

Faculty of Medicine



(DEEMED TO BE UNIVERSITY) MYSURU

JSS Academy of Higher Education & Research

(Deemed to be University)

Accredited "A+" Grade by NAAC

Sri Shivarathreeshwara Nagar, Mysuru - 570 015

Regulation & Syllabus

MASTERS OF PUBLIC HEALTH (MPH)

2023

MPH

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MASTER OF PUBLIC HEALTH (MPH) PROGRAM

Vision: To empower individual to lead translational research, manage large scale health program, strengthen healthcare systems, advancing public health through policy innovation, social entrepreneurship, equity, sustainability, and longevity principles.

Mission: To foster a transformative public health environment by equipping professionals with skills to address global health challenges, drive sustainable solutions, influence policy, and promote social entrepreneurship through innovative research, interdisciplinary collaboration, and community-focused initiatives.

The main goal of the Master of Public Health program is to create excellent public health professionals for planning, organizing, and delivering quality health care. The program offers one of the most widely recognized academic training and professional credentials for working in the field of public health. MPH caters to the increasing demand for public health graduates in National and International Public Health Organizations, public and private health research institutes, and Non-Governmental Organizations (NGOs). The current MPH program is tailored for career-oriented professionals with interests in re-specialization or advanced specialization in the field of public health.

The curriculum has been adopted from the model curriculum handbook prepared by the Ministry of Health and Family Welfare (2017-18). This has been revised in August 2023 considering the latest advancements in Public Health including and/or not limited to one health, Artificial Intelligence, Qualitative research, and Geographic Information Systems (GIS). This is also aligned with the current NEP 2020 guidelines. The course objective has been aligned according to the program outcomes. It is also aligned to make provisions for Bachelor of Public Health students to enter into a one-year Master of Public Health program provided they have completed 4 years of the BPH program, based on the competencies acquired and entry assessment will be conducted.

The Public Health Landscape in India

Despite significant achievements over the years, Public Health challenges continue to stretch existing resources in India and the world. Countries, across the globe, strive towards achieving the Millennium Development Goals, yet the agenda remains unfinished. With the commencement of the Sustainable Development Goals (SDG) era, a renewed thrust is required to maintain and improve upon the progress achieved so far.

While old threats continue to challenge health systems, new issues, and challenges have appeared, thereby overburdening the health systems. Countries have developed

increased ownership of creating a healthier population. Across the world, governments and voluntary organizations have worked towards strengthening the health systems through multiple approaches. The creation of a dedicated Public Health Cadre has been identified as one of the important pre-requisites in this direction. Public Health professionals help in bridging the gap between the clinical and managerial aspects of the program implementation and provide techno-managerial inputs. Public Health Programs demand a special emphasis on the study of disease epidemiology, various determinants of health and emerging challenges in health, public policy making, and program management.

The determinants of health reside both within and beyond the formal health sector. Public health, as defined by Winslow, is both an 'art' and a 'science'. Every discipline has its unique perspective of the world. We believe these perspectives from individual disciplines enrich public health. This course will be an attempt to prepare competent cadre of professionals who have a basic understanding of the various aspects of public health and are able to successfully apply this knowledge towards meeting public health challenges in Indian context

Overall Program Outcomes for Master of Public Health (MPH) Program

1. **Professional Competence:** Apply public health knowledge across a range of areas including epidemiology, public policy, and health system management.
2. **Analytical Skills:** Collect, interpret, and analyse public health data, and use these analyses to address health challenges.
3. **Research Proficiency:** Conduct quantitative, qualitative, and mixed methods research and program evaluation projects while translating findings into actionable public health initiatives and evidence-based policy making.
4. **Policy Development:** Develop, implement, and evaluate effective public health policies and programs while understanding their impact on health care systems and populations.
5. **Leadership and Management:** Demonstrate leadership and mentorship capabilities, effectively manage public health programs, and foster team dynamics within multidisciplinary health teams.
6. **Communication and Advocacy:** Demonstrate effective communication, advocacy, and dissemination of public health information to a variety of audiences, promoting health education and engagement.
7. **Ethics and Professionalism:** Uphold high standards of ethics and accountability in professional, personal, and social contexts, practicing scientific integrity and professionalism.
8. **Health Systems Navigation:** Develop comprehensive insights into local and global health

systems, including their use of emerging technologies, while facilitating inter-sectoral coordination considering various dimensions of health and public-private partnerships.

9. **Socio-cultural Competence:** Work effectively with diverse, culturally and socially varied populations, focusing on the needs of vulnerable and disadvantaged groups.
10. **Lifelong Learning and Adaptability:** Commit to continuous learning and adaptability to new challenges, techniques, and technologies in public health.
11. **Strategic Financial Planning:** Possess skills in financial planning, budgeting, and resource allocation to ensure the sustainability of public health programs.
12. **Quality Improvement:** Apply quality assurance and improvement techniques in health care to enhance the efficacy and efficiency of health services delivery.

Learning Objectives in Terms of Skills, Competencies, and Learning Outcomes

The objectives will help the candidate to develop skills in the following areas

Psychomotor domain

- Analytical and assessment skills for collecting and interpreting information
- Policy planning and development skills to address public health challenges
- Communication skills for advocacy, dissemination, and evaluation of Public Health data and information
- Financial planning and management skills for running public health programs in the country
- Leadership skills

At the end of the 2-years program, the Public Health Post-graduates are expected to demonstrate the following broad values in the context of Public Health

Affective domain

- Apply contemporary ideas to influence program organization and management, problem solving and critical thinking in public health domain
- Undertake operational research in institutional and field settings
- Work in socially, culturally and economically diverse populations by being attentive to needs of vulnerable and disadvantaged groups and be well-versed with existing health systems
- Demonstrate qualities of leadership and mentorship
- Be an effective member of a multidisciplinary health team
- Demonstrate ethics and accountability at all levels (professional, personal and social)
- Practice professional excellence, scientific attitude and scholarship
- Demonstrate social accountability and responsibility

- Be open to lifelong learning

Specific to the course content, successful candidates are expected to demonstrate the following competencies in a Public Health setting

Cognitive Domain and Competencies

1. Apply the course learning to the public health system and its challenges

- Demonstrate adequate knowledge and skills in a wide range of public health topics
- Critically conduct the situational analysis and develop an action plan for identified public health issues
- Develop a workforce for taking Public Health-related responsibilities in defined geographical areas
- Develop an understanding of the epidemiological transitions of programs specific to each state within the country to prioritize Public Health challenges for policy-making

2. Develop, implement, and evaluate key public health policies:

- Develop a capacity to apply the conceptual framework to understand policy processes in healthcare
- Understand roles of supply and demand in policy making in health care
- Develop an understanding to facilitate inter-sectoral coordination and public private partnership
- Critically analyze resource allocation for competing public health interests across programs
- Formulate context appropriate policies and design programs to address public health challenges, effectively

3. Develop and demonstrate competency in managing health systems at different levels

- Identify immediate and long-term health program goals at national, State and district levels
- Prioritize health issues in population
- Describe various managerial information systems and their application
- Describe program management plans in health
- Understand and apply core management principles for human resources in health
- Understand and apply program budgeting and economic evaluation
- Understand and apply quality assurance and improvement techniques in health care

4. Develop competency in research

- Understand and apply ethical principles in research, evaluation and dissemination
- Develop competence to critically evaluate existing information and identify gaps
- Formulate and test research hypotheses in real world scenario
- Translate research knowledge for evidence-based policymaking

Master of Public Health-Program outcomes and Course Outcomes Mapping

Papers	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Paper 1												
CO1	3	3	3	3	3	2	2	3	3	2	3	3
CO2	3	3	3	2	3	3	2	3	3	3	2	1
CO3	3	3	3	3	3	3	3	3	2	3	3	3
CO4	3	3	3	3	2	3	3	3	2	3	3	2
CO5	3	2	3	3	2	3	3	3	3	3	2	3
Paper 2												
CO1	2	3	3	2	2	3	2	2	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	2	3	3	3	3	3
CO5	3	3	3	3	3	2	3	2	3	2	3	3
Paper 3												
CO1	3	3	3	3	1	3	1	3	3	3	3	3
CO2	3	3	3	2	1	3	3	3	3	2	2	3
CO3	3	3	3	3	2	3	3	2	1	2	1	3
CO4	3	2	3	3	2	2	1	1	2	2	1	2
CO5	3	3	3	3	1	2	1	1	2	2	1	3
Paper 4												
CO1	3	3	3	2	2	3	3	2	3	3	3	3
CO2	3	3	3	2	2	3	2	2	3	3	3	3
CO3	3	3	3	2	2	3	2	2	2	3	3	3
CO4	3	3	3	2	3	3	3	3	3	3	2	3
CO5	3	3	3	3	3	3	3	3	2	3	2	3

[illegible]

Papers	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Paper 9												
CO1	2	2	3	3	2	3	3	3	2	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	2	3	3	3	2	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3	3
Paper 10												
CO1	3	2	2	3	3	3	3	2	3	3	2	3
CO2	3	3	2	2	3	3	3	3	3	3	1	3
CO3	3	3	3	2	3	3	3	2	3	2	1	3
CO4	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	2	3	2	1	3
CO6	3	3	3	2	3	3	3	3	3	3	2	3
Paper 11												
CO1	3	3	3	3	3	3	3	2	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	2	3	2	2	2
CO4	3	3	3	3	2	2	2	3	3	3	2	2
CO5	3	3	3	3	3	3	3	3	3	2	3	3
Paper 12												
CO1	3	3	3	3	3	3	2	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	2	3	3

Note: The degree of attainment is scored as 3, 2, and 1 based on the correlation of Program Outcomes (POs) and Course Outcome (COs)

Degree of Attainment	
High(H)- Substantial -(90%-100%)	3
Medium(M)- Moderate- (60%- 90%)	2
Low(L)- Slight- (Around 30%)	1

Master of Public Health Career Options

Certainly, pursuing a Master of Public Health (MPH) degree opens up a wide range of career opportunities in various sectors and organizations. Here's a breakdown of some of the career options available to MPH graduates:

1. Government Health Organizations:

National, state, and district-level health departments often hire MPH graduates as Program Managers, Project Coordinators, trainers, researchers and Epidemiologists to implement health programs and policies in **National Health Mission (NHM)**, **State Health Resource Centre**. **Government agencies** recruit MPH graduates in disease control initiatives, nutrition promotion campaigns, and community health projects.

2. Non-Government Organizations (NGOs):

NGOs working in the health sector hire MPH graduates for project management, research, advocacy, and community outreach roles.

International Agencies like the World Health Organization (WHO), United Nations Children Emergency Fund (UNICEF), United Nations Development Program (UNDP), World Bank, United Nations agencies, and others offer roles in global health policy, program management, research, and technical assistance.

National NGOs like Swamy Vivekananda Youth Movement (SVYM), Karnataka Health Promotion Trust (KHPT), and Grassroot Research and Advocacy Movement (GRAAM) also hire MPH graduates with strong communication skills who can work in health communication, advocacy campaigns, health educator/ counsellor, and health education programs.

Not for profit Organizations (NPOs) that focus on health, community development, and social welfare offer roles in program management, research, and advocacy - (Trusts and societies- Karuna Trust, Society for Community Health Awareness Research and Action (SOCHARA) trust, Yashaswini trust.

3. In Public Health Research Institutes

Like ICMR, DST, DBT, and CSIR - MPH graduates can engage in research, data analysis, and policy formulation in Public Health research institutions.

4. Corporate Social Responsibility (CSR):

MPH graduates can work in CSR divisions of companies, focusing on health-related projects, community development, and public health initiatives. (Azim Premji, Tata Trust, Reliance, Bill and Melinda Gates Foundation (BMGF), Clinton Foundation)

5. Pharmaceutical Companies:

Some pharmaceutical companies engage in Public Health projects, clinical trials, and community health initiatives that require the expertise of MPH graduates.

6. Social Entrepreneurship:

MPH graduates can start their ventures, addressing Public Health challenges through innovative solutions.

7. In Academics:

MPH graduates possess a solid foundation in public health theory and practice, making them valuable assets in academia. Within the field of academics, MPH graduates can excel as Assistant Professors. They can contribute to the education and training of students pursuing

Bachelor of Public Health (BPH) degrees by delivering lectures, conducting research, mentoring students. Additionally, they can serve as faculties in guiding BPH students through coursework and research projects.

Overall, an MPH degree equips graduates with the skills and knowledge to contribute effectively to Public Health initiatives in diverse sectors and organizations, both locally and globally. The specific roles and opportunities may vary based on the region, organization, and the graduate's area of specialization within Public Health.

Job Title	Salary Range (INR monthly)
Leadership Roles	(194,244 to 221,565)
Program / Project Coordinator/ Management	(22,000 to 136,415)
Research Analyst	(15,000 to 60,000)
Technical Expert	(35,000 to 302,202)
Others	(17,000 to 24,425)

(Ref: Dhagavkar PS, Angolkar M, Nagmoti J, Zodpey S. Mapping of MPH programs in terms of geographic distribution across various universities and institutes of India-A desk research. Front Public Health. 2024;12:1443844. Available from: <http://dx.doi.org/10.3389/fpubh.2024.1443844>)

Scope of Master of Public Health

Public Health is an exciting and emerging field of opportunity as the era has shifted from just treating disease to controlling and preventing health problems in the community. Public Health also fosters research activities aimed at promoting health and preventing health problems. The field of research not only serves the community but also at the larger level, including global health issues, such as improving access to health care, control and prevention of Communicable and Non-Communicable diseases, and reducing environmental hazards. The field of Public Health also offers great personal fulfillment in working towards improving people's health and well-being.

Given the interdisciplinary appeal of the field of Public Health, new graduates and mid-career professionals can opt for the program from any health-related field and with various educational backgrounds, including Bachelor of Public Health (BPH), Medical, Dental, AYUSH, Pharmacy, Physiotherapy, Nursing (BSc, MSc), Nutrition (MSc), Veterinary Sciences, Allied Health Sciences, Life Sciences, Sociology (MA), Graduates in Statistics, Biostatistics, Demography, Population studies, Psychology, Anthropology, Social Work. Other candidates shall be considered based upon overall aptitude and eligibility.

Demonstrated work experience in the related field is highly desirable.

Advanced Programs after MPH

Ph.D.

DrPH

Fellowship

PROGRAM DETAILS

1. Eligibility (any of the following)

Graduates in

- Medicine / AYUSH / Dentistry / Veterinary Sciences / Allied Health Sciences/ Life Sciences/ Nursing/ Physiotherapy/ Bachelor of Public Health
- Statistics / Biostatistics/ Demography / Population Studies / Nutrition / Sociology/ Psychology/ Anthropology/ Social Work

Although, the eligibility criteria make a candidate eligible to apply for the course, an aptitude test (based on relevant work experience, mathematics/ statistics knowledge, and basic English knowledge) will be conducted before admitting the students.

Interested candidates not belonging to the above criteria but are graduates in some other discipline and have a minimum 1-2 years of experience in a Public Health setting (Govt, NGO, CSR) can also be considered depending upon the overall aptitude of the candidate assessed by an entrance test conducted through School of Public Health.

2. Duration of the course: The total duration of the course is slated for 2 years (around 4 semesters) full time with internship, dissertation, and capstone project. However, in case of failing or being absent, the course can be extended to a maximum of 4 years.

3. Medium of Instruction: English

4. Attendance: Candidates shall have attended at least 80% of the total number of classes conducted in each semester for theory and practical separately from the date of commencement to the last working day as notified. Attendance for each theory paper and practical will be calculated separately. Absence due to any special circumstances and health conditions also should not cross 20% absenteeism for each paper. Candidates losing an exam due to shortage of attendance have to repeat the semester.

5. Internal assessment:

Continuous Internal Assessment (CIA): The Continuous Internal Assessments may be in the form of a combination of periodical tests, assignments, seminar and percentage of attendance. Such a schedule for CIA procedure will be displayed on the notice board in the beginning of the semester. The semester coordinator shall intimate the internal mark of the candidates and their attendance detail to the student through notice board. There shall be a minimum of two internal assessments (IA) in theory and practical examination per subject, across all subjects each semester.

The average marks of the two IA examinations shall be submitted to JSS AHER at least 15 days before the commencement of the end semester examination. Candidates require a minimum of 40% marks in internal assessment for being eligible to give semester exams. Based on this detail and CBCS regulation, the Controller of Examinations will issue hall ticket (admit cards) for

end semester examination, through HOD. During the fourth semester, CIAs of all semesters related to professionalism, values and communication shall be compiled from all the faculty and an average score shall be assigned.

Details of Sessional Assessment/ Internal Assessment for Semester I, II, III (30 marks per paper)

Examination	Assessment	Marks per paper
Test	Average of best two test performance	10
Assignment (Field visit reports, etc.)	Average of the submitted	05
Seminar	Presentation on a given topic (Average score)	05
Attendance	Per semester	05
Department activities	Per semester	05
Total		30

The question paper for the test, the topic of the assignments and seminar will be assigned by the respective semester coordinator. All tests will be conducted only on prior notice in the respective faculty. The exact date and timing will be announced by the HOD at the start of the semester.

The internal marks for attendance are as follows:

75-80% of attendance	1 mark
81-85% of attendance	2 marks
86-90% of attendance	3 marks
91-95% of attendance	4 marks
96-100% of attendance	5 marks

Overview of Core Academic and Professional Development Activities – Semester IV

- **Professional Profile Development:** Creation and enhancement of resumes for employment portals such as Indeed, DevNet Jobs, LinkedIn, and submission-ready curriculum vitae for WHO, UNICEF, and other international organizations. Includes both digital and hard copy formats.
- **Research Identity Establishment:** Creation of academic research profiles on ORCID,

Google Scholar, and ResearchGate to support scholarly visibility and collaboration.

- **Academic Evaluations and Presentations:** Internal assessments including viva voce, dissertation defense, internship report submission, mock interviews, academic assignments, and final capstone project presentations.h
- **Capstone Project Implementation:** Execution of applied projects focusing on health promotion or health system transformation, demonstrating integration of public health theory and practice.
- **Postgraduate Advancement Preparation:** Development of Statement of Purpose (SOP), drafting of PhD research proposals, and preparation for the Biostatistics, Computing, and Research (BCBR) Examination.
- **Public Health Advocacy and Promotion:** Activities aimed at increasing awareness and understanding of public health issues and the MPH program among diverse audiences.
- **Distance and Online Learning Content Development:** Preparation of module content for Open and Distance Learning (ODL) or Open Educational Programs (OEP) on specialized seminar topics.
- **Academic Dissemination:** Preparation and presentation of posters or research abstracts at Continuing Medical Education (CME) programs and academic conferences during the final semester.
- **Scholarly Publication:** Submission of original research, articles, or commentaries to peer-reviewed journals, newspapers, and public health magazines.
- **Dissertation Completion:** Finalization and submission of the Master's dissertation in alignment with academic deadlines and institutional guidelines.
- **Professional Practice Documentation:** Completion and submission of the Activity Logbook, reflecting practical learning experiences and fieldwork activities.
- **Global and National Research Opportunities:** Exploration and application for scholarships, research grants, and academic opportunities both within India and internationally.
- **Alumni Engagement and Networking:** Initiatives to strengthen alumni connections through faculty-supported outreach and structured sharing platforms.
- **Supplementary Learning and Credentials:** Participation in optional internships, certificate programs, extracurricular engagements (sports, cultural activities), and community service (e.g., NSS camps) to enhance program credentials and learning depth.
- **PARS Scale Reflection Summary:** Compilation of reflective assessments using the PARS framework from four stakeholders—faculty advisor, internship supervisor, capstone guide, and an additional faculty member.

- **Community Engagement and Editorial Contributions:** Organization of community-based public health initiatives and contributions to the Placement Brochure as an editorial team member.

Note: Paper presentations in conferences, publishing of articles, awards, performance in sports, extra-curricular activities, etc. throughout the course will have weightage and will be recognized in IV semester as achievements enhancing report writing skills, soft skills, leadership and communication skills will be the key to achieve good marks during CIAs.

Semester holidays: After the end of each semester, students will have 2 weeks break.

Optional Internship: The students have an option to do 15 days summer internship related to Swachh Bharat Abhiyan during this period. Each 15 days of internship (100 hours) will be awarded 2 credits. The report of this summer internship will be submitted and presented along with the compulsory internship during IV semester. The place of summer internship along with the organization should be discussed with the department and approved within two months of II semester.

6. Subject and hours of teaching for theory and Practical

The curriculum is designed according to the model course curriculum prepared by Ministry of Health and Family Welfare and directed by UGC through its letter (https://www.ugc.ac.in/pdfnews/6933708_UGC-letter---MPH.pdf) dated 19th Sep 2018 - D.O No. F. 14-14/2018(CPP-II) - <https://mohfw.gov.in/documents/publications>. However, the latest advancements in Public Health have been added. The curriculum has been revised in August 2023.

Experts Engaged by the Department for Subject-specific Curriculum Development

As part of the comprehensive revision of the curriculum, the department engaged a panel of distinguished subject matter experts from reputed national and international organizations to ensure academic rigor, relevance, and alignment with current public health priorities. These experts represented a broad spectrum of institutions, contributing valuable insights across key subject areas such as Population Sciences and Demography, Basic and Advanced Biostatistics, Basic and Advanced Epidemiology, Sociology and Anthropology in Public Health, Mental Health in Public Health, Public Health Nutrition, Environmental and Occupational Health, Health Economics and Finance Management, Health Disparities in Public Health, and Public Health Law, Policy, and Health Systems Management.

The experts were from organizations including the International Institute for Population Sciences (IIPS), Mumbai; RVM Institute of Medical Sciences and Research Centre, Telangana; Mel & Enid Zuckerman College of Public Health, University of Arizona, USA; University of Mysore; JSS Medical College & Hospital, Mysuru; Pravara Institute of Medical Sciences, Pune; NIMHANS, Bengaluru; Piramal Swasthya (Tribal Health Collaborative – Anamaya); ICMR Centre for Air Quality, Climate and Health; Institute of Public Health (IPH),

Bengaluru; National Health Authority (NHA); and Jawaharlal Nehru University (JNU), New Delhi. Their collective expertise significantly contributed to enhancing the curriculum's academic depth, interdisciplinary scope, contextual relevance, and practical applicability in the field of public health.

Upon successful completion of each core module, students are expected to engage in a minimum of two webinars, two expert guest lectures, relevant field visits, certified online courses, and participate in the observance of designated national and international public health days. These engagements are designed to complement theoretical learning with practical exposure, foster interdisciplinary understanding, and enhance professional competencies essential for effective public health practice.

Five CORE Competencies

Curriculum is created with the basis of strengthening **Five CORE Competencies** as mentioned by (The Association of Schools and Program of Public Health, asp-ph.org)

- i. Epidemiology
- ii. Biostatistics and Research Methodology
- iii. Health Policy and Management
- iv. Social and Behavioral Sciences
- v. Environmental Health Sciences

This is complemented by Interdisciplinary/ Cross-cutting competencies: -

- Communication and Informatics
- Diversity and Culture
- Leadership
- Professionalism
- Program Planning
- Public Health Biology
- Systems Thinking

The MPH program will comprise 12 main papers and 3 Elective Streams out of 6 streams. More options will be created for elective streams on demand and need basis. Currently, six elective streams comprising 3-6 modules have been implemented in addition to 12 main papers. A candidate needs to pass 12 main papers (compulsory), and three elective papers of the chosen streams to successfully complete the program.

Core modules (Compulsory for all)

- Fundamentals of Public Health, Demography and Population sciences, Healthcare delivery system
- Basic and Advanced Biostatistics
- Basic and Advanced Epidemiology

- Research Methodology
- Public Health Nutrition
- Reproductive, Maternal, Newborn, Child Health and Adolescent Health (RMNCH+A)
- Environmental and Occupational Health
- Introduction to Health Programs and its Evaluation
- Introduction to Health Economics, Healthcare Finance and Finance Management
- Social and Behavior Change Communication and Health Promotion (SBCC)
- Health Disparities in Public Health
- Public Health Law, Health Policy, and Health System Management

B. Elective streams:

Electives should be chosen within two months of beginning the first semester and during the first month of the second and third semesters. A minimum of five students should have been enrolled to conduct classes for a chosen elective stream.

Elective 1: Sociology and Anthropology in Public Health

Elective 2: Mental Health in Public Health

Elective 3: Quantitative Data Analysis Software (SPSS)

Elective 4: One Health

Elective 5: Technology in Healthcare

Elective 6: Social Entrepreneurship

Value added programs

Some of the following value-added programs will be delivered to the enrolled MPH students.

1. Softwares in Public Health (Canva, Microsoft Excel and PowerPoint, Grammarly, Zotero, and Mendeley)
2. Grant writing and proposal writing
3. NVIVO, ATLAS TI, and Convergence software
4. R software for Data Analysis
5. AI, and Machine Learning in Public Health
6. GIS in Public Health

Overview of activities in each Semester IV

Semester I	October	November	December	January	February	March
	Induction	Commencement of classes Elective Selection	Internal I	Capstone project initiation	Internal II	University Exam
2 weeks semester break						
Semester II	April	May	June	July	August	September
	Commencement of classes Elective Selection	Dissertation topic selection	Internal I	Synopsis presentation and submission	Internal II Pilot study and Data collection	University Exam
2 weeks - Semester break Optional Swachh Bharath Internship (15 days - 2 Credits)						
Semester III	October	November	December	January	February	March
	Commencement of classes Elective Selection	Data collection	Internal I	Completion of data collection Internship location finalization	Capstone project completion Internal II	University Exam
2 weeks semester break						
Semester IV	April	May	June	July	August	September
	Dissertation Submission		Internship & Manuscript submission			Implementation and Documentation of Capstone Project Internal & Exams

Distribution of subjects and teaching hours according to semesters

SEMESTER I

Paper	MODULES	Hours/ Week	CIA	Theory/ Practical Exam	Maxi- mum Marks	Credits
Paper I	Fundamentals of Public Health, Population Sciences, and Health care delivery system	4	30	70	100	4
Paper II	Basic and Advanced Biostatistics	4	30	70	100	4
Paper III	Basic and Advanced Epidemiology	4	30	70	100	4
Paper IV	Research Methodology	4	30	70	100	4
Elective I	Elective 1 Sociology and Anthropology in Public Health (or)	4	30	70	100	4
	Elective 2 Mental Health in Public Health					
Practical I	Spotters, Epidemiology Exercises and Biostatistics exercises	12	45	105	150	6
Total Credits for I Semester					650	26

SEMESTER 2

Paper	MODULES	Hours/ Week	CIA	Theory/ Practical Exam	Maximum Marks	Credits
Paper V	Public Health Nutrition	4	30	70	100	4
Paper VI	Reproductive, Maternal, Newborn, Child Health and Adolescent Health (RMNCH+A)	4	30	70	100	4
Paper VII	Environmental and Occupational Health	4	30	70	100	4
Paper VIII	Communicable and non-communicable diseases and their national programs	4	30	70	100	4
Elective II	Elective 3 Quantitative Data Analysis Software (SPSS) (or)	4	30	70	100	4
	Elective 4 One health					
Practical II	Spotters RMNCH+A, Environmental and Occupational Health (EOH), and Nutrition, and Nutritional exercises	12	45	105	150	6
Total credits for II Semester					650	26

SEMESTER 3

Paper	MODULES	Hours/ Week	CIA	Theory/ Practical Exam	Maxi- mum Marks	Credits
Paper IX	Introduction to Health Economics, Healthcare Finance, and Finance management	4	30	70	100	4
Paper X	Social and Behavior Change Communication (SBCC) and Health Promotion	4	30	70	100	4
Paper XI	Health Disparities in Public Health	4	30	70	100	4
Paper XII	Public Health Law, Health Policy, and Health System Management	4	30	70	100	4
Elective III	Elective 5 Technology in Healthcare (or)	4	30	70	100	4
	Elective 6 Social Entrepreneurship					
Practical III	Communication exercise (IEC) and Journal Club (JC)	12	45	105	150	6
Total credits for II Semester					650	26

SEMESTER 4

Paper	Category	CIA	Theory/ Practical Exam	Max marks	Credits
Practical IV	Dissertation submission and Research - Paper presentation	50	125	175	7
Practical V	Internship & Report submission assessment - Viva Voce	50	125	175	7
Practical VI	Capstone project	30	70	100	4
Total Credits for IV Semester				450	18

Summary of credits	
Semester	Credits
Semester I	26
Semester II	26
Semester III	26
Semester IV	18
Total	96

Note:

- The credit structure is designed in alignment with the National Credit Framework, which quantifies learning based on the total number of instructional hours.

Credit allocation is structured as follows:

- 15 hours of theoretical instruction is equivalent to 1 credit,
- 30 hours of practical/laboratory work is equivalent to 1 credit, and
- 40–45 hours of industry training or field-based learning is considered equal to 1 credit.

This structure ensures that academic, practical, and experiential learning are equitably represented in the credit system, promoting a well-rounded and competency-based education model.

- Students getting involved in Optional Internship during semester break will be awarded 2 credits depending upon the duration of the Internship and report submitted during the IV semester.

Importance of Professionalism, values, and communication:

During orientation week, the candidate will be given an overview of professionalism, the importance of professional values, and communication including;

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

A continuous objective evaluation and feedback for the above-mentioned values and behaviors for four semesters shall be done using the PARS scale. The average of the scores obtained during each semester for these shall be compiled during fourth-semester exams.

General evaluation: Each semester will have a theory exam and practical examination at the end of the semester and in addition, the fourth semester will also be evaluated on the basis of the Dissertation, Internship, and capstone project.

C. DISSERTATION

Candidates should submit their synopsis according to the standard guidelines of JSSAHER at the beginning of the second semester to their mentor/ tutor to seek appropriate approvals before embarking on the full investigation and project. Within the second semester, they will validate the data collection tool and start the data collection. In the third semester, they will complete the data collection, and by the end of the third semester, data analysis will be started. In the beginning of the fourth semester, candidates will submit their dissertation on a previously chosen and approved topic for assessment. They will also submit the manuscript for publication by the third month of the fourth semester. This will be a 7-credit course

The dissertation will be evaluated by an internal examiner (60% weightage) and an external examiner (40% weightage) including defending their dissertation and viva voce.

Guidelines for formatting MPH dissertation

1. Size: All copies of the dissertation shall have:

- a) 80 – 100 GSM A4 size (8.27" x 11.69") executive bond paper with printing on one side.
- b) The number of pages in the dissertation shall not exceed 150 pages including tables and figures.

2. Margin and spacing:

- a) Margins at the binding (left) edge must be 3.81 cm and other margins 2.54 cm. The page format should be a single column with single spacing used between the lines.
- b) Paragraphs should be separated by 1.5 spaces. All text pages should be justified.

3. Font and Font Size:

- a) Font style shall be "New Times Roman" with font size 12 for running text.
 - a. Title - font size 14 / Bold/ Numerical: 1,2,3,4
 - b. Subtitle – font size 12 / Alphabetic: a, b, c, d
 - c. Main points under subtitles - font size 12 / Numerical: (I), (II), (III), (IV).
 - d. Sub points under main points- font size 12 /Numerical: i, ii, iii, iv, v
- b) The tables and drawings shall have appropriate size as advised by the Guide.
 - a. Title of the table/ Graph/Drawing - font size 12 / Bold/ Numerical: 1,2,3,4
 - b. Subtitle the table/ Graph/Drawing – font size 11/ Alphabetic: a, b, c, d

4. Pagination:

- I) Pages must be numbered consecutively throughout the dissertation, starting from the abstract followed by the first page of the introduction including all pages whether textual or otherwise (table, figure, etc.), and finishing at the final page of the reference.
 - a. Roman numerals are used on the preliminary pages (up to the first page of text) and Arabic numerals are used on the text pages.
 - b. Page numbers shall be located centrally at the bottom of the page, approximately 0.75" (15 mm) above the edge.
 - c. Pages containing running text shall have 20 lines.
 - d. Headings of tables shall be placed at the top of the table and a consistent format must be used throughout the dissertation. The word "Table" shall be written in full (not abbreviated) (e.g., Table 7).
 - e. Captions of figures should be placed at the bottom of the figure. "Figure" should be written in full (not abbreviated).

II) The entire dissertation shall be split into the following titles:

- a. Cover page
- b. Certificates.
- c. Certification by Controller of Examination
- d. Declaration by the candidate
- e. Certificate by the guide
- f. Endorsement by the HOD / Principal
- g. Anti-plagiarism certificate (follow the guidelines)
- h. Acknowledgement.
- i. List of abbreviations, tables & figures.
- j. Content page.
- k. Abstract
- l. Structured Abstract with subtitles: Introduction, Objective, Methodology, Results and Conclusion
- m. 06 key words below the abstract.
- n. Introduction.
- o. Review of literature.
- p. Conceptual framework/ Theoretical framework and epidemiological triangle (optional)
- q. Methodology.
- r. Results.
- s. Discussions.
- t. Conclusions.
- u. Strengths and Limitations
- v. Recommendations
- w. Policy Implications
- x. References (Vancouver style)- Annexure -10

5. Printing on the spine and cover page: All copies shall be bound with the title of the dissertation, the name of the degree, the year of submission and the name of the student embossed/printed on the spine and cover page of the thesis.

6. The colour of the dissertation cover and the font details are as follows:

Maroon – Font colour: White

MPH

7. Submission of dissertation:

ii) Hard bound copy: The MPH candidate shall submit the final hard bound thesis as per the guidelines before the final date given by the Controller of Examinations, duly certified by the supervisor. Any late submission will be subjected to fine depending on the number of days.

8. Anti-plagiarism guidelines

a. The MPH candidates shall subject the dissertation for Plagiarism check using anti-plagiarism

software.

b. The MPH candidates shall submit their dissertation along with Plagiarism check certificate from the Departmental Academic Integrity Panel (DAIP).

c. Permitted similarity index as per the anti- plagiarism guidelines are as follows:

% Permitted Similarity index	< 10%
Total continuous words	Not exceeding 14 words

The work-flow and other details can be referred from the JSS AHER Anti-plagiarism Policy-2018 available on the JSS AHER website.

Guide: A guide will be a full-time Postgraduate teacher of a constituent college of JSS AHER for supervision of dissertation work. Qualification of the guide will be MPH/MD/Ph.D. from the School of Public Health or any other department related to the determinants and dimensions of Health. They should have two years of teaching experience + two Publications in indexed journals (First or Corresponding author) or two research projects as PI with a budget of a minimum of one lakh per project. A Guide from other departments other than the School of Public Health should also have two years of teaching experience with two publications and will always be accompanied by a Co-Guide from the School of Public Health. For a Co-Guide from the School of Public Health should be a faculty and have taught at least a semester.

Change of Guide: The guide may be changed with prior permission from the Deemed to be University.

Submission of Dissertation: Four copies of the dissertation duly certified by the Guide, Head of the Department, and Head of Institute will be submitted to the Registrar (Evaluation), JSS AHER, through the Head of the Department at least four months before the Deemed to be University Examination of MPH Sem IV.

D. INTERNSHIP

A three-months internship program will be undertaken by all the candidates to integrate learning and practice in an active public health organization. This can be undertaken at governmental or non-governmental Public Health organizations or program management units, CSRs, pharmaceutical companies, healthcare technology, and developmental organizations. The internship should include the candidate's role and support in assessing, monitoring, or conducting surveillance of health problems/ services in a population; research on population-based health problems; and developing and/or implementing policies and intervention strategies to meet Public Health needs.

Overall, it should contribute to the organization and should help in understanding Public Health management and coordination and gaining personal confidence and leadership experience.

Although finding a suitable internship opportunity lies with the candidate him/ herself, mentors will facilitate the process. After the completion of 3 months of internship, candidates will be expected to submit a summary of the Public Health program/ challenge dealt with and the solution proposed/ implemented by the candidate at the end of the semester. The internship is worth seven (7) credits. Selecting the location, organization, and structure of the internship, with deliverables should be discussed with relevant stakeholders and mentors and submitted in the second month of III semester. Monitoring of the candidate's performance and cross-checking attendance shall be done by both the guide/ mentor from the School of Public Health, and the external supervisor where the internship is done.

CAPSTONE PROJECT

The capstone project has been designed with the principles of operational research, social entrepreneurship, and implementation research in mind for one-month with 4 credits. The students will learn to identify the problems in the community or system and develop a solution through a validated process which will enhance their ability by working in real-life scenarios, and contributing to the society.

End semester Examination:

- a. **JSSAHER Examinations:** The JSSAHER shall conduct theory and practical examinations for the core subjects at the end of each semester. The candidates, who fulfill the requirement of attendance and Internal Assessment shall be eligible to appear for end semester examination. The candidates shall have passed all the subjects of semester I, II, III & IV before being awarded the degree. However, candidate can give IV semester exams before he/she completes other semesters as they cannot attend two semester classes at the same time and semester classes are Odd-Odd and Even-Even semester based.
- b. **Non JSSAHER Examinations:** Examinations for elective subjects shall be conducted by the department and the marks obtained shall be submitted at least 15 days prior to the end semester examination. The marks of non-core subjects shall be incorporated in the marks card issued by JSSAHER.

Scheme of Examination:

Question paper pattern for semester theory examinations (70 marks)

Time: 3 Hours**Maximum Marks 70**

Part A	Long Answers Answer any two questions out of three	$2 \times 10 = 20$
Part B	Short Answers Answer all the eight questions	$5 \times 8 = 40$
Part C	Case studies Answer all the questions	$2 \times 5 = 10$
		Total 70 marks

Examiners

- a. **Appointment of Examiners:** Examiners shall be appointed by the Deemed to be University to conduct the end semester Deemed to be University examinations, from the panel of examiners approved by the Board of Studies. For Practical examinations, there shall be one external examiner and one internal examiner. Theory papers shall be valued by both examiners.
- b. **Qualification and Experience of Examiner:** Any faculty or Public Health expert with MPH/ MD Community Medicine/ PhD, with a minimum of 5 years' experience, (in which a minimum of 2 years of teaching experience and 3 years of Public Health field experience) are eligible to become external examiners. Internal examiners can be faculties from the School of Public Health, who have completed minimum 2 years of teaching experience

Criteria for pass

Core Subjects: Candidates are declared to have passed in a subject if they secure 50% marks in Deemed to be University examination and internal assessment added together. Theory & practical shall be considered as separate papers

Elective papers: The minimum prescribed marks for pass shall be 50% of the maximum marks prescribed for a subject.

Grading of performances**a) Letter grades and grade points allocations**

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in the below table.

Letter grades and grade points equivalent to percentage of marks and performances

Percentage of Marks obtained	Letter Grade	Grade Point	Performance
90.00 - 100	O	10	Outstanding
80.00 - 89.99	A	9	Excellent
70.00 - 79.99	B	8	Good
60.00 - 69.99	C	7	Fair
50.00 - 59.99	D	6	Satisfactory
Less than 50	F	0	Fail
Absent	AB	0	Fail

A candidate who remains absent for any end-semester examination shall be assigned letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

b) The Semester Grade Point Average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses (Theory/Practical) in a semester with credits C1, C2, C3, C4, C5, and C6 and the student's grade points in these courses are G1, G2, G3, G4, G5, and G6, respectively, and then students' SGPA is equal to:

$$\text{SGPA} = \frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5 + C6G6}{C1+C2+C3+C4+C5+C6}$$

The SGPA is calculated to two decimal points. It should be noted that the SGPA for any semester shall take into consideration the F and ABS grades awarded in that semester. For example, if a learner has a For ABS grade in course 4, the SGPA shall then be computed

$$\text{SGPA} = \frac{C1G1 + C2G2 + C3G3 + C4 * \text{ZERO} + C5G5 + C6G6}{C1 + C2 + C3 + C4 + C5 + C6}$$

C)Cumulative

Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the IV semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all IV semesters and their courses. The CGPA shall reflect the failed status in case of F grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent

examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as

$$\text{CGPA} = \frac{\text{C1S1} + \text{C2S2} + \text{C3S3} + \text{C4S4}}{\text{C1} + \text{C2} + \text{C3} + \text{C4}}$$

where C1, C2, C3.... is the total number of credits for semester I, II, III, and S1, S2, S3,..is the SGPA of semester I,II,III,..

Declaration of class

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction = CGPA of 7.50 and above (Only for first attempt, exceptions can be considered only by Deemed to be University authorities)

First Class = CGPA of 6.00 to 7.49

Second Class = CGPA of 5.00 to 5.9

Carry over

Since there will be no odd batch, candidate who have lost the papers due to attendance shortage have to attend the classes along with the regular semester for both theory and practical. Candidate cannot attend two semesters at a time. But, if the candidate has failed in an exam, he/she will be given additional exams during semester exams. However, he/she will not be awarded the degree till he/ she completes all the semester exams.

Award of Ranks/ Medals

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more subject during the course shall not be eligible for award of ranks.

Award of degree

A candidate who has passed in all the subjects (core/elective papers) of all the semesters and has successfully completed the dissertations and capstone internship shall be eligible for award of degree.

Revaluation and Retotaling of answer papers

There is no provision for revaluation and retotaling of the answer papers in any examination.

Maximum duration for completion of course

A candidate shall complete the course within four years from date of admission, failing which candidate shall re-register for the course. However, in case of pregnancy total duration of completion can be extended up to 4 years plus 270 days

Reference Text Books

1. Park's Textbook of Preventive and Social Medicine by K.Park
2. Public Health and Preventive Medicine (Maxcy-Rosenau-Last Public Health and Preventive Medicine) by Robert B. Wallace
3. Basic Epidemiology. R Bonita, R Beaglehole, T Kjellstrom. World Health Organization Geneva.
4. Epidemiology by Leon Gordis.
5. Oxford Textbook of Public Health by Holland W, Detel R, Know G.
6. Essentials of Preventive medicine by Ghai OP
7. Practical Epidemiology by D.J.P Barker
8. Preventive and Community Medicine : Clark &MacMahon
9. Medical Statistics: Principles and Methods by Sundaram, S N Dwivedi, V Sreenivas
10. Elements of Health Statistics by N S N Rao
11. An Introduction of Biostatistics by Sunder Rao P S S
12. Epidemiology, Principles and Methods by B. MacMahon, D. Trichopoulos
13. Hunter's Diseases of Occupations by Donald Hunter,PABRaffle,PH Adams,- Peter J. Baxter,WR Lee.
14. Sathe PV and Sath AP Epidemiology and Management for Health Care for All.
15. Text book of Public Health and Community Medicine by RajvirBhalwar, AFMC.
16. Community Medicine and its Recent Advances by AH Suryakanth
17. Text Book of Preventive and Social Medicine by Sunderlal
18. National Health Program by Jugal Kishore
19. Recent Advances in Occupational Health by Harrington
20. All reports and documents related to National Programmes from the
21. Ministry of Health and Family Welfare- Government of India.
22. Text book of Sociology by Dr.Vidyabhushan.
23. Module 1: Health care delivery system in India by National Institute of Health and Family Welfare. New Delhi.
24. Module 4: Human Resource Management. National Institute of Health and Family Welfare. New Delhi.
25. LSHTM - MSc Demography and Health curriculum
26. University of California, Berkely - fundamentals of Population science
27. International Institution of Population Science - Mumbai.
28. LSHTM - MSc Demography and Health curriculum
29. Communication for Social and Behaviour Change. Modules for Academic and Training Institutions in India. UNICEF

LIST OF ABBREVIATIONS

AEFI	Adverse Event Following Immunization
AIDS	Acquired Immuno-Deficiency Syndrome
BCC	Behaviour Change Communication
CBA	Cost Benefit Analysis
CEA	Cost Effective Analysis
CD	Communicable Diseases
CPCB	Central Pollution Control Board
CRS	Civil Registration System
DLHS	District Level Health Survey
GSI	Gender and Social Inclusion
HMIS	Health Management Information System
IDSP	Infectious Disease Surveillance Program
IEC	Information Education and Communication
IPC	Inter Personal Communication
M&E	Monitoring and Evaluation
MCH	Maternal and Child Health
MCTS	Mother and Child Tracking System
MDG	Millennium Development Goals
MNCH	Maternal, New-born and Child Health
MPH	Master of Public Health
NCD	Non-Communicable Diseases
NFHS	National Family Health Survey
NHP	National Health Policy
OR	Operational Research
PHE	Public Health Education
PPP	Public Private Partnership
RMNCH+A	Reproductive, Maternal, Newborn, Child, and Adolescent health
SBCC	Social and Behaviour Change Communication

SDG	Sustainable Development Goals
SPSS	Statistical Package for the Social Sciences
SRS	Sample Registration Survey
STI	Sexually Transmitted Infections
SWOT	Strength, Weakness, Opportunities and Threats
TB	Tuberculosis
SAFE	Safety, Acceptability, Feasibility and Effectiveness