • Ethical issues related to epidemiological studies • Descriptive studies • Analytical - Case-control Studies& Cohort studies • Intervention designs • Clinical trials – History, types, phases, Recruitment and retention of participants, Standard Operating Procedures (SOP's) etc. • Bias, confounding and effect modification • Association & Causation • Risk assessment in epidemiology – relative risk, odds ratio, attributable risk, population attributable risk, hazards ratio • Screening in health & diseases • Survival analysis • Disease surveillance (approaches/ types / sampling methodologies) and Integrated Diseases Surveillance Program • Data reduction methodologies – etc principal component analysis • Systematic review and meta analysis	90	3

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	Assignments: • Interpretation of country public health profiles • Health disparities within countries and districts • Protocol development using various epidemiological approaches and critical assessment through practice • Exercises on risk assessment • Exercises on diagnostic tests / screening tests • Journal article critical review		

	MPH - 103: BIOSTATISTICS :	**Hours**	**Credits awarded**
Unit No.	**Course description**		
1	**Census and mapping** • Use of maps and census in field intervention trials / public health practice • Preparation for census – planning, pretesting, recruitment and training of staff, mapping • Enumeration – organization, definition of dwelling units, de facto and de jure population, ensuring completeness, numbering individuals, household or individual forms or checks, coding relationships, Names , address, ages and other identifying information • Data processing • Post enumeration checks and data control • Vital registration	30	1
2.	• The Role of Biostatistics • What is data , types of data • Descriptive statistics o summarization/ presentation of data o Measures of central tendencies and dispersion • Inferential data analysis • Survival analysis	30	1
3	• Concept of Probability and confidence Interval Population Distributions , normal distribution and curve, Distribution variation (skewed curves) • Hypothesis : definition, types and Testing • Sampling Methods, Variability and Sampling Distributions , • Random errors / sampling errors • Study size / sample size – criteria for determining study size, size to give adequate precision, size to give adequate power, determining study size for complex design, other factors influencing study size, consequences of studies that are too small. • Systematic review and Meta-Analysis	60	2
	Assignments on biostatistics • Exercises on Normal distribution, sampling, calculation of sample size • Soft skills SPSS – analyzing data sets, data driven exercises • Visual display of quantitative information • Facility based and population based statistics • Descriptive and inferential analysis of data sets Critically assessing (on spot) the health registers (AWW / ANM / IDSP etc) and vital statistics registers • Critically analyzing health registers (AWW / ANM / IDSP etc) and vital statistics registers and presentation in class • Journal article – critically review • Use of various software for analysis (SPSS. Epi. Info etc.)		

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	MPH - 104: RESEARCH METHODOLOGY	Hours	Credits Awarded
Unit No.	Course description		
1.	• Definition, Types & Methods of Research in Health • Literature search strategy • Using reference manager/ endnote • Research/study design options • Survey Techniques & Data collection methods • Design of survey and data collection instruments – relevance to study objectives; development and types of questions; length order, layout and coding of survey instrument • Instrument adaptation and validation • Introduction to data quality assessment • Data triangulation • Double method of data collection and management • Data base manipulations • Facility based Vs population based health statistics • Statistical Methods in Research	60	2
2	• **Qualitative research methods** • Approaches, main qualitative methods (unstructured observation, structured observation, unstructured and semi-structured interviewing, systematic interviewing, multiple informant interviewing (FGD, PRA etc) • Representativeness, reliability and validity • Qualitative methods for community health need assessment - Community health needs assessment in the context of population-based methods, • Management and analysis of qualitative data **Assignments –** • Exercises on selection of research question, framing RQ, objectives & hypothesis • Designing a research protocol including logic model, Gantt chart , budgeting • Developing the survey questionnaire • Conducting FGD, IDI and other qualitative methods • Using reference manager/ endnote • Development of research Proposal • Writing a research writing / manuscript writing • Utilizing health and demographic database for community need assessment.	60	2
3	• **Ethics in Research** (Nuremberg code, Helsinki declaration, ICMR guidelines), accepted ethical principles concerning research on human subjects, informed consent, confidentiality, obtaining communal consent for field trials • Online research ethics certification course • Report writing, • Citation ,referencing and bibliography • Data driven management / program implementation	30	1

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	MPH - 201: Social and Behavioral Science In Public Health and Communications In Public Health Practice	Hours	Credits awarded
Unit No.	Course description		
1	**Society, culture and Public Health Practice**		
	• Social structure, family cycle, family circle , and functions • Social stratification (class, caste, gender), and Socioeconomic classification • Social control system, culture, acculturation • Social and cultural determinants of health and disease • Social and cultural factors influencing health seeking behavior (beliefs, susceptibility, seriousness, benefits and barriers) • Inequity, poverty & health. • Social Security measures in India • Equity in service access **Assignments:** • Principal component analysis, data exercise • Exploration of social and cultural factors affecting health and health seeking behavior using qualitative methods • Social and cultural assessment of family and its influence on health seeking behavior • Assessment of Social Security measures available for the family/society	60	2
2	**Health communication** • Principles of health communication • Information, Education, Communication (IEC) • Behavioural change communication – models and theories • Advocacy • Modes of health communication – advantages and limitation of various modes /mediums of communication • Role of social media in health communication • Social marketing • Monitoring and evaluation of health communication program • Impact assessment of the communication program/campaign **Assignments:** • Development and field testing of IEC material • Conducting IEC for various groups • Critical review of any social marketing campaign	30	1

	MPH – 202: Public Health Nutrition	Hours	Credits awarded
Unit No.	Course description		
1	**Public Health Nutrition** • Introductory lectures on Basic proximate principles (Macro & Micronutrient), balanced diet , food pyramid etc • Common nutritional problems of public health importance such as malnutrition (stunting, acute malnutrition etc) &its prevention and control. • Diet planning for ANC, PNC, Infants & children and elderly) • Dietary assessment & Nutritional surveillance • Genetically modified food **Assignements** Visit to VCDC, Anganwadi centers, public health department etc Analysis of nutrition data of Anganwadi identify nutritional problems and present in the class.	90	3

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	MPH – 203: REPRODUCTIVE & CHILD HEALTH (RCH) AND DEMOGRAPHY	Hours	Credits awarded
Unit No.	Course description		
1.	**Reproductive and Child Health** • History and evolution of Reproductive and Child Health (RCH) and Family Welfare services in India including programmes and policies related to Reproductive & child health and development • Components and services of Reproductive and child health • Essential Obstetrical Care (ANC, INC, PNC) • Emergency Obstetrical Care • Care of children (newborn, under five) including Immunization, IMNCI, • Family Welfare • Evaluation of RCH & FP Services **Assignments:** Critical review of RCH program and other topics related to RCH, Data base exercises and participation in field activities along with Health System (such as Quality assurance visits etc)	60	2
2	**Gender Issues** • Concept of sex and gender • Gender identity, gender discrimination and its impact on health and health care • Violence against women / domestic violence • Global issues related to gender **Assignments:** • Gender base analysis of data sets / HMIS and interpretation and presentation	30	1
3.	**Demography** • Demography – Definition & scope, demographic Cycle • Sex ratio and age pyramid • Demographic transition - demographic trends in India& globally and its impact on disease pattern and public health problems • Key demography related indicators • Population explosion **Assignments** Data base exercises Group discussion on declining sex ratio in India	60	2

	MPH - 204: Infectious and Non communicable disease epidemiology	Hours	Credits awarded
Unit No.	Course description		
1.	**Epidemiology of Infectious Diseases** • Introduction, natural history of disease, • DALYs • Disease transmission and determinants influencing disease transmission • May-Anderson equation • Epidemiological transition of communicable diseases • Principles of prevention & control of communicable diseases • Emerging & re-emerging infectious diseases • Introduction to vaccine preventable diseases **Assignments:** • Data base exercise – epidemiological disease transmission (communicable), presentation in class • Critical review of global burden of disease report.	90	3
2.	**Epidemiology of Non-communicable Diseases** • Non-communicable Diseases of Public Health Importance	60	2

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	• Emerging non communicable diseases due to changing life styles • Modifiable and non-modifiable risk factors for non-communicable disease, changing trends of risk factors • Trends and current status key NCDs globally and in India - cardiovascular diseases, diabetes, blindness, accidents, cancers, Stress **Assignments:** • Data base exercise – epidemiological transition of NCD, presentation in class • Critical review of global burden of disease report		

	MPH – 301: Health committee, Five year plans, Public Health planning and management	**Hours**	**Credits Awarded**
Unit No.	**Course description**		
1	Health committee, Five year plans Definition of administration & management, Concept , principles & theories of management Management Process & Methods in management (qualitative & quantitative) Strategic project management and Logical Framework Analysis SWOT analysis Human resource management Organizational behavior and development Material management / logistic and supply chain management Quality management and continuous quality improvement in health sector Communication in organizations, networking and advocacy **Assignments:** Conduct SWOT analysis of PHC/SC/Anganwadi or hospital departments and write a report and present in class Assessment of quality of health services	120	4 credits

	MPH – 302: HEALTH SYSTEM, POLICY AND FINANCING AND PUBLIC HEALTH MANAGEMENT , HEALTH EQUITY	**Hours**	**Credits awarded**
Unit No.	**Course description**		
1	**Health system & health care delivery** **Health Systems:** • Definition, Evolution, system approach • Health system performance, • Determinants of health system, • Health system in India (Public, private, voluntary, others). • Primary health care & Millennium Development Goals • Evidence based public health **Health care utilization**: • Concept, determinants , barriers • Health care utilization indicators **Program planning** **Health sector reform :** • Definition, areas , types and approaches • Public Private Partnership (Concept & Definition, Need for PPP, Models of PPP, Potential areas of collaboration **Assignments** • Access health care delivery system in rural area (challenges, barriers determinants) • Data base exercises – using database to study the factors affecting the utilization of health services • Critical review of any one existing public private partnership scheme of central or state government	60	2

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2.	**Policy and financing** • Five year plans and health committees • Introduction to key concept of health financing • Health policy – stakeholder analysis, national health policy and population policy, main policy analysis framework (Walt and Gilson (1994) policy analysis triangle) • Health care financing, user fee , resource mobilization and utilization • Methods in Health Economics - Cost accounting, Cost benefit analysis, cost effective analysis, cost utilization analysis • Costing , budgeting and auditing • Health Care Insurance/ Cross subsidizing • National and district health accounts **Assignments** • Critical review of conditional cash transfer scheme of India • Critical review of health policy using Walt and Gilson (1994) policy analysis framework • Critical review of national health account	60	2

	MPH – 303: IMPLEMENTATION FIELD INTERVENTION PROJECTS	**Hours**	**Credits awarded**
Unit No.	**Course description**		
1	**Community involvement in field trials** • Preliminary investigations • Seeking approvals from national and regional administration, community leaders, health care providers, community / potential participants • The information to convey • Ensuring sustained involvement	15	0.5
2	**Randomization and coding** • Unrestricted randomization, restricted randomization (small block sizes, large block sizes), stratified randomization, randomization with a matched paired design • Blind design: coding system (individual allocation, group allocation), breaking code.	15	0.5
3	**Outcome measures and case definition** • Types of outcome measures – Clinical diagnosis, standardized criteria for defining cases, deaths and verbal post-mortems, behavioural changes, transmission reduction, adverse reaction • Factors influencing the outcome measures – relevance, feasibility, acceptability • Variability and quality control of outcome measures –Reproducibility, sensitivity and specificity, bias and confounding, quality control issues.	15	0.5
4	**Qualitative research in field trials** • Designing a study • Developing an interventions • Studies initiated during a field trials • Use in analysis and interpretation of trials results	15	0.5

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5.	**Field organizations:** • Manual of field operation and study diary • Legal / administrative and ethical clearance • Personnel issues • Physical location and facilities • Equipment, supplies and other resources • Field activity, transportation / travel • Data collection and storage • Time table for field trials, Gantt chart • Logic model • Other points – emergencies, data safety and backup, communication, insurance and care for staff, photographic equipment's, recording instrument etc	30	1
6	**Field laboratory methods:** • Sample collection – type of specimens, handling specimens, blood collection, sputum and urine collection, sputum collection • Labelling and storage - • Documentation of laboratory procedures – supplies, equipment and maintenance, procedure and staff duties, unusual events • Quality control – reproducibility of test results, internal and external quality control • Links with other laboratory • Coding and linkage of results • Laboratory safety	30	1
7	**Data Processing and analysis of field trial data** • Computing requirement including software • Planning and data processing system • Data recording in field • Coding • Data entry • Preparing data for analysis – recoding variables, computing new variables, combining data from several files • Basis of statistical inference; analysis of proportions, means and rates; controlling confounding *(to be covered under biostatistics course module)*	30	1

	MPH – 304: MONITORING AND EVALUATION	**Hours**	**Credits awarded**
Unit No.	**Course description**		
1.	**Monitoring** • Definition of monitoring • Purpose / aim of monitoring • Definition of monitoring and evaluation • Difference between monitoring and evaluation	30	1
2	**Evaluation** • Why program evaluation? Purpose of evaluation • Myths about evaluation • When should evaluation be planned • Who should be involved in program evaluation? • Program logic theory / logic model framework • Stakeholder analysis • Levels of evaluation • Types of evaluation – formative, process, outcome and impact evaluation. • Evaluation designs • Indicators	60	2

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	• Methods of evaluation – qualitative and quantitative • Theory based evaluation • Impact assessment • Advantages and limitations of some commonly used qualitative methods for evaluation • Analyzing, interpreting and dissemination of evaluation findings • Assignment – Prepare action plan and protocol for evaluation of National Health Program		

	MPH – 401to 404: Research Project work	**Hours**	**Credits awarded**
Unit No.	**Course description**		
401	Selection of topic, Literature search	120	4
402	Synopsis preparation, presentation and submission to IEC	120	4
403	Field work , Data collection, and data entry and Thesis review	120	4
404	Data analysis, Report writing, Report presentation and submission	120	4

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