

 Criterion : II - Teaching-Learning and Evaluation
 Metric : 2.6.1 - Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) - M.Sc. INFORMATION TECHNOLOGY
 Year : 2015 - 2020



FATIMA COLLEGE (AUTONOMOUS), MADURAI - 625018

NAME OF THE PROGRAMME: M.Sc. INFORMATION TECHNOLOGY

PROGRAMME CODE: PSIT

PROGRAMME OUTCOMES:

Students will be able to

PO1: Apply acquired scientific knowledge to solve major and complex issues in the society/industry.

PO2:Attain research skills to solve complex cultural, societal and environmental issues.

PO3:Employ latest and updated tools and technologies to solve complex issues.

PO4:Demonstrate Professional Ethics that foster Community, Nation and Environment Building Initiatives.

PROGRAMME SPECIFIC OUTCOMES:

- **PSO 1:** Understand the concepts and applications in the field of Computing Sciences like Web designing and development, Mobile application development, and Network and communication technologies.
- **PSO 2:** Apply the learning from the courses and develop applications for real world problems.
- **PSO 3:** Understand the technological developments in the usage of modern design and development tools to





analyze and design for a variety of applications

- **PSO 4:** Communicate in both oral and written forms, demonstrating the practice of professional ethics and the concerns for social welfare.
- **PSO 5:** Demonstrate understanding of the principles and working of the hardware and software aspects of computer systems
- **PSO 6:** Ability to understand the structure and development methodologies of software systems. Possess professional skills and knowledge of software design process. Familiarity and practical competence with a broad range of programming language and open source platforms.
- **PSO 7:** Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems.

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2019 - 2020

COURSE CODE	Course Title	COURSE OUTCOMES
19PG1IT1	Data Structures And Algorithm Analysis	 CO1 :To learn about Linear Data Structures CO2: Develop knowledge on different design techniques CO3: learn about the non-linear data structures – Trees CO4:To Implement appropriate operations for Graphs and sorting CO5: Implement appropriate operations like sorting and searching techniques.
19PG1IT2	Object Oriented Software Engineering	 CO1: Differentiate traditional and object oriented software engineering CO2: Explain various SDLC methods of OOSE CO3: Describe techniques used in OOSE CO4: Explain OOSE testing methods CO5: Analyze and choose necessary method for a particular project

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MADURAL	Year	: 2015 - 2020	

19PG1IT3	Data Storage And	CO1: To understand and apply Outline the features of DBMS and
	Management	Relational Database design
		CO2: To Design conceptual models of a database using ER model
		CO3: To implement normalization techniques in database design
		CO4: To Retrieve information from database by formulating
		complex SQL Queries.
		CO5: To Utilize PL/SQL programming to solve problems
19PG1IT4	Distributed Operating	CO1: Discuss the core concepts of distributed systems.
	System	CO2: Analyze various message passing mechanisms with its model.
	Res 1	CO3: Identify the inherent difficulties that arise due to distribution of computing resources.
	The second second	CO4: Explain migration with the process management policies.
		CO5: Explain the basic concepts, design and structure of the LINUX operating system.
19PG1IT5	Lab I : C++ And Data	CO1: Develop solutions for a range of problems using objects and
	Structure	classes.

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Criterion Metric Year		 II - Teaching-Learning and Eval 2.6.1 - Programme Outcomes (P Course Outcomes (COs) - M.Sc. 2015 - 2020 	luation POs), Programme Specific Outcomes (PSOs) and INFORMATION TECHNOLOGY
			 CO2: implementation of constructors, destructors and operator overloading. CO3: Apply fundamental algorithmic problems including type casting, inheritance, and polymorphism CO4: Understand generic Data structures programming like Stack, Queue and Linked List. CO5: Implement the concept of Sorting and Searching techniques
19PG1	IT6	LAB II : RDBMS	CO1: Implement Basic DDL, DML and DCL commands. CO2: Develop sub queries and understand their purpose. CO3: Use Aggregate and group functions to summarize data.

CO4. Understand	the PL/S	OL architectu	ire and write I	PL/SOL code

een enderst			are and write	12/022
for proce	edures, trigger	s, cursors, e	xception han	dling etc

CO5:Implement the complex queries

Business Information	CO1:understand business organization and role of information
System	technology
	CO2: To learn about the technology infrastructure
	Business Information System

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RAL	Year	: 2015 - 2020	
			CO3:Explain various Intra and Inter organizational system
			CO4:To learn about Intelligent system for business.
			CO5: To learn about the Planning, Implementing and Managing
			strategies of information system
19PG:	2IT7	Java & J2EE	CO1: To understand the structure and model of the Java
			programming language.
			CO2: To explain the concepts of Packages, Interfaces and strings.
			CO3: To develop software implementing Exception handling
			mechanisms
		E a	CO4: To design software for database connectivity and able to
		<u>ب</u>	design GUI applications
		S I I	CO5: To implement server side programming using SERVLETS
19PG	2IT8	Network Security	CO1: To understand the Attacks, Services and Mechanisms.
			CO2: To explain the concepts cryptography
			CO3: To understand the concepts of Email and IP security
			CO4: To know about the web security issues and various protocols



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		CO5: To understand the concepts of virus and firewall .
19PG2IT9	Mobile Application Development Using Android Studio	 CO1: Design scripts to meet given interface and media control requirements CO2: Utilize variables, properties and other code elements appropriately to implement the code design 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 CO5: Evaluate alternative mobile frameworks, and contrast different programming platforms
19PG2IT10A	Cloud Computing	 CO1: To understand the fundamental principles of cloud computing and its model CO2: To apply concepts of IAAS, SASS, PAAS CO3: To develop business models that underlie Cloud Computing. CO4: To describe the importance of virtualization in distributed



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		computing CO5: To analyse the importance of cloud security
19PG2IT10B	Multimedia Systems	 CO1: To identify and use the elements and principles of design in multimedia. CO2: To understand terminology associated with the concepts, techniques, and processes used throughout the multimedia environment. CO3: To Demonstrate an advanced knowledge of photo editing including: image manipulation, color correction, compositing, toning, and preparing for distribution. CO4: To explain the concepts of importing, exporting, effects, transitions, color correcting, and flow. CO5: To describe Image compression Standards
19PG2IT10C	Management Information System	 CO1: To define an information system from both a technical and business perspective and distinguish between computer literacy and information systems literacy. CO2: To assess the relationship between the electronic commerce,



CO5: To evaluate the benefits and limitations of enterprise systems and industrial networks.

Lab III : Java	CO1: To understand the concept of Object Oriented Programming
Programming	& Java Programming Constructs.
	CO2: To practice the concepts of operators, classes, objects,
<u> (</u> 2)	inheritance, packages ,Enumeration and various keywords
Å.	CO3: To apply exception handling mechanisms.
AIN	CO4: To design the applications of Java & Java applet, Swings
	and JDBC
	CO5: To Analyze and implement server side programming using SERVLETS
	Lab III : Java Programming



19PG2IT12	Lab IV: Android Studio	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
19IT2EDC	Animation Software	CO1: Explain the basic concepts in computer graphics.
		CO2: understand the Alice Environment
		CO3: Build a program in Alice.
	<i>逸</i>	CO4: Apply event handlers
	A A	CO5: Develop 3D animations

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