

FATIMA COLLEGE (AUTONOMOUS), MADURAI - 625018

NAME OF THE PROGRAMME: M. SC COMPUTER SCIENCE

PROGRAMME CODE: PSCS

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:

- **PSO1:** To develop professionally competent citizens by applying the scientific knowledge of Computer Science with the ability to think clearly, rationally and creatively to support in evolving solutions to the social/public/scientific issues with responsible democratic participation.
- **PSO2:** Enterprising resourcefulness to identify, plan, formulate, design and evaluate solutions for complex computing problems that address the specific needs with appropriate consideration for Societal, Cultural, Environmental and Industrial domains.

A COLLA	Criterion	: I – Curricular Aspects
Print Print	Metric	: 1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and
		Course Outcomes (COs) – M.Sc. COMPUTER SCIENCE
ADURAL	Year	: 2015 - 2020



- **PSO3:** Holistic development to ignite the lateral thinking ability in problem solving, acquisition of new skills, open-minded and organized way of facing problems with self awareness and evolving analytical solutions
- **PSO4:** Create and initiate innovations effectively and communicate efficiently with the computing community and society at large to bridge the gap between computing industry and academia
- **PSO5:** Through Digital Literacy, understand, assess and commit to professional and ethical principles, norms and responsibilities of the cyber world and the ability for work efficacy as a part of a team and engage effectively with diverse stakeholders
- **PSO6:** Ability and willingness to embark on new ventures and initiatives with critical thinking and desire for more continuous learning focusing on life skills.
- **PSO 7:** Use research-based knowledge and research methods to design, analyse, and interpret data and to synthesize information to provide valid findings to serve community.

TIMA COLLA	Criterion	: I – Curricular Aspects
	Metric	: 1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and
		Course Outcomes (COs) – M.Sc. COMPUTER SCIENCE
MADURAL	Year	: 2015 - 2020

2019 -2020

Course Code	Course Title	NATURE OF THE COURSE (LOCAL/ NATIONAL/ REGIONAL/GLOBAL)	COURSE DESCRIPTION	Course Outcomes
19PG1B1	Advanced Programming In Java	National	To understand the Networking concept using TCP/IP and RMI. To design and develop java program using Swings Components.	programming and distributed applications using RMI.

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ADURAL COLLEGE	Metric : 1.1.1 -	e Outcomes (COs) - M.Sc	POs), Programme Specific Outo . COMPUTER SCIENCE	
		MA	COL	connection and server side programs with Servlets. CO5: Write component-based Java programs using JavaBeans.
19PG1B2	Distributed Operating Systems	National	To understand the concept of design and implementation in the context of distributed operating systems.	 CO1: Discuss the core concepts of distributed systems. CO2: Analyze various message passing mechanisms with its model. CO3: Identify the inherent difficulties that arise due to distribution of computing resources. CO4: Explain migration with the process management policies. CO5: Explain the basic concepts, design and structure of the LINUX operating system.

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TIMA COLLA	Criterion : I - Cu	rricular Aspects		
	Metric : 1.1.1 -	Programme Outcomes (I	POs), Programme Specific Outo	comes (PSOs) and
	Cours	e Outcomes (COs) – M.Se	:. COMPUTER SCIENCE	
MADURAL	Year : 2015 -	2020		
19PG1B3	Object Oriented Software Engineering	National	To understand a systematic discipline, quantifiable approach to the design development operation and maintenance of software using object oriented concept. To understand and apply different Object Oriented development models	 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
19PG1B4	Theory Of Computation	National	To introduce the concept of automata theory, the theory of formal languages and grammars to understand the	 CO1: Demonstrate an in-depth understanding of theories, concepts and techniques in automata and their link to computation. CO2: Develop abstract machines that

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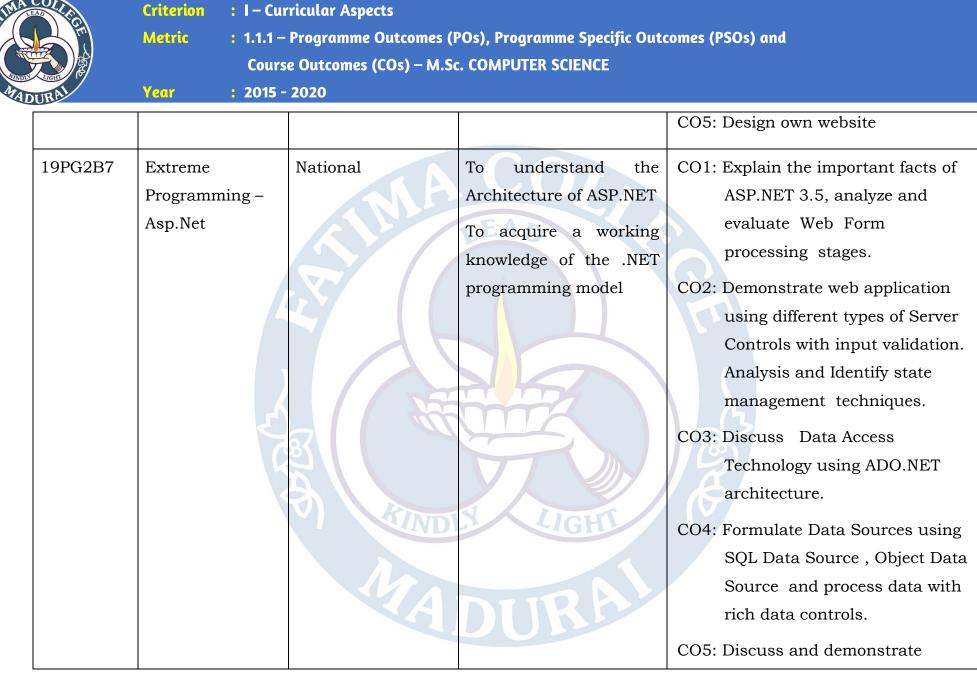
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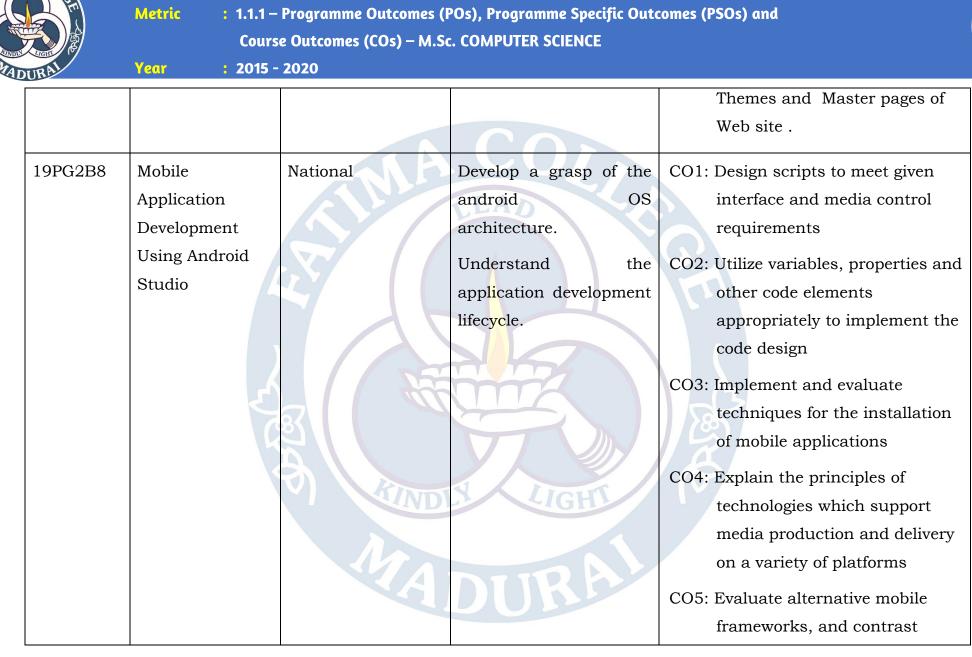
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STIMA C	OLLE	Criterion : I - C	urricular Aspects				
		Metric : 1.1.1	– Programme Outcomes (I	POs), Programme S _ا	pecific Outc	omes (PSOs) and	-
		Cou	rse Outcomes (COs) – M.Se	. COMPUTER SCIEN	ICE		
MADU	JRAI	Year : 201	5 - 2020				
				properties of	physical	demonstrate the properties of	
				machines		physical machines and be able	
						to specify the possible inputs,	
						processes and outputs of these	
				LEAD		machines.	
						CO3: Analyze the computational	
						strengths and weaknesses of	
						these machines.	
						CO4: Explain Context-Free	
						Grammar.	
						<u>A</u>	
		<	207			CO5: Apply automata concepts and	
			2			techniques in designing	
				YA	2)	systems that address real	
			KIND	LIGI	HT	world problems.	
	19PG1B5	Lab-I- Advanced	National	To implement	Server	CO1: Implementation of java	
		Programming In		Side Program		applications that illustrate	
		Java		Servlets.		professionally acceptable	
						coding and performance	
				To develop java	program	~ ·	l

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COLURAL OF	Metric	 I – Curricular Aspects 1.1.1 – Programme Outcomes Course Outcomes (COs) – M.S 2015 - 2020 	(POs), Programme Specific Outo Sc. COMPUTER SCIENCE	comes (PSOs) and
			using JSP.	standards. CO2: Develop distributed applications using RMI. CO3: Design and develop event- driven programming and graphical user interfaces using Swing-based GUI. CO4: Design and develop Java programs using JDBC connection for data access and also Develop server side programs with Servlets. CO5: Design and develop component-based Java programs using JavaBeans.
19PG1B6	Lab-II- Ope System	erating National	To introduce the students to LINUX kernel programming	CO1: Utilize basic LINUX Utilities. CO2: Write different LINUX shell scripts and execute various

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IMA COLLA	Criterion : I - Curricular Aspects		
	Metric : 1.1.1 – Programme Outcomes (I		comes (PSOs) and
ALLER R	Course Outcomes (COs) - M.So	C. COMPUTER SCIENCE	
19PGBEDC	Vear : 2015 - 2020 Web Development National	To make the students aware of the features and capabilities of Linux so that they can utilize its improved functionalities To enhance the knowledge of the students in effective webpage designing. To provide skills to	 shell programs. CO3: Apply LINUX system calls. CO4: Compute various file permissions and have a basic understanding of system security. CO5: Demonstrate the basic knowledge of Linux commands and file handling utilities by using Linux shell environment. CO1: Define various tags of HTML CO2: Design a web page with attractive display CO3: Create a Layout for a webpage using Block tags
		sharply focus on needed information to be presented in a website.	CO4: Explain how and where to apply CSS





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ANDURAL PR	Metric : 1.1.1 -	e Outcomes (COs) – M.Sc	POs), Programme Specific Outo COMPUTER SCIENCE	comes (PSOs) and
			C	different programming platforms
19PG2B9	Design And Analysis Of Algorithms	National	Develop your ability to articulate processes for solving problems and to implement those processes efficiently within software.	 CO1: Analyze the time and space complexity of given Algorithms. CO2: Demonstrate operations like searching, insertion, and deletion on various data structures. CO3: Identify appropriate sorting/searching technique for given problem. CO4: Apply the dynamic programming technique to solve the problems. CO5: Discuss advanced tree and graph applications.
19PG2B10	Lab-III - Extreme	National	To design and develop	CO1: Design and develop web

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				NAAC – 4 th CYCLE – Self Study Report
A COLOR A C	Metric : 1.1.1 -	se Outcomes (COs) – M.So	POs), Programme Specific Outo COMPUTER SCIENCE	comes (PSOs) and
	Programming -		dynamic Control and	applications using different
	Asp.Net		validate the inputs by validation controls To design and develop different State Management Techniques	 Server Controls. CO2: Implement web applications with different state managements. CO3: Create Data Access Technology using ADO.NET architecture. CO4: Design and utilize Data Sources using SQL Data Source , Object Data Source for data manipulation operation. CO5: Design and develop web sites.
19PG2B11	Lab-IV – Mobile Application Development Using Android Studio	National	Identify ,analyze and choose tools for android development including device emulator, profiling tools and IDE	CO1: Develop enterprise-level mobile solutions.CO2: Install and configure Android application development tools.

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	9PG2BE1	Year : 2015 - Computational Intelligence	2020 National	Throws light on all categories of Evolutionary Computing To motivate to pursue research	 CO3: Demonstrate Save State information across important operating system events. CO4: Develop advanced application programs using Android CO5: Design and develop mobile applications. CO1: Demonstrate the fundamental concepts of soft computing and its applications. CO2: Explain the concepts of fuzzy sets, knowledge representation using fuzzy rules, and other machine intelligence applications of fuzzy logic. CO3: Discuss the basics of an evolutionary computing CO4: Explain genetic algorithms for
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COLLER	Metric : 1.1.1 -	e Outcomes (COs) – M.So	POs), Programme Specific Outo c. COMPUTER SCIENCE	NAAC — 4 th CYCLE — Self Study Repor
19PG2BE2	Neural Networks	National	To understand the fundamentals of Neural Networks To apply various models and learning algorithms for the real world scenario	 practical problems. CO5: Discuss the performance of granular computing in solving specific problems. CO1: Explain the basic concepts of Neural Networks. CO2: Describe the various Neural Network models. CO3: Explain Learning Rules of Neural Network CO4: Distinguish Feedback and Feed forward networks CO5: Compare Special networks and discuss the applications of Neural Network.
19PG2BE3	Software Testing	National	To give strong foundation in software	CO1: Discuss various software application domains and

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				NAAC – 4 th CYCLE – Self Study Report
AT UNA COLLAR	Metric : 1.1.1 -	e Outcomes (COs) - M.Sc	POs), Programme Specific Outo c. COMPUTER SCIENCE	comes (PSOs) and
			qualityassurancebyteachingstandards,modelsandmeasurementandtechniques.ToToenhancetheknowledgeofthestudentstoprovideinnovativesolutionstovariousqualityassurancesrelatedproblems.	 different process model used in software development. CO2: Demonstrate the basics of software quality assurance and defect prevention. CO3: Compare different testing strategies and tactics. CO4: Describe the software testing techniques in different environments. CO5: Explain high performance testing using Jmeter.
19PG2BE4	Embedded Systems	National	To create interest in low level system programming To help students venture in to embedded	 CO1: Explain the concepts of embedded systems CO2: Analyze the architecture of embedded systems CO3: Describe about the processors

	Cour Year : 2015	se Outcomes (COs) – M.S - 2020	Sc. COMPUTER SCIENCE	
		MA	designing concepts	and memory organization CO4: Distinguish when and where to apply embedded concepts CO5: Describe different embedded system design technologies
19PGBED C	Web Development	National	To enhance the knowledge of the students in effective webpage designing. To provide skills to sharply focus on needed information to be presented in a website.	 CO1: Define various tags of HTML CO2: Analyze information to provide attractive display CO3: Create clear webpage for given data CO4: Explain how and where to apply CSS CO5: Design own website

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Adural and a second	Metric : 1.1.1 -	se Outcomes (COs) – M.Sc	POs), Programme Specific Outo COMPUTER SCIENCE	comes (PSOs) and
Course Code	Course Title	NATURE OF THE COURSE (LOCAL/NATIONAL/ REGIONAL/ GLOBAL)	COURSE DESCRIPTION	COURSE OBJECTIVES
PG3B12	Digital Image Processing	National	Design and implement algorithms for advanced image analysis Assess the performance of image processing algorithms and systems.	

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Metric : 1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) – M.Sc. COMPUTER SCIENCE



Year



PG3B13	Data Mining And	National	To interpret the	•	Explain the fundamental concept
	Data		contribution of data		of Data Mining and analyze and
	Warehousing	R A	mining and data		evaluate the data cleaning,
			warehousing to the		integration , transformation and
			decision support level		reduction techniques.
			of organizations	6	Design multidimensional data
			To understand different		using Data Warehouse
			models used for OLAP		architecture.
			and data pre-processing	•	Design and evaluate
	L.				Classification algorithms.
		2		•	Identify the types of data in
	R				Cluster Analysis and categorize
					the Cluster Methods.
		AIND	LIGHT	•	Utilize the Data Mining
					techniques in various real
		A N	NTIR A		applications and in major issues
PG3B14	Lab-V- Digital	National	design and implement	•	Demonstrate Fundamental Steps

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	Image Processing	algorithms that perform	involved in Digital Image	
		basic image processing	 Processing Analyze and use Mathematical Tools for Digital Image Processing. Apply Intensity Transformation functions and Spatial filtering methods Utilize Color Image Processing with different Color Models Implement Image Segmentation Techniques and Image 	

- Compression Techniques using Huffman , Golomb and Arithmetic coding algorithms
- Utilize Weka tool to evaluate Data • Mining algorithms.

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PG3B15

Lab V1- Data

Mining And Data

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A COLUER	Metric : 1.1.1 -	e Outcomes (COs) – M.Sc	POs), Programme Specific Outo COMPUTER SCIENCE	comes (PSOs) and
	Warehousing		data Design and deploy appropriate classification techniques	 Demonstrate preprocessing steps involved in different datasets. Analyze Data Mining techniques for realistic data. Develop the decision tree algorithm using different datasets. Demonstrate the classification and clusters algorithms using large datasets
PG3B16	Summer Internship/ Training/ Online Certification	National	Acquire knowledge of the industry in which the internship is done. Identify areas for future knowledge and skill development.	 Identify employment contacts leading directly to a full-time job following course completion Create communication, interpersonal and other soft skills essential for the job interview process.

URAL	Criterion : I – Curricular Aspects Metric : 1.1.1 – Programme Outcomes (P Course Outcomes (COs) – M.Sc Year : 2015 - 2020	Os), Programme Specific Outcomes (PSOs) and . COMPUTER SCIENCE
		 Analyze the project requirements and engages in continuing professional development. Analyze a problem and identify the computing requirements appropriate to its solution. Utilizing a new software tool.
PG3BE5	Mobile Computing	 To introduce the concept of mobile computing and provide a foundation for research. Evaluate the architecture and principles of operation of computer systems and networks. Synthesize principles and theories of computer science and software engineering for application to different computing

		NAAC – 4 th CYCLE – Self Study Repo
A COTINE	Criterion: I - Curricular AspectsMetric: 1.1.1 - Programme Outcomes (POs), Programme Specific Outcomes (COs) - M.Sc. COMPUTER SCIENCE	comes (PSOs) and
ADURA P	Year : 2015 - 2020	
		 paradigms. Design and develop software systems for various application domains. Manage the development of software systems through a variety of development processes and methodologies.
PG3BE6	Cryptography National Understand the most common type of cryptographic algorithm Security Image: Common type of cryptographic algorithm	 Explain the various symmetric encryption techniques and demonstrate the functionalities of DES algorithm. Analyze public key algorithms. Evaluate the authentication concept and hash algorithms. Apply the concepts of key management techniques.

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ATAL	COAL REAL	Metric : 1.1.1	se Outcomes (COs) – M.S	POs), Programme Specific Out c. COMPUTER SCIENCE	comes (PSOs) and
			S A	CON	• Analyze the vulnerabilities in data communication through networks.
	PG3BE7	Distributed Database	National	Aware of the main techniques for managing a distributed database management	 Compare normal and distributed DBMS and to explain various approaches of DDBMS. Formulate various kinds of

• Formulate various kinds of retrieving statements to retrieve information from DDB.

- Explain multiple processes dealing with distributed database system without clash
- Describe the set of protocols used in DDBMS to make effective communication.
- Discuss object concepts and object models.

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AT THAN COLLEGE		comes (POs), Programme Specific Outcomes (PSOs) and s) – M.Sc. COMPUTER SCIENCE
PG3BE8	Compiler Design National	 Introduce the theory and tools that can be employed in order to perform syntax-directed translation of a high- level programming language into an executable code. Describe the phases of Compiler. Explain the role and type of Parser Analyze and use Intermediate languages Describe the design of code generation with register utilization. Demonstrate code optimization techniques.
PG3BE9	Cloud National Computing	 Main focus is on parallel programming techniques for cloud computing and large scale distributed systems which form the cloud infrastructure. Identify and use different cloud computing services. Explain the basic principles of cloud virtualization. Prepare the appropriate cloud computing solutions to meet the requirement of specific

Prepare the appropriate cloud • computing solutions to meet the requirement of specific

		NAAC – 4 th CYCLE – Self Study Repo
Cri Me	Course Outcomes (COs) – M.Sc. COMPUTER SCIENCE	comes (PSOs) and
PG3BE10 Ac G1	ranced nputer aphics & mation National The goal of the course is to provide a strong foundation for computer graphics principles, and provide a hands-on introduction to recent advanced topics.	 applications. Design application by utilizing cloud platforms such as Google app Engine and Amazon Web Services. Analyze different cloud programming models. Explain the basic concepts in computer graphics. Analyze various algorithms and to convert the basic geometrical primitives. Demonstrate the importance of viewing and clipping. Discuss the fundamentals of animation Describe Interpolation-Based

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for modeling

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Choose appropriate model

according to application

COLLEG THE THE THE THE THE THE THE THE THE THE	Criterion Metric Year	 I - Curricular Aspects 1.1.1 - Programme Outcomes (Course Outcomes (COs) - M.S 2015 - 2020 		NAAC – 4 th CYCLE – Self Study Repor
				Animation
PG3BE11	Big Data Analytics	National	Understand the main Big Data tools and the use of predictive analytics on big data.	challenges of Big Data
PG3BE12	Deep Lear	rning National	Deeplearningalgorithmsextractlayeredhigh-level	 Explain Deep learning Analyze different methods used for modeling

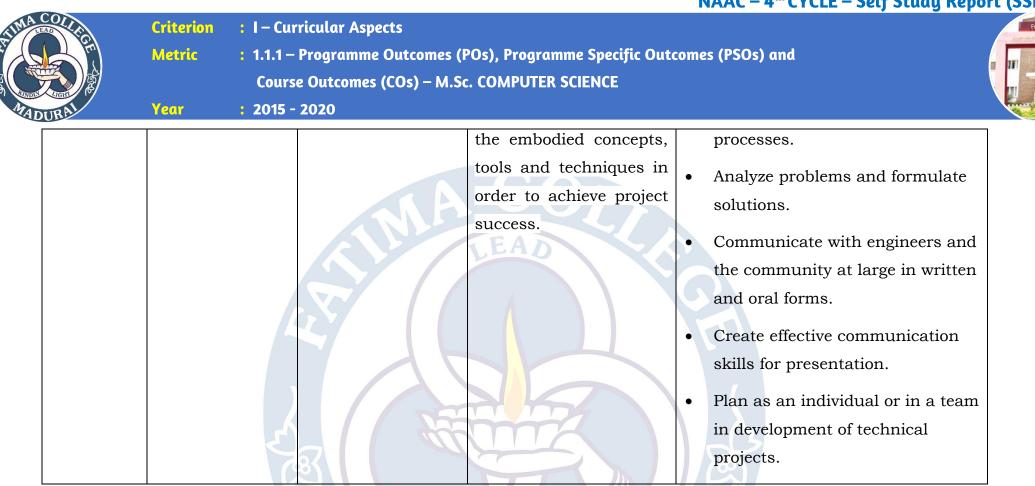
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a way that maximizes performance on a given

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			MA	task.	 Compare various learning methods Explain Applications in Object Recognition and Computer Vision
PO	G4B17	Principles Of Internet Of Things	National	To understand t fundamentals Internet of Things. To apply the concept fundamentals Internet of Things in t real world scenario	of technologies.
PO	G4B18	Project	National	Implement proje management knowledg processes, lifecycle ar	lge, the associated business



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TIMA COLLE	Criterion	: I – Curricular Aspects		
	Metric	: 1.1.1 - Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and		
		Course Outcomes (COs) – M.Sc. COMPUTER SCIENCE		
MADURAL	Year	: 2015 - 2020		

2018 -2019

Course Code	Course Title	NATURE OF THE COURSE (LOCAL/ NATIONAL/ REGIONAL/GLOBAL)	COURSE DESCRIPTION	COURSE OBJECTIVES
PG1B1	Advanced	National	To understand the	• To understand the Java
	Programming In		Networking concept	environment and OOP
	Java		using TCP/IP and RMI.	• To learn Java application
			To design and develop	development using Swings and
			java program using	JSP
	L. L		Swings Components.	• To explore advanced Java
		8		concepts and to develop user
				friendly GUI based web
		3		Applications
PG1B2	Distributed	National	To understand the	• To provide foundation on
	Operating		concept of design and	Operating Systems Concepts
	Systems		implementation in the context of distributed	• To stress the importance of client server architecture and how

Criterion : I – Curricular Aspects Metric : 1.1.1 – Programme Outcom

: 1.1.1 - Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and

Course Outcomes (COs) – M.Sc. COMPUTER SCIENCE

: 2015 - 2020

Year



			operating systems.		sharing of resources is done using OS
PG1B3	Object Oriented Software Engineering	National	To understand a systematic discipline, quantifiable approach to the design development operation and maintenance of software using object oriented concept. To understand and apply different Object Oriented development models	•	The trend being object oriented programming, the focus shifts to object oriented software engineering. To understand the nuances of object oriented software engineering. To reduce the academic-industry gap.
PG1B4	Theory Of Computation	National	To introduce the concept of automata theory, the theory of formal languages and		To introduce the mathematical foundation of computation including automata theory, the theory of formal languages and

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URAL	Metric : 1.1.1 -	e Outcomes (COs) - M.Se	POs), Programme Specific Outo c. COMPUTER SCIENCE	comes (PSOs) and
		MA	grammarstounderstandthepropertiesofphysicalmachines	 grammars. To develop ability to understand and conduct mathematical proofs for computation and algorithms.
PG1B5	Lab-I- Advanced Programming In Java	National	To implement Server Side Program with Servlets. To develop java program using JSP.	 To understand the Java environment To learn Java application development using Swings and Middleware technology To explore advanced Java concepts To write web based programs using JSP
PG1B6	Lab-II- Operating System	National	To introduce the students to LINUX kernel programming To make the students	 To familiarize students with the concepts, design and structure of the LINUX operating system. Understand different LINUX shell

				NAAC – 4 th CYCLE – Self Study Repo
	Metric : 1.1.1 - Cour	se Outcomes (COs) – M.S	POs), Programme Specific Outc c. COMPUTER SCIENCE	comes (PSOs) and
DURAL	Year : 2015		aware of the features and capabilities of Linux so that they can utilize its improved functionalities	 scripts and execute various shell programs. Use the Linux command line interface for basic user, file and system maintenance operations. To manipulate file permissions and have a basic understanding of system security.
PGBEDC1	Web Development	National	To enhance the knowledge of the students in effective webpage designing. To provide skills to sharply focus on needed information to be presented in a website.	 To offer a job oriented course To help them design animated applications in Flash To teach the techniques in Photoshop for editing photos, designing cover for books and magazines
PG2B7	Extreme	National	To understand the	• To introduce and form a

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

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		Programming –		Architecture of ASP.NET	foundation on .Net platform
		Asp.Net		To acquire a working	• To reduce the industry academic
				knowledge of the .NET	gap meeting the industrial
				programming model	demands
]	PG2B8	Mobile	National	Develop a grasp of the	• Develop high-level plans using
		Application		android OS	script solutions for mobile and
		Development		architecture.	evaluate the post-production
		Using Android		Understand the	outcome
		Studio		application development	• Design scripts to meet given
				lifecycle.	interface and media control
			8		requirements
					• Devise, carry out and evaluate
					functional test strategies of
			AND AND	UGHI	mobile design
					• Implement and evaluate
					techniques for the installation of
			No.	DUB	mobile applications and delivery

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	Metric : 1.1.1 -	se Outcomes (COs) – M.	(POs), Programme Specific Outc Sc. COMPUTER SCIENCE	omes (PSOs) and
		MA		 via various channels Model and manage mobile application development using a range of methods
PG2B9	Design And Analysis Of Algorithms	National	Develop your ability to articulate processes for solving problems and to implement those processes efficiently within software.	 To stress the importance of the efficiency in writing programs To write algorithms efficient in terms of design and time complexity
PG2B10	Lab-III - Extreme Programming - Asp.Net	National	To design and develop dynamic Control and validate the inputs by validation controls To design and develop different State Management Techniques	 To develop the skill of programming in .Net platform To develop platform independent web based applications

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		NAAC – 4 th CYCLE – Self Study Report
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PG2B11	Lab-IV- Mobile Application Development Using Android Studio	 Identify ,analyze and choose tools for android development including device emulator, profiling tools and IDE Install and configure Android application development tools. Design and develop user Interfaces for the Android platform. Save state information across important operating system events. Apply programming concepts to Android application development. Designing and develop mobile applications using a chosen application development

TIMA COLLE	Criterion	: I – Curricular Aspects
	Metric	: 1.1.1 - Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and
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MADURAL	Year	: 2015 - 2020



				framework
PG2BE1	Computational Intelligence	National	Able to assess the nature of a problem at hand and determine whether a machine learning technique /algorithm can solve it efficiently enough.	 Throws light on all categories of Evolutionary Computing To motivate to pursue research
PG2BE2	Neural Networks	National	To understand the fundamentals of Neural Networks To apply various models and learning algorithms for the real world scenario	 To introduce and provide a foundation on neural networks To create interest in research
PG2BE3	Software Quality Assurance &	National	To give strong foundation in software quality assurance by	• To teach the concepts of software quality assurance and testing

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A COLUER	Metric : 1.1 Co	Curricular Aspects .1 – Programme Outcomes (F ourse Outcomes (COs) – M.Sc 15 - 2020	POs), Programme Specific Outc . COMPUTER SCIENCE	nomes (PSOs) and
	Testing		teaching standards, models and measurement techniques. To enhance the knowledge of the students to provide innovative solutions to various quality assurances related problems.	To make the students industry ready by giving the knowledge to ensure the quality of the software
PG2BE4	Embedded Systems	National	To Improve capabilities of using the technical knowledge of processor architecture, peripherals, programming, and CAD tools to design specific embedded computer	 To create interest in low level system programming To help students venture in to embedded designing concepts

Criterion : I – Curricular Aspects

Metric : 1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and



: 2015 - 2020

Year

			systems.	
PGBEDC2	Web Development	National	To enhance the knowledge of the students in effective webpage designing. To provide skills to sharply focus on needed information to be presented in a website.	 To offer a job oriented course To help them design animated applications in Flash To teach the techniques in Photoshop for editing photos, designing cover for books and magazines
PG3B10	Digital Image Processing	National	Design and implement algorithms for advanced image analysis Assess the performance of image processing algorithms and systems.	 To inculcate ideas and create interest in processing images techniques. To provide a research orientation inducing them to pursue research.
PG3B11	Data Mining And Data	National	To interpret the contribution of data	• To explore the concepts and techniques of knowledge

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ATTIMA COLLEGE	Criterion : I - Curricular Aspects Metric : 1.1.1 - Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) - M.Sc. COMPUTER SCIENCE				
ADURAL	Year : 2015 -	2020			
	Warehousing		mining and data warehousing to the decision support level of organizations To understand different models used for OLAP and data pre-processing	 discovery and data mining in a multi disciplinary perspective. To present an organized framework of data mining techniques, applications and research directions. To understand and implement classification and Clustering algorithms in Data Mining To assess the strength and weakness of various algorithms and to analyze their behaviour. 	
PG3B12	Cryptography And Network Security	National	Understand the most common type of cryptographic algorithm	 To know the methods of conventional encryption. To understand the concepts of public key encryption To understand authentication 	

	Metric : 1.1.1 -	ricular Aspects Programme Outcomes (e Outcomes (COs) – M.S	POs), Programme Specific Outco c. COMPUTER SCIENCE	omes (PSOs) and
IRAL (S	Year : 2015 -			
		TINA	COLLEAD	 and Hash functions. To know the network security tools and applications. To understand the system level security used.
PG3B13	Lab-III - Digital Image Processing	National	Design and implement algorithms that perform basic image processing	 To become proficient at image processing techniques. Concepts to be implemented using programming language only. No readymade tools to be used.
PG3BE5	Mobile Computing	National	To introduce the concept of mobile computing and provide a foundation for research.	• To introduce the concept of mobile computing and provide a foundation for research.
PG3BE6	Cloud	National	Main focus is on parallel	• To learn distributed

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				NAAC – 4 th CYCLE – Self Study Repor
	Metric :	I – Curricular Aspects 1.1.1 – Programme Outcomes (Course Outcomes (COs) – M.S 2015 - 2020		comes (PSOs) and
DORIZ	Computing	1	programming techniques for cloud computing and large scale distributed systems which form the cloud infrastructure.	 communication To understand distributed resource management To study the basics of cloud computing To study about virtualization and cloud resource management
PG3BE7	Advanced Computer Graphics & Animation	National	The goal of the course is to provide a strong foundation for computer graphics principles, and provide a hands-on introduction to recent advanced topics.	• To understand the fundamentals

URAL	Criterion : I - Curricular Aspects Metric : 1.1.1 - Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) - M.Sc. COMPUTER SCIENCE Year : 2015 - 2020			
		n n A	COT	animation methods andTo become proficient at graphic programming using OpenGL
PG3BE8	Distributed Database	National	Aware of the main techniques for managing a distributed database management system and be able to design a simple distributed database system	techniques for distribute database implementation, suc as data storage, indexing, quer evaluation, query optimization
PG3B14	Internship	National	Acquire knowledge of the industry in which the internship is done.	

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			NAAC – 4 th CYCLE – Self Study Repor
ATTIMA COLLEGE	Metric : 1.1.1 Cour	-	comes (POs), Programme Specific Outcomes (PSOs) and) – M.Sc. COMPUTER SCIENCE
			Identify areas for future knowledge and skill development.
PG4B15	Principles Of Internet Of Things	National	 To understand the application areas of IOT To realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks To understand the fundamentals of Internet of Things. To apply the concept of Internet of Things in the real world scenario.
PG4B16	Project	National	Implementprojectmanagement knowledge,processes, lifecycle andthe embodied concepts,tools and techniques inorder to achieve projectsuccess.

TIMA COLLE	Criterion	: I – Curricular Aspects	
	Metric	: 1.1.1 — Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and	
		Course Outcomes (COs) - M.Sc. COMPUTER SCIENCE	
MADURAL	Year	: 2015 - 2020	

2017 -2018

Course Code	Course Title	NATURE OF THE COURSE (LOCAL/ NATIONAL/ REGIONAL/GLOBAL)	COURSE DESCRIPTION	COURSE OBJECTIVES		
PG1B1	Advanced	National	To understand the	• To understand the Java		
	Programming In		Networking concept	environment and OOP		
	Java		using TCP/IP and RMI.	• To learn Java application		
			To <mark>de</mark> sign and develop	development using Swings and		
			java program using	JSP		
		अ	Swings Components.	• To explore advanced Java		
				concepts and to develop user		
				friendly GUI based web		
		A ND	LIGHT	Applications		
PG1B2	Design And	National	Develop your ability to	• To stress the importance of the		
	Analysis Of		articulate processes for	efficiency in writing programs		
	Algorithms		solving problems and to implement those	• To write algorithms efficient in		
			implement those			

including automata theory, the

theory of formal languages and

Criterion : I – Curricular Aspects

: 1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Metric

PG1B3

PG1B4

	Course Outcomes (COs) – M.Sc. COMPUTER SCIENCE								
Cours Year : 2015 -		C. COMPUTER SCIENCE							
		processes efficiently within software.	terms of design and time complexity						
Object Oriented Software Engineering	National	To understand a systematic discipline, quantifiable approach to the design development operation and maintenance of software using object oriented concept. To understand and apply different Object Oriented development models	 The trend being object oriented programming, the focus shifts to object oriented software engineering. To understand the nuances of object oriented software engineering. To reduce the academic-industry gap. 						
Theory Of Computation	National	To introduce the concept of automata	• To introduce the mathematical foundation of computation						



theory, the theory of

formal languages and

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URAL R	Metric : 1.1.1 -	e Outcomes (COs) – M.S	POs), Programme Specific Outo c. COMPUTER SCIENCE	comes (PSOs) and
PG1B5	Lab-I- Programming In Java	National	grammarstounderstandthepropertiesofphysicalmachinesToimplementServerSideProgramwithServlets.Todevelopjavaprogramusing JSP.	 grammars. To develop ability to understand and conduct mathematical proofs for computation and algorithms. To understand the Java environment To learn Java application development using Swings and Middleware technology To explore advanced Java concepts To write web based programs using JSP
PGBEDC1	Multimedia Applications - I	National	To enhance the knowledge of the students in effective webpage designing.	 To offer a job oriented course To help them design animated applications in Flash

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				NAAC – 4 th CYCLE – Self Study Repor
MA COLLER MADURAL	Metric : 1.1.1 -	e Outcomes (COs) – M.	(POs), Programme Specific Outo Sc. COMPUTER SCIENCE	comes (PSOs) and
PG2B6	Extreme Programming – Asp.Net	National	Toprovideskillstosharply focus on neededinformationtobepresented in a website.TounderstandtheArchitecture of ASP.NETToacquirea workingknowledgeoftheNETprogrammingmodel	 To teach the techniques in Photoshop for editing photos, designing cover for books and magazines To introduce and form a foundation on .Net platform To reduce the industry academic gap meeting the industrial demands
PG2B7	Compiler Design	National	Introduce the theory and tools that can be employed in order to perform syntax-directed translation of a high- level programming language into an executable code.	 To provide knowledge on system oriented concepts To help them to write efficient programs, understanding the implementation requirements

				NAAC – 4 th CYCLE – Self Study Report
INA COLLAR REAL	Metric : 1.1.1 -	e Outcomes (COs) - M.Se	POs), Programme Specific Outo . COMPUTER SCIENCE	comes (PSOs) and
PG2B8	Distributed Operating Systems	National	To understand the concept of design and implementation in the context of distributed operating systems.	 To provide foundation on Operating Systems Concepts To stress the importance of client server architecture and how sharing of resources is done using OS
PG2B9	Lab-III - Extreme Programming - Asp.Net	National	To design and develop dynamic Control and validate the inputs by validation controls To design and develop different State Management Techniques	 To develop the skill of programming in .Net platform To develop platform independent web based applications
PG2BE1	Computational Intelligence	National	Throws light on all categories of Evolutionary Computing	 Throws light on all categories of Evolutionary Computing To motivate to pursue research

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



UN				
			To motivate to pursue	
			research	
PG2BE2	Neural Networks	National	To understand the fundamentals of Neural Networks To apply various models and learning algorithms for the real world scenario	 To introduce and provide a foundation on neural networks To create interest in research
PG2BE3	Software Quality Assurance & Testing	National	Togivestrongfoundationinsoftwarequalityassurancebyteachingstandards,modelsandmeasurementandtechniques.techniques.Toenhancetheknowledgeofthe	 To teach the concepts of software quality assurance and testing To make the students industry ready by giving the knowledge to ensure the quality of the software

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• To teach the techniques in

Photoshop for editing photos,

designing cover for books and

				NAAC – 4 th CYCLE – Self Study Report
A ADURAL	Metric : 1.1.1 -	e Outcomes (COs) - M.S	POs), Programme Specific Outo c. COMPUTER SCIENCE	comes (PSOs) and
		NA	studentstoprovideinnovativesolutionstovariousqualityassurancesrelatedproblems.	
PG2BE4	Embedded Systems	National	To create interest in low level system programming To help students venture in to embedded designing concepts	 To create interest in low level system programming To help students venture in to embedded designing concepts
PGBEDC2	Multimedia Applications - II	National	To enhance the knowledge of the students in effective	 To offer a job oriented course To help them design animated applications in Flash

information

webpage designing.

To provide skills to sharply focus on needed

to

be

Criterion : I – Curricular Aspects

Year

Metric : 1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and



: 2015 - 2020



			presented in a website.	magazines
PG3B10	Digital Image Processing	National	Design and implement algorithms for advanced image analysis Assess the performance of image processing algorithms and systems.	 To inculcate ideas and create interest in processing images techniques. To provide a research orientation inducing them to pursue research.
PG3B11	Data Mining And Data Warehousing	National	To interpret the contribution of data mining and data warehousing to the decision support level of organizations To understand different models used for OLAP and data pre-processing	 To explore the concepts and techniques of knowledge discovery and data mining in a multi disciplinary perspective. To present an organized framework of data mining techniques, applications and research directions. To understand and implement classification and Clustering

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				NAAC – 4 th CYCLE – Self Study Report
AT THE REAL PROPERTY OF THE RO	Metric : 1.1.1 -	e Outcomes (COs) – M.Sc	POs), Programme Specific Outc :. COMPUTER SCIENCE	comes (PSOs) and
		MA	COL	 algorithms in Data Mining To assess the strength and weakness of various algorithms and to analyze their behaviour.
PG3B12	Cryptography And Network Security	National	Understand the most common type of cryptographic algorithm	 To know the methods of conventional encryption. To understand the concepts of public key encryption To understand authentication and Hash functions. To know the network security tools and applications. To understand the system level security used.
PG3B13	Lab-III- Digital Image Processing	National	Design and implement algorithms that perform	• To become proficient at image processing techniques.

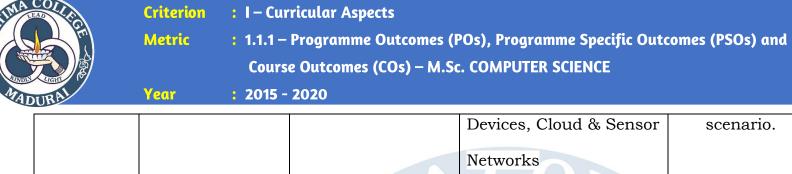
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					NAAC – 4 th CYCLE – Self Study Report (
AT AD	CALCER THE REAL	Metric : 1.1.1 -	e Outcomes (COs) – M.So	POs), Programme Specific Outo c. COMPUTER SCIENCE	comes (PSOs) and
			NA	basic image processing	 Concepts to be implemented using programming language only. No readymade tools to be used.
_	PG3BE5	Mobile Computing	National	To introduce the concept of mobile computing and provide a foundation for research.	• To introduce the concept of mobile computing and provide a foundation for research.
	PG3BE6	Cloud Computing	National	Main focus is on parallel programming techniques for cloud computing and large scale distributed systems which form the cloud infrastructure.	 To learn distributed communication To understand distributed resource management To study the basics of cloud computing To study about virtualization and cloud resource management

				NAAC – 4 th CYCLE – Self Study Report
ATTIMA COLLEGA	Metric : 1.1.1 -	se Outcomes (COs) – M.Sc	POs), Programme Specific Outc COMPUTER SCIENCE	comes (PSOs) and
PG3BE7	Advanced Computer Graphics & Animation	National	The goal of the course is to provide a strong foundation for computer graphics principles, and provide a hands-on introduction to recent advanced topics.	 To understand the basics of geometry processing. To understand the fundamentals of pipelined rasterization rendering of meshed objects and curved surfaces. To understand and work with advanced rendering methods such as radiosity. To design programs for advanced animation methods and To become proficient at graphics programming using OpenGL
PG3BE8	Distributed Database	National	Aware of the main techniques for managing a distributed database management	• To learn the key concepts and techniques for distributed database implementation, such as data storage, indexing, query

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				NAAC – 4 th CYCLE – Self Study Repor
EQUILE	Criterion :	I – Curricular Aspects		
in the second seco	Metric :	1.1.1 – Programme Outcomes (POs), Programme Specific Outo	comes (PSOs) and
		Course Outcomes (COs) – M.S	c. COMPUTER SCIENCE	
DURAL	Year :	2015 - 2020		
		MA	system and be able to design a simple distributed database system	 evaluation, query optimization, transaction management, concurrency control and cash recovery. To discuss the principles and
		S		techniques for database replication and reliability.
PG3B14	Internship	National	Acquire knowledge of the industry in which the internship is done. Identify areas for future knowledge and skill development.	• To enrich them with real time work experience.
PG4B15	Principles O Internet Of Things	f National	To understand the application areas of IOT To realize the revolution of Internet in Mobile	 To understand the fundamentals of Internet of Things. To apply the concept of Internet of Things in the real world





			Devices, Cloud & Sensor	scenario.
			Networks	
PG4B16	Project	National	Implement project	• To provide real time work
		RY	management knowledge,	experience and improve
			processes, lifecycle and	communication skills
			the embodied concepts,	• To develop real time problem
			tools and techniques in	solving skills
			order to achieve project	
			success.	

2016 - 2017

Course Code	Course Title	NATURE OF THE COURSE (LOCAL/ NATIONAL/ REGIONAL/GLOBAL)	COURSE DESCRIPTION	COURSE OBJECTIVES
PG1B1	Design And Analysis Of Algorithms	National	Develop your ability to articulate processes for solving problems and to implement those	 To stress the importance of the efficiency in writing programs To write algorithms efficient in

Criterion : I – Curricular Aspects

Metric : 1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and

Course Outcomes (COs) - M.Sc. COMPUTER SCIENCE



Year



			processes efficiently within software.	terms of design and time complexity
PG1B2	Advanced Programming In Java	National	To introduce the concepts of OO Programming and to develop Multithreaded Programs To develop user friendly GUI Applications and make the students proficient in web applications	 To understand the Java environment and OOP To learn Java application development using Swings and JSP To explore advanced Java concepts and to develop user friendly GUI based web Applications
PG1B3	Object Oriented Software Engineering	National	The trend being object oriented programming, the focus shifts to object oriented software engineering. To understand the	 The trend being object oriented programming, the focus shifts to object oriented software engineering. To understand the nuances of object oriented software

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		NAAC – 4 th CYCLE – Self Study Repo	port
ATTIMA COLLEG	Criterion : I – Curricular Aspects		
		s (POs), Programme Specific Outcomes (PSOs) and	
A MARK LIGHT	Course Outcomes (COs) – M	.Sc. COMPUTER SCIENCE	
MADURAL	Year : 2015 - 2020		
		nuances of object engineering.	
		oriented software • To reduce the academic-industry	rv
		engineering. gap.	- 5
		To reduce the academic-	
		industry gap.	
		industry gap.	
PG1B4	Theory Of National	To introduce the To introduce the mathematical	al
	Computation	mathematical foundation of computation	m
		foundation of including automata theory, the	he
		computation including theory of formal languages and	nd
		automata theory, the grammars.	
		theory of formal • To develop ability to understand	h
	$\mathcal{C}^{\mathfrak{S}}$	languages and and conduct mathematical proofs	
		grammars. for computation and algorithms.	
	S INT	To develop ability to	
		understand and	
		conduct mathematical	
		proofs for computation	
		and algorithms.	

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				NAAC – 4 th CYCLE – Self Study Repor
COLLAR	Metric : 1.1.1 -	se Outcomes (COs) – M.S	POs), Programme Specific Outo c. COMPUTER SCIENCE	comes (PSOs) and
PG1B5	Lab-I- Advanced Programming In Java	National	To learn the fundamentals and GUI Environments of Java	 To understand the Java environment To learn Java application development using Swings and Middleware technology To explore advanced Java concepts To write web based programs using JSP
PGBEDC1	Multimedia Applications-I	National	To offer a job oriented course . To help them design animated applications in Flash . To teach the techniques in Photoshop for editing photos, designing cover	 To offer a job oriented course To help them design animated applications in Flash To teach the techniques in Photoshop for editing photos, designing cover for books and magazines

Criterion : I – Curricular Aspects

Metric : 1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and

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Course Outcomes (COs) – M.Sc. COMPUTER SCIENCE
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Year

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			for books and	
			magazines	
PG2B6	Extreme	National	To introduce and form a	• To introduce and form a
	Programming –		foundation on .Net	foundation on .Net platform
	Asp.Net		platform	• To reduce the industry academic
			To reduce the industry	gap meeting the industrial
			academic gap meeting	demands
			the industrial demands	
PG2B7	Compiler Design	National	To provide knowledge on	• To provide knowledge on system
	5		system oriented	oriented concepts
	G	3	concepts	• To help them to write efficient
			To help them to write	programs, understanding the
		V KIND	efficient programs,	implementation requirements
			understanding the	
			implementation	
			requirements.	
PG2B8	Distributed	National	To provide foundation	• To provide foundation on

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				NAAC – 4 th CYCLE – Self Study Report
ADURAL	Metric : 1.1.1 -	e Outcomes (COs) - M.Se	POs), Programme Specific Outo c. COMPUTER SCIENCE	comes (PSOs) and
	Operating Systems		on Operating Systems Concepts. To stress the importance of client server architecture and how sharing of resources is done using OS	using OS
PG2B9	Lab-II- Extreme Programming	National	To develop the skill of programming in .Net platform. To develop platform independent web based applications	 programming in .Net platform To develop platform independent web based applications
PG2BE1	Computational Intelligence	National	Able to assess the nature of a problem at hand and determine whether a machine	Evolutionary Computing

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				NAAC – 4 th CYCLE – Self Study Repo
DURAL	Metric : 1.1.1 -	e Outcomes (COs) – M.S	POs), Programme Specific Out c. COMPUTER SCIENCE	comes (PSOs) and
PG2BE2	Neural Networks	National	learning technique/algorithm can solve it efficiently enough. To introduce and provide a foundation on neural networks To create interest in research	
PG2BE3	Software Quality Assurance & Testing	National	To teach the concept of software quality assurance and testing To make the students industry ready.	 To teach the concepts of software quality assurance and testing To make the students industry ready by giving the knowledge to ensure the quality of the software
PG2BE4	Embedded	National	To Improve capabilities	• To create interest in low level

Embedded	National	to improve capabilities	•	To create interest in low level
Systems		of using the technical		system programming
		knowledge of processor	•	To help students venture in to

				NAAC – 4" CYCLE – Self Study Re
	Metric : 1.1.1 -	e Outcomes (COs) – M.Se	POs), Programme Specific Oute c. COMPUTER SCIENCE	comes (PSOs) and
		MA	architecture, peripherals, programming, and CAD tools to design specific embedded computer systems.	embedded designing concepts
PGBEDC2	Multimedia Applications-II	National	To offer a job oriented course To teach them to design animated applications in Flash To introduce the techniques available in Photoshop used for editing photos, designing cover for books and magazines.	 To help them design animate applications in Flash To teach the techniques Photoshop for editing photodesigning cover for books are magazines
PG3B10	Computer	National	To inculcate ideas and	• To inculcate ideas and crea

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					NAAC – 4 th CYCLE – Self Study Report
TIMA C	OLLE	Criterion : I - Cur	ricular Aspects		
	C m	Metric : 1.1.1 -	Programme Outcomes (F	Os), Programme Specific Outc	omes (PSOs) and
		Cours	e Outcomes (COs) – M.Sc	. COMPUTER SCIENCE	,
MADI	RAL	Year : 2015 -	2020		
		Graphics And		create interest in	interest in processing images
		Image Processing		processing images	techniques.
			K A	techniques.	• To provide a research orientation
				To provide a research	inducing them to pursue
				orientation inducing	research.
				them to pursue	
				research.	
	PG3B11	Mobile	National	To introduce the	• To introduce the concept of
		Computing		concept of mobile	mobile computing and provide a
				computing and provide	foundation for research.
		<u>مع</u>		a foundation for	
			8	research.	
				research.	
1	PG3B12	Distributed	National	To learn the key	• To learn the key concepts and
		Database	AND	concepts and	techniques for distributed
				techniques for	database implementation, such
				distributed database	as data storage, indexing, query
				implementation, such	evaluation, query optimization,
				as data storage,	transaction management,

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					NAAC – 4 th CYCLE – Self Study Report
TIMA COLLE	Criterion : I – Cur	ricular Aspects			
	Metric : 1.1.1 -	Programme Outcomes (F	POs), Programme Speci	ific Outco	omes (PSOs) and
	Cours	e Outcomes (COs) – M.Sc	. COMPUTER SCIENCE		τ
ADURAL	Year : 2015 -	2020			
			indexing,	query	concurrency control and cash
			_	query	recovery.
			optimization,	1 5	
			transaction		• To discuss the principles and
			management,		techniques for database
				1	replication and reliability.
			concurrency contro	of and	
			cash recovery.		
			To discuss	the	
			principles	and	
			techniques for dat	tabase	
			replication	and	<u>A</u>
	C.	2	reliability.		
		2			
PG3B13	Lab-III-	National	To develop the sl	kill of	• To develop the skill of
	Computer	KIND	programming	in	programming in graphics and
	Graphics And		graphics and	image	image processing techniques.
	Image Processing		processing techniqu	ues.	• Concepts to be implemented
			Concepts to	he	
				be	using programming language
			implemented	using	only. No readymade tools to be

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				NAAC – 4 th CYCLE – Self Study Repor
URAL	Metric : 1.1.1 -	e Outcomes (COs) - N	es (POs), Programme Specific Outo 1.Sc. COMPUTER SCIENCE	comes (PSOs) and
			programming language only. No readymade tools to be used.	used.
PG3BE5	Cryptography	National	TointroducetheconceptsofsecurecommunicationTomakethemthrough casestudies	 To introduce the concepts of secure communication To make them learn through case studies
PG3BE6	Data Mining And Data Warehousing	National	To introduce and form a firm foundation in programming To stress the importance of clarity, simplicity and the efficiency in writing programs	 To introduce and form a firm foundation in programming To stress the importance of clarity, simplicity and the efficiency in writing programs

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PG3BE7

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Criterion : I – Curricular Aspects

Metric : 1.1.1 – Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) – M.Sc. COMPUTER SCIENCE



: 2015 - 2020

Year

	Computing	R A	concept of distributed operating systems and their functions	distributed operating systems and their functions
PG3BE8	Modelling And Simulation	National	To create interest in modelling and simulation techniques To motivate them to pursue research	 To create interest in modeling and simulation techniques To motivate them to pursue research
PG3B14	Internship	National	To enrich them with real time work experience.	• To enrich them with real time work experience.
PG4B15	Principles Of Information Security (Self Study)	National	To enable students to get sound understanding of Information Security To equip with knowledge and skills necessary to support for their career	 To enable students to get sound understanding of Information Security To equip with knowledge and skills necessary to support for their career in IT To develop an attitude and

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				NAAC – 4 th CYCLE – Self Study Report
ADURAL A	Criterion Metric Year		ts Putcomes (POs), Programme Specific Out :Os) – M.Sc. COMPUTER SCIENCE	comes (PSOs) and
			in IT To develop an attitude and interest for acquiring necessary knowledge through self learning	
PG4B16	Project	National	To provide real time work experience and improve communication skills To develop real time problem solving skills	 experience and improve communication skills To develop real time problem

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