

पुण्यश्लोक आहिलयदेवी होळकर सोलापूर विद्यापीठ, सोलापूर

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

**Faculty of Science and Technology**

**Nature of Question Paper for NEP Pattern**

**MPH w.e.f. AY 2025-2026**

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Time:

Total Marks: 60

**Instructions**

- 1) All Questions are compulsory
- 2) Figure to Right indicate full marks

**Q.1 Choose Correct Alternative (MCQ)**

**12 Marks**

**Q.2 Answer the following. (Any Four )**

**12 marks (3+3+3+3)**

- A)
- B)
- C)
- D)
- E)
- F)

**Q.3 Answer the following (Any Three)**

**12 marks (4+4+4)**

- A)
- B)
- C)
- D)
- E)

**Q.4 Answer the following (Any Two )**

**12 Marks (6+6 )**

A)

B)

C)

**Q.5 Answer the following (Any One )**

**12 Marks**

A)

B)

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Time:

Total Marks: 40

Internal Evaluation System for 40 Marks

Choose any two of the following

Home Assignment/Unit Test/Tutorial/Seminar

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**Pattern of Examination =External Evaluation +Internal Evaluation**

**60 Marks +40 Marks =100 Marks**

**Passing Criteria**

**1.Written Exam- 24 out of 60**

**2.Continuous Assessment (CA)- 16 out of 40**

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**MPH w.e.f. AY 2025-2026**

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Time:

Total Marks: 15

**Instructions**

- 1) All Questions are compulsory
- 2) Figure to Right indicate full marks

**Q.1 Choose Correct Alternative (MCQ)**

**5 Marks**

**Q.2 Answer the following. (Any Five)**

**10 marks (2+2+2+2+2)**

- A)
- B)
- C)
- D)
- E)
- F)

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**Nature of Question Paper for NEP Pattern**

**MPH w.e.f. AY 2025-2026**

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Time:

Total Marks: 10

Internal Evaluation System for 10 Marks

Choose any two of the following

Home Assignment/Unit Test/Tutorial/Seminar

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**Pattern of Examination = External Evaluation + Internal Evaluation**

**15 Marks + 10 Marks = 25 Marks**

**Passing Criteria**

**1. Written Exam- 6 out of 15**

**2. Continuous Assessment (CA)- 4 out of 10**

**PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR Allied Health Sciences**

**Program: Master of Public Health (MPH)**

**Cumulative Credits for One Year Post-Graduate Diploma = 44**

**Cumulative Credits for Two Years Post-Graduate Degree = 88**

<b>Master of Public Health (MPH) Semester I</b>											
<b>Paper Code</b>	<b>Title of the Paper</b>	<b>Credits</b>	<b>Contact Hours/ Week</b>			<b>Distribution of Marks</b>					
			<b>Th (L)</b>	<b>Pr</b>	<b>Total</b>	<b>Internal</b>		<b>External</b>		<b>Total</b>	
						<b>Th</b>	<b>Pr</b>	<b>Th</b>	<b>Pr</b>	<b>Th</b>	<b>Pr</b>
MPHCC 01	Principles of Public health	4	4	---	4	40	---	60	---	100	---
MPHCC 02	Public Healthcare Delivery System in India	4	4	---	4	40	---	60	---	100	---
MPHCC 03	Basic Epidemiology	4	4	---	4	40	---	60	---	100	---
MPHCERM	Health Research Fundamentals, ICMR-National Institute of Epidemiology (SWAYAM Online)*	4	4	---	4	40	---	60	---	100	---
MPHOE	(01) Ethics Review of Health-AICTE Self-Paced (SWAYAM)*	4	4	---	4	40	---	60	---	100	---
	(02) Basic of Health Promotion and Education Intervention- IIT Kharagpur (SWAYAM)*										
	(03) Basic Introductory Yoga (Interdepartmental)										
MPHCP 01	Practical -1: Advanced Epidemiology	1	---	1	1	---	10	---	15	---	25
MPHCP 02	Practical-2: Basics of Biostatistics – Descriptive	1	---	1	1	---	10	---	15	---	25
<b>Total for Semester I</b>		<b>22</b>	<b>20</b>	<b>2</b>	<b>22</b>	<b>200</b>	<b>20</b>	<b>300</b>	<b>30</b>	<b>500</b>	<b>50</b>

<b>Master of Public Health (MPH) Semester II</b>											
<b>Paper Code</b>	<b>Title of the Paper</b>	<b>Credits</b>	<b>Contact Hours/ Week</b>			<b>Distribution of Marks</b>					
			<b>Th (L)</b>	<b>Pr</b>	<b>Total</b>	<b>Internal</b>		<b>External</b>		<b>Total</b>	
						<b>Th</b>	<b>Pr</b>	<b>Th</b>	<b>Pr</b>	<b>Th</b>	<b>Pr</b>
MPHCC04	Public Health Programs in India	4	4	---	4	40	---	60	---	100	---
MPHCC05	Reproductive Maternal Neonatal Child and Adolescent Health (RMNCHA+)	4	4	---	4	40	---	60	---	100	---
MPHCC06	Infectious Disease Epidemiology	4	4	---	4	40	---	60	---	100	---
MPHOJT	Public Health Internship	4	---	8	8	---	40	---	60	---	100
MPHOE	(04) Basic of Health Promotion and Education Intervention- IIT Kharagpur (SWAYAM)*	4	4	---	4	40	---	60	---	100	---
	(05) Health Psychology- English and Foreign Language University Hyderabad (SWAYAM)*										
	(06) Ethics Review of Health-AICTE Self-Paced (SWAYAM)*										
MPHCP 03	Practical-1: Advanced Biostatistics – Inferential	1	---	1	1	---	10	---	15	---	25
MPHCP 04	Practical-2: Applied Research Methods-Survey	1	---	1	1	---	10	---	15	---	25
<b>Total for Semester II</b>		<b>22</b>	<b>16</b>	<b>10</b>	<b>26</b>	<b>160</b>	<b>60</b>	<b>240</b>	<b>90</b>	<b>400</b>	<b>150</b>

**Total Number of Credits for 1 Years: 44**

**\*External Examinations for SWAYAM Online Courses will be conducted at the University with question papers set by the Paper Setting Committee**

**PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR Allied Health Sciences**

**Program: Master of Public Health (MPH)-Part I Syllabus as per NEP**

**Cumulative Credits for One Year Post-Graduate Diploma = 44**

**Cumulative Credits for Two Years Post-Graduate Degree = 88 Total Number of Credits: 88**

<b>Master of Public Health (MPH) Semester I</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>Number of Credits</b>
<b>Semester I: Major Core Compulsory Courses (MPHCC01 to MPHCP02)</b>		
MPHCC 01	Principles of Public health	<b>4 T</b>
MPHCC 02	Public Healthcare Delivery System in India	<b>4 T</b>
MPHCC 03	Basic Epidemiology	<b>4 T</b>
MPHCP 01	Advanced Epidemiology (P)	<b>1 P</b>
MPHCP 02	Basics of Biostatistics-Descriptive	<b>1 P</b>
<b>Semester I: Major Core Compulsory Elective Course: Research Methodology (MPHCERM)</b>		
MPHCERM	Health Research Fundamentals, ICMR-National Institute of Epidemiology (Swayam Online)	<b>4 T</b>
<b>Semester I: Major Core Courses Credits</b>		<b>18 (16 T + 2 P)</b>
<b>Semester I: Major Open Elective Courses (MPHOE01 to MPHOE03)</b>		
MPHOE 01	Ethics Review of Health- AICTE Self-Paced (SWAYAM)	<b>4 T</b>
MPHOE 02	Basic of Health Promotion and Education Intervention- IIT Kharagpur (SWAYAM)	<b>4 T</b>
MPHOE 03	Basic Introductory Yoga (Interdepartmental)	<b>2 T +2 P</b>
<b>Semester I: Cumulative Credits required in Sem I</b>		<b>22</b>
<b>Master of Public Health (MPH) Semester II</b>		
<b>Semester II: Major Core Compulsory Courses (MPHCC04 to MPHCP04)</b>		
MPHCC04	Public Health Programs in India	<b>4 T</b>
MPHCC05	Reproductive Maternal Neonatal Child and Adolescent Health (RMNCHA+)	<b>4 T</b>
MPHCC06	Infectious Disease Epidemiology	<b>4 T</b>
MPHCP03	Advanced Biostatistics – Inferential	<b>1 P</b>
MPHCP04	Applied Research Methods-Survey	<b>1 P</b>
<b>Semester II: Major Core Courses Credits</b>		<b>14 (12 T + 2 P)</b>
<b>Semester II: Major Elective Courses (MPHOE04 to MPHOE06)</b>		
MPHOE04	Basic of Health Promotion and Education Intervention- IIT Kharagpur (SWAYAM)	<b>4 T</b>
MPHOE05	Health Psychology- English and Foreign Language University Hyderabad (SWAYAM)	<b>4 T</b>
MPHOE06	Ethics Review of Health- AICTE Self-Paced (SWAYAM)	<b>4 T</b>
<b>Semester II: Major Elective Courses Credits</b>		<b>4 T</b>
<b>Semester II: Internship /On-Job Training (MPHOJT)</b>		
MPHOJT	Public Health Internship	<b>4 P</b>
<b>Semester II: Cumulative Credits required in Sem II</b>		<b>22</b>
<b>Total One-Year Cumulative Credits required</b>		<b>44</b>
<b>Exit option: Award PG Diploma in Public Health on completion of 44 credits after minimum Three Years UG Degree OR continue with MPH Second Year</b>		

Subject	Credits	Total Hours	Lecture Hours	Tutorial Hours	Assessment Hours
Principles of Public Health	4	60	40	10	10
Public Healthcare Delivery System in India	4	60	40	10	10
Basic Epidemiology	4	60	40	10	10
Public Health Programs in India	4	60	40	10	10
Reproductive and Maternal Child and Adolescent Health	4	60	40	10	10
Infectious Disease Epidemiology	4	60	40	10	10



Course Code	Course Title	Number of Credits
MPHCC 01	Principles of Public health	4 T

Unit I: Foundations of Public Health (10L)

- History and evolution of public health
- Determinants of health and disease
- Levels of prevention
- Core functions and essential services of public health

Unit II: Concepts and Theories in Public Health (10L)

- Health promotion and education: theories and models
- Health behaviour and risk factors
- Social determinants of health
- Equity, ethics, and human rights in public health

Unit III: Public Health Systems and Policies (10L)

- Organization of public health systems
- Role of government, NGOs, and international agencies
- Public health laws and regulations in India
- Health planning and national health policy

Unit IV: Global Public Health and Emerging Issues (10L)

- Globalization and health
- Sustainable Development Goals (SDGs)
- Climate change and health
- Disaster preparedness and response
- Emerging public health challenges

Course Code	Course Title	Number of Credits
MPHCC 02	Public Healthcare Delivery System in India	4 T

Unit I: Structure of Healthcare in India (10L)

- Three-tier health system: primary, secondary, tertiary
- Rural and urban health infrastructure
- Public, private, and voluntary sectors
- National Health Policy 2017 and its implementation

Unit II: Governance and Regulation (10L)

- Ministry of Health and Family Welfare
- Regulatory bodies: NMC, INC, NHRC
- Decentralization: Panchayati Raj institutions
- Health financing and insurance schemes (PMJAY, CGHS)

Unit III: Human Resources and Health Information (10L)

- Health workforce: recruitment, training, and retention
- Role of ASHA, ANMs, MPWs
- Health Management Information System (HMIS)
- Telemedicine and digital health systems

Unit IV: Service Delivery and Quality (10L)

- Indian Public Health Standards (IPHS)
- Quality assurance and accreditation
- Referral systems and continuum of care
- Public-private partnerships in healthcare

Course Code	Course Title	Number of Credits
MPHCC 03	Basic Epidemiology	4 T

Unit I: Introduction to Epidemiology (10L)

- Definition, scope, and uses of epidemiology
- Natural history and spectrum of disease
- Epidemiologic triad and web of causation
- Levels of prevention

Unit II: Measures in Epidemiology (10L)

- Measures of disease frequency: incidence, prevalence
- Measures of association: RR, OR, AR
- Screening and diagnostic tests: sensitivity, specificity, ROC

Unit III: Epidemiologic Study Designs (10L)

- Descriptive studies: case reports, cross-sectional studies
- Analytical studies: cohort, case-control
- Experimental studies: RCTs, community trials
- Bias, confounding, and effect modification

Unit IV: Epidemiological Data Interpretation (10L)

- Data sources and surveillance
- Outbreak investigation
- Use of software for data analysis
- Evidence-based public health practice

Course Code	Course Title	Number of Credits
MPHCC04	Public Health Programs in India	4 T

Unit I: National Health Programs – Communicable Diseases (10L)

- National Tuberculosis Elimination Program (NTEP)
- National AIDS Control Program (NACP)
- Vector-borne disease control programs
- Immunization and Universal Immunization Program (UIP)

Unit II: National Health Programs – Non-Communicable Diseases (10L)

- National Program for Prevention and Control of Cancer, Diabetes, CVD and Stroke (NPCDCS)
- Mental health program
- National Tobacco Control Program
- Ayushman Bharat and Health & Wellness Centers

Unit III: Nutrition and Environmental Health Programs (10L)

- POSHAN Abhiyan and ICDS
- Mid-Day Meal Scheme
- National Vector Borne Disease Control Program (NVBDCP)
- Swachh Bharat Mission and water sanitation initiatives

Unit IV: Monitoring, Evaluation, and Governance (10L)

- Planning, implementation, and monitoring of programs
- Program evaluation methods
- Role of NITI Aayog and National Health Mission (NHM)
- Innovations and best practices

Course Code	Course Title	Number of Credits
MPHCC05	Reproductive Maternal Neonatal Child and Adolescent Health (RMNCHA+)	4 T

Unit I: Reproductive and Maternal Health (10L)

- Family planning and contraception
- Antenatal, intranatal, and postnatal care
- High-risk pregnancy and maternal mortality
- Maternal Health Programs: Janani Suraksha Yojana, PMSMA

Unit II: Child Health (10L)

- Neonatal and infant care
- Growth monitoring and IMNCI
- Immunization and cold chain management
- Malnutrition and childhood morbidity

Unit III: Adolescent Health (10L)

- Adolescent growth and development
- Reproductive and sexual health
- School health programs
- Rashtriya Kishor Swasthya Karyakram (RKSK)

Unit IV: Policies and Strategies in RMNCH+A (10L)

- RMNCH+A approach and continuum of care
- National Population Policy
- Gender issues and rights-based approach
- Integration with Sustainable Development Goals

Course Code	Course Title	Number of Credits
MPHCC06	Infectious Disease Epidemiology	4 T

Unit I: Principles of Infectious Disease Epidemiology (10L)

- Host-agent-environment interaction
- Chain of infection and modes of transmission
- Outbreak investigation steps
- Surveillance systems: IDSP, IHIP

Unit II: Epidemiology of Key Infectious Diseases (10L)

- Tuberculosis, HIV/AIDS, and STIs
- Vector-borne diseases: malaria, dengue, chikungunya
- Zoonoses: rabies, leptospirosis, brucellosis
- Emerging and re-emerging diseases

Unit III: Control and Prevention Strategies (10L)

- Vaccination programs
- Isolation, quarantine, and containment
- WASH (Water, Sanitation and Hygiene)
- Antimicrobial resistance (AMR)

Unit IV: Programmatic and Policy Frameworks (10L)

- National and international guidelines
- IHR (2005), WHO recommendations
- Epidemic preparedness and pandemic response
- Integrated disease surveillance and reporting

Credit and Workload Distribution

Subject	Credits	Total Hours	Lecture Hours	Tutorial Hours	Assessment Hours
Principles of Public Health	4	60	40	10	10
Public Healthcare Delivery System in India	4	60	40	10	10
Basic Epidemiology	4	60	40	10	10
Public Health Programs in India	4	60	40	10	10
Reproductive and Maternal Child and Adolescent Health	4	60	40	10	10
Infectious Disease Epidemiology	4	60	40	10	10