NAAC – 4th CYCLE – Self Study Report (SSR)

Criterion	:	I – Curricular Aspects
Metric	:	1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) – M.Sc. (CS & IT)
Year	:	2015 - 2020

FATIMA COLLEGE (AUTONOMOUS), MADURAI – 625018

NAME OF THE PROGRAMME: M. SC (CS & IT)   **PROGRAMME CODE: PSCI**

COURSE OBJECTIVES:

2015 - 2016

COURSE CODE	COURSE TITLE	NATURE OF THE COURSE (LOCAL/NATIONAL/REGIONAL/GLOBAL)	COURSE DESCRIPTION	COURSE OBJECTIVES
MCT318	Client Server Computing	Global	This course covers the evolution, impact and services available with Client/Server technology.	• Describe the concepts of programming for networking, including, multithreading, delegate and event handling. • Analyse different server configurations. • Evaluate various networking concepts. • Apply various development and

				deployment techniques.
				• Analyse various trends in client server computing
MCT319	JAVA & J2EE	Global	This course enable the students to build object oriented java programs using the concept of abstraction, encapsulation, exception handling ,packages, interfaces, threads and AWT controls. It also imparts the ability to develop projects in java with JDBC connectivity.	• Understand the concepts of Object-Oriented Programming & Java Programming Constructs. • Understand basic concepts of Java such as operators, classes, objects, inheritance, packages, Enumeration and various keywords. • Understand the concept of packages, threads, exceptions. • Design Java & Java applet based applications. • Design JDBC related applications.

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| MCT320 | Mobile Computing and Wi-Fi technology | Global | This course gives the ability to acquire the knowledge about the technologies in mobile computing. | • Understand the infrastructure to develop mobile communication systems.
• Identify the characteristics of different multiple access techniques in mobile communication.
• Analyse the measures GSM systems and the entire protocol architecture of GSM.
• Understand the GPRS technologies and architecture for communication using Mobile Devices.
• Illustrate ad-hoc and sensor networks. |
| MCT321A | Web Technology | Global | This course gives knowledge in Web development | • Explain Various HTML & DHTML tags. |

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			Technologies.	• Understand VbScript.
				• Know JSP concepts
				• Demonstrate asp.net concepts.
				• Develop WebPages with database.
MCT321B	Linux Shell Programming	Global	This course introduces the student to the Linux Operating system with particular emphasis on command line tools, utilities and shell scripting.	• Know the concept of Shell programming. • Implement various concepts with files. • Understand Linux Environment. • Recognize the concept of terminal and implement threads concept. • Use Text based screens
MCT321C	Organisational Behaviour	Global	This Course help the students to develop cognizance of the importance of human behaviour.	• Demonstrate the applicability of the concept of organizational behaviour to understand the behaviour of people in the organization.

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				• Demonstrate the applicability of analysing the complexities associated with management of individual behaviour in the organization. • Analyse the complexities associated with management of the group behaviour in the organization. • Demonstrate how the organizational behaviour can integrate in understanding the motivation behind behaviour of people in the organization. • Analyse various conflict management techniques.
MCT322B	Image Processing	Global	This course facilitates the students to understand the	• Illustrate the fundamental concepts of digital image processing system. • Categorize various applications of

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			basic concepts in Image Processing and able to apply image processing techniques for an image.	digital image processing in various fields. • Discuss the various mathematical tools used in digital image processing. • Interpret basic compression methods. • Analyse different image segmentation techniques.
MCT322C	Cryptography and Information Security	Global	The course covers the basics of the science of encryption and information security technology. It also provides the knowledge about the various risks that networks are	• Understands the basic concepts of security • Analyse various cryptographic algorithms while applying practically. • Identify email and IP security. • Compare different web security techniques. • Summarize the concepts of firewall

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			faced with in this day and age, focussing on the various vulnerabilities of systems.	and viruses.
MCT322A	Enterprise Resource Planning	Global	This Course provides a contemporary and forward-looking on the theory and practice of Enterprise Resource Planning Technology to focus on a strong emphasis upon practice of theory in Applications and	• Demonstrate a good understanding of basic issues in Enterprise Systems • Explain the scope of common Enterprise Systems • Analyse the challenges associated with implementing enterprise systems and their impacts on organisations • Describe the selection, acquisition and implementation of enterprise systems Communicate and assess an organisation's readiness for

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			Practical oriented approach.	enterprise system implementation with a professional approach in written form. • Demonstrate an ability to work independently and in a group.
MCT323	Object Oriented Analysis and Design	Global	This course aims at facilitating the student to learn the object orientation on real world problems; analyse and design the problem domain using the principles and practices followed in object oriented problem solving by applying object technology	• Understand the complexity of Industrial Strength Software and the application of Unified Process Model. • Identify classes and objects using Object Oriented Analysis techniques • Develop new classes from the problem domain by applying object oriented design principles • Incorporate design patterns to create classes with reusability and extensibility. • Design different design documents

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			with UML modelling.	to show logical view using UML for any given application
MCT324	Lab V Advanced JAVA Programming	Global	This course gives hands on experience, practices the concepts of java programming language, and develops solutions for real world problems.	• Implement Object Oriented programming concept using operators and control Structures.. • Design java programs using inheritance, interfaces and packages. • Implement exception handling mechanism and multithreading concept. • Design Java applet based applications. • Design applications to Handle Events using AWT components.
MCT325	Lab VI Web Designing	Global	This course gives hands on experience in Web	• Explain Various HTML tags. • Design WebPages with DHTML. • Design Web pages using VB script.

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			development Technologies.	• Develop client side Scripting using VB script. • Develop WebPages with ASP.NET
MCT 428	Special Course II- PHP & MYSQL	Global	This course content plays a vital role in building the programming skill in PHP for designing innovative web pages.	• Understand basic PHP syntax. • Apply MySQL commands. • Analyse various error handling and debugging techniques. • Design PHP programming with MySQL database. • Develop WebPages with PHP.