

Course Outcomes (COs)	
Course Code	
SEMESTER III	
MHIMT 111 T	Entrepreneurship and Health IT Project management
CO1	Analyze the process of innovation and new idea generation and explain the business environment to identify business opportunities
CO2	Evaluate and apply different entrepreneurial strategies and assess the new venture feasibility and risk evaluation
CO3	Explain project management process, lifecycle and its organization.
CO4	Explain the monitoring, evaluation and control process involve in the project management
MHIMT 112 T	Managing Health Information Systems
CO1	Plan, Monitor, organization and control the health Information system and its resources required for managing patient data
CO2	Demonstrate the leadership role in healthcare IT projects and related activities
CO3	Analyze the Benefits, Cultural Challenges, and issues in adopting health information system and application.
CO4	Demonstrate the application of knowledge management system in healthcare organization
CO5	Develop various QA approach in implementing and managing health information system
CO6	Explain what is information governance, its need and the different IG models and their significance.
CO7	Apply the concept of IG in managing healthcare and healthcare data management
MHIMT 114 P	Database Management System
CO1	Understand the core principles of database management systems, including data modeling, database architecture, and normalization techniques.
CO2	Develop proficiency in using Structured Query Language (SQL) for data definition, manipulation, and querying within MySQL.
CO3	Learn to design and implement databases that are efficient, scalable, and secure, applying best practices in data modeling and normalization.
CO4	Apply theoretical knowledge through practical lab sessions and projects, developing real-world databases and solving complex data management problems.
MHIMT 115 P	Advanced Web Development
CO1	To deepen understanding of advanced web development concepts.
CO2	To gain expertise in modern web technologies and frameworks.
CO3	To develop the ability to build complex, scalable, and secure web applications.
MHIMT 116 P	Mobile Application Development for Healthcare
CO1	To understand the fundamentals of mobile application development in the healthcare context
CO2	To gain proficiency in modern mobile development technologies and frameworks.
CO3	To develop the ability to design, implement, test, and deploy secure and effective mHealth applications.
MHIMT 117 P	Machine Learning in Healthcare
CO1	To understand the fundamental concepts and techniques of machine learning.
CO2	To gain proficiency in implementing machine learning algorithms using modern tools and frameworks.
CO3	To learn to train, evaluate and improve machine learning models.
MHIMT 118 P	Data Visualization and Reporting in Healthcare
CO1	To understand the fundamentals of data visualization and reporting in the healthcare context.
CO2	To gain proficiency in using modern data visualization tools and technologies and to learn best practices for data reporting and presentation
CO3	To develop the ability to create clear and effective visualizations that communicate complex healthcare data.

	SEMESTER IV
GE 001 T	Pursuit of Inner Self Excellence (POISE)
CO1	Develop self-reliance, decisiveness, and intuitive abilities to make informed academic and career choices.
CO2	Enhance critical thinking and presentation skills for effective idea articulation.
CO3	Explore and harness inner potential to enhance focus and success in research and technical fields.
CO4	Apply stress management techniques for improved well-being and productivity.
CO5	Foster empathy, compassion, teamwork, and ethical responsibility for professional and societal growth.
GE 002 T	Bioethics, Biosafety, IPR, and Technology Transfer
CO1	Implement biosafety and risk management protocols to ensure health and safety in biological laboratories.
CO2	Provide informed and professional guidance on bioethics, safety regulations, and intellectual property rights.
CO3	Ensure institutional compliance with legal frameworks and effectively coordinate with regulatory authorities.
CO4	Develop effective communication strategies to foster ethical decision-making and knowledge dissemination.
CO5	Mediate and manage ethical conflicts in research, biotechnology, and healthcare settings.
CO6	Demonstrate professional integrity and respect for diverse opinions in ethical and legal discussions.
GE 003 T	Disaster management and mitigation resources
CO1	Explain the fundamentals of disaster phenomena, their contextual aspects, and public health consequences.
CO2	Analyze international disaster risk reduction (DRR) frameworks and their implementation strategies.
CO3	Evaluate disaster impact assessments and design effective public health response strategies.
GE 004 T	Human Rights
CO1	Identify and contextualize human rights issues within national and international frameworks.
CO2	Critically evaluate human rights cases, tribunal decisions, and treaty reports
CO3	Formulate human rights-based policies and interventions for legal and social advocacy.
CO4	Advocate for human rights through legal and non-legal mechanisms.
CO5	Engage in informed discussions and debates on human rights with constructive reasoning.
MHIMT 119	Dissertation / Project Work
CO1	Develop healthcare informatics solutions that align with industry standards and regulatory requirements.
CO2	Evaluate healthcare challenges and design innovative IT-based interventions.
CO3	Implement secure and interoperable health information systems using industry frameworks.
CO4	Demonstrate project management skills to plan, execute, and optimize healthcare IT projects.
CO5	Collaborate effectively with multidisciplinary teams to integrate healthcare and IT expertise.
CO6	Assess system performance through testing and optimization to improve cybersecurity and efficiency.