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Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

AQAR - QUALITATIVE METRIC

2023 - 2024

Criterion 1 - Curricular Aspects

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme specific outcomes (PSOs) and Course Outcomes (COs), of the Programmes offered by the Institution.

Programme Code: PSIT

NAME OF THE PROGRAMME: M.Sc Information Technology

Programme Outcomes:

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



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Programme Specific Outcomes:

PSO 1	Understand the concepts and applications in the field of Computing Sciences like Web designing and development, Mobile application development, and Network and communication technologies.							
PSO 2	Apply the learning from the courses and develop applications for real world problems.							
PSO 3	Understand the technological developments in the usage of modern design and development tools to analyze and design for a variety of applications							
PSO 4	Communicate in both oral and written forms, demonstrating the practice of professional ethics and the concerns for social welfare.							
PSO 5	Demonstrate understanding of the principles and working of the hardware and software aspects of computer systems							
PSO 6	Ability to understand the structure and development methodologies of software systems. Possess professional skills and knowledge of software design process. Familiarity and practical competence with a broad range of programming language and							



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	open-source platforms.					
PSO 7	Be acquainted with the contemporary issues, latest trends in technological development and					
	thereby innovate new ideas and solutions to existing problems.					

Course Outcomes:

Course Code	Course Title	Nature Of The	Course Description	Course Outcomes
		Course		
		(Local/National		
		/Regional/Glob		
		al)		
23PG1I1	Python	Global	This course	CO 1: Explain the basic
	Programming		introduces the Basic	concepts in python
			understanding on	language.
			object oriented	CO 2: Apply the various
			programming	data types and identify
			concepts.	the usage of control
				statements, loops,



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				functions and modules in
				python for processing the
				data
				CO 3: Analyze and solve
				problems using basic
				constructs and
				techniques of python.
				CO 4: Assess the
				approaches used in the
				development of
				interactive application.
				CO 5: To build real time
				programs using python
23PG1I2	Python	Global	This course	CO 1: Understand the
	Programming Practical		introduces the Basic	significance of control
	Tractical		implementation	statements, loops and
			python programming	functions in creating
			concepts.	simple programs.
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				CO 2: Apply the core data
				structures available in
				python to store, process
				and sort the data
				CO 3: Analyze the real
				time problem using
				suitable python concepts
				CO 4: Assess the complex
				problems using
				appropriate concepts in
				python
				CO 5: Develop the real
				time applications using
				python programming
				language
23PG1I3	Web Development	Global	This course	CO 1: Identify the
	Using Wordpress		introduces the Basic	4 11 11 1
			understanding of	suitable for the
			dideistanding	



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			HTMI	Ĺ	&	CSS	requiren	nent	of	the
			conce	epts	alon	ig with	webpage			
			Word	Pres	ss.		CO 2:	Imp	lemen	ıt
							Java s	eript	and	Style
							Sheets	effectiv	vely i	n the
							Web Pag	es		
							CO 3:	Ana	lyze	the
							different	tools	and	built-
							in funct	ions a	availa	ble to
							be applie	ed inth	ne web	page
							CO 4:	Rate	e the o	design
							and effe	ectiven	iess (of the
							Web Pag	es cre	ated.	
							CO 5:	Des	ign	and
							publish	a we	bsite	using
							Wordpre	SS		
23PG1IAE	Image Editing	Global	This	cour	rse (content	CO 1:	Des	ign	and
	And Animation		is	enab	oles	other	edit ima	ges u	sing i	mage-



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			disciplined stu		
			to strengthen	and	CO 2: Apply layer
			increase	the	features for creating
			understanding	of	images for web and print.
			basis Image e		CO 3: Build program
			and Anim	ation	in Alice using looping and
			software	like	branching.
			Photoshop	and	branching.
			Alice3.		CO 4: Apply event
					handlers in alice.
					CO 5: Develop 3D
					animations.
23PG1IE1	Data Structures	Global	This c	ourse	CO1: To understand the
			introduces	Basic	concept of Object
			understanding	of	Oriented Programming &
			programming	and	Java Programming
			foundational		Constructs.
			concepts in	data	CO2: To practice the



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			structures.	concepts of operators
				classes, objects
				inheritance, packages
				Enumeration and various
				keywords.
				CO3: To apply exception
				handling mechanisms.
				CO4: To design the
				applications of Java &
				Java applet, Swings and
				JDBC.
				CO5: To Analyze and
				implement J2ME
23PG1IE2	Natural Language	Global	This course provides	CO1: Implement Basic
	Processing		to understand the	Data Access, List
			Data storage,	CO2: Develop programs
			management and	using Array, function.
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Graphical Configurations. CO5: Develop program using simulation and statistical method. This course introduces the Basic understanding of working principles of computer and about hardware and software components. Graphical Configurations. CO 1: Develop program using simulation and statistical method. CO 1: Outline the fundamental concepts of an OS and their respective functionality CO 2:Demonstrate the importance of open- source operating system commands CO 3: Identify and stimulate management		T				
Graphical Configurations. CO5: Develop program using simulation and statistical method. This course introduces the Basic understanding of working principles of computer and about hardware and software components. Graphical Configurations. CO 1: Develop program using simulation and statistical method. CO 1: Outline the fundamental concepts of an OS and their respective functionality CO 2:Demonstrate the importance of open- source operating system commands CO 3: Identify and stimulate management					techniques	Regression and ANOVA
CO5: Develop program using simulation and statistical method. 23PG1IE3 Operating Systems Global This course introduces the Basic understanding of working principles of computer and about hardware and software components. CO 1: Outline the fundamental concepts of an OS and their respective functionality CO 2:Demonstrate the importance of opensource operating system commands CO 3: Identify and stimulate management						CO4: Understand
23PG1IE3 Operating Systems Global This course introduces the Basic understanding of working principles of computer and about hardware and software components. CO 1: Outline the fundamental concepts of an OS and their respective functionality CO 2:Demonstrate the importance of opensource operating system commands CO 3: Identify and stimulate management						Graphical Configurations.
23PG1IE3 Operating Systems Global This course introduces the Basic understanding of working principles of computer and about hardware and software components. Global This course introduces the Basic fundamental concepts of an OS and their respective functionality CO 2:Demonstrate the importance of opensource operating system commands CO 3: Identify and stimulate management						CO5: Develop program
Operating Systems Global This course introduces the Basic understanding of working principles of computer and about hardware and software components. Global This course fundamental concepts of an OS and their respective functionality CO 2:Demonstrate the importance of opensource operating system commands CO 3: Identify and stimulate management						using simulation and
Systems introduces the Basic understanding of working principles of computer and about hardware and software components. Systems introduces the Basic understanding of an OS and their respective functionality CO 2:Demonstrate the importance of opensource operating system commands CO 3: Identify and stimulate management						statistical method.
introduces the Basic understanding of working principles of computer and about hardware and software components. introduces the Basic understanding of an OS and their respective functionality CO 2:Demonstrate the importance of opensource operating system commands CO 3: Identify and stimulate management	23PC	G1IE3		Global	This course	CO 1: Outline the
working principles of computer and about hardware and software components. The expective functionality are respective functionality and respective functionality functio			Systems		introduces the Basic	fundamental concepts of
computer and about hardware and software components. CO 2:Demonstrate the importance of opensource operating system commands CO 3: Identify and stimulate management					understanding of	an OS and their
hardware and source operating system components. components. components. components. importance of opensource operating system commands commands CO 3: Identify and stimulate management					working principles of	respective functionality
hardware and software source operating system components. CO 3: Identify and stimulate management					computer and about	CO 2:Demonstrate the
components. commands CO 3: Identify and stimulate management					-	importance of ones
CO 3: Identify and stimulate management					software	source operating system
CO 3: Identify and stimulate management					components.	commands
					•	CO 3: Identify and
						stimulate management
activities of operating						activities of operating
system						system



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				CO 4: Analyze the various
				services provided by the
				operating system
				CO 5: Interpret different
				problems related to
				process, scheduling,
				deadlock, memory and
				files
23PG1IE4	Human	Global	This course	CO 1: Describe typical
	Computer Interaction		introduces the basic	human-computer
	Interaction		understanding of the	interpolition (IICI) models
			impact of human	atrilas and regions
			factors and	laistania IIOI nanadiana
			Computer Science	CO 2: Identify the
			fundamentals.	usability and the
				beneficiary factors of User
				support systems
				CO 3: Analyze the core
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					theories, models and
					methodologies in the field
					of HCI
					CO 4: Evaluate
					interactive systems based
					on the human factor
					theories
					CO 5: Elaborate an
					interactive system based
					on the design principles,
					standards and guidelines
-	23PG2I4	Database	Global	Fundamental	CO 1: Explain the
		Systems		computer knowledge	relational databases and
				that includes the	uses of PL/SQL
				hardware and	CO 2: Apply Schema, ER-
				memory storage.	Model, normalization,
					transaction, concurrency,
					and recovery on tables



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				using SQL and PL/SQL.
				CO 3: Analyze and
				manage relational &
				distributed, database,
				transaction, Concurrency
				control and query
				languages
				CO 4: Assess databases
				based on models and
				Normal Forms.
				CO 5: Design and
				construct tables and
				manipulate it effectively
				using PL/SQL database
				objects
23PG2I5	Rdbms Lab	Global	Basic understanding	CO 1: Understand the
			of SQL queries	significance of control
				statements, loops and
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				functions in creating
				simple programs.
				CO 2: Apply the core data
				structures available in
				SQL to store, process and
				sort the data
				CO 3: Analyze the real
				time problem using
				suitable SQL concepts
				CO 4: Assess the complex
				problems using
				appropriate concepts in
				SQL
				CO 5: Develop the real
				time applications using
				programming language.
23PG2I6	Open Source	Global	Basic understanding	CO 1: Demonstrate the
201 0210	Technologies Practical		of computer	setup and configuration



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programming, Internet and HTML/ Internet and HTML/ Internet and HTML/ and Ruby Scripts CO 2: Select the appropriate language fundamentals and techniques to write and compile PHP and Ruby programs CO 3: Examine the bugs and analyze how to prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and consistency of the scripts		. , ,	-	
and Ruby Scripts CO 2: Select the appropriate language fundamentals and techniques to write and compile PHP and Ruby programs CO 3: Examine the bugs and analyze how to prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and			programming,	of development
CO 2: Select the appropriate language fundamentals and techniques to write and compile PHP and Ruby programs CO 3: Examine the bugs and analyze how to prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and			Internet and HTML/	environment to write PHP
appropriate language fundamentals and techniques to write and compile PHP and Ruby programs CO 3: Examine the bugs and analyze how to prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and				and Ruby Scripts
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techniques to write and compile PHP and Ruby programs CO 3: Examine the bugs and analyze how to prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and				appropriate language
compile PHP and Ruby programs CO 3: Examine the bugs and analyze how to prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and				fundamentals and
programs CO 3: Examine the bugs and analyze how to prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and				techniques to write and
CO 3: Examine the bugs and analyze how to prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and				compile PHP and Ruby
and analyze how to prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and				programs
prevent and remove the bugs CO 4: Test and debug the application with sample inputs to check the correctness and				CO 3: Examine the bugs
bugs CO 4: Test and debug the application with sample inputs to check the correctness and				and analyze how to
CO 4: Test and debug the application with sample inputs to check the correctness and				prevent and remove the
application with sample inputs to check the correctness and				bugs
inputs to check the correctness and				CO 4: Test and debug the
correctness and				application with sample
				inputs to check the
consistency of the scripts				correctness and
				consistency of the scripts



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					CO 5: Create simple
					programs that make use
					of various PHP and Ruby
					features and
					Functions and solve web
					application and database
					tasks using PHP
		Global	This is	a Web	CO 1: Describe
			scripting	language	fundamentals of web.
			PHP able	to build	Introduce the creation of
			dynamic	Web	static webpage using
	E-Commerce And		application	s.	HTML.
23PG2IAE	Content		Semantics	and	
	Management Systems		syntax of	the PHP	importance of CSS in web
			language,	including	dorrolonmont
			discussion	on the	CO 3: Describe the
			practical	problems	function of JavaScript as
			that PHP so	•	a dynamic webpage



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						creating tool
						CO 4: Distinguish PHP as
						a server side
						programming language
						CO 5: Outline the
						principles behind using
						MySQL as a backend
						DBMS with PHP
=	23PG2IE5	Networks And	Global	Basic	knowledge	CO 1: Outline the basic
		Security		about	computer	data structures
				networks		CO 2: Identify the
						different operations and
						memory representations
						CO 3: Interpret different
						techniques with their
						complexities
						CO 4: Compare the
						applications of various
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23PG2IE6 Biometric Techniques Global This course introduces the Basic knowledge of computer vision and cyber security concepts CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics		NO.	ivial y Laria, iviadarai 02		
algorithm to solve simple problems suited for appropriate situations 23PG2IE6 Biometric Techniques This course introduces the Basic knowledge of computer vision and cyber security concepts CO 1: Outline the existing theories, methods and interpretations in the field of biometrics CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various					data structures
23PG2IE6 Biometric Techniques Global This course introduces the Basic knowledge of computer vision and cyber security concepts CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various					CO 5: Choose an
23PG2IE6 Biometric Techniques Global This course introduces the Basic knowledge of computer vision and cyber security concepts CO 1: Outline the existing theories, methods and interpretations in the field of biometrics CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various					algorithm to solve simple
23PG2IE6 Biometric Techniques This course introduces the Basic knowledge of computer vision and cyber security concepts CO 1: Outline the existing theories, methods and interpretations in the field of biometrics CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various					problems suited for
Techniques introduces the Basic knowledge of computer vision and cyber security concepts CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various					appropriate situations
introduces the Basic knowledge of computer vision and cyber security concepts CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various	23PG2IE6		Global	This course	CO 1: Outline the existing
computer vision and cyber security concepts CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various		Techniques		introduces the Basic	theories, methods and
concepts biometrics CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various				knowledge of	interpretations in the
concepts CO 2: Identify the deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various				computer vision and	field of
deployment areas, competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various				cyber security	biometrics
competing technologies, strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various				concepts	CO 2: Identify the
strength and weakness of various Physiological and Behavioral Biometrics CO 3: Analyze various					deployment areas,
various Physiological and Behavioral Biometrics CO 3: Analyze various					competing technologies,
Behavioral Biometrics CO 3: Analyze various					strength and weakness of
CO 3: Analyze various					various Physiological and
					Behavioral Biometrics
Application areas,					CO 3: Analyze various
					Application areas,



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				Biometric security issues
				and Biometric
				standards
				CO 4: Assess the
				methods relevant for
				design, development and
				operation of biometric
				access control systems
				CO 5: Determine
				identification /verification
				systems to validate the
				user identity and
				technological uplifts in
				biometrics compared to
				traditional securing
				mechanisms
23PG2IE7	Object Oriented	Global	This course	CO1: Recognize the
	Analysis And		introduces Basic	



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Design		understanding of one	of object-oriented
		of the object-oriented	analysis, design and
		programs	Testing
			CO2: Demonstrate the
			importance of system
			development process
			using various approaches
			and choose the relevant
			technique for a system in
			each phases of SDLC
			CO3: Differentiate
			various object-oriented
			analysis, design and
			testing methods and
			models.
			CO4:Assess various
			analysis, design and
			testing strategies
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				appropriate to build high-
				performance object-
				oriented system
				CO5: Design Object
				oriented systems using
				object modelling
				techniques and analyze
				them for correctness and
				quality
23PG2IE8	Software Project	Global	Basic knowledge	CO1:Understanding of
	Management		about the	project management
			fundamentals of	fundamentals such as
			software project	project planning, risk
			development	management and quality
				assurance
				CO2:Choose the
				appropriate scheduling
				and testing techniques to



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				build a quality p	product	
				CO3:Apply diffe	erent cost	
				estimation t	techniques	
				and quality me	asures for	
				software develop	pment	
				CO4: Differentia	te various	
				software de	evelopment	
				models	and	
				methodologies,	planning	
				activities and	scheduling	
				methods		
				CO5:Asses	the	
				importance of	software	
				project docu	ımentation	
				and identify the	e methods	
				to create	project	
				documentation,	including	
				requirements d	ocuments,	



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				design documents, and
				project plans
21PG3IT12	Data Mining And	Global	Data Mining and	CO1: Understand the
	Data		Data Warehousing	fundamental concept of
	Warehousing		consists of	Data Mining and analyze
			introduction about	and evaluate the data
			data mining, data	cleaning, integration ,
			pre-processing,	transformation and
			mining frequent	reduction techniques.
			pattern, association,	CO2: Design
			classification and	multidimensional data
			cluster analysis and	using Data Warehouse
			applications of data	architecture.
			mining.	CO3: Analyze and
				evaluate Classification
				algorithms.
				CO4: Identify the types of
				data in Cluster Analysis
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				and categorize the
				Cluster Methods.
				CO5: Utilize the Data
				Mining techniques in
				various real applications
				and in major issues.
21PG3IT13	Advanced Python	Global	The course helps to	CO1: Understand the
	Programming		create interest in	basic programming style
			image processing	in python .
			techniques and	CO2: Apply various types
			infuse research	of control flow statements
			thirst in this area.	in python programs.
				CO3: Identify the
				structure and
				components of a python
				program.
				CO4: Analyze Object
				oriented programming
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				concepts and techniques
				in python.
				CO5: Implementing the
				GUI concepts in Python.
21PG3IT14	Lab V: Data	Global	Data Mining and	CO1: Utilize Weka tool to
	Mining And Data		Data Warehousing	evaluate Data Mining
	Warehousing		consists of	algorithms.
			introduction about	CO2: Demonstrate pre
			data mining, data	processing steps involved
			warehousing, data	in different datasets.
			pre-processing,	CO3: Develop the
			:mining frequent	decision tree algorithm
			pattern, association,	using different datasets.
			classification and	CO4: Demonstrate the
			cluster analysis and	classification and clusters
			applications of data	algorithms using large
			mining.	datasets.
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				CO5: Analyze Data
				Mining techniques for
				realistic data.
21PG3IT15	Lab Vi: Advanced	Global	This course content	CO1: Demonstrate the
	Python		plays a vital role in	basic concepts of
	Programming		building the basic	variables expressions.
			programming skill in	CO2: Develop basic
			Python.	python programs with
				I/O operations.
				CO3: Develop programs
				with function control
				structure.
				CO4: Apply strings and
				lists in python.
				CO5: Develop python
				programs with files.
21PG3ITE4	Software Testing	Global	To study	CO1: Discuss various
			fundamental	software application



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			concepts in software	domains and different
			testing, planning a	process model used in
			test project, design	software development.
			test cases and data,	CO2: Demonstrate the
			conduct testing	basics of software quality
			operations, manage	assurance and defect
			software problems	prevention.
			and defects,	CO3: Compare different
			generate a testing	testing strategies and
			report.	tactics.
				CO4: Apply the software
				testing techniques in
				commercial environment.
				CO5: Explain high
				performance testing using
				Jmeter.
22PG3ITE5	System Software	Global	The course helps to	CO1: Interpret the
	& Compiler Design		create interest in	concepts of system



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			image processing	software and machine
			techniques and	architecture.
			infuse research	CO2: Identify the
			thirst in this area.	concepts of loader and
				linkers
				CO3: Analyse the
				concepts of working
				principles of compilers.
				CO4: Experiment Finite
				Automata for regular
				expressions.
				CO5: Simplify the
				expressions using Parser.
21PG3ITE6	Computer	Global	Linux shell	CO1: Understand basic
	Forensics		programming	concepts in Computer
			describes about the	forensics.
			commands used to	CO2: Explain different
			develop the concept	investigation procedures.



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			of shell	CO3: Understand
			programming.	different Data acquisition
				mode.
				CO4: Understand
				investigation process
				using computer forensics.
				CO5: Know how to apply
				forensic analysis tools to
				recover important
				evidence for identifying
				computer crime
21PG3ITE7	Big Data	Global	Big Data Analytics	CO1: Understand the
	Analytics		includes	Characteristics and
			Introduction to Big	challenges of Big Data.
			Data, Big Data	CO2: Describe the
			Analytics, The Big	concepts of Big Data
			Data Technology,	Analytics.
			Introduction to	CO3: Utilize Hadoop for



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			MAPREDUCE	Big Data Technologies.
			Programming: and	CO4: Demonstrate
			Introduction to	MAPREDUCE
			Recommendation	Programming.
			Engines.	CO5: Describe types of
				Recommendation
				Systems using Big Data
				Analytics.
21PG3ITE8	Internet Of	Global	This Course provides	CO1: Understand the
	Things		knowledge of	basic concepts of IoT.
			development cycle of	CO2: Discuss physical
			IoT systems with	and logical design of IoT
			sample systems. And	enabled technologies.
			explains the different	CO3: Analyze how and
			sources needed with	where IoT can be
			the integration	applied.
			process to build IoT	CO4: Compare M2M and
			systems	ІоТ.



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				CO5: Analyse the
				features of Python used
				for IoT implementation.
22PG3ITE9	Algorithm Design	Global	This course	CO1: To understand the
	And Analysis		introduces basic	basic concepts of
			methods for the	analysis.
			design and analysis	CO2: Analyze the concept
			of efficient	of various searching and
			algorithms	traversal techniques.
			emphasizing	CO3: Discuss concept of
			methods useful in	dynamic programming
			practice.	and greedy method.
				CO4: Explain the
				concepts of
				Backtracking, branch
				and bound methods
				CO5: Apply the algorithm
				for NP-Hard and NP-



(Autonomous)

				complete problems.
19PG3ITSI	Summer	Global	It is a summer	CO1: Identify employment
	Internship		training programme	contacts leading directly
			undertaken by the	to a full-time job following
			students in a	course completion.
			company of their	CO2: Create
			choice. This is aimed	communication,
			to help them have an	interpersonal and other
			experience of the	soft skills essential for
			real time	the job interview process.
			environment. It will	CO3: Analyze the project
			act as a platform for	requirements and
			the future	engages in continuing
			placement.	professional development.
			The students are	CO4: Analyze a problem
			mandated to	and identify the
			complete one online	computing requirements
			course in the area of	appropriate to its



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	ivial y Laria, iviadarai - 02	25010, Tallill Hadd	
		their interest.	solution.
		The students have to	CO5: Utilizing a new
		submit a report after	software tool.
		the internship. This	
		report will be	
		assessed through a	
		viva-voce internal	
		exam.	
Project Work And	Global	The project will be of	CO1: Discuss project
Viva Voce		one semester	development and the
		duration. The	associated business
		students will be sent	processes.
		to different	CO2: Plan as an
		organizations	individual or in a team in
		involved in IT as per	development of technical
	Project Work And Viva Voce	Project Work And Global	their interest. The students have to submit a report after the internship. This report will be assessed through a viva-voce internal exam. Project Work And Viva Voce The project will be of one semester duration. The students will be sent to different organizations



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		<u> </u>	<u> </u>	
			specialization of	CO3: Communicate with
			students, mostly	engineers and the
			located in the place	community at large in
			of the study. They	written and oral forms.
			will have to carry out	CO4: Create effective
			a project related to	communication skills for
			the area of interest	presentation.
			and submit a project	CO5: Analyse problems
			report at the end of	and formulate solutions.
			the semester. The	
			students shall	
			defend their	
			dissertation in front	
			of a panel of experts	
			during the Viva-Voce	
			examination.	
21PG4IT16	Biometrics	GLOBAL	This Course provides	CO1: To understand the



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		knowledge of R-	basic concepts in R-
		Programming and	Programming.
		explains the different	CO2: Illustrate various
		statements and	statements used in R-
		functions used in R-	Programming.
		Programming.	CO3: Analyze various
			techniques to import and
			export the data set.
			CO4: To know about the
			aggregate functions.
			CO5: Implementation of
			R-Programming in
			current scenario