

**Pravara Institute of Medical Sciences,
(Deemed University)
Loni- 413 736, Maharashtra.**

**RULES AND REGULATIONS FOR THE COURSE
M.Sc RURAL HEALTH (M.R.H)**

1. General :

These rules and regulations are framed as per directives of University Grants Commission (UGC) India and MOA of Pravara Institute of Medical Sciences.

2. Faculty :

This course shall be under the Faculty of Health and Allied Sciences.

3. Nomenclature of Degree:

Masters in Rural Health (M.R.H)

4. Conditions for Admission to M.R.H. Course:

4.1 The candidate should have completed the age of 17 years on or before 31st July of the year commencing the prescribed academic session of the MRH course.

4.2 The minimum educational requirements shall be the passing of three years graduation degree course in any stream of Science, Medicine, Dental, Nursing, Pharmacy, Engineering and Social sciences from recognized Indian university or an equivalent qualification of foreign university recognized by UGC. Sponsored candidates from Public sector/in-service candidates in Government/Foreign governments are acceptable.

4.3 The candidates will be required to undertake AICET examination of 120 minutes, having total of 200 MCQs. Evaluation accreditation would be one mark/ question, for 50 questions each in four subjects of Mental abilities, Aptitude test, General Science and Basic English. The examination will be conducted at all centers designated for entrance examinations for PIMS and along with other faculties.

4.4 The student should have passed qualifying degree examination with minimum of 50% aggregate marks. For Scheduled Castes/ Schedule Tribes, the minimum marks required for admission shall be 40% in lieu of 50% for general candidates.

4.5 The candidate should be medically fit.

5. Duration of the course:

Duration of the M.R.H course will be two calendar years.

6. Selection of students for M.R.H Course:

6.1 The selection of students to M.R.H Course shall be based on the merit of the candidate and for determination of merit, All India Common Entrance Test (AICET) will be conducted by Pravara Institute of Medical Sciences or by the agency specified by the University Grants Commission, New Delhi. (UGC)

- 6.2 To be eligible for selection through All India Common Entrance Test (AICET) a candidate must satisfy conditions enumerated in the Rule (4) above.
- 6.3 The candidate for admission to M.R.H. course should have obtained not less than 50% marks in the AICET conducted by Pravara Institute of Medical Sciences or by agency specified by UGC However the minimum marks required for admission shall be 40% for SC/ST candidates.
- 6.4 A candidate may provisionally be allowed to appear for AICET, who has appeared in a qualifying examination awaiting result. In case of selection to MRH course, admission will be subject to clearing the qualifying examination satisfying conditions enumerated in Rules (4) above.

7. Medical Curriculum:

7.1. Aim

- Graduate medical curriculum is oriented towards training students to undertake the responsibilities of a Health professional/specialist and a manager who is capable of looking after the social, preventive, promotive, curative and rehabilitative aspects of rural health.
- The aim of the medical curriculum is to produce a Health Professional/Specialist who is socially acceptable and is able to work safely and effectively on patients and other needy in society, especially the under-reached and under-privileged in facilitating awareness, counseling, diagnosis, prevention and treatment of common health problems and should have social commitment.
- To produce a health post- graduate who is capable of functioning and managing health effectively both under the rural and urban settings shall be the main aim of education curriculum and emphasis shall be placed in fundamental and need-based aspects on the subjects taught and on common problems of health and disease avoiding unnecessary details and areas of specification.

7.2. Objectives

A. National

At the end of undergraduate program the MRH student shall endeavour to be able to

1. Recognize 'health for all' as a national goal and health right of all citizens and by undergoing training for health profession, fulfill his / her social obligation toward realization of this goal.
2. Learn every aspect of National policies on health and devote himself / herself to its practical implementation

3. Achieve competence in management of holistic medicine, encompassing social, promotive, preventive, curative and rehabilitative aspects of common health problems.
4. Develop scientific temper, acquire educational experience for proficiency in profession and promote healthy living
5. Become exemplary citizen by observation of social and medical ethics and fulfilling social and professional obligations, so as to respond to national aspirations.
6. Opportunities to facilitate collaboration, networking with international and national level institutes / organizations / foundations for promotion, advancement and sharing of academic and research knowledge and activities in medicine, health and allied sciences for development of mankind in India and abroad.
7. All possible arrangements for national and global participation in the field of medicine, health and allied sciences.

B. Institutional

1. Competent in understanding and management of common health problem of the Individual and community, commensurate with his / her position as a member of the health team at the primary, secondary or tertiary levels, using his / her para- clinical skills based on epidemiological knowledge, resources, history, data on physical examination and relevant investigations
2. Competent to associate and implement social, preventive, promotive, curative and rehabilitative medicine in respect to the commonly encountered health problems.
3. Appreciate rationale for different social needs, therapeutic modalities; be familiar with the administration of the 'essential drugs' and amenities conducive to social structure.
4. Be able to appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop human attitude towards the patients in discharging one's professional responsibilities
5. Possess the attitude for continued self-learning and to seek further expertise or to pursue research in any chosen area of medicine
6. Be familiar with the basic factors, which are essential for the implementation of the National Health Programmes
7. Acquire basic management skills in the area of human resources, materials and resource management related to health care delivery
8. Be able to identify community health problems and learn to work to resolve these by designing, instituting corrective steps and evaluating outcome of such measures
9. Be able to work as a leading partner in health care teams and acquire proficiency in traditional and e-communication skills

10. Be competent to work in a variety of health care settings
11. Have personal characteristics and attitudes required for professional life such as personal integrity, sense of responsibility and dependability and ability to relate to or show concern for other individuals
12. To promote and provide
 - i. Instruction, knowledge, education, training and research facilities of high order in the areas of study relevant to medicine, health and allied Health sciences as per its current status and such other manner as may develop in future
 - ii. Research relevant to current and emerging field of medicine, health and Allied Health sciences.
 - iii. Opportunities for the integration of formal, newer learning technologies e.g. Problem Based Learning and non-formal learning with practical experiences in medical and health sciences with other areas of human development.

8. M.R.H course

Structure of M.R.H course:

- 8.1 The M.R.H Course curriculum shall be taught within two academic years with following distribution.

COURSE STRUCTURE

SEMESTER – I			
THEORY		PRACTICALS	
MRH - 101	4 CREDITS	MRH 111	4 CREDITS
MRH - 102	4 CREDITS	MRH 112	4 CREDITS
MRH – 103	4 CREDITS		

SEMESTER – II			
THEORY		PRACTICALS	
MRH - 201	4 CREDITS	MRH 211	4 CREDITS
MRH - 202	4 CREDITS	MRH 212	4 CREDITS
MRH - 203	4 CREDITS		
MRH - 20E	4 CREDITS		

SEMESTER – III			
THEORY		PRACTICALS	
MRH - 301	4 CREDITS	MRH 311	4 CREDITS
MRH - 302	4 CREDITS	MRH 312	4 CREDITS
MRH - 303	4 CREDITS		
MRH - 30E	4 CREDITS		

SEMESTER - IV			
THEORY		PRACTICALS	
MRH - 401	4 CREDITS	MRH 411	4 CREDITS
MRH - 40D DESSERTATION	8 CREDITS	SEMINAR	4 CREDITS

COMPULSORY CORE SUBJECTS

THEORY

SEMESTER :01

MRH - 101: INTRODUCTION & SIGNIFICANCE OF RURAL HEALTH & COMMUNITY DEVELOPMENT

MRH - 102: DETERMINANTS OF RURAL HEALTH

MRH- 103: RURAL HEALTH & DEVELOPMENT

MRH - 104: NUTRITION & FOOD SECURITY

SEMESTER :02

MRH - 201: EPIDEMIOLOGY & BIostatISTICS

MRH - 202: RESEARCH METHODOLOGY

MRH - 203: ENVIRONMENTAL RISK ASSESSMENT FOR HEALTH

SEMESTER :03

MRH - 301: COMMUNICABLE DISEASES

MRH - 302: NON COMMUNICABLE DISEASES & OCCUPATIONAL HEALTH

MRH - 303: HEALTH SYSTEMS DEVELOPMENT & RESEARCH

SEMESTER :04

MRH - 401: HEALTH POLICY, PLANNING & MANAGEMENT INCLUDING

MRH 402 : BEHAVIOURAL CHANGE COMMUNICATION (BCC)

ELECTIVE SUBJECTS

SEMESTER :02

MRH - 20E: ENVIRONMENTAL SANITATION & WASTE MANAGEMENT

MRH - 21E: REPRODUCTIVE & CHILD HEALTH

MRH - 22E: HUMAN RESOURCE DEVELOPMENT IN RURAL HEALTH

SEMESTER :03

MRH - 30E: INTERNATIONAL HEALTH

MRH - 31E: RURAL HEALTH ECONOMICS & FINANCING

MRH - 33E: HEALTH INFORMATICS

PRACTICALS

SEMESTER :01

MRH –III DETERMINANTS OF RURAL HEALTH

MRH –112 NUTRITION & FOOD SECURITY

MRH- 113 BASIC COMPUTER APPLICATIONS

SEMESTER :02

MRH - 211 EPIDEMIOLOGY & BIostatISTICS
MRH -212 ENVIRONMENT RISK ASSESSMENT FOR HEALTH
MRH - 213 COMPUTER APPLICATIONS IN DEMOGRAPHY

SEMESTER :03

MRH - 311 COMMUNICABLE DISEASES
MRH -312 NON-COMMUNICABLE DISEASES & OCCUPATIONAL HEALTH
MRH - 313 COMPUTER MAPPING OF DISEASES

SEMESTER :04

DISSERTATION AREAS

MRH - 40D COMMUNITY BASED
MRH - 41D INSTITUTIONAL BASED
MRH - 42D CONCEPTUAL
MRH - 44D PEDOGOGIC (EDUCATIONAL TECHNOLOGY)

9. Syllabus of M.R.H course:

9.1 The M.R.H Course curriculum shall be taught within two years with following distribution.

M.Sc RURAL HEALTH (MRH)

Duration of course: 2 academic year

Semesters: 4 of 6 months duration each

Course constituents: Theory, Practicals, Field visits, Computer health information management, Tele-Health

SEMESTER-1 (Theory)

MRH 101: INTRODUCTION

Population distribution
Urban and Rural India
Rural environment in India
Rural environment in developed countries
Social organization and stratification in India
Quality of life in rural areas
Shifting life-styles & mechanization in rural India
Implications of Rural Health

MRH 102: DETEMINANTS OF RURAL HEALTH

Poverty & Health
Culture & Health
Society & Health
Biological and behavioral factors
Gender & Health
Human Rights & Health
Geographical Remoteness & Health
Environment & Health

MRH - 103: RURAL HEALTH & DEVELOPMENT

Introduction to Concept of Health, Development and Productivity
Significance of Rural Health
Magnitude and Nature of Problems
Socio-Psychological Barriers
Community Participation & Organization
Health Seeking Behaviour
Rural development
Bio-technology in Rural Development
Tele-health/Medicine in Rural Development

MRH - 104: NUTRITION & FOOD SECURITY

Basic principles
Risk assessment
Food & nutrition management
Healthy Nutritional literacy
Food safety & quality surveillance
Bio-Technology in Nutritional Enhancement

SEMESTER – I: PRACTICALS

MRH - 111: Determinants of Rural Health
MRH - 112: Nutrition & Food Security
MRH- 113: Basic computer applications

SEMESTER – II: THEORY

MRH - 201: EPIDEMIOLOGY & BIOSTATISTICS

Introduction to epidemiology
Basic principles of epidemiology
Epidemiological studies and trials
Epidemic investigations
Survival data Analysis in Epidemiology
Introduction and applications of descriptive statistics
Correlation & Regression
Statistical Inference
Parametric and Non-parametric tests
Health & Vital Statistics

MRH - 202: RESEARCH METHODOLOGY

Types & Methods of Research in Rural Health
Principles of research, research/study design,
Basic research tools, Sample Survey Techniques
Qualitative and quantitative methods,
Statistical Methods in Research,
Ethics in Research, Report writing, Bibliography.

MRH - 203: ENVIRONMENTAL RISK ASSESSMENT FOR HEALTH.

Safe drinking Water
Environmental Monitoring & Risk assessment (including water, air, soil)
Impact of environmental risks on health
Environmental safety & prevention
Fundamentals of occupational Health
Arthropods related to health
Integrated arthropods management

SEMESTER – II: PRACTICALS

MRH - 211: Epidemiology & Biostatistics
MRH - 212: Environmental Risk Assessment for Health
MRH- 213: Computer applications in Demography

ELECTIVE SUBJECTS

MRH - 20E ENVIRONMENTAL SANITATION & WASTE MANAGEMENT

Appropriate and low cost environmental measures
Eco-friendly environmental practices
Waste monitoring
Rural waste management including agricultural residue
Recycling of bio-degradable wastes
Bio-technology in waste management

MRH - 20E: REPRODUCTIVE & CHILD HEALTH

Safe Motherhood
Adolescent Health
Syndromic Management of RTI/STI
Child Health & Survival
Immunization against vaccine preventable diseases
Family welfare

MRH - 21E: HUMAN RESOURCE DEVELOPMENT FOR RURAL HEALTH

Integration of different systems of medicine
Planning & development of appropriate health care man-power (Community Health Workers & People-centered Development)
Bringing informal health care providers into mainstream
Capacity building of NGOs, CBOs and other Target groups
Concept of Team Building

SEMESTER – III: THEORY

MRH - 301: COMMUNICABLE DISEASES

Introduction to communicable diseases
Epidemiological transition of communicable diseases
Emerging & re-emerging diseases
Prevention & Control of Communicable diseases

MRH - 302: NON COMMUNICABLE DISEASES & OCCUPATIONAL HEALTH

Emerging non communicable diseases due to changing life styles
Occupational Health in Rural areas – problems and priorities
Health promotion and prevention of agricultural workers
Occupation related non-communicable diseases
Occupational Health Services with special reference to agricultural & unorganized workers
(medical & biological monitoring including first-aid)

MRH - 303: HEALTH SYSTEMS DEVELOPMENT & RESEARCH

Introduction to various Health System Models
Fundamentals of resource management
Stakeholders in health care delivery
Concept & Delivery of Primary Health Care
Development of decentralized health care delivery system
Sustainable Grassroots Comprehensive Health Models
Health Systems research - 10/90 Gap in medical research

SEMESTER – III: PRACTICALS

MRH - 311: Communicable Diseases
MRH - 312: Non Communicable Diseases & Occupational Health
MRH- 313: Computer mapping of diseases

ELECTIVE SUBJECT

MRH - 30E: INTERNATIONAL HEALTH

The context of international health
Socio-cultural perspectives of International health
Population dynamics
International health policy issues & management
Public & Rural Health in developing & developed countries
Communicable and Non communicable diseases
Essential Drug Policies & Issues
International Health Agencies and their role and contribution

MRH - 31E: RURAL HEALTH ECONOMICS & FINANCING

Investment in rural health
Rural health care financing
Community health financing
Health Care Insurance/ Cross subsidizing
Development partners in rural health
Health tourism

MRH - 32E: HEALTH INFORMATICS

Information systems in rural health care,
Design of health information systems and health care records; language and coding;
compatibility and security issues
Applications of IT in rural health (tele-medicine/health)

SEMESTER - IV - THEORY

MRH - 401: HEALTH POLICY, PLANNING & MANAGEMENT

Community Needs Assessment
Health resources & management
Strategic planning , implementation and evaluation
Health Economics & Financing
Health Sector Reforms
Organizational behavior and development
Public- Private partnership
Health care quality assurance
Information, Education & Communication

10. The student shall not be allowed to study the courses of next year unless he has successfully completed the previous year MRH Examination.

10.1 Field work:- Every candidate will be required to undertake regular field work in a Health set up stationary or mobile in Hospital/ Health Centre / mobile hospital/clinic or any other authorized center

11. Minimum Working Hours for Each Subject / Course of Study.

11.1 PBL: Problem Based Learning be integrated by instituting scenarios related to various health subjects

11.2: 75% attendance in Theory, Practical and Clinical work is mandatory requirement for qualifying to appear for final university examination. This relaxation is only to cater for any exigencies.

12. Eligibility for Appearing for Final University Examination:

12.1 No student shall be allowed to appear for the Final University Examination conducted by P.I.M.S. unless he/she satisfies the requirement of attendance (75%),has satisfactory progress and conduct as stipulated by the Pravara Institute of Medical Sciences.

12.2 No student will be allowed to appear for the University Examination unless he/she obtains 35% marks in Internal Assessment for each subject separately.

12.3 The Dean / Principal should certify that the candidate appearing for University Examination satisfies the conditions stipulated in Rules (10.1) and (10.2)

12.4 There shall be no ATKT Scheme.

13. Scheme of Examination:

13.1 The Examination shall be held twice in a year. The examination shall be conducted as per schedule given below.

13.2 The pattern of question paper will cover the entire syllabus. The paper will consist of MCQ, SAQ, LAQ, MEQ etc.

- 13.3 The Examinations are to be conducted in manner to assess whether the candidate has acquired the necessary minimum skill and clear concepts of the fundamentals essential to his/her day-to-day professional work. The candidate is expected to recall information, have clear understanding of the subject, ability to synthesize scattered bits of information and analyze her/his capacity to invite original thinking and application of theory.
- 13.4 The system of evaluation will be impartial, unbiased confidential and transparent.
- 13.5 The final examination will be carried out in two parts. The evaluation of the student will be done by Internal Assessments, written and oral examination.
- 14. Rules of Passing:**
- 14.1 The candidates must secure a minimum of 50% marks in each head of passing in the University Examination. Theory and Practical / Fieldwork will be treated as separate head for passing.
- 14.2 The candidate will be declared as passed with Distinction if he secures more than 75% marks.
- 14.3 Any candidate who fails an Examination is not permitted to go to the next higher class and appear for the subject and complete it successfully before he can appear for the next higher examination.
- 14.3 If a candidate fails either in theory or in practical/clinical Examination of a subject he / she will be declared failed in that subject and he / she will have to appear for theory and practical / clinical Examination again.
- 14.4 Grace marks are not permitted at any stage of evaluation for examinations.

Written examination

Total 500 marks (Four papers of 100 marks and + 100 marks internal assessment)

Practical examination

Total 500 marks (300 for practical and 100 marks for thesis + 100 marks internal assessment)

PART – I At the end of the first academic year.

- Two written Internal Assessment (25 marks in each term)
- Written final examinations (50 marks x four papers at the end of each academic year)
- Two practical examinations internal assessment (25 marks in each term)
- Practical final examinations (200 marks)

PART – II At the end of the first academic year.

- Two written Internal Assessment (25 marks in each term)
- Written final examinations (50 marks x four papers at the end of each academic year)
- Two practical examinations internal assessment (25 marks in each term)
- Practical final examinations (200 marks)
- Thesis writing and defending (100 marks at the end of final academic year)

**THERE WILL BE SEPARATE PASSING FOR INTERNAL ASSESSMENT.
THERORY AND PRACTICAL**

Grace marks will be as per university rules.

Examination Schedule. University Examinations

Internal examination will be conducted at the end of each semester. University examinations will be conducted yearly. Internal assessment and fieldwork will be given weightage.

- 14.5 The students desirous for appearing for the University Examination shall submit the application form duly filled along with prescribed examination fee. Incomplete application forms or application form submitted without prescribed fee or application form submitted after due date will be rejected and student shall not be allowed to appear for the examination.
- 14.6 The candidate must get 35% marks in Internal Assessment of each subject separately for passing and qualifying for final University examination.
- 14.7 The students appearing for the University Examination should satisfy the conditions stipulated in Rule (10) above.
- 14.8 Each theory paper will be of three hours duration and each practical / clinical examination shall be as per schedule.
- 14.9 Not more than 30 candidates in clinical or practical should be examined in one day.
- 14.10 The practical examination should be arranged in such a way that the student is examined by all examiners during the course of the practical examination and the distribution of marks amongst the examiners should be equal.
- 15 Syllabus for the entire MRH course has been provided as above, and is applicable for current academic session. Minor need-based alterations will be intimated simultaneously and in advance to the trainees, teachers and examiners, wherever applicable.

PIMS, Loni. 413 736

Circular No.....
Date.....

Registrar
Pravara Institute of Medical Sciences