



## **MGM INSTITUTE OF HEALTH SCIENCES**

(Deemed University u/s 3 of UGC Act, 1956)

**Grade 'A' Accredited by NAAC**

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### **Master of Physiotherapy (Specialty- Community Physiotherapy)**

#### **MGM Institute of Health Sciences**

#### **Program Outcomes for Master of Physiotherapy Program**

Students who complete 2 years postgraduate program in Physiotherapy would earn a Master of Physiotherapy (MPT) specialty degree. The learning outcomes that a student should be able to demonstrate on completion of a degree level program include academic, personal, behavioral, entrepreneurial and social competencies. It is expected that a student completing a particular course must have a level of understanding of the subject and its sub-areas in consonance with the learning outcomes mentioned at the end of that course. Program learning outcomes include Physiotherapy specific skills, generic skills, transferable global skills and competencies that prepare the student for employment, higher education, research and develop them as contributing members for overall development of the society.

The program learning outcomes relating to MPT degree program Specialty - Preventive & Community Physiotherapy are summarized below:

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| PO 1 | To design, implement and assess the effects of interventions and technology in the community based rehabilitation and to become well-trained grass-root CBR functionaries  |
| PO 2 | To apply behavioral skills and humanitarian approach while communicating with patients, relatives, society at large and co-professionals   |
| PO 3 | To apply and examine moral, ethical values and legal aspects concerned with Physiotherapy management, demonstrate professional ethical behavior towards client and maintain respect, dignity and confidentiality of patients, to sensitize people about issues related to gender discrimination and socio-cultural factors |
| PO 4 | To critically analyze interactions between structure and function of human body, applied anatomy, physiology in physiotherapy practice pertaining to cardiovascular, pulmonary and musculoskeletal system with sound clinical reasoning, detailed knowledge of exercise physiology and fitness.                            |

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| PO 5 | To explain biopsychosocial component of pain and dysfunction   |
| PO 6 | To analyze biomechanics of human movement and apply biomechanical principles in Physiotherapy management, ergonomic and job analysis, especially in movement disorders in women, children, elderly and industry.   |
| PO 7 | To plan and implement community based rehabilitation programs and to develop linkages with appropriate agencies and groups of individuals  |
| PO 8 | To apply strategies for prevention of disabilities and to carry out early identification and intervention for disability prevention, advise the family members and community regarding interventions with disabled people, inform people regarding legislations on disability and developmental schemes and concessions to persons with disabilities.  |
| PO 9 | To critically analyze assessment and treatment methods through scientific enquiry, experiential learning and demonstrate entrepreneurship and managerial skills related to task in day-to-day work for personal & societal growth, design innovative devices and techniques for treatment, invent intellectual property in specialized are of interest |
| PO10 | To apply basic computer applications for data management, data storage, generating data bases and for research purposes.   |

### **Program Specific Outcomes for Master of Physiotherapy Program Specialty - Preventive & Community Physiotherapy**

Graduates of the Master of Physiotherapy program will be proficient in skills imbibed in the undergraduate program and in addition demonstrate skills to:

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| PSO 1 | Critically evaluate, prioritize and apply physiotherapy approaches, paradigms and techniques and utilize appropriate, evidence-based skills, techniques and practice in managing and treating people with injury, disability or illness in a range of health care and/or rehabilitation settings.  |
| PSO 2 | Identify, analyze and respond appropriately to ethical dilemmas and challenges, and ethical implications of patient/client presentations.  |
| PSO 3 | Develop a reasoned rationale for clinical evidence-based physiotherapy intervention and design appropriate treatment/management plans to meet the needs of patients/clients within legislative, policy, ethical, funding and other constraint.   |
| PSO 4 | Acquire and examine new knowledge, research, technologies and other appropriate resources and methods to optimize, and to ensure cost-effectiveness, quality and continuous improvement of health care delivery and outcomes.  |
| PSO 5 | Post graduates will demonstrate ability to plan, recommend and implement Physiotherapy treatment and practice independently across a range of clinical settings such as tertiary care hospitals, out-patient departments, specialized intensive care units, cardiac and pulmonary rehabilitation units, fitness centers, geriatric homes, gymnasiums, sports units, pediatric units, community health centers, research-driven |

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|       | institutes and other interdisciplinary health care centers/industry, in both rural and urban areas.   |
| PSO 6 | Apply creativity and competency whilst upholding professional standards and relationships with a range of stakeholders (including clients, colleagues, careers, families, employers, insurers and others whose presence impacts on the patient/client, and other treatment providers and team members) with different understandings, perspectives and priorities influencing physiotherapy practice. |
| PSO 7 | Adapt communication styles recognizing cultural safety, cultural and linguistic diversity   |

**VII. Course learning outcomes:** are defined within the course content that makes up the program. The courses are structured such that learning is vertically and horizontally integrated into the curriculum. The CBCS curriculum offers a certain degree of flexibility in taking courses. Course learning is aligned to the program learning outcomes and graduate attributes. The MPT program is inclusive of 4 semesters inclusive of 12 core courses, ( 35 Credits), 6 ability enhancement compulsory courses (AECC- 14 credits), 6 ability enhancement elective courses (AEEC – 6 credits) and 3 discipline specific skill electives (SEC – 4 credits) and 2 generic electives (GEC – 2 credits). Clinical training (CLT) is included in each semester (22 credits). Research project will be submitted as a mandatory requirement for award of Master’s degree (7 credits). Evaluation of the courses vary as appropriate to the subject area, inclusive of formative and summative assessment, on-going comprehensive assessment in the form of closed and open book tests, objectively structured practical examination OSPE , objectively structured clinical examination OSCE, problem based assignments, practical assignments, observation of practical skills, project reports, case reports, viva, seminars, essays, and others.

**Course Outcomes (CO):****Semester I**

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|------------------------------|---|
| <b>Name of the Programme</b> | <b>Master Of Physiotherapy (MPT)<br/>Specialty - Preventive &amp; Community Physiotherapy</b> |
| <b>Name of the Course</b>    | <b>Ergonomics &amp; Applied Biomechanics</b>  |
| <b>Course Code</b>           | <b>MPT-061</b>  |
| <b>Credit per Semester</b>   | <b>4 credits</b>  |
| <b>Hours per Semester</b>    | <b>100 hours</b>  |

| <b>Course Learning Outcomes</b> |  |
|---------------------------------|--|
| <b>Student will be able to</b>  |  |
| CO 1                            | Describe basic concept of ergonomics, importance of ergonomics, diagnose work related disorders, manage them and modify the work station accordingly, Provide advice about creation of healthy work environment, work station exercises, and home exercises. |
| CO 2                            | analyze basic and complex motions, perform posture and gait analysis, identify and co-relate normal movements and movement dysfunction   |
| CO 3                            | asses movement dysfunction of various joints in upper extremity, lower extremity and spine, apply advance techniques /therapy to manage movement dysfunction   |

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| <b>Name of the Programme</b> | <b>Master Of Physiotherapy (MPT)<br/>Specialty –Preventive &amp; Community Physiotherapy</b> |
| <b>Name of the Course</b>    | <b>ICF- International classification of function</b>   |
| <b>Course Code</b>           | <b>MPT-062</b>   |
| <b>Credit per Semester</b>   | <b>2credits</b>  |
| <b>Hours per Semester</b>    | <b>40 hours</b>  |

| <b>Course Learning Outcomes</b> |   |
|---------------------------------|---|
| <b>Student will be able to</b>  |   |
| CO 1                            | formulate plan of physiotherapy management based on ICF model   |
| CO 2                            | outline functional impairments  |
| CO 3                            | examine the different outcome measures  |
| CO 4                            | prioritize treatment goals for management, identify strategies for cure, care and prevention; apply restorative & rehabilitative measures for maximum possible functional independence of a patient at home, work place and in the community following conservative or surgical management of cardiovascular disease. |

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| <b>Name of the Programme</b> | <b>Master Of Physiotherapy (MPT)<br/>Specialty - Preventive &amp; Community Physiotherapy</b> |
| <b>Name of the Course</b>    | <b>Exercise physiology in health and disease</b>  |
| <b>Course Code</b>           | <b>MPT-003</b>  |
| <b>Credit per Semester</b>   | <b>3 credits</b>  |
| <b>Hours per Semester</b>    | <b>80 hours</b>   |

| <b>Course Learning Outcomes</b> |   |
|---------------------------------|---|
| <b>Student will be able to</b>  |   |
| CO 1                            | describe the physiology of different body systems while exercising.   |
| CO 2                            | examine the role of heart and lung during exercise performance.   |
| CO 3                            | compare /contrast between aerobic and anaerobic exercises   |
| CO 4                            | describe and assess the effects of environment on exercises.  |
| CO 5                            | describe , assess and analyze physiological response to acute and long term exercise in health and disease. |

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| <b>Name of the Programme</b> | <b>Master Of Physiotherapy (MPT)<br/>Specialty - Preventive &amp; Community Physiotherapy</b> |
| <b>Name of the Course</b>    | <b>Cardiopulmonary Resuscitation</b>  |
| <b>Course Code</b>           | <b>MPTAECC-001</b>  |
| <b>Credit per Semester</b>   | <b>2 credits</b>  |
| <b>Hours per Semester</b>    | <b>60 hours</b>   |

| <b>Course Learning Outcomes</b>  |   |
|----------------------------------|---|
| <b>Student should be able to</b> |   |
| CO 1                             | describe the importance of basic life support skills in case of emergency situation and to be able to give victims the best chance of survival, effect of high quality CPR and its impact on survival |
| CO 2                             | describe signs of cardiac arrest, activate emergency response system early, and respond quickly and confidently   |
| CO 3                             | describe steps of chain of survival and apply BLS concepts of chain of survival   |
| CO 5                             | perform high quality CPR for an adult/ child/ infant  |
| CO6                              | describe the importance of early use of Automated external defibrillator (AED)  |
| CO7                              | demonstrate appropriate use of an Automated External Defibrillator AED  |
| CO8                              | demonstrate use of effective ventilations by using a barrier device   |
| CO9                              | demonstrate skills both as a single rescuer and a member of a multi rescuer team  |

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| CO10 | demonstrate techniques of relief of foreign-body airway obstruction for an adult/child/infant |

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| <b>Name of the Programme</b> | <b>Master Of Physiotherapy (MPT)<br/>Specialty - Preventive &amp; Community Physiotherapy</b> |
| <b>Name of the Course</b>    | <b>Research methods</b>   |
| <b>Course Code</b>           | <b>MPTAECC062</b>   |
| <b>Credit per Semester</b>   | <b>2 credits</b>  |
| <b>Hours per Semester</b>    | <b>40 hours</b>   |

| <b>Course Outcomes</b>         |   |
|--------------------------------|---|
| <b>Student will be able to</b> |   |
| CO 1                           | apply basic concept of research, design, problems & sampling techniques of research.  |
| CO 2                           | describe types of study designs and apply basic concepts of statistics & principles of scientific enquiry in planning and evaluating the results. |
| CO 4                           | analyze various methods of quantitative and qualitative data analyses   |
| CO 5                           | describe the terminology in research, ethical issues and research process.  |
| CO 6                           | use important sources, and explain steps in reviewing of literature.  |
| CO 7                           | apply sampling technique, research process, data collection, biostatistics, correlation and statistical significance tests.                       |
| CO 8                           | conduct descriptive, explorative, survey studies in physical therapy practice with use of biostatistics.  |

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| <b>Name of the Programme</b> | <b>Master Of Physiotherapy (MPT)<br/>Specialty - Preventive &amp; Community Physiotherapy</b> |
| <b>Name of the Course</b>    | <b>Bioethics, Health management and Administration</b>  |
| <b>Course Code</b>           | <b>MPTAECC-063</b>  |
| <b>Credit per Semester</b>   | <b>3 credits</b>  |
| <b>Hours per Semester</b>    | <b>60 hours</b>   |

| <b>Course Learning Outcomes</b> |  |
|---------------------------------|--|
| CO 1                            | describe the nature, meaning and principals of bioethics, concepts related to administration and management with professional ethics.  |
| CO 2                            | apply ethical codes of physical therapy practice as well as moral and legal aspects related to human dignity and human rights.   |
| CO 3                            | describe the benefit and harm of patient's right & dignity in Health care settings.  |
| CO 4                            | discuss the role of governing councils, constitutions and functions of W.H.O. and W.C.P.T and IAP.   |
| CO 5                            | discuss role of management and administration, budget planning, leadership and teamwork, management skills in planning and implementing the administration in clinical practice. |
| CO 6                            | use information technology for documentation, record maintenance, data storage in professional practice.   |

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| <b>Name of the Programme</b> | <b>Master Of Physiotherapy (MPT)<br/>Specialty - Preventive &amp; Community Physiotherapy</b> |
| <b>Name of the Course</b>    | <b>Teaching Technology</b>  |
| <b>Course Code</b>           | <b>MPTAECC-064</b>  |
| <b>Credit per Semester</b>   | <b>3 credits</b>  |
| <b>Hours per Semester</b>    | <b>80 hours</b>   |

| <b>Course Learning Outcomes</b> |  |
|---------------------------------|--|
| <b>Student will be able to</b>  |  |
| CO 1                            | describe the the aims, philosophy and trend and issues in education.   |
| CO 2                            | describe the role of education philosophy, current issues and trends in education.                               |
| CO 3                            | understand the concepts of teaching and learning with curriculum formation.                                      |
| CO 4                            | describe methods of teaching, and conduct educational seminars and microteachings using new trends in education. |

  
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