

ACADEMIC CURRICULUM AND SYLLABI

POSTGRADUATE DEGREE PROGRAMME

MASTER OF PUBLIC HEALTH

Two Years (Full-Time)

CHOICE BASED CREDIT SYSTEM

(For the Students Admitted from the Academic Year 2018 – 2019)

SCHOOL OF PUBLIC HEALTH



(Estd. Under SRMUS Act, 2013)

Shri Ramasamy Memorial University Sikkim
5th Mile, Upper Tadong, Gangtok, East Sikki- 737102, India

SCHOOL OF PUBLIC HEALTH

| 1. Department Vision Statement | |
|--------------------------------|--|
| Statement -1 | To create communities that are healthy and disease free globally |
| Statement -2 | To impart innovative and quality education in the realm of Public Health |
| Statement -3 | To evolve into a research hub for the northeast India |

| 2. Department Mission Statement | |
|---------------------------------|---|
| Statement -1 | To bring sustainable and positive changes in the health sector by providing quality education in Public Health. |
| Statement -2 | To produce researchers with skills and ability to conduct quality ethical research. |
| Statement -3 | To promote innovation and dissemination of sustainable solutions to health threats and problems |
| Statement -4 | To advocate translation of research into sustainable practices and policies. |
| Statement -5 | To produce socially sensitive public health leadership with multidisciplinary research aptitude |

| 3. Program Objectives (PO) | |
|----------------------------|--|
| PO – 1 | To develop public health leaders with strong understanding on public health issues and solutions |
| PO – 2 | To develop knowledge on developing disease prevention models for various public health |
| PO – 3 | To develop strong oral and written communication skills for participation in research/policy making processes at local, national and international levels. |
| PO – 4 | To produce public health professionals / practitioners with strong scientific, technical and social capabilities |
| PO – 5 | To develop an innovative mindset among the learners to improve the health outcome of communities. |

| 4. Consistency of POs with Mission of the Department | | | | | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| POs / Mission Stmt | Mission Stmt. – 1 | Mission Stmt. – 2 | Mission Stmt. – 3 | Mission Stmt. – 4 | Mission Stmt. – 5 |
| PO – 1 | H | H | H | H | H |
| PO – 2 | H | M | H | H | H |
| PO – 3 | H | M | H | H | H |
| PO – 4 | H | H | H | H | H |
| PO - 5 | H | H | H | M | H |

H – High Correlation, M – Medium Correlation, L – Low Correlation

| 5. Consistency of POs with Program Learning Outcomes (PLO) | | | | | | | | | | | | | |
|--|---------------------------------|------------------|---|---|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|--|
| Program Objective | Program Learning Outcomes (PLO) | | | | | | | | | | | | |
| | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | |
| | Professional Knowledge | Problem Analysis | Design and Development of Solution and Policies | Inter and Transdisciplinary Development | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development | |
| PO – 1 | H | H | H | H | H | H | H | M | H | H | H | H | |
| PO – 2 | H | H | M | M | H | H | H | M | H | H | M | H | |
| PO – 3 | H | H | H | M | M | H | H | H | H | H | H | M | |
| PO – 4 | H | H | H | H | H | H | H | H | H | H | M | H | |
| PO – 5 | H | H | M | M | H | H | H | H | H | H | M | H | |

H – High Correlation, M – Medium Correlation, L – Low Correlation

| 6. Programme Structure (Total Credits: 92) | | | | | | | | | | | | | |
|---|---|------------|---|---|---|----|--|---|------------|---|---|---|----|
| 1. Professional Core Courses (30 Credit) (8 Courses) | | | | | | | 2. Discipline Specific Elective Courses (DSE) (3 Courses) | | | | | | |
| Course Code | Course Title | Hours/Week | | | | | Course Code | Course Title | Hours/Week | | | | |
| | | L | T | P | C | | | | L | T | P | C | |
| MPH1811 | Social and Behavioral Aspects of Public Health | 1 | 1 | 2 | 4 | | MPH1831 | Public Health Project Management | 3 | 1 | 2 | 5 | |
| MPH1812 | Health Care Systems and Policies | 2 | 1 | 2 | 4 | | MPH1835 | Public Health Monitoring and Evaluation | 3 | 1 | 0 | 4 | |
| MPH1813 | Infectious and Non Communicable Disease Epidemiology | 2 | 1 | 2 | 4 | | MPH1836 | Health Management Information System | 1 | 1 | 0 | 2 | |
| MPH1823 | Population Sciences | 2 | 1 | 2 | 4 | | Total Learning Credits | | | | | | 11 |
| MPH1824 | Women child Health and Gender Studies | 2 | 0 | 0 | 2 | | | | | | | | |
| MPH1825 | Health Economics and Health care Financing | 2 | 1 | 2 | 4 | | | | | | | | |
| MPH1826 | Public Health Nutrition and Food Safety | 1 | 1 | 2 | 3 | | | | | | | | |
| MPH1827 | Health Promotion and Behavioural Change Communication | 1 | 1 | 2 | 3 | | | | | | | | |
| Total Learning Credits | | | | | | 28 | | | | | | | |

| 3. Generic Elective Courses (GE) (3 Courses) | | | | | | |
|---|--|------------|---|---|-----------|--|
| Course Code | Course Title | Hours/Week | | | C | |
| | | L | T | P | | |
| MPH1832 | Human Resource Management | 2 | 1 | 0 | 3 | |
| MPH 1833 | Organizational Behavior | 1 | 1 | 0 | 3 | |
| MPH1834 | Quality Assurance and Total Quality Management | 3 | 1 | 0 | 4 | |
| Total Learning Credits | | | | | 10 | |

| 5. Project Work, Internship In Industry / Higher Technical Institutions(P) | | | | | | |
|--|------------------------------------|------------|---|---|-----------|--|
| Course Code | Course Title | Hours/Week | | | C | |
| | | L | T | P | | |
| MPH1841 | Research Study (Summer Internship) | 0 | 0 | 1 | 8 | |
| MPH1842 | Internship / Project Work | 0 | 0 | 4 | 20 | |
| Total Learning Credits | | | | | 28 | |

| 4. Skill Enhancement Courses(SEC) (4 Courses) | | | | | | |
|--|-------------------------------|------------|---|---|-----------|--|
| Course Code | Course Title | Hours/Week | | | C | |
| | | L | T | P | | |
| MPH1814 | Fundamentals of Biostatistics | 2 | 1 | 2 | 4 | |
| MPH1822 | Public Health Ethics and Laws | 2 | 0 | 0 | 2 | |
| MPH1815 | Epidemiology | 2 | 1 | 2 | 4 | |
| MPH1821 | Research Methodology | 3 | 0 | 4 | 5 | |
| Total Learning Credits | | | | | 15 | |

| 6.Ability Enhancement Courses (AEC) (3 Courses) | | | | | | |
|--|----------------|------------|---|---|---|----------------|
| Course Code | Course Title | Hours/Week | | | C | |
| | | L | T | P | | |
| Not Applicable | Not Applicable | | | | | Not Applicable |

| Course Structure | | | | | | | | |
|----------------------|-------------------------------|---|--------------------------------|--------------------------------|----------------------------------|------------------------------|---------------|-------------|
| Semester | Professional Core Courses (C) | Discipline Specific Electives Courses (DSE) | Generic Electives Courses (GE) | Skill Enhancement Courses(SEC) | Ability Enhancement Courses(AEC) | Project Work, Internship (P) | Total Credits | Total Hours |
| Sem I | 4 | 0 | 0 | 2 | 0 | 0 | 24 | 360 |
| Sem II | 4 | 0 | 0 | 2 | 0 | 0 | 19 | 285 |
| Sem III | 0 | 3 | 3 | 0 | 0 | 0 | 21 | 315 |
| Sem IV | 0 | 0 | 0 | 0 | 0 | 2 | 28 | 420 |
| Total Credits | 28 | 11 | 10 | 15 | 0 | 28 | 92 | 1388 |

7. Implementation Plan

| Semester – I | | | | | | |
|------------------------|---|------------|---|---|----|--|
| Course Code | Course Title | Hours/Week | | | C | |
| | | L | T | P | | |
| MPH1811 | Social and Behavioural Aspects of Public Health | 2 | 1 | 2 | 4 | |
| MPH1812 | Health Care Systems and Policies | 2 | 1 | 2 | 4 | |
| MPH1813 | Infectious and Non Communicable Diseases | 2 | 1 | 2 | 4 | |
| MPH1823 | Population Sciences | 2 | 1 | 2 | 4 | |
| MPH1814 | Fundamentals of Bio Statistics | 2 | 1 | 2 | 4 | |
| MPH1815 | Epidemiology | 2 | 1 | 2 | 4 | |
| Total Learning Credits | | | | | 24 | |

| Semester - II | | | | | | |
|------------------------|---|------------|---|---|----|--|
| Course Code | Course Title | Hours/Week | | | C | |
| | | L | T | P | | |
| MPH1822 | Public Health Ethics and Law | 2 | 0 | 0 | 2 | |
| MPH1824 | Women Child Health and Gender Studies | 2 | 0 | 0 | 2 | |
| MPH1825 | Health Economics and Health Care Financing | 2 | 1 | 2 | 4 | |
| MPH1826 | Public Health Nutrition and Food Safety | 1 | 1 | 2 | 3 | |
| MPH1827 | Health Promotion and Behaviour Change Communication | 1 | 1 | 2 | 3 | |
| MPH1821 | Research Methodology | 3 | 0 | 4 | 5 | |
| Total Learning Credits | | | | | 19 | |

| Semester – III | | | | | | |
|------------------------|--|------------|---|---|----|--|
| Course Code | Course Title | Hours/Week | | | C | |
| | | L | T | P | | |
| MPH1831 | Public Health Projects Management | 3 | 1 | 2 | 5 | |
| MPH1832 | Human Resource Management | 2 | 1 | 0 | 3 | |
| MPH1833 | Organizational Behavior | 2 | 1 | 0 | 3 | |
| MPH1834 | Quality Assurance and Total Quality Management | 3 | 1 | 0 | 4 | |
| MPH1835 | Public Health Monitoring and Evaluation | 3 | 1 | 0 | 4 | |
| MPH1836 | Health Management Information System | 1 | 1 | 0 | 2 | |
| Total Learning Credits | | | | | 21 | |

| Semester - IV | | | | | | |
|------------------------|------------------------------------|------------|---|----|----|--|
| Course Code | Course Title | Hours/Week | | | C | |
| | | L | T | P | | |
| MPH1841 | Research Study (Summer Internship) | 0 | 0 | 16 | 8 | |
| MPH1842 | Internship (Project Work) | 0 | 0 | 40 | 20 | |
| Total Learning Credits | | | | | 28 | |

Total Learning Credits :92

| 8. Program Articulation Matrix | | | | | | | | | | | | | |
|--------------------------------|--|---------------------------|------------------|---|---|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| Course Code | Course Name | Program Learning Outcomes | | | | | | | | | | | |
| | | Professional Knowledge | Problem Analysis | Design and Development of Solution and Policies | Inter and Transdisciplinary Development | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| MPH1811 | Social and Behavioural aspects of Public Health | H | H | M | M | H | M | H | M | H | H | M | H |
| MPH1812 | Health Care Systems and Policies | H | H | M | M | H | M | H | H | H | H | M | H |
| MPH1813 | Infectious and Non Communicable Disease Epidemiology | H | H | M | M | H | M | H | H | H | H | M | H |
| MPH1814 | Fundamentals of Bio Statistics | H | H | M | M | H | H | H | H | M | M | M | H |
| MPH1816 | Epidemiology | H | H | H | H | H | H | H | H | H | H | M | H |
| MPH1817 | Population Sciences | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1821 | Research Methodology | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1822 | Public Health Ethics and Law | H | H | H | H | H | H | H | M | M | H | M | H |
| MPH1824 | Women , Child Health and Gender Issues | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1825 | Health Economics and Health care Financing | H | H | H | H | H | H | H | H | H | M | H | H |
| MPH1826 | Public Health Nutrition and Food Safety | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1827 | Health Promotion and Behaviour Change Communication | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1831 | Public Health Project Management | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1832 | Human Resource Management | H | H | H | M | M | M | H | H | H | H | H | H |
| MPH1833 | Organizational Behaviour | H | H | M | M | H | M | H | H | H | H | H | H |
| MPH1834 | Quality Assurance and Total Quality Management | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1835 | Public Health Monitoring and Evaluation | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1836 | Health Management Information Systems | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1841 | Research Study / Summer Internship study | H | H | H | H | H | H | H | H | H | H | H | H |
| MPH1842 | Internship / Project Work | H | H | H | H | H | H | H | H | H | H | H | H |
| | Program Average | | | | | | | | | | | | |

H – High Correlation, M – Medium Correlation, L – Low Correlation

SEMESTER-I

| Course Code | MPH1811 | Course Name | Social and Behavioral Aspects of Public Health | Course Category | C | CORE | L | T | P | C |
|---------------|---------|---------------|--|-----------------|-----|------|---|---|---|---|
| | | | | | | | 2 | 1 | 2 | 4 |
| Pre-requisite | | Undergraduate | | Co-requisite | Nil | | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|---|---|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution and Policies | Inter and Transdisciplinary Development | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Define the fundamental concepts of health and disease | 1 | H | M | M | H | M | M | H | M | M | H | M | M |
| CLO-2 | Compare various determinants of health and disease | 2 | H | H | M | H | H | H | H | M | H | H | H | H |
| CLO-3 | Explain the role of perception, knowledge and practices in shaping healthy behavior using case studies. | 2 | H | H | M | M | H | H | H | H | H | H | H | H |
| CLO-4 | Identify various social issues and their impact on health and wellbeing of population. | 3 | H | H | H | H | H | H | H | H | H | H | H | H |
| CLO-5 | Analyze various tools to assess different social and behavioral issues that influence population health. | 4 | H | H | H | M | M | H | H | H | M | H | H | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Introduction to Public Health | 10 | 1,2 |
| 2 | Perception, Knowledge and practices in Public Health | 15 | 1,2,3,5 |
| 3 | Social Determinants of Health | 12 | 1,2,3,4,5 |
| 4 | Social and Community Health Issues | 10 | 1,2,3,4,5 |
| 5 | Social Behavioral Aspects of Public Health | 13 | 1,2,3,4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | 1. Public Health and Community Medicine RajVirThalwar. First edition-AFMC & WHO, 2009 2. Equity, Social Determinants and Public Health Programs,-Blas.E.,Kurup. A.S.-WHO, 2012 |
| Ref. Books | 1. Health Behavior and Health Education: Theory, Research and Practice. -Glanz, Rimer, Lewis: Jossey Bass 3 Edition, -Wiley, 2009 2. Designing and Conducting Health Surveys: A comprehensive guide-Jossey- Bass – Chapters 8-11, (Third Edition)-Wiley, 2009 3. Oxford textbook of Public Health -Detels, McEwen, Beaglehole and Tanaka, Fifth Edition- Oxford University Press, 2011 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | Practical Proposal / Modeling | Final Examination (60 % weightage) | |
|------------------------------|------------|--|---------------------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | | Theory | Practical |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 0 | 0 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 5 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 0 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 0 | 0 | 5 | 0 |
| | Total | 10 | 10 | 15 | 5 | 0 | 60 | 0 |

| Course Designers | | |
|--|--|--|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | Ms. Geetha Veliah Assistant Professor, School of Public Health SRM Institute of Science & Technology Kattankulathur, Tamil Nadu. veliahg@gmail.com | Prof. Ch. Satish Kumar Vice chancellor, SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head, School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.edu.in Mr. C.M Niranjana . Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in |

SEMESTER-I

| Course Code | MPH1812 | Course Name | Health Care Systems and Policies | Course Category | C | CORE | L | T | P | C |
|---------------|---------|---------------|----------------------------------|-----------------|---|------|---|---|---|---|
| Pre-requisite | | Undergraduate | | Co-requisite | | Nil | 2 | 1 | 2 | 4 |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom’s Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|---|-----------------------------|---------------------------------|------------------|---|---|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution and Policies | Inter and Transdisciplinary Development | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Explain various types and characteristics of health systems and its historical development. | 2 | H | M | M | H | M | H | H | M | H | H | M | H |
| CLO-2 | Compare the health system models of various countries | 2 | H | H | M | H | M | H | H | M | M | H | M | M |
| CLO-3 | Distinguish between the mainstream health system and alternative systems of healthcare | 4 | H | M | H | H | H | H | H | H | H | H | H | H |
| CLO-4 | Explain various health care standards and evaluation methods | 5 | H | H | H | H | M | H | H | M | H | H | H | H |
| CLO-5 | Evaluate various health policies and the process involved in health policy making | 5 | H | H | H | H | H | H | H | H | H | H | H | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--------------------------------------|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Introduction to Health system | 10 | 1, 2 |
| 2 | Global Health | 10 | 2,4,5 |
| 3 | Alternative Systems of Health Care | 10 | 1,3,5 |
| 4 | Health care Standards and Evaluation | 15 | 2,4,5 |
| 5 | Health Policy and Planning | 15 | 2,3,4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | <ol style="list-style-type: none"> Health Policies and Programmes in India-Dr D K Taneja, 12th edition-Doctors' Publication, 2013 Better Health Systems for India's Poor: Findings, Analysis, and Options-David H. Peters, Abdo S. Yazbeck, Rashmi R. Sharma, G. N. V. Ramana, Lant H. Pritchett and Adam Wagstaff, -World Bank, 2002 Indian Public Health Standards, National Health mission, ministry of Health and Family welfare, -Ministry of Health and Family Welfare -Government of India, 2006 |
| Ref. Books | <ol style="list-style-type: none"> Public Health Legislation in India, -Bratati Banarjee, -Doctors Publication New Delhi, 2014 National Health Policy, -GOI, 2000-GOI, 2000 Annual Report, Ministry of Health and Family Welfare-GoI, 2010-2014-GoI, 2010-2014 |

| | |
|--|--|
| | 4. Contemporary Public Health: Policy, planning, management-J.P Gupta, A.K. Sood-Apothecaries Foundation, 2005 |
| | 5. Health Care Systems, Efficiency and Institutions-Isabelle Joumard, Christophe André and Chantal -OECD, 2010 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | | Final Examination (60 % weightage) | |
|------------------------------|------------|--|---------------------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | Practical Proposal / Modeling | Theory | Practical |
| | | | | | | | | |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 0 | 0 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 5 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 0 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 0 | 0 | 5 | 0 |
| | Total | 10 | 10 | 15 | 5 | 0 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | | Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in |

SEMESTER-I

| Course Code | MPH1813 | Course Name | Infectious and Non Communicable Disease Epidemiology | Course Category | C | CORE | L | T | P | C |
|---------------|---------|---------------|--|-----------------|-----|------|---|---|---|---|
| Pre-requisite | | Undergraduate | | Co-requisite | Nil | | 2 | 1 | 2 | 4 |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|---|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Summarize classification of different diseases and the public health burden | 2 | H | H | M | H | M | H | H | M | M | H | M | H |
| CLO-2 | Analyze infectious diseases epidemiology | 4 | H | H | H | M | H | H | H | H | H | H | H | H |
| CLO-3 | Illustrate various disease control programs in India and the world. | 2 | H | H | H | H | H | H | H | H | H | H | H | H |
| CLO-4 | Examine the various principles and aspects of non-communicable disease control. | 4 | H | H | M | H | M | H | H | M | M | H | M | H |
| CLO-5 | Analyze the various risk factor epidemiology of various important Non Communicable Diseases (NCD) | 4 | H | H | H | H | H | H | H | H | H | H | H | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Public Health Burden of Diseases | 08 | 1,2,5 |
| 2 | Infectious Disease Epidemiology | 10 | 1,2,3 |
| 3 | Disease control programs | 15 | 2,3 |
| 4 | Principles of Non Communicable disease control | 15 | 1,4,5 |
| 5 | Risk Factor Epidemiology of Important NCD | 12 | 4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | <ol style="list-style-type: none"> 1. Textbook of Public Health and Community Medicine -Raj Vir Thalwar. First edition, - AFMC & WHO, 2009 2. Global status report on non-communicable diseases -World Health Organization -Chapter 2-4, WHO, 2010 |
| Ref. Books | <ol style="list-style-type: none"> 1. Burden of Disease in India National Commission on Macroeconomics and Health, 2008 2. Equitable development and health future. Chapter on Disease Burden in India estimation and Causal Analysis. MOFW, GOI, -Ministry of Health & Family Welfare, Government of India, 2005 Communicable disease Epidemiology and control A global perspective. -Roger Weber-CABI Publisher Chapter 1-4. 2009 3. Epidemiology, Biostatistics, Preventive Medicine, and Public Health-Katz DL, Wild D, Elmore JG, Lucan SC. Jekel's 4th Edition. -Saunders, 2013 4. Oxford textbook of Public Health -Fifth Edition: Detels, McEwen, Beaglehole and Tanaka, -Oxford University Press, 2011 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | Practical Proposal / Modeling | Final Examination (60 % weightage) | |
|------------------------------|------------|--|---------------------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | | Theory | Practical |
| | | | | | | | | |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 0 | 0 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 5 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 0 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 0 | 0 | 5 | 0 |
| | Total | 10 | 10 | 15 | 5 | 0 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | | <p>Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in</p> <p>Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in</p> <p>Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in</p> <p>Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in</p> |

SEMESTER-I

| Course Code | MPH1815 | Course Name | Epidemiology | Course Category | SEC | Skill Enhancement Course | L | T | P | C |
|---------------|---------|---------------|--------------|-----------------|-----|--------------------------|---|---|---|---|
| Pre-requisite | | Undergraduate | | Co-requisite | Nil | | 2 | 1 | 2 | 4 |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|---|---|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution and Policies | Inter and Transdisciplinary Development | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | What are all the basic principles and how epidemiology evolved | 1 | H | M | M | H | M | H | H | M | M | H | M | M |
| CLO-2 | Interpret the various essential measures of risks | 2 | H | H | M | H | H | H | H | M | H | H | M | M |
| CLO-3 | Identify the right research design based on the objectives | 3 | H | H | M | M | H | H | H | M | H | M | H | H |
| CLO-4 | Inference about validity of all the clinical tests | 4 | H | H | H | H | H | H | H | M | H | M | M | H |
| CLO-5 | Determine the type of disease surveillance and support for mitigation. | 5 | H | H | H | M | M | H | H | H | H | H | H | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|---|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Introduction & Principles of Epidemiology | 10 | 1,2 |
| 2 | Epidemiological Measures & Public Health Impact | 15 | 2,3 |
| 3 | Epidemiological Study Designs | 15 | 1,2,3 |
| 4 | Principles of Clinical Epidemiology | 10 | 1,4,5 |
| 5 | Disease Surveillance & Field Epidemiology | 10 | 2,4,5 |

| Learning Resources | |
|------------------------|---|
| Text Books | 3. Epidemiology, Leon Godris, 5 th Edition, Saunders Philadelphia 2014. 4. Basics of Epidemiology, Bonita and Beaglehole, 2 nd Edition – WHO 2007. |
| Reference Books | 4. Clinical Epidemiology the Essentials – Fletcher, Robert H, Suzanne W. Fletcher, Edward H. Wagner, 5 th edition – Lippincott Williams & Wilkins, 2014. 5. An Introduction to Public Health and Epidemiology – Susan Carr, Nigel Unwin, Tanja Pless-Mulloli, 2 nd edition – Open University Press, 2007. 6. Epidemiology, Bio - Statistics & Preventive Medicine – James F. Jekal, David L. Katz, Joann G Elmore, Dorothea Wild, 4 th edition – WB Saunders Company Publishers, 2013. |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | | Final Examination (60 % weightage) | |
|------------------------------|------------|--|---------------------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | Practical Proposal / Modeling | Theory | Practical |
| | | | | | | | | |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 10 | 0 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 0 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 0 | 0 | 5 | 0 |
| | Total | 10 | 10 | 10 | 10 | 0 | 60 | 0 |

Assessment

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | | Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in |

Semester - 1

| Course Code | MPH1814 | Course Name | Fundamentals of Bio-Statistics | Course Category | SEC | Skill Enhancement Course | L | T | P | C |
|---------------|---------|---------------|--------------------------------|-----------------|-----|--------------------------|---|---|---|---|
| | | | | | | | 2 | 1 | 2 | 4 |
| Pre-requisite | | Undergraduate | | Co-requisite | | Nil | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|---|--|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution and Policies | Inter and Trans disciplinary Development | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Recall the basic Definitions, Types of scales and Descriptive statistics items. | 1 | H | M | H | M | M | H | H | M | M | H | M | M |
| CLO-2 | Relate the principles of Probability and different Sampling distributions with research. | 2 | H | H | H | M | M | H | M | H | M | H | M | M |
| CLO-3 | Build Hypothesis for testing and proving/rejecting it based on estimates. | 3 | H | H | H | H | H | H | H | H | H | H | H | H |
| CLO-4 | Compare between Population and Sample statistic and infer them. | 4 | H | H | H | M | M | H | H | H | H | M | H | H |
| CLO-5 | Explain Correlation & Regression appraising for its Magnitude and Direction. | 5 | H | H | H | H | M | H | H | M | M | H | M | H |

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Fundamentals of Biostatistics | 15 | 1,2 |
| 2 | Probability and Sampling Distributions | 10 | 2,3,4 |
| 3 | Statistical Inference – I | 10 | 2,3,4 |
| 4 | Statistical Inference – II | 10 | 2,3,4 |
| 5 | Correlation and Regression | 15 | 3,4,5 |

| Learning Resources | |
|------------------------|--|
| Text Books | 1. Biostatistics-Biostatistics, Student Solutions Manual: A Foundation for Analysis in the Health Sciences-Wayne W. Daniel, 9th Edition-Wiley Series.,2011 |
| Reference Books | 1. Introduction to Biostatistics and Research Methods, -Sundar Rao, PSS and Richard, J-PHI Learning Pvt.Ltd., 2006. 2. Essentials of Biosatistics in Public Health, -Lisa M. Sullivan, Second Edition-Jones and Barlett Learning, LLC, 2012 3. Biostatistical Analysis, -Jerrald H. Zar, Fifth Edition-Pearson Education, 2009 4. Bio-Statistics: A Manual of Statistical Methods for use in Health, Nutrition and Anthropology, -Vishweswara Rao-JaypeeBrothers Medical Pub., 1996 5. High Yield Biostatistics, Epidemiology and Public Health, -Anthony N Glaser, 4th Edition.-Lippincott Williams and Wilkins, 2013 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | | Final Examination (60 % weightage) | |
|------------------------------|------------|--|---------------------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | Practical Proposal / Modeling | | |
| | | | | | | | Theory | Practical |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 0 | 10 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 0 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 0 | 0 | 5 | 0 |
| | Total | 10 | 10 | 10 | 0 | 10 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | <p>Mrs. R. Thilagavathi Scientist B ICMR-National Centre for Disease Informatics & Research Bengaluru rmthilaga@gmail.com</p> <p>Dr. Sreejith V Associate Professor, Department of Statistics Government College for Women Thiruvananthapuram, Kerala sreejithv@gcwtvm.ac.in</p> | <p>Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in</p> <p>Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in</p> <p>Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in</p> <p>Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in</p> |

Semester - 1

| Course Code | MPH1823 | Course Name | Population Sciences | Course Category | C | CORE | L | T | P | C |
|---------------|---------|-------------|---------------------|-----------------|-----|------|---|---|---|---|
| | | | | | | | 2 | 1 | 2 | 4 |
| Pre-requisite | | | Undergraduate | Co-requisite | Nil | | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|---|-----------------------------|---------------------------------|------------------|---|--|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution and Policies | Inter and Trans disciplinary Development | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Define various Demographic theories, population characteristics and distribution. | 1 | H | M | M | H | M | H | H | M | M | H | M | H |
| CLO-2 | Explain types of secondary data from various credible sources. | 2 | H | H | M | H | M | H | H | M | H | H | M | M |
| CLO-3 | Make use of the concepts of Fertility and Mortality into research | 3 | H | H | H | M | H | H | H | H | H | H | H | H |
| CLO-4 | Analyze the health outcomes with respect to migration and labour force. | 4 | H | H | H | H | H | H | H | H | M | H | H | H |
| CLO-5 | Evaluate various Population estimates, Projections and Indexes. | 5 | H | H | H | H | H | H | H | H | M | H | M | H |

| Learning Resources | |
|------------------------|---|
| Text Books | 1. Principles of Population Studies. -Asha A. Bhenda and Tara Kanitkar, 16th edition. -Himalaya Publishing House, 2006 2. Demographic Techniques -Srinivasan, K., -Registrar General of India (RGI), Census of India and UNFPA, 2011 |
| Reference Books | 1. Population Health Research: Linking theory and methods -Kathryn Dean, Second Edition-Sage, 2003 2. Census of India 2001 and 2011, -Registrar General of India (RGI) -RGI-Online 3. Population projections for India and states-RGI, 2006 RGI |

| Summary of Course Contents | | | |
|----------------------------|---|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Introduction to Population Science & Theories | 10 | 1,4 |
| 2 | Population data & Sources | 10 | 2,5 |
| 3 | Mortality & Fertility Concepts | 15 | 2,3,4,5 |
| 4 | Demographic transition, Aging & Development | 10 | 4,5 |
| 5 | Population Projections & Estimates | 15 | 1,2,3,5, |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | Final Examination (60 % weightage) | |
|------------------------------|------------|--|------------------------------------|----------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Theory | Practical |
| | | | | | | |
| 1 | Remember | 2 | 5 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 5 | 0 |
| | Total | 10 | 15 | 15 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | Dr. Kailash Chandra Das Professor, Department of Migration & Urban Studies International Institute for Population Sciences Mumbai, Maharashtra kailash.das@iipsindia.ac.in | Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in |

SEMESTER-II

| Course Code | MPH1821 | Course Name | Research Methodology | Course Category | SEC | Skill Enhancement Course | L | T | P | C |
|---------------|---------|---------------|----------------------|-----------------|-----|--------------------------|---|---|---|---|
| Pre-requisite | | Undergraduate | | Co-requisite | Nil | | 3 | 0 | 4 | 5 |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | | |
|--------------------------------|---|-----------------------------|---------------------------------|------------------|---|---|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution and Policies | Inter and Transdisciplinary Development | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development | |
| CLO-1 | Outline the various research preparation, planning and the tools. | 2 | H | H | H | H | H | H | H | M | M | H | M | H | |
| CLO-2 | To examine various data collection tools and research methods. | 4 | H | H | H | H | H | H | H | M | M | H | H | H | |
| CLO-3 | To estimate sample size and sampling methods to do qualitative and quantitative research. | 5 | H | H | H | H | H | H | H | H | M | H | H | H | |
| CLO-4 | To apply various quantitative and participatory research methods for doing research | 3 | H | H | H | H | H | H | H | M | M | H | H | H | |
| CLO-5 | To develop research proposal and manuscripts for publication | 6 | H | H | H | M | H | H | H | H | H | H | M | H | |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Research Preparation and Planning | 12 | 1,2,3 |
| 2 | Data Collection analysis and inference | 15 | 2,3,4 |
| 3 | Sampling and sampling methods | 17 | 1,2,3,4 |
| 4 | Qualitative research methods and Participatory Rural Appraisal | 16 | 2,3,4 |
| 5 | Academic Writing and Presentation | 15 | 1,2,3,4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | <ol style="list-style-type: none"> World Health Organization. Health Research Methodology A guide for training in research methods. -World Health Organization -World Health Organization, 2011 Sampling: Design and Analysis. -Sharon L Lohar. Second Edition. -Brooks / Cole Cengage Learning, 2010 |
| Ref. Books | <ol style="list-style-type: none"> Designing Qualitative Research: An Interactive Approach. -Maxwell, J, Third Edition-Sage Publications, 2013 Qualitative Interviewing: The Art of Hearing Data -Rubin, H. and I. Rubin-Thousand Oaks, CA: Sage Publications. 2005 Research Methods in Health: Investigating Health and Health Services-Second Edition. Ann Bowling. -Open University Press, Buckingham, 2002 Fundamentals of Research Methodology for Health Care Professionals. -Second Edition. Hilla Brink, Christa Van der Walt, Gisela Van Rensburg. -Juta and Company Ltd, 2006 Writing Ethnographic Field notes. -Emerson, Robert M., Rachel I. Fretz, and Linda L. Shaw. -University of Chicago Press.199 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|-------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | Practical Proposal / Modeling | | |
| | | | | | | | Theory | Practical |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 10 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 0 | 10 | 0 | 20 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 0 | 10 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 0 | 0 | 10 |
| 6 | Create | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| | Total | 10 | 10 | 10 | 0 | 10 | 20 | 40 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | | Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in |

SEMESTER-II

| Course Code | MPH1822 | Course Name | Public Health Ethics and Law | Course Category | SEC | Skill Enhancement Course | L | T | P | C |
|---------------|---------|-------------|------------------------------|-----------------|-----|--------------------------|---|---|---|---|
| | | | | | | | 2 | 0 | 0 | 2 |
| Pre-requisite | | | Undergraduate | Co-requisite | | Nil | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|---|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Explain various principles and theories of public health ethics. . | 2 | H | M | H | H | H | H | H | M | M | H | M | H |
| CLO-2 | Illustrate various Public Health Policy and Ethics. | 2 | H | H | H | H | H | H | H | M | H | H | H | H |
| CLO-3 | Summarize the various public health research and the importance of ethics | 2 | H | H | M | H | M | H | H | M | M | H | H | H |
| CLO-4 | Analyze the importance of ethics in public health practice | 4 | H | H | H | H | H | H | H | M | M | H | H | H |
| CLO-5 | Explain the importance of trust in health care and public health ethics | 2 | H | H | H | M | H | M | H | M | M | H | H | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|---|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Values, Principles and theories in Public Health Ethics | 5 | 1, 3,5 |
| 2 | Public Health Policy and Ethics | 08 | 1,2,4 |
| 3 | Public Health Research Ethics | 10 | 2,3,4 |
| 4 | Public Health Practice Ethics | 4 | 1,3,4 |
| 5 | Trust in Health Care and Public Health Ethics | 03 | 1,4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | <ol style="list-style-type: none"> Principles of biomedical ethics- Beauchamp and Childress- 7th edition- Oxford university press 2013 Ethics, prevention and public health- Angus Dawson, Marcel Verweji. 2nd edition- Oxford university press 2010 |
| Ref. Books | <ol style="list-style-type: none"> Principles of Health care ethics, -2nd edition Richard Ashcroft, Angus Dawson, Heather Draper, John McMillian, John Wiley and sons, 2007 Ethical guidelines for biomedical research on human participants. – Indian Council of Medical Research. New Delhi, 2006- ICMR. 2006 Guidelines for good clinical practice- ICH harmonized tripartite guidelines. 1996- ICH-GCP, 1996 Declaration of Helsinki, 9th amendment- World medical association, Brazil, 2013- WMA, 2013. |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | | Final Examination (60 % weightage) | |
|------------------------------|------------|--|---------------------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | Practical Proposal / Modeling | Theory | Practical |
| | | | | | | | | |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 20 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 20 | 0 |
| 3 | Apply | 5 | 5 | | 0 | 0 | 10 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 0 | 0 | 0 |
| 6 | Create | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| | Total | 10 | 15 | 15 | 0 | 0 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | Dr. Anant Bhan Adjunct Professor, Yenepoya University Mangalore anantbhan@gmail.com | Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in |

SEMESTER-II

| | | | | | | | | | | |
|----------------------|---------|--------------------|---------------------------------------|------------------------|-----|-------------|---|---|---|---|
| Course Code | MPH1824 | Course Name | Women, Child Health and Gender Issues | Course Category | C | <i>CORE</i> | L | T | P | C |
| | | | | | | | 2 | 0 | 0 | 2 |
| Pre-requisite | | | Undergraduate | Co-requisite | Nil | | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Explain the relationship between gender and health | 2 | H | H | M | H | H | H | H | M | M | H | H | H |
| CLO-2 | Outline the various public health aspect related to women health | 2 | H | H | H | H | H | H | H | M | M | H | H | H |
| CLO-3 | Explain various child hood illness and factors contributing to child hood mortality. | 2 | H | H | H | M | H | H | H | H | M | H | H | H |
| CLO-4 | Relationship with gender and adolescent sexual health | 4 | H | H | H | H | H | H | H | H | M | H | H | H |
| CLO-5 | Analyze various policies and programs for women and child health in India. | 4 | H | H | H | H | H | H | H | H | M | H | H | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Gender and Health | 03 | 1, 2,3,4 |
| 2 | Women's Health | 08 | 1,2,4,5 |
| 3 | Child Health | 08 | 3,4,5 |
| 4 | Adolescent and Sexual Health | 08 | 2,3,4,5 |
| 5 | Policies and programs for women and child health | 03 | 2,3,4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | <ol style="list-style-type: none"> Maternal And Child Health Programs, Problems, and Policy in Public Health-3rd Edition by Jonathon Katoch, -Aspen Publications, Maryland, 2007 Innovations in Maternal Health, Case Studies from India, -Jaya K. Satia et al, -Sage Publication Ltd, 2014 Adolescent and Youth reproductive health in India -Gupta SD-ICMR, 2005 |
| Ref. Books | <ol style="list-style-type: none"> What do we mean by Sex and Gender World Health Organization -World Health Organization, 2007-E Book The Lancet Child Survival Series-World Health Organization-WHO, 2003 The Lancet Neonatal Survival Series-World Health Organization-WHO,2005 The Millennium Development Goals (MDGs)-United Nations Development Program-UNDP, 2000 Family Welfare Programme, -Planning Commission-Government of India, 2013 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | Practical Proposal / Modeling | Final Examination (60 % weightage) | |
|------------------------------|------------|--|---------------------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | | Theory | Practical |
| | | | | | | | | |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 20 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 20 | 0 |
| 3 | Apply | 5 | 5 | | 0 | 0 | 10 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 0 | 0 | 0 |
| 6 | Create | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| | Total | 10 | 15 | 15 | 0 | 0 | 60 | 0 |

| Course Designers | | |
|---|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| Dr. Ramanamma Atkuri Maternal, Child Health Expert Independent Public Health Consultant Bhopal atkuri@gmail.com | | Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in |

SEMESTER-II

| Course Code | MPH1825 | Course Name | Health Economics and Health Care Financing | Course Category | C | CORE | L | T | P | C |
|---------------|---------|---------------|--|-----------------|-----|------|---|---|---|---|
| Pre-requisite | | Undergraduate | | Co-requisite | Nil | | 2 | 1 | 2 | 4 |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Explain the Fundamentals of health economics | 2 | H | M | M | H | H | M | H | H | M | H | H | H |
| CLO-2 | Outline demand and supply their | 2 | H | H | H | H | H | H | H | M | M | H | H | H |
| CLO-3 | Distinguish between various methods of economic analysis for health care | 4 | H | H | H | H | H | M | H | H | M | H | H | H |
| CLO-4 | Explain the basic concepts of Health Care Financing | 2 | H | H | M | H | H | M | H | H | M | H | H | H |
| CLO-5 | Compare between various Health Financing Models | 5 | H | H | H | H | H | H | H | H | H | H | H | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Fundamentals of Health Economics | 10 | 1, 2 |
| 2 | Demand and Supply for Health Care Services | 15 | 2,3 |
| 3 | Economic Analysis | 15 | 1,2,3 |
| 4 | HealthCare Financing Concepts | 10 | 1,4,5 |
| 5 | Health Financing Models | 10 | 1,2,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | 1. Health Financing Revisited, Pablo Gottret George Schieber, -The World Bank, 2006 2. A primer of Health Economics, -VR Ramankutty-Allied Publishers Pvt. Ltd,2010 |
| Ref. Books | 1. Health Economics, Author: Pushpalata Pattnaik, Black Print/ Wisdom Press, 2010 2. Health Care Economics-7th Edition, Paul J Feldstein-Delmar Cengage Learning, 2012 3. Health care economics and health care management -I Sundar, -Serials Publications New Delhi 2012 4. Essentials of health care financing -I Sundar, -Serials Publications New Delhi 2012 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | Practical Proposal / Modeling | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|-------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | | Theory | Practical |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 20 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 20 | 0 |
| 3 | Apply | 5 | 5 | | 0 | 10 | 10 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| 6 | Create | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Total | 10 | 10 | 10 | 0 | 10 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | | <p>Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in</p> <p>Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in</p> <p>Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in</p> <p>Mr. Niranjan .M Assistant Professor School of Public Health SRM University Sikkim niranjan.m@srmus.edu.in</p> |

SEMESTER-II

| Course Code | MPH1826 | Course Name | Public Health Nutrition and Food Safety | Course Category | C | CORE | L | T | P | C |
|---------------|---------|---------------|---|-----------------|-----|------|---|---|---|---|
| Pre-requisite | | Undergraduate | | Co-requisite | Nil | | 1 | 1 | 2 | 3 |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|---|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Outline the principles of Nutrition | 2 | H | M | M | H | H | H | H | M | M | H | H | H |
| CLO-2 | Explain various nutrition related disease conditions and public health interventions | 2 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-3 | Explain various public healthy nutrition assessment, monitoring and evaluation methods. | 4 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-4 | Outline various policies and programs in public health nutrition | 2 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-5 | Illustrate various aspects of Food Safety and its public health interventions. | 2 | H | H | H | M | H | M | H | H | M | H | M | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|---|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Principles of Nutrition | 08 | 1, 2 |
| 2 | Disease / Condition Specific Nutrition | 10 | 1,2,3 |
| 3 | Public Health Nutrition Assessment, Monitoring and Evaluation | 10 | 1,2,4 |
| 4 | Policies and programs in Public Health Nutrition | 10 | 3,4 |
| 5 | Food Safety | 07 | 1,4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | <ol style="list-style-type: none"> Prescribed Text Book: Public Health Nutrition in Developing Countries Vol 1 and 2.- Edited by Sheila Chandra Vir. -Woodhead Publishing India, 2008 Text Book of Human Nutrition: -Mahtab S. Bamji, Kamala Krishnaswamy and GNV Brahman. Third Edition, -Oxford& IBH,2000 |
| Ref. Books | <ol style="list-style-type: none"> Clinical Nutrition. -Editors: M. Gibney, Marinos Elia, O. Ljungqvist and J. Dowsett-Blackwell Publishing, 2005 Mother and Child Nutrition in the Tropics and Subtropics -Journal of Tropical Pediatrics, 2005 Nutrition Tool kit#8: Monitoring and Evaluation-World Bank, 2010-World Bank, 2010 Adolescent girls' anaemia control programme in Gujarat, India-Indian Journal of Medical Research: 2009 Five Keys to Safer Food -World Health Organization-WHO 2010 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | Practical Proposal / Modeling | Final Examination (60 % weightage) | |
|------------------------------|------------|--|---------------------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | | Theory | Practical |
| | | | | | | | | |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 20 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 20 | 0 |
| 3 | Apply | 5 | 5 | | 0 | 0 | 10 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 0 | 0 | 10 | 0 | 0 | 0 |
| 6 | Create | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| | Total | 10 | 10 | 10 | 10 | 0 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| <p>Mrs. Anupa Rajput Public Health Nutrition Expert Freelance Consultatnt Vadodara, Gujarat anupa_mehta@rediffmail.com</p> | | <p>Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in</p> <p>Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in</p> <p>Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in</p> <p>Mr. Niranjan .M Assistant Professor School of Public Health SRM University Sikkim niranjan.m@srmus.edu.in</p> |

SEMESTER-II

| Course Code | MPH1827 | Course Name | Health Promotion and Behavior Change Communication | Course Category | C | CORE | | | L | T | P | C |
|---------------|---------|-------------|--|-----------------|-----|------|--|--|---|---|---|---|
| | | | | | | | | | 1 | 1 | 2 | 3 |
| Pre-requisite | | | Undergraduate | Co-requisite | Nil | | | | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom’s Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Illustrate the fundamentals and principles of Communications. | 2 | H | M | M | H | H | H | H | H | M | H | H | H |
| CLO-2 | Explain various behavioral models in communications and behavior change | 2 | H | H | H | H | H | H | H | M | M | H | H | H |
| CLO-3 | Compare the different behavior change communications and health promotion models | 2 | H | H | H | H | H | H | H | M | M | H | H | H |
| CLO-4 | Analyze the various strategic communications for development | 4 | H | H | H | H | H | H | H | M | M | H | H | H |
| CLO-5 | Relationships between health literacy and numeracy in public health interventions. | 4 | H | H | H | M | H | H | H | H | M | H | M | H |

(Level of correlation: **3-High**, **2-Medium**, **1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Fundamentals and principles of Communication | 07 | 1, 3, 5 |
| 2 | Behavior | 08 | 2,3,5 |
| 3 | Behavior Change Communication and Health Promotion | 10 | 3,4,5 |
| 4 | Strategic Communications Development | 10 | 2,3,4 |
| 5 | Health Literacy and Numeracy | 10 | 1,4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | 1. Essentials of Public Health Communication-Editors: Parvanta Claudia., Nelson. David. E., Parvanta. S.A and Harner, Richard N.-American Public Health Association Press: Jones and Bartlett Learning, 2010 |
| Ref. Books | 1. Health communication and Behaviour Change communication-Health Communication - A multicultural Perspective. Kar. S and Alcalay, R. and Alex. S. -Sage Publications, 2010 2. Oxford textbook of Public Health -Fourth Edition: Detels, McEwen, Beaglehole and Tanaka, -Oxford University Press, 2009 3. Guide to health promotion and disease prevention -Government of Canada, -2009 4. Field Guide to designing Health Communication-Johns Hopkins University School of Public Health, -2009 5. Communicating Effectively with Patients: The Importance of Addressing Health Literacy and Numeracy -American Association |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | | Final Examination (60 % weightage) | |
|------------------------------|------------|--|---------------------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | Practical Proposal / Modeling | Theory | Practical |
| | | | | | | | | |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 20 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 20 | 0 |
| 3 | Apply | 5 | 5 | | 5 | 0 | 10 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Create | 0 | 0 | 5 | 0 | 5 | 0 | 0 |
| | Total | 10 | 10 | 10 | 5 | 5 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | <p>Ms. Geetha Veliah Assistant Professor, School of Public Health SRM Institute of Science & Technology Kattankulathur, Tamil Nadu veliahg@gmail.com</p> | <p>Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in</p> <p>Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in</p> <p>Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in</p> <p>Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjana.m@srmus.edu.in</p> |

SEMESTER-III

| Course Code | MPH1831 | Course Name | Public Health Project Management | Course Category | DSE | Discipline Specific Elective | L | T | P | C |
|---------------|---------|-------------|----------------------------------|-----------------|-----|------------------------------|---|---|---|---|
| | | | | | | | 3 | 1 | 2 | 5 |
| Pre-requisite | | | Undergraduate | Co-requisite | | Nil | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Summarize the basic concepts of program management. | 2 | H | M | H | H | M | H | H | M | M | H | M | M |
| CLO-2 | Plan problem analysis, objective analysis and strategy analysis | 3 | H | H | H | H | H | H | H | H | M | H | H | H |
| CLO-3 | Develop logical framework and other tools in projects management | 3 | H | H | H | H | H | H | H | H | M | H | H | H |
| CLO-4 | Make use of performance measurement framework | 4 | H | H | H | H | H | H | H | H | M | H | H | H |
| CLO-5 | Develop result based reporting system | 3 | H | H | H | H | H | H | H | H | H | H | M | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. o | Course Content | Hour | Alignment to CLO |
| 1 | Introduction to basic concepts of Program Management | 13 | 1,2,3 |
| 2 | Problem Analysis, Objective Analysis and Strategy Analysis | 15 | 2,3 |
| 3 | Logical Framework approach and tools | 17 | 2,3,4 |
| 4 | Performance measurement framework | 15 | 3,4,5 |
| 5 | Result based reporting system | 15 | 4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | <ol style="list-style-type: none"> Handbook on Project Cycle management, European commission, version 2.0, 2002 The project management life cycle, Jason Westland, First published in Great Britain and the United States in 2006 by Kogan Page Limited Understanding Results Based Programme Planning and Management |
| Ref. Books | Strategic issues and challenges in health management, KV Ramani, Dileep Mavalankar, Dipti Govil, 2005 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|-------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | Practical Proposal / Modeling | Theory | Practical |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 10 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 10 | 5 |
| 3 | Apply | 5 | 5 | | 0 | 0 | 0 | 5 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 10 | 10 |
| 5 | Evaluate | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Create | 0 | 0 | 5 | 0 | 10 | 0 | 10 |
| | Total | 10 | 15 | 15 | 0 | 10 | 30 | 30 |

| Course Designers | | |
|--|--|--|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| Dr. Nirmala Murthy Founder of Foundation for Research in Health Systems | | Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in Mr. Niranjana .M Assistant Professor School of Public Health SRM University Sikkim niranjan.m@srmus.edu.in |

SEMESTER-III

| Course Code | MPH1832 | Course Name | Human Resource Management | Course Category | GE | General Elective | L | T | P | C |
|---------------|---------|-------------|---------------------------|-----------------|----|------------------|---|---|---|---|
| | | | | | | | 2 | 1 | 0 | 3 |
| Pre-requisite | | | Undergraduate | Co-requisite | | Nil | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Illustrate concepts and terms of Human resource Management | 2 | H | M | M | H | H | M | H | H | H | M | M | H |
| CLO-2 | Explain the concepts of job analysis, Job Description, Recruitment policies etc in Public Health | 2 | H | H | H | M | H | H | H | H | M | H | M | H |
| CLO-3 | Develop various performance appraisal mechanisms | 3 | H | H | M | H | H | H | H | H | H | H | M | H |
| CLO-4 | Plan training and skill building g activities in Public Health Projects | 3 | H | H | H | H | H | H | H | M | H | H | H | H |
| CLO-5 | Develop various training programs for human resources in public health. | 3 | H | H | H | H | H | H | H | H | M | H | M | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Introduction to Human Resources Management | 08 | 1, 2 |
| 2 | Talent Acquisition and Management | 08 | 1,2,5 |
| 3 | Performance appraisal | 09 | 3,4,5 |
| 4 | Training and Skill Building | 10 | 1,2,3,4,5 |
| 5 | Designing and Developing Training Programs | 10 | 1,2,3,4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | 1. Human Resources and Personal Management- Aswathappa Tata MC Fraw Hill. 2010 |
| Ref. Books | 1. Human Resource Management- Text and Case studies Rao SP- Second edition 2006 2. Human Resource Management Ivansench 10 th Edition, 2010 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | | | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|-------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Practical / Field Visit | Practical Proposal / Modeling | Theory | Practical |
| 1 | Remember | 2 | 0 | 0 | 0 | 0 | 10 | 0 |
| 2 | Understand | 3 | 0 | 5 | 0 | 0 | 20 | 0 |
| 3 | Apply | 5 | 5 | | 0 | 0 | 10 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 0 | 20 | 0 |
| 5 | Evaluate | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Create | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| | Total | 10 | 15 | 15 | 0 | 0 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | Dr. R. Anbalagan Rathinam Professor of Commerce University of Madras rathinam.anbalagan@gmail.com | Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in Mr. Niranjan .M Assistant Professor School of Public Health SRM University Sikkim niranjan.m@srmus.edu.in |

SEMESTER-III

| Course Code | MPH1833 | Course Name | Organizational Behavior | Course Category | GE | General Elective | L | T | P | C |
|---------------|---------|---------------|-------------------------|-----------------|-----|------------------|---|---|---|---|
| Pre-requisite | | Undergraduate | | Co-requisite | Nil | | 2 | 1 | | 3 |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|---|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|
| | | | Professional Knowledge | Problem Analysis | | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability |
| CLO-1 | Explain basic theories in Organizational Behavior | 2 | H | H | H | H | H | M | H | M | M | H | M | H |
| CLO-2 | Illustrate various basics of organizational culture and climate of organizations | 2 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-3 | Outline different personalities and effectiveness. | 2 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-4 | Analyze various theories of motivation and leadership | 4 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-5 | Develop team building activities | 3 | H | H | H | M | H | M | H | H | M | H | M | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Introduction to Organizational Behavior | 06 | 1, 2 |
| 2 | Organizational behavior and climate organization | 08 | 1,2,3 |
| 3 | Personality and Effectiveness | 10 | 2,3,4,5 |
| 4 | Motivation and Leadership – Role | 10 | 1,2,3,4,5 |
| 5 | Team Building | 11 | 1,2,3,4,5 |

| Learning Resources | |
|--------------------|--|
| Text Books | Understanding Organizational Behavior- UdaiPareek Second Edition- Oxford University Press, 2007 |
| Ref. Books | Health Care Management- Organization, Design and Behavior- Stephen M Shortell & ArnoldD. Kaluzny, 2008 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Theory | Practical |
| 1 | Remember | 2 | 5 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 5 | 0 |
| | Total | 10 | 15 | 15 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | Dr. R. Anbalagan Rathinam Professor of Commerce University of Madras rathinam.anbalagan@gmail.com | Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in Mr. Niranjan .M Assistant Professor School of Public Health SRM University Sikkim niranjan.m@srmus.edu.in |

SEMESTER-III

| Course Code | MPH1834 | Course Name | Quality Assurance and Total Quality Management | Course Category | GE | General Electives | | | | L | T | P | C |
|---------------|---------|-------------|--|-----------------|-----|-------------------|--|--|--|---|---|---|---|
| | | | | | | | | | | 3 | 1 | 0 | 4 |
| Pre-requisite | | | Undergraduate | Co-requisite | Nil | | | | | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Explain various theories and principles of Quality Management | 2 | H | H | H | H | H | M | H | M | M | H | M | H |
| CLO-2 | Illustrate various concepts and methods of quality improvement | 2 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-3 | Analyze various theories and principles of Quality Assurance | 4 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-4 | Summarize various principles of Total Quality Management | 2 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-5 | Analyzed six sigma in public health project management | 4 | H | H | H | M | H | M | H | H | M | H | M | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|--------------------------|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Quality | 10 | 1, 2 |
| 2 | Quality Improvement | 15 | 1,2,3,5 |
| 3 | Quality Assurance | 13 | 1,2,3,5 |
| 4 | Total quality Management | 12 | 1,2,3,4,5 |
| 5 | Six Sigma | 10 | 1,2,4,5 |

| Learning Resources | |
|--------------------|---|
| Text Books | 1. The management and control of quality -James R Evans & William M Lindsay, 8 th edition-South-Western Cengage learning, 2011 2. Managing Quality in Healthcare.-P.R.Sodani -Rawat Publications 2010 |
| Ref. Books | 1. Improving outcomes in public health practice: strategy and methods, By G. E. Alan Dever, 2010 2. Total Quality Management: The Health Care Pioneers Mara Minerva Melum and Marie KuchurisSinioris, 2010 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Theory | Practical |
| | | | | | | |
| 1 | Remember | 2 | 5 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 5 | 0 |
| | Total | 10 | 15 | 15 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
| | | <p>Prof. Ch.Satish Kumar Vice chancellor , SRM University Sikkim satishkumar.ch@srmus.edu.in</p> <p>Dr. Toms K Thomas Head , School of Public Health SRM University Sikkim toms.t@srmus.edu.in</p> <p>Mrs. Bhawana Regmi Assistant Professor School of Public Health SRM University Sikkim bhawana.b@srmus.ac.in</p> <p>Mr. Niranjan .M Assistant Professor School of Public Health SRM University Sikkim niranjan.m@srmus.edu.in</p> |

SEMESTER-III

| Course Code | MPH1835 | Course Name | Public Health Monitoring and Evaluation | Course Category | DSE | Discipline Specific Elective | L | T | P | C |
|---------------|---------|-------------|---|-----------------|-----|------------------------------|---|---|---|---|
| | | | | | | | 3 | 1 | 0 | 4 |
| Pre-requisite | | | Undergraduate | Co-requisite | | Nil | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Explain the basics of Public Health Planning and the various models | 2 | H | H | H | H | H | M | H | M | M | H | M | H |
| CLO-2 | Illustrate public health administration | 2 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-3 | Develop monitoring systems for project management | 3 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-4 | Organize project evaluations | 3 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-5 | Apply various concepts related to public health governance in projects | 3 | H | H | H | M | H | M | H | H | M | H | M | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|------------------------------|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Public Health Planning | 12 | 1, 2 |
| 2 | Public Health Administration | 10 | 1,2,3,5 |
| 3 | Monitoring in Public Health | 15 | 1,2,3,4,5 |
| 4 | Evaluation in Public Health | 15 | 1,2,3,4,5 |
| 5 | Public Health Governance | 08 | 1,2,3,4,5 |

| Learning Resources | |
|--------------------|---|
| Text Books | <ol style="list-style-type: none"> Challenges in Monitoring and evaluation, An opportunity to institutionalize M & E systems- Gladys Lopez, Katia Rivera, Lincy Lima, Helean Hwang- World Bank, 2010 Governance for health in the 21st century, WHO |
| Ref. Books | <ol style="list-style-type: none"> Handbook on Monitoring and evaluation, UNDP, 2010 Results Based Monitoring, UNDP, 2007 A guide to Monitoring and Evaluation, 2010 |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Theory | Practical |
| 1 | Remember | 2 | 5 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 5 | 0 |
| | Total | 10 | 15 | 15 | 60 | 0 |

| Course Designers | | |
|--|--|---|
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SEMESTER-III

| Course Code | MPH1836 | Course Name | Health Management Information Systems | Course Category | DSE | Discipline Specific Elective | L | T | P | C |
|---------------|---------|-------------|---------------------------------------|-----------------|-----|------------------------------|---|---|---|---|
| | | | | | | | 1 | 1 | 0 | 2 |
| Pre-requisite | | | Undergraduate | Co-requisite | | Nil | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|---|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Explain the basics of health management information systems | 2 | H | H | H | H | H | H | H | M | H | H | H | H |
| CLO-2 | Develop HMIS systems for public health Projects | 3 | H | M | H | H | H | H | H | H | H | H | H | H |
| CLO-3 | Create HMIS for effective data management | 6 | H | H | H | H | H | H | H | H | H | H | H | H |
| CLO-4 | Analyze various public health information systems | 3 | H | H | H | H | H | M | H | M | M | H | M | H |
| CLO-5 | Show various technology and software applications in Health Management Information system | 2 | H | H | H | H | H | M | H | M | H | H | H | H |

(Level of correlation: *3-High, 2-Medium, 1-Low* can be used)

| Summary of Course Contents | | | |
|----------------------------|---|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Introduction and Basics of HMIS | 03 | 1, 2 |
| 2 | Developing HMIS for public health projects | 10 | 1,2,3,5 |
| 3 | Implementing HMIS systems in Public Health Projects designing and developing of data management systems | 07 | 1,2,3,4,5 |
| 4 | HMIS in Public Health Programs | 05 | 1,2,3,4,5 |
| 5 | Technology and Software applications in HMIS | 05 | 1,2,3,4,5 |

| Learning Resources | |
|--------------------|---|
| Text Books | Developing Health Management Information System, A practical guide for developing countries, World health organization 2004 |
| Ref. Books | |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Theory | Practical |
| | | | | | | |
| 1 | Remember | 2 | 5 | 0 | 5 | 0 |
| 2 | Understand | 3 | 0 | 5 | 10 | 0 |
| 3 | Apply | 5 | 0 | 3 | 20 | 0 |
| 4 | Analyze | 0 | 5 | 0 | 10 | 0 |
| 5 | Evaluate | 0 | 5 | 5 | 10 | 0 |
| 6 | Create | 0 | 0 | 2 | 5 | 0 |
| | Total | 10 | 15 | 15 | 60 | 0 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
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SEMESTER-IV

| Course Code | MPH1841 | Course Name | Research Study / Summer Project | Course Category | C | CORE | | | | L | T | P | C |
|---------------|---------|-------------|---------------------------------|-----------------|---|------|--|--|--|---|---|----|---|
| Pre-requisite | | | Undergraduate | Co-requisite | | Nil | | | | 0 | 0 | 16 | 8 |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|---|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Apply the various theories and tools studied during the course | 3 | H | H | H | H | H | M | H | M | M | H | M | H |
| CLO-2 | Develop project proposals /Project monitoring tools etc for organizations . | 3 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-3 | Develop public health research as part of the field placement. | 3 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-4 | Create innovative solutions to address various public health problems | 6 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-5 | Develop new ideas and solutions for public health problems. | 6 | H | H | H | M | H | M | H | H | M | H | M | H |

(Level of correlation: **3-High, 2-Medium, 1-Low** can be used)

| Summary of Course Contents | | | |
|----------------------------|-----------------|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Summer Research | 120 | 1, 2 |

| Learning Resources | |
|--------------------|------------------|
| Text Books | Internship phase |
| Ref. Books | Internship Phase |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Theory | Practical |
| | | | | | | |
| 1 | Remember | 0 | 5 | 0 | 0 | 5 |
| 2 | Understand | 0 | 0 | 5 | 0 | 10 |
| 3 | Apply | 0 | 0 | 3 | 0 | 20 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 10 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 10 |
| 6 | Create | 0 | 0 | 2 | 0 | 5 |
| | Total | 0 | 20 | 20 | 0 | 60 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
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SEMESTER IV

| Course Code | MPH1842 | Course Name | Internship / Project Work | Course Category | C | CORE | L | T | P | C |
|---------------|---------|-------------|---------------------------|-----------------|-----|------|---|---|----|----|
| | | | | | | | 0 | 0 | 40 | 20 |
| Pre-requisite | | | Undergraduate | Co-requisite | Nil | | | | | |

| Course Learning Outcomes (CLO) | At the end of this course, learners will be able to: | Bloom's Learning (BL) Level | Program Learning Outcomes (PLO) | | | | | | | | | | | |
|--------------------------------|---|-----------------------------|---------------------------------|------------------|------------------------------------|-----------------------------|---------------------------------|--------|---------------|--------------------------------|----------------------------------|-------------------|--------------------------------|--|
| | | | Professional Knowledge | Problem Analysis | Design and Development of Solution | Inter and Transdisciplinary | Innovation and Entrepreneurship | Ethics | Communication | Project Management and Finance | Vocational and Industry Exposure | Lifelong Learning | Environment and Sustainability | Social Sensitivities and Rural Development |
| CLO-1 | Apply the various theories and tools studied during the course | 3 | H | H | H | H | H | M | H | M | M | H | M | H |
| CLO-2 | Develop project proposals /Project monitoring tools etc for organizations . | 3 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-3 | Develop public health research as part of the field placement. | 3 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-4 | Create innovative solutions to address various public health problems | 6 | H | H | H | H | H | M | H | M | M | H | H | H |
| CLO-5 | Develop new ideas and solutions for public health problems. | 6 | H | H | H | M | H | M | H | H | M | H | M | H |

(Level of correlation: *3-High, 2-Medium, 1-Low* can be used)

| Summary of Course Contents | | | |
|----------------------------|-------------------|------|------------------|
| S. No | Course Content | Hour | Alignment to CLO |
| 1 | Summer Internship | 300 | 1, 2 |

| Learning Resources | |
|--------------------|------------------|
| Text Books | Internship phase |
| Ref. Books | Internship Phase |

Assessment

| Bloom's Level of Thinking | | Continuous Learning Assessment (40% weightage) | | | Final Examination (60 % weightage) | |
|---------------------------|------------|--|---------------------------------|-------------------------------|------------------------------------|-----------|
| | | Post Class Discussion | Individual / Group Presentation | Individual / Group Assignment | Theory | Practical |
| | | | | | | |
| 1 | Remember | 0 | 5 | 0 | 0 | 5 |
| 2 | Understand | 0 | 0 | 5 | 0 | 10 |
| 3 | Apply | 0 | 0 | 3 | 0 | 20 |
| 4 | Analyze | 0 | 5 | 0 | 0 | 10 |
| 5 | Evaluate | 0 | 5 | 5 | 0 | 10 |
| 6 | Create | 0 | 0 | 2 | 0 | 5 |
| | Total | 0 | 20 | 20 | 0 | 60 |

| Course Designers | | |
|--|--|---|
| Experts from Industry, Name, Designation with official mail id | Experts from Higher Technical Institutions – Name, Designation with official mail id | Internal Experts- Name, Designation with official id |
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