

Criterion: I – Curricular Aspects

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

Course Outcomes (COs) – M.Sc. (IT & M)

Year : 2015 - 2020



FATIMA COLLEGE (AUTONOMOUS), MADURAI - 625018

NAME OF THE PROGRAMME: M. Sc. (IT & M)

PROGRAMME CODE: PSIM

COURSE OBJECTIVES:

2018-2019

COURSE	Course Title	NATURE OF THE COURSE (LOCAL/ NATIONAL/ REGIONAL/ GLOBAL)	Course Description	Course Objectives
MIT318	Data Communications and Networking	Global	This course is to provide information about various data communication techniques like switching and networking concepts which includes layers	 Describe the components of a data communications system Identify various transmission media and signalling. Describe error detection and correction techniques. Describe switching techniques. Illustrate various networking devices.



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			and their corresponding protocols.	Analyse OSI Layer and TCP/IP layer.
MIT319	Organisational Behaviour	Global	This Course help the students to develop cognizance of the importance of human	Demonstrate the applicability of the concept of organizational behaviour to understand the behaviour of people in the organization.
			behaviour.	 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.
			ADUR	 Demonstrate how the organizational behaviour can integrate in understanding the motivation behind behaviour of people in the organization. Analyse various conflict management



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				techniques.
MIT320	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.
MIT321A	Linux Shell Programming	Global	This course introduces the student to the Linux Operating system with particular emphasis on command line tools,	 Know the concept of Shell programming. Implement various concepts with files. Understand Linux Environment. Recognize the concept of terminal and implement threads concept.



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			utilities and shell scripting.	Use Text based screens
MIT321B	Web Technology	Global	This course gives knowledge in Web development Technologies.	 Explain Various HTML & DHTML tags. Understand VbScript. Know JSP concepts Demonstrate asp.net concepts. Develop WebPages with database.
MIT321C	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 faced with in this day and age, focussing on the various vulnerabilities of	 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 and viruses.



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			systems.	
MIT322A	Advertising Management	Global	This course gives knowledge about the concepts and techniques in Advertising management in Indian context.	 Understand the concepts of advertising. Analyse different advertising Ideas. Know about media planning. Describe about Advertisement. Analyse advertising effectiveness.
MIT322B	Management Accounting	Global	This course targets to develop an insight into principles and techniques of accounting and utilization of financial and accounting information for planning decision making and control.	 Understand the concepts of accounting. Analyse different final accounts. Know about cost accounting. Describe about marginal costing. Analyse budgetary control.



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MIT322C	Industrial	Global	This course introduces	•	Understand the concepts of industrial
	Relations		the fundamentals of		relations.
			industrial relations. It	٠	Describe trade unions.
			establishes industrial	<	Analyse worker's participation in
			democracy based on the		Management.
			participation of labour	•	Examine Industrial Disputes.
		27	in the management.	•	Analyse settlement machinery.
MIT323	LAB V	Global	This course gives hands	•	Implement Object Oriented programming
	Programming in		on experience, practices		concept using operators and control
	JAVA		the concepts of java		Structures
		37	programming language,	•	Design java programs using inheritance,
	L		and develops solutions	<i>(</i>)),	interfaces and packages.
		A 10	for real world problems.		Implement exception handling
			INDLY		mechanism and multithreading concept.
				•	Design Java applet based applications.
			11		Design applications with JDBC
			EDOR!		connectivity.



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MIT324	LAB VI Web	Global	This course gives hands	•	Explain Various HTML tags.
	Designing		on experience in Web	•	Design WebPages with DHTML.
			development	٠	Design Web pages using VB script.
			Technologies.	\	Develop client side Scripting using VB
					script.
		V		•	Develop WebPages with ASP.NET
MIT327	Special Course II-	Global	This course content	•	Understand basic PHP syntax.
	PHP & MYSQL		plays a vital role in	•	Apply MySQL commands.
			building the	•	Analyse various error handling and
	_F		programming skill in		debugging techniques.
		37	PHP for designing	•	Design PHP programming with MySQL
		7112	innovative web pages.	<i>)</i>),	database.
		रा ।	INDIX LIGH	1	Develop WebPages with PHP.



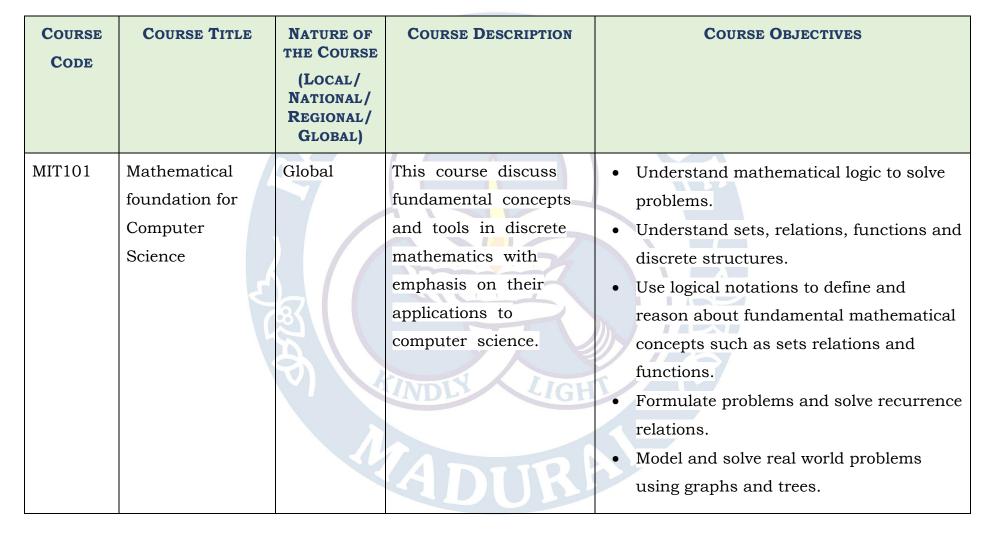
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MIT102	Programming in C	Global	This course content plays a vital role in building the basic concepts in computers and the fundamental knowledge in programming.	 Understand the basic concepts in Computer & C Programming. Identify and Apply different construct available for iteration such as 'for', 'while' and 'do-while'. Understand various storage concepts. Develop C programs using functions. Summarize the concepts of Pointers and Files.
MIT103	Management Principles and Practice	Global	This course helps students in understanding the basic principles underlying the science of managing.	 Understand the concepts of Planning. Describe Organization Structure. Analyse various leadership skills. Develop communication skills. Analyse various controlling types.
MIT104	Data Structures and Algorithms	Global	This course helps students to understand the basic data	 Identify the types of data structures like stack, queue and linked list. Apply tree data structures.



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			structures and algorithms by experimental learning.	 Demonstrate different hashing techniques and sorting techniques. Describe the basic of graph terminologies and the operations involved in graph. Discuss and implement various dynamic programming techniques.
MIT105	Visual Programming	Global	This course introduces the concepts of Visual Programming.	 Understand Visual Basic Development Environment. Analyse Various Controls. Understand Menus and Graphics. Analyse different ADO concepts. Apply different concepts in .NET
MIT106	Lab-I Data Structures using C	Global	This Course helps students to gain knowledge in various data structures and its working principles with	 Develop programs using linear data structures and tree traversal. Implement programs using doubly and circular linked list. Construct programs using nonlinear data structures.



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			implementation.	Apply stack and Queue operations.Apply various sorting algorithms.
MIT107	LAB-II Visual Programming	Global	This course gives hands on experience in Visual Programming.	 Understand various application types. Create dynamic window application. Use asp.net controls in web application. Build interactive WebPages. Generate different reports.
MIT208	Relational Data base Management System	Global	This course introduces database design and creation using DBMS software. It also imparts various concepts in database management system.	 Explain the structure and model of the relational database system. Design multiple tables and use group functions, sub queries. Design a database based on a data model considering the normalization to a specified level. Develop E- R model based tables. Evaluate different PL/SQL blocks.



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MIT209	Business	Global	This course introduces		Understand some basic concepts of
WII1207	Research	Global			-
	Research		the tools and techniques		research and its methodologies.
			of Research	•	Identify appropriate research topics.
			Methodology.	•	Analyse different sampling methods.
				•	Apply data collection technique.
				•	write a research report and thesis
MIT210	Software	Global	This course introduces	•	Understand how to plan a software
	Engineering		the basic steps involved		project.
			in Software Development	•	Analyse the cost estimate and problem
		4	Life Cycle (SDLC).		complexity using various estimation
		787			techniques.
		4811	77	/))•	Prepare the SRS, Design document,
					Project plan of a given software system.
			INDLY	1	Apply Software design and
					implementation ideas in S/W project
					development.
			ADITAL		Generate test cases using White Box
					testing and Black Box testing.



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MIT211	Marketing Management	Global	This course helps students to understand the concepts of marketing management.		Demonstrate strong conceptual knowledge in the functional area of marketing management. Analyse buyer's behaviour. Understand Product Life Cycle Demonstrate pricing and physical distribution Analyse various Promotion activities.
MIT213	Lab III - RDBMS	Global	This course gives hands on experience in relational database management system.		Explain Various SQL Commands. Write SQL queries to user specifications Design database schema considering normalization and relationships within database. Develop PL/SQL Programs. Develop triggers, procedures and Cursors.
MIT214	Lab IV -	Global	This course gives hands	•	Create and Manage content.



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	Multimedia		on experience in various	•	Use the Timeline concepts.
	Applications		concepts of multimedia.	•	Use Motion Pre-sets.
				•	Create Animations Using Motion Tweens.
			LEAD	(Create Movie clips.
MIT216	Communication	Global	This course provides	•	Describes communication theory, its type
	Skills		the basic concepts and		, barriers of communication and the
			strategies of		strategies involved.
			communication along	•	Develop group communication, speaking
			with the importance of		skills, group discussion, interview and
	<i>-</i>		reading and writing.		public speech.
	4	67		•	Analyse close reading, comprehension,
		211))) _~	summary paraphrasing.
		3 16	J / K		Apply translation from Indian language
		Y	INDLY	T	to English and vice-versa.
				•	Build writing skills, documenting report,
			74555		writing making notes and letter writing
MIT217	Special Course I-	Global	This course make the		Create, edit, and format a document
			students to identify MS-	•	Make use of office package for
L	1	L	14		



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	Eoffice Lab		Office terminologies, create technical documents, format and edit documents, use simple tools, utilities, and print documents.	documentation, presentation and visualization charts Create tables and reports Develop various presentations Design various excel sheets.
MIT212A	Marketing of Services	Global	This course introduces the students to the application of marketing Concepts in various services.	 Understand different Services in Marketing. Analyse various products and Pricing. Evaluate various service promotions. Understand People and process in Marketing. Apply various service strategies.
MIT212B	Financial Management	Global	This course introduces the concepts of basic business financial management concepts and tools.	 Understand the basic concepts of financial management. Analyse short-term financing decision. Evaluate long-term investments decision. Understand long term financing



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				decisions. • Apply dividend policy decisions.
MIT212C	Human resource Management	Global	This course enables the students to understand the Human resource Management and system at various levels in general and in certain specific industries or organizations.	 Understand the concept of human resource management and to understand its relevance in organizations. Develop necessary skill set for application of various human resource issues. Analyse the strategic issues and strategies required to select and develop manpower resources. Apply human resource concepts to take correct business decisions. Analyse different maintenance strategies.
MIT318	Data Communications and Networking	Global	This course is to provide information about various data communication	 Describe the components of a data communications system Identify various transmission media and signalling.



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			techniques like switching and networking concepts which includes layers and their corresponding protocols.	technique technique Illustrate	error detection and correction es. Describe switching es. various networking devices. OSI Layer and TCP/IP layer.
MIT319	Organisational	Global	This Course help the		rate the applicability of the
	Behaviour		students to develop	concept o	f organizational behaviour to
			cognizance of the	understar	nd the behaviour of people in
			importance of human	the organ	ization.
	{		behaviour.	• Demonstr	rate the applicability of
				analysing	the complexities associated
		$\mathcal{Z} / \mathcal{L}$	J / V	with man	agement of individual behaviour
			INDIX LIGH	in the org	anization.
			ANDE CAUL	• Analyse t	he complexities associated with
				managem	ent of the group behaviour in
			ADTIO	the organ	ization.
			AMON.	• Demonstr	rate how the organizational



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			IA COI	2	behaviour can integrate in understanding the motivation behind behaviour of people in the organization. Analyse various conflict management techniques.
MIT320	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.
MIT321A	Linux Shell	Global	This course introduces	•	Know the concept of Shell programming.



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	Programming		the student to the Linux Operating system with particular emphasis on command line tools, utilities and shell scripting.	 Implement various concepts with files. Understand Linux Environment. Recognize the concept of terminal and implement threads concept. Use Text based screens
MIT321B	Web Technology	Global	This course gives knowledge in Web development Technologies.	 Explain Various HTML & DHTML tags. Understand VbScript. Know JSP concepts Demonstrate asp.net concepts. Develop WebPages with database.
MIT321C	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	 Understands the basic concepts of security Analyse various cryptographic algorithms while applying practically. Identify email and IP security. Compare different web security techniques.



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			that networks are faced with in this day and age, focussing on the various vulnerabilities of systems.	Summarize the concepts of firewall and viruses.
MIT322A	Advertising Management	Global	This course gives knowledge about the concepts and techniques in Advertising management in Indian context.	 Understand the concepts of advertising. Analyse different advertising Ideas. Know about media planning. Describe about Advertisement. Analyse advertising effectiveness.
MIT322B	Management Accounting	Global	This course targets to develop an insight into principles and techniques of accounting and utilization of financial and accounting	 Understand the concepts of accounting. Analyse different final accounts. Know about cost accounting. Describe about marginal costing. Analyse budgetary control.



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			information for planning		
			decision making and		
			control.	7	
MIT322C	Industrial	Global	This course introduces	•	Understand the concepts of industrial
	Relations		the fundamentals of		relations.
			industrial relations. It	•	Describe trade unions.
	/_		establishes industrial	•	Analyse worker's participation in
			democracy based on the		Management.
			participation of labour	•	Examine Industrial Disputes.
	4		in the management.	•	Analyse settlement machinery.
MIT323	LAB V	Global	This course gives hands	•	Implement Object Oriented programming
	Programming in	811	on experience, practices		concept using operators and control
	JAVA	7) ()	the concepts of java	7	Structures
			programming language,	•	Design java programs using inheritance,
		8	and develops solutions	4	interfaces and packages.
			for real world problems.		Implement exception handling
					mechanism and multithreading concept.
				•	Design Java applet based applications.



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				Design applications with JDBC connectivity.
MIT324	LAB VI Web Designing	Global	This course gives hands on experience in Web development Technologies.	 Explain Various HTML tags. Design WebPages with DHTML. Design Web pages using VB script. Develop client side Scripting using VB script. Develop WebPages with ASP.NET
MIT327	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.



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Year : 2015 - 2020



2016-2017

CODE	Course Title	NATURE OF THE COURSE (LOCAL/ NATIONAL/ REGIONAL/ GLOBAL)	Course Description	Course Objectives
MIT101	Mathematical	Global	This course discuss	Understand mathematical logic to solve
	foundation for		fundamental concepts	problems.
	Computer		and tools in discrete	Understand sets, relations, functions and
	Science		mathematics with	discrete structures.
	ج ا		emphasis on their	Use logical notations to define and
		3	applications to	reason about fundamental mathematical
		811	computer science.	concepts such as sets relations and
		7) (0)		functions.
			UNDLY	Formulate problems and solve recurrence
				relations.
			11500	Model and solve real world problems
			EDUR	using graphs and trees.



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MIT102	Programming in	Global	This course content	Understand the basic concepts in
	С		plays a vital role in	Computer & C Programming.
			building the basic	Identify and Apply different construct
			concepts in computers	available for iteration such as 'for', 'while'
			and the fundamental	and 'do-while'.
			knowledge in	• Understand various storage concepts.
		27	programming.	• Develop C programs using functions.
				Summarize the concepts of Pointers and
				Files.
MIT103	Management	Global	This course helps	Understand the concepts of Planning.
	Principles and	2	students in	Describe Organization Structure.
	Practice		understanding the basic	Analyse various leadership skills.
		31 (6)	principles underlying	Develop communication skills.
			the science of managing.	Analyse various controlling types.
MIT104	Data Structures	Global	This course helps	Identify the types of data structures like
	and Algorithms	V	students to understand	stack, queue and linked list.
			the basic data	Apply tree data structures.



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			structures and	Demonstrate different hashing
			algorithms by	techniques and sorting techniques.
			experimental learning.	Describe the basic of graph terminologies
				and the operations involved in graph.
			LEAD	 Discuss and implement various dynamic
				programming techniques.
MIT105	Visual	Global	This course introduces	Understand Visual Basic Development
	Programming		the concepts of Visual	Environment.
			Programming.	Analyse Various Controls.
				Understand Menus and Graphics.
	4			Analyse different ADO concepts.
			77	Apply different concepts in .NET
MIT106	Lab-I Data	Global	This Course helps	Develop programs using linear data
	Structures using		students to gain	structures and tree traversal.
	С	8	knowledge in various	Implement programs using doubly and
			data structures and its	circular linked list.
			working principles with	Construct programs using nonlinear data
				structures.
-	•	•	25	



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			implementation.	Apply stack and Queue operations.Apply various sorting algorithms.
MIT107	LAB-II Visual Programming	Global	This course gives hands on experience in Visual Programming.	 Understand various application types. Create dynamic window application. Use asp.net controls in web application. Build interactive WebPages. Generate different reports.
MIT208	Relational Data base Management System	Global	This course introduces database design and creation using DBMS software. It also imparts various concepts in database management system.	 Explain the structure and model of the relational database system. Design multiple tables and use group functions, sub queries. Design a database based on a data model considering the normalization to a specified level. Develop E- R model based tables. Evaluate different PL/SQL blocks.



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MIT209	Business Research	Global	This course introduces the tools and techniques of Research Methodology.	Understand some basic concepts of research and its methodologies. Identify appropriate research topics. Analyse different sampling methods. Apply data collection technique. write a research report and thesis
MIT210	Software Engineering	Global	This course introduces the basic steps involved in Software Development Life Cycle (SDLC).	Understand how to plan a software project. Analyse the cost estimate and problem complexity using various estimation techniques. Prepare the SRS, Design document, Project plan of a given software system. Apply Software design and implementation ideas in S/W project development. Generate test cases using White Box testing and Black Box testing.



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MIT213	LabIII - RDBMS	Global	This course gives hands on experience in relational database management system.	 Explain Various SQL Commands. Write SQL queries to user specifications Design database schema considering normalization and relationships within database. Develop PL/SQL Programs. Develop triggers, procedures and Cursors.
MIT214	Lab IV -	Global	This course gives hands	Create and Manage content.



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	Multimedia Applications		on experience in various concepts of multimedia.	•	Use the Timeline concepts.
	Applications		concepts of mutumedia.	•	Use Motion Pre-sets. Create Animations Using Motion Tweens.
			LEAD	Ŀ	Create Movie clips.
MIT216	Communication	Global	This course provides	•	Describes communication theory, its type
	Skills		the basic concepts and		, barriers of communication and the
			strategies of		strategies involved.
			communication along	•	Develop group communication, speaking
			with the importance of		skills, group discussion, interview and
			reading and writing.		public speech.
	4	a		•	Analyse close reading, comprehension,
			777)) _{>}	summary paraphrasing.
				•	Apply translation from Indian language
	,		INDLY LIGH	T	to English and vice-versa.
				•	Build writing skills, documenting report,
		1	11200		writing making notes and letter writing
MIT217	Special Course I-	Global	This course make the	•	Create, edit, and format a document
			students to identify MS-	•	Make use of office package for
	-	•	29	•	



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	Eoffice Lab		Office terminologies, create technical documents, format and edit documents, use simple tools, utilities, and print documents.	documentation, presentation and visualization charts Create tables and reports Develop various presentations Design various excel sheets.
MIT212A	Marketing of Services	Global	This course introduces the students to the application of marketing Concepts in various services.	 Understand different Services in Marketing. Analyse various products and Pricing. Evaluate various service promotions. Understand People and process in Marketing. Apply various service strategies.
MIT212B	Financial Management	Global	This course introduces the concepts of basic business financial management concepts and tools.	 Understand the basic concepts of financial management. Analyse short-term financing decision. Evaluate long-term investments decision. Understand long term financing



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				•	decisions. Apply dividend policy decisions.
MIT212C	Human resource Management	Global	This course enables the students to understand the Human resource Management and system at various levels in general and in certain specific industries or organizations.		Understand the concept of human resource management and to understand its relevance in organizations. Develop necessary skill set for application of various human resource issues. Analyse the strategic issues and strategies required to select and develop manpower resources. Apply human resource concepts to take correct business decisions. Analyse different maintenance strategies.
MIT318	Data Communications and Networking	Global	This course is to provide information about various data communication		Describe the components of a data communications system Identify various transmission media and signalling.



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			techniques like switching and networking concepts which includes layers and their corresponding protocols.	 Describe error detection and correction techniques. Describe switching techniques. Illustrate various networking devices. Analyse OSI Layer and TCP/IP layer.
MIT319	Organisational	Global	This Course help the	Demonstrate the applicability of the
	Behaviour		students to develop	concept of organizational behaviour to
			cognizance of the	understand the behaviour of people in
			importance of human	the organization.
			behaviour.	Demonstrate the applicability of
		(3)		analysing the complexities associated
		12/1	Y / V	with management of individual behaviour
			ANDIX LIGH	in the organization.
			MADES CAGIL	Analyse the complexities associated with
				management of the group behaviour in
			ADITO	the organization.
			ELUD	Demonstrate how the organizational



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Course Outcomes (COs) – M.Sc. (IT & M)



			IA COZ		behaviour can integrate in understanding the motivation behind behaviour of people in the organization. Analyse various conflict management techniques.
MIT320	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.
MIT321A	Linux Shell	Global	This course introduces	•	Know the concept of Shell programming.



Criterion: I - Curricular Aspects

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

Course Outcomes (COs) – M.Sc. (IT & M)



	Programming		the student to the Linux Operating system with particular emphasis on command line tools, utilities and shell scripting.	 Implement various concepts with files. Understand Linux Environment. Recognize the concept of terminal and implement threads concept. Use Text based screens
MIT321B	Web Technology	Global	This course gives knowledge in Web development Technologies.	 Explain Various HTML & DHTML tags. Understand VbScript. Know JSP concepts Demonstrate asp.net concepts. Develop WebPages with database.
MIT321C	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	 Understands the basic concepts of security Analyse various cryptographic algorithms while applying practically. Identify email and IP security. Compare different web security techniques.



Criterion: I - Curricular Aspects

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

Course Outcomes (COs) – M.Sc. (IT & M)



			that networks are faced with in this day and age, focussing on the various vulnerabilities of systems.	Summarize the concepts of firewall and viruses.
MIT322A	Advertising Management	Global	This course gives knowledge about the concepts and techniques in Advertising management in Indian context.	 Understand the concepts of advertising. Analyse different advertising Ideas. Know about media planning. Describe about Advertisement. Analyse advertising effectiveness.
MIT322B	Management Accounting	Global	This course targets to develop an insight into principles and techniques of accounting and utilization of financial and accounting	 Understand the concepts of accounting. Analyse different final accounts. Know about cost accounting. Describe about marginal costing. Analyse budgetary control.



Criterion: I - Curricular Aspects

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

Course Outcomes (COs) – M.Sc. (IT & M)



			information for planning		
			decision making and		
			control.		
MIT322C	Industrial	Global	This course introduces	•	Understand the concepts of industrial
	Relations		the fundamentals of		relations.
			industrial relations. It	•	Describe trade unions.
			establishes industrial	•	Analyse worker's participation in
			democracy based on the		Management.
			participation of labour	•	Examine Industrial Disputes.
	42		in the management.	•	Analyse settlement machinery.
MIT323	LAB V	Global	This course gives hands	•	Implement Object Oriented programming
	Programming in	211	on experience, practices		concept using operators and control
	JAVA	7) 10	the concepts of java	7	Structures
			programming language,	•	Design java programs using inheritance,
		A	and develops solutions	4	interfaces and packages.
			for real world problems.	•	Implement exception handling
			STOUR!		mechanism and multithreading concept.
				•	Design Java applet based applications.



Criterion: I - Curricular Aspects

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

Course Outcomes (COs) – M.Sc. (IT & M)



				Design applications with JDBC connectivity.
MIT324	LAB VI Web Designing	Global	This course gives hands on experience in Web development Technologies.	 Explain Various HTML tags. Design WebPages with DHTML. Design Web pages using VB script. Develop client side Scripting using VB script. Develop WebPages with ASP.NET
MIT327	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.



Criterion: I - Curricular Aspects

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Year : 2015 - 2020

Fatma College

2015-2016

COURSE	Course Title	NATURE OF THE COURSE (LOCAL/ NATIONAL/ REGIONAL/ GLOBAL)	Course Description	Course Objectives
MIT101	Mathematical	Global	This course discuss	Understand mathematical logic to solve
	foundation for		fundamental concepts	problems.
	Computer		and tools in discrete	Understand sets, relations, functions and
	Science		mathematics with	discrete structures.
	يح ا		emphasis on their	Use logical notations to define and
		3	applications to	reason about fundamental mathematical
		211	computer science.	concepts such as sets relations and
		3 10	The Walter	functions.
			UNDLY	Formulate problems and solve recurrence
		8		relations.
			11500	Model and solve real world problems
			EDUR	using graphs and trees.



Criterion: I - Curricular Aspects

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Course Outcomes (COs) – M.Sc. (IT & M)



MIT102	Programming in C	Global	This course content plays a vital role in building the basic concepts in computers and the fundamental knowledge in programming.	 Understand the basic concepts in Computer & C Programming. Identify and Apply different construct available for iteration such as 'for', 'while' and 'do-while'. Understand various storage concepts. Develop C programs using functions. Summarize the concepts of Pointers and Files.
MIT103	Management Principles and Practice	Global	This course helps students in understanding the basic principles underlying the science of managing.	 Understand the concepts of Planning. Describe Organization Structure. Analyse various leadership skills. Develop communication skills. Analyse various controlling types.
MIT104	Data Structures and Algorithms	Global	This course helps students to understand the basic data	 Identify the types of data structures like stack, queue and linked list. Apply tree data structures.



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Course Outcomes (COs) – M.Sc. (IT & M)



			structures and algorithms by experimental learning.	 Demonstrate different hashing techniques and sorting techniques. Describe the basic of graph terminologies and the operations involved in graph. Discuss and implement various dynamic programming techniques.
MIT105	Visual Programming	Global	This course introduces the concepts of Visual Programming.	 Understand Visual Basic Development Environment. Analyse Various Controls. Understand Menus and Graphics. Analyse different ADO concepts. Apply different concepts in .NET
MIT106	Lab-I Data Structures using C	Global	This Course helps students to gain knowledge in various data structures and its working principles with	 Develop programs using linear data structures and tree traversal. Implement programs using doubly and circular linked list. Construct programs using nonlinear data structures.



Criterion: I – Curricular Aspects

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			implementation.	Apply stack and Queue operations.Apply various sorting algorithms.
MIT107	LAB-II Visual Programming	Global	This course gives hands on experience in Visual Programming.	 Understand various application types. Create dynamic window application. Use asp.net controls in web application. Build interactive WebPages. Generate different reports.
MIT208	Relational Data base Management System	Global	This course introduces database design and creation using DBMS software. It also imparts various concepts in database management system.	 Explain the structure and model of the relational database system. Design multiple tables and use group functions, sub queries. Design a database based on a data model considering the normalization to a specified level. Develop E- R model based tables. Evaluate different PL/SQL blocks.



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MIT210 Software Engineering Global This course introduces the basic steps involved in Software Development Life Cycle (SDLC). Analyse the cost estimate and problem complexity using various estimation techniques. Prepare the SRS, Design document, Project plan of a given software system. Apply Software design and implementation ideas in S/W project development. Generate test cases using White Box testing and Black Box testing.	MIT209	Business Research	Global	This course introduces the tools and techniques of Research Methodology.	Understand some basic concepts of research and its methodologies. Identify appropriate research topics. Analyse different sampling methods. Apply data collection technique. write a research report and thesis
	MIT210		Global	the basic steps involved in Software Development	project. Analyse the cost estimate and problem complexity using various estimation techniques. Prepare the SRS, Design document, Project plan of a given software system. Apply Software design and implementation ideas in S/W project development. Generate test cases using White Box



Criterion: I - Curricular Aspects

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MIT211	Marketing Management	Global	This course helps students to understand the concepts of marketing management.	 Demonstrate strong conceptual knowledge in the functional area of marketing management. Analyse buyer's behaviour. Understand Product Life Cycle Demonstrate pricing and physical distribution Analyse various Promotion activities.
MIT213	LabIII - RDBMS	Global	This course gives hands on experience in relational database management system.	 Explain Various SQL Commands. Write SQL queries to user specifications Design database schema considering normalization and relationships within database. Develop PL/SQL Programs. Develop triggers, procedures and Cursors.
MIT214	Lab IV -	Global	This course gives hands	Create and Manage content.



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	Multimedia		on experience in various	•	Use the Timeline concepts.
	Applications		concepts of multimedia.	•	Use Motion Pre-sets.
			(A CU/	•	Create Animations Using Motion Tweens.
			LEAD	•	Create Movie clips.
MIT216	Communication	Global	This course provides	•	Describes communication theory, its type
	Skills		the basic concepts and		, barriers of communication and the
			strategies of		strategies involved.
			communication along	•	Develop group communication, speaking
			with the importance of		skills, group discussion, interview and
			reading and writing.		public speech.
				•	Analyse close reading, comprehension,
				<i>)</i>)),	summary paraphrasing.
				•	Apply translation from Indian language
	,	V) (V	INDLY	T	to English and vice-versa.
				•	Build writing skills, documenting report,
		1	74===0		writing making notes and letter writing
MIT217	Special Course I-	Global	This course make the		Create, edit, and format a document
			students to identify MS-	•	Make use of office package for
	l	I.	44		



Criterion: I - Curricular Aspects

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

Course Outcomes (COs) – M.Sc. (IT & M)



	E office Lab		Office terminologies, create technical documents, format and edit documents, use simple tools, utilities, and print documents.	documentation, presentation and visualization charts Create tables and reports Develop various presentations Design various excel sheets.
MIT212A	Marketing of Services	Global	This course introduces the students to the application of marketing Concepts in various services.	 Understand different Services in Marketing. Analyse various products and Pricing. Evaluate various service promotions. Understand People and process in Marketing. Apply various service strategies.
MIT212B	Financial Management	Global	This course introduces the concepts of basic business financial management concepts and tools.	 Understand the basic concepts of financial management. Analyse short-term financing decision. Evaluate long-term investments decision. Understand long term financing



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				•	decisions. Apply dividend policy decisions.
MIT212C	Human resource Management	Global	This course enables the students to understand the Human resource Management and system at various levels in general and in certain specific industries or organizations.		Understand the concept of human resource management and to understand its relevance in organizations. Develop necessary skill set for application of various human resource issues. Analyse the strategic issues and strategies required to select and develop manpower resources. Apply human resource concepts to take correct business decisions. Analyse different maintenance strategies.
MIT318	Data Communications and Networking	Global	This course is to provide information about various data communication		Describe the components of a data communications system Identify various transmission media and signalling.



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			techniques like switching and networking concepts which includes layers and their corresponding protocols.	 Describe error detection and correction techniques. Describe switching techniques. Illustrate various networking devices. Analyse OSI Layer and TCP/IP layer.
MIT319	Organisational	Global	This Course help the	Demonstrate the applicability of the
	Behaviour		students to develop	concept of organizational behaviour to
			cognizance of the	understand the behaviour of people in
			importance of human	the organization.
		3	behaviour.	Demonstrate the applicability of
		(3)		analysing the complexities associated
		12/1	J / V	with management of individual behaviour
			INDIX LIGH	in the organization.
			ANDES CAGIL	Analyse the complexities associated with
				management of the group behaviour in
			ADTIB	the organization.
			ALIAN DE	Demonstrate how the organizational



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			LEAD LEAD	 behaviour can integrate in understanding the motivation behind behaviour of people in the organization. Analyse various conflict management techniques.
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MIT321A	Linux Shell	Global	This course introduces 48	Know the concept of Shell programming.



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	Relations		the fundamentals of	relations.
			industrial relations. It	Describe trade unions.
			establishes	Analyse worker's participation in
			industrialdemocracy	Management.
			based on the	Examine Industrial Disputes.
			participation of labour	Analyse settlement machinery.
	3		in the management.	
MIT323	LAB V	Global	This course gives hands	Implement Object Oriented programming
	Programming in	\$\ \ \	on experience, practices	concept using operators and control
	JAVA	W. K.	the concepts of java	Structures
			programming language,	Design java programs using inheritance,
			and develops solutions	interfaces and packages.
			for real world problems.	Implement exception handling
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