M.SC. (INFORMATION TECHNOLOGY)

M.SC.IT PROGRAM OUTCOMES

PO- 1: Learners will acquire proficiency in IT related fields.

PO- 2: Learners will upgrade and strengthen analytical and research skills.

PO- 3: Learners will apply acquired knowledge in an ethical and professional manner.

PO- 4: Learners will enhance future ready skills for Industry and Academics.

PO- 5: Learners will be trained in leadership skills and demonstrate social responsibilities with sensitivity towards sustainability.

Course name: Technical Writing & Entrepreneurship Development
SEM III
Course code: MITS301

No	**Course Outcome**	**PO Mapping**
CO 1 (Remember)	The Learner will be able to describe technical communication and identify ethical and legal considerations in technical communication.	PO-1, PO-2, PO-3
CO 2 (Understanding)	The Learner will be able to explain what content writing, blogs is.	PO-1, PO-2, PO-3
CO 3 (Applying)	The Learner will be able to produce graphics and reports using technical writing.	PO-2, PO-3, PO-4
CO 4 (Analysing)	The Learner will be able to analyse proposals, Recommendation reports in technical communication.	PO-2, PO-3
CO 5 (Evaluating)	The Learner will be able to evaluate innovation within firms and summarize the research in technical communication.	PO-2, PO-3
CO 6 (Creating)	The Learner will be able to design and produce the reports, technical documentation.	PO-2, PO-3, PO5

Course name: Applied Artificial Intelligence
SEM III
Course code: MITS302

No	Course Outcome	PO Mapping
CO 1 (Remember)	The Learner will be able to identify various AI related concepts and recognize the way it has grown.	PO-1, PO-3, PO-4, PO-5
CO 2 (Understanding)	The Learner will be able to demonstrate the basic knowledge of the architecture of various AI systems & methods, and associate the key estimates used for the same.	PO-1, PO-2, PO-4
CO 3 (Applying)	The Learner will be able to apply and interpret the systems that can help one to illustrate the business needs and prepare a solution for the same	PO-1, PO-2, PO-4, PO-5
CO 4 (Analysing)	The Learner will be able to analyse the concept of expert system, classify the different types of models that can infer intelligence to the distinguished systems.	PO-1, PO-4
CO 5 (Evaluating)	The Learner will be able to evaluate different metrics which help to recommend the right type of system for grading and predicting the right measure for the system.	PO-1, PO-2, PO-4
CO 6 (Creating)	The Learner will be able to construct the sequence for the expert system and other AI system which uses various methods to combine and formulate the system so that we can take it to deploy ahead.	PO-1, PO-2, PO-4, PO-5

Course name: Machine Learning
SEM III
Course code: MITS303

No	Course Outcome	PO Mapping
CO 1 (Remember)	Learners will be able to identify various patterns hidden in the data set and they can recognise useful data in order to apply Machine Learning Algorithms	PO-1, PO-2, PO-4
CO 2 (Understanding)	Learners will be able to demonstrate the concepts in python and necessary libraries to be used in Machine Learning algorithms using python.	PO-2, PO-4
CO 3 (Applying)	Learners will be able to apply the life cycle, necessary libraries, Loading Data, Data Pre-processing, training set and test, apply the model and understanding the accuracy of the model.	PO-2, PO-4
CO 4 (Analysing)	Learners will be able to analyse the Data using various machine Learning algorithms and test with new data set which helps them to understand the subject thoroughly	PO-2, PO-4
CO 5 (Evaluating)	Concepts of Machine Learning are applied and tested Practically with dummy data set to assess and evaluate the	PO-2, PO-4, PO-3

	deep understanding of the subject.	
CO 6 (Creating)	Learner will be able to develop understanding of the fundamental issues and challenges of machine learning data, model selection, model complexity.	PO-2, PO-4, PO-5

Course name: Robotic Process Automation
SEM III
Course code: MITS304

No	Course Outcome	PO Mapping
CO 1 (Remember)	Learners will be able to identify the necessity of RPA & Identify processes which can be automated.	PO-1
CO 2 (Understanding)	Learners will be able to Distinguish between different types of bots in RPA.	PO-2, PO-3
CO 3 (Applying)	Learners will be able to demonstrate the use of different types of tools used in RPA.	PO-4
CO4 (Analysing)	Learners will be able to Analyse the key considerations while designing an RPA solution.	PO-3, PO-5
CO5 (Evaluating)	Learners will be able to summarize and evaluate Automation workflows.	PO-,3 PO-4
CO 6 (Creating)	Learners Will be able to develop the automation project with the development team.	PO-4, PO-5

Course name: BLOCKCHAIN
SEM IV
Course code: MITS401

No	Course Outcome	PO Mapping
CO 1 (Remember)	Learners will be able to identify the importance of secured transactions digitally and various use cases, applications of blockchain technology.	PO-1, PO-2, PO-4
CO 2 (Understanding)	Learners will be able to understand the conceptual understanding of how blockchain can be used to innovate and improve business processes both in theoretical and practical implementation.	PO-1, PO-2, PO-4
CO 3 (Applying)	Learners will be able to apply the concepts to know how it can sort and route information quickly, efficiently, accurately and around the clock.	PO-1, PO-2, PO-4
CO 4 (Analysing)	Learners will be able to analyse how transactions will be handled digitally using cryptocurrencies and how smart contracts are implemented.	PO-1, PO-2, PO-4
CO 5 (Evaluating)	Learners will be able to evaluate various programs in solidity for the deep understanding of the concepts and summarize the cryptocurrencies transactions.	PO-1, PO-2, PO-3, PO-4
CO 6 (Creating)	Learners will be able to develop block chain-based solutions and write smart contract using Hyperledger Fabric and Ethereum frameworks and deploy block chain application.	PO-1, PO-2, PO-4, PO-5

Course name: Natural Language Processing
SEM IV
Course code: MITS402

No	Course Outcome	PO Mapping
CO 1 (Remember)	Learners will be able to define how NLP allows machine to break down and interpret human language and understand the core of tools.	PO-1, PO-2, PO-4
CO 2 (Understanding)	Learners will be able to interpret the structure and meaning of human language by analysing different aspects like syntax, semantics, pragmatics and morphology.	PO-2, PO-4
CO 3 (Applying)	Learners will be able to apply the concepts to know how the tools can help machines learn to sort and route information quickly, efficiently, accurately and around the clock	PO-2, PO-4
CO 4 (Analysing)	Students will be able to analyse how the processing tasks involve syntactic a semantic analysis, used to break down human language into machine readable chunks.	PO-2, PO-4
CO 5 (Evaluating)	Learners will be able to evaluate and testing various tools in python for the deep understanding of the concepts	PO-2, PO-4, PO-3
CO 6 (Creating)	Learners will be able to devise a good understanding of the fundamentals of NLP and some of its challenges and discover the most popular and its applications.	PO-2, PO-4, PO-5

Course name: Deep Learning
SEM IV
Course code: MITS403

No	**Course Outcome**	**PO Mapping**
CO 1 (Remember)	The Learner will be able to recall and identify the linear algebra concepts of applied maths taught in machine learning.	PO-1, PO-2, PO-4
CO 2 (Understanding)	The Learner will be able to describe and summarize deep feedforward network and its regularization for deep learning.	PO-1, PO-2, PO-4
CO 3 (Applying)	The Learner will be able to illustrate Convolutional Networks, Sequence Modelling and its applications.	PO-1, PO-2, PO-4
CO 4 (Analysing)	The Learner will be able to analyse different linear factor models and autoencoders.	PO-1, PO-2, PO-4
CO 5 (Evaluating)	The Learner will be able to evaluate different deep generative models.	PO-1, PO-2, PO-3, PO-4
CO 6 (Creating)	The Learner will be able to design and produce different analysis models, different networks using deep learning.	PO-1, PO-2, PO-5, PO-5

Course name: Human Computer Interaction
SEM IV
Course code: MITS404

No	Course Outcome	PO Mapping
CO 1 (Remember)	Learner will be able to describe various models and styles for typical human–computer interaction	PO-1
CO 2 (Understanding)	Learner will be able to interpret & Explain the capabilities of both humans and computers from the viewpoint of human information processing	PO-2, PO-3
CO 3 (Applying)	Learner will be able to apply an interactive design process and universal design principles to designing HCI systems.	PO-4
CO4 (Analysing)	Learner will be able to Analyze and identify user models, user support, socio-organizational issues, and stakeholder requirements of HCI systems and categorize different macros by applying them in program.	PO-3, PO-5
CO5 (Evaluating)	Learners will be able to summarize with the knowledge HCI design principles, standards and guidelines.	PO-1, PO-2, PO-3
CO 6 (Creating)	Learners will be able to develop end-user interfaces incorporating problem solving solutions in HCI.	PO-3, PO-5