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Affiliated to Madurai Kamaraj University

Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)

Mary Land, Madurai - 625018, Tamil Nadu

PROGRAMME OUTCOMES AND COURSE OUTCOMES

2022 - 2023

NAME OF THE PROGRAMME: M.Sc Information Technology

PROGRAMME CODE: PSIT

Programme Outcomes:

PO 1	Apply acquired scientific knowledge to solve major and complex issues in the society/industry
PO 2	Attain research skills to solve complex cultural, societal and environmental issues
РО 3	Employ latest and updated tools and technologies to solve complex issues.
PO 4	Demonstrate Professional Ethics that foster Community, Nation and Environment Building Initiatives.



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Course Outcomes:

Course	Course Title	Course Outcomes
Code	Course Title	Course Outcomes
		CO1: To understand the structure and model of the Java programming
		language.
		CO2: To explain the concepts of Packages, Interfaces and strings.
21PG1IT1	Java & J2ME	CO3: To develop software implementing Exception handling mechanisms.
		CO4: To design software for database connectivity and able to design GUI
		applications.
		CO5: To implement server side programming using SERVLETS.
	Soft Computing	CO1: Understand basic model in soft computing.
		CO2: Elaborate artificial neural network concepts.
21PG1IT2		CO3: Be familiar with design of various neural networks.
		CO4: Understand genetic programming.
		CO5: Exposed to various hybrid systems.
	Data Science	CO1: To understand the basic concepts in R- Programming.
22PG1IT3	using R	CO2: Illustrate various statements used in R-Programming for data
	Programming	management.



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		CO3: Analyze various techniques and models to import and export the
		data set.
		CO4: To know about the Linear And Logistic Regression, Unsupervised &
		Advanced Methods.
		CO5: Implementation of documentation and effective presentations.
		CO1: Understand the core concepts of distributed systems.
		CO2: Analyze various message passing mechanisms with its model.
	Distributed	CO3: Identify the inherent difficulties that arise due to distribution of
21PG1IT4	Operating	computing resources.
	Systems	CO4: Explain migration with the process management policies.
		CO5: Explain the basic concepts, design and structure of the LINUX
		operating system.
		CO1: To understand the concept of Object Oriented Programming & Java
	LAB I: Java & J2ME	Programming Constructs.
21PG1IT5		CO2: To practice the concepts of operators, classes, objects, inheritance,
		packages ,Enumeration and various keywords.
		CO3: To apply exception handling mechanisms.



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		CO4: To design the applications of Java & Java applet, Swings and
		JDBC.
		CO5: To Analyze and implement J2ME
		CO1:Implement Basic Data Access, List
	LAB II: Data	CO2: Develop programs using Array, function.
22PG1IT6	Science using R-	CO3: Use Linear Regression and ANOVA CO4: Understand Graphical
	Programming	Configurations.
		CO5: Develop program using simulation and statistical method.
		CO1: Understand basic concepts in Alice.
	Animation Software	CO2: Construct a scene.
21IT1EDC		CO3: Build program in Alice using looping and branching.
		CO4: Apply event handlers in alice.
		CO5: Develop 3D animations
		CO1:Analyze and evaluate the cyber security needs of an organization
	Cyber Security	CO2: Measure the performance and troubleshoot cyber security systems.
21PG2IT7		CO3: Comprehend and execute risk management processes, risk
		treatment methods, and key risk and performance indicators.
		CO4: Design and develop a security architecture for an organization



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		CO5: Design operational and strategic cyber security strategies and
		policies.
		CO1: Understand the representation of digital image and its
		manipulations.
		CO2: Analyze image sampling and quantization requirements and
21PG2IT8	Digital Image	implications.
21702116	Processing	CO3: Describe various Transformation and Filtering Techniques.
		CO4: Demonstrate Restoration And Reconstruction models.
		CO5: Utilize Image Compression And Segmentation for efficient
		storage.
		CO1: Design scripts to meet given interface and media control
		requirements.
		CO2: Utilize variables, properties and other code elements appropriately
21PG2IT9	Android	to implement the code design.
	Programming	CO3: Implement and evaluate techniques for the installation of mobile
		applications.
		CO4: Explain the principles of technologies which support media
		production and delivery on a variety of platforms.



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		CO5: Evaluate alternative mobile frameworks, and contrast different
		programming platforms.
21PG2IT10	LAB III : Digital Image Processing	CO1: Demonstrate Fundamental Steps involved in Digital Image Processing. CO2:Analyze and use Mathematical Tools for Digital Image Processing. CO3: Apply Intensity Transformation functions and Spatial filtering methods. CO4: Utilise Color Image Processing with different Color Models. O5: Implement Image Segmentation Techniques and Image Compression Techniques using Huffman, Golomb and Arithmetic coding algorithms.
21PG2IT11	LAB IV: Android Programming	CO1: Develop enterprise-level mobile solutions. CO2:Install and configure Android application development tools. CO3:Demonstrate Save State information across important operating system events. CO4:Develop advanced application programs using Android. CO5: Design and develop mobile applications.
21PG2ITE1	Adhoc Network	CO1: Understand the design issues in ad hoc and sensor networks.



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		CO2:Learn the different types of MAC protocols.
		CO3: Be familiar with different types of adhoc routing protocols.
		CO4: Be expose to the TCP issues in adhoc networks.
		CO5: Learn the architecture and protocols of wireless sensor networks.
		CO1: Have a good understanding of the fundamental issues and challenges of machine learning concept. CO2: Understand, Analyse and identify the strengths and weaknesses of many popular machine learning approaches.
21PG2ITE2	Machine Learning	CO3: Aware about the underlying mathematical relationships across Machine Learning algorithms and the paradigms of supervised and unsupervised learning. CO4: Ability to design and implement various machine learning algorithms in a range of real-world applications. CO5: Perform evaluation of machine learning algorithms and model selection.
21PG2ITE3	Ethical Hacking	CO1:To Understand the fundamental concepts in ethical hacking CO2: Analyze different types of protocols.



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	CO3:Discuss the authentication requirements.
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	CO4: Explains various types of attacks
	CO5: Analyze the Security issues.
	CO1: Understand fundamentals of VBA CO2: Apply different conditional
Advanced Event	logics and loops.
	CO3: Build forms with interactivity.
VDA	CO4: Apply Events and Setting in Excel sheets.
	CO5: Develop Procedures and Array concepts.
	CO1: Understand the fundamental concept of Data Mining andanalyze
	and evaluate the data cleaning, integration, transformation and
	reduction techniques.
Data Mining and	CO2: Design multidimensional data using Data Warehouse architecture.
Data	CO3: Analyze and evaluate Classification algorithms.
Warehousing	CO4: Identify the types of data in Cluster Analysis and categorize the
	Cluster Methods.
	CO5: Utilize the Data Mining techniques in various real applications and
	in major issues.
Advanced Python	CO1:Understand the basic programming style in python.
	Data Warehousing



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	Programming	CO2: Apply various types of control flow statements in python programs.
		CO3: Identify the structure and components of a python program.
		CO4: Analyze Object oriented programming concepts and techniques in
		python.
		CO5: Implementing the GUI concepts in Python.
		CO1: Utilize Weka tool to evaluate Data Mining algorithms.
	IAD V. Doto	CO2: Demonstrate pre processing steps involved in different datasets.
010021714	LAB V: Data Mining and Data Warehousing	CO3: Develop the decision tree algorithm using different datasets.
21PG3IT14		CO4: Demonstrate the classification and clusters algorithms using large
		datasets.
		CO5: Analyze Data Mining techniques for realistic data.
		CO1: Demonstrate the basic concepts of variables expressions.
	LAB VI: Advanced	CO2: Develop basic python programs with I/O operations.
21PG3IT15	Python	CO3: Develop programs with function control structure.
	Programming	CO4: Apply strings and lists in python.
		CO5: Develop python programs with files.
21PG3ITE4	Software Testing	CO1: Discuss various software application domains and different process
		model used in software development.



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		CO2: Demonstrate the basics of software quality assurance and defect
		prevention.
		CO3: Compare different testing strategies and tactics.
		CO4: Apply the software testing techniques in commercial environment.
		CO5: Explain high performance testing using Jmeter.
		CO1:Interpret the concepts of system software and machine architecture.
	System Software	CO2: Identify the concepts of loader and linkers
22PG3ITE5	& Compiler Design	CO3: Analyse the concepts of working principles of compilers.
	Boolgii	CO4: Experiment Finite Automata for regular expressions.
		CO5: Simplify the expressions using Parser.
		CO1:Understand basic concepts in Computer forensics.
		CO2:Explain different investigation procedures.
21PG3ITE6	Computer	CO3: Understand different Data acquisition mode.
21PG3I1E0	Forensics	CO4: Understand investigation process using computer forensics.
		CO5: Know how to apply forensic analysis tools to recover important
		evidence for identifying computer crime
21PG3ITE7	Big Data	CO1: Understand the Characteristics and challenges of Big Data.
	Analytics	CO2: Describe the concepts of Big Data Analytics.



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		CO3: Utilize Hadoop for Big Data Technologies.
		CO4: Demonstrate MAPREDUCE Programming.
		CO5: Describe types of Recommendation Systems using Big Data
		Analytics.
		CO1: Understand the basic concepts of IoT.
	Internet Of	CO2: Discuss physical and logical design of IoT enabled technologies.
21PG3ITE8		CO3: Analyze how and where IoT can be applied.
	Things	CO4: Compare M2M and IoT.
		CO5: Analyse the features of Python used for IoT implementation.
		CO1: To understand the basic concepts of analysis.
	Algorithm Design and Analysis	CO2: Analyze the concept of various searching and traversal techniques.
22PG3ITE9		CO3: Discuss concept of dynamic programming and greedy method.
		CO4: Explain the concepts of Backtracking, branch and bound methods
		CO5: Apply the algorithm for NP-Hard and NP- complete problems.
		CO1: Identify employment contacts leading directly to a full-time job
21PG3ITSI	Summer	following course completion.
	Internship	CO2: Create communication, interpersonal and other soft skills essential
		for the job interview process.



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		CO3: Analyze the project requirements and engages in continuing
		professional development.
		CO4: Analyze a problem and identify the computing requirements
		appropriate to its solution.
		CO5: Utilizing a new software tool.
		CO1: Discuss project development and the associated business
		processes.
		CO2: Plan as an individual or in a team in development of technical
19PG4ITPR	Project Work And	projects.
19FG4IIFK	Viva Voce	CO3: Communicate with engineers and the community at large in written
		and oral forms.
		CO4: Create effective communication skills for presentation.
		CO5: Analyse problems and formulate solutions.
		CO1: To understand the basic concepts in R- Programming.
21PG4IT16		CO2: Illustrate various statements used in R-Programming.
	Biometrics	CO3: Analyze various techniques to import and export the data set.
		CO4: To know about the aggregate functions.
		CO5: Implementation of R-Programming in current scenario