

Nallamuthu Gounder Mahalingam College (Autonomous)

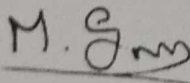
Pollachi

**List of Courses having focus on local, national, regional and global developmental needs
offered by the M.Sc Computer Science**

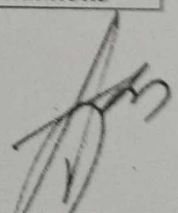
PG COMPUTER SCIENCE						
Programme: M.Sc Computer Science					Year: 2022	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
22PCS311	Internet of Things				✓	Have devices that self report in real-time, improving efficiency and bringing important information to the surface more quickly than a system depending on human intervention.
22PCS312	Full Stack Web Development				✓	Provides an unparalleled freedom to simultaneously work on the front- and backend, faster development and delivery
22PCS313	Python Programming				✓	Most accessible programming languages available because it has simplified syntax
22PCS314	Digital Image Processing		✓			Extract from an image quantitative information that is not readily apparent to the eye, and to calibrate an image in photometric or geometric terms
22PCS1E1	Advanced Networks		✓			Share information effortlessly, increasing productivity and efficiency, other

						benefits include cost-effectiveness, storage efficiency, flexibility, and data security
22PCS1E2	Wireless Networks				✓	Plays a key role in today's communications, and new forms of it will become central to emerging technologies including robots, drones; self-driving vehicles and new medical devices
22PCS1E3	Network Security & Cryptography				✓	A stable and efficient network security system is essential to protecting client data
22PCS2E1	Software Project Management	✓				Important role in an organization by giving insights into project progress, performance, and inventory tracking
22PCS2E2	Software Engineering and Testing	✓				Application of principles used in the field of engineering, which usually deals with physical systems, to the design, development, testing and deployment of software systems
22PCS2E3	Object Oriented Analysis and Design with UML	✓				Helps to visualize, specify, construct, and document the artifacts of an object-oriented system
22PCS3E1	Artificial Intelligence & Machine Learning				✓	Makes it possible for machines to learn from experience, adjust to

						new inputs and perform human-like tasks
22PCS3E2	Natural Language Processing and Text Analytics				✓	Helps to analyze the data collected from various sources, such as social media profiles, customer surveys, employee surveys, and other feedback tools and
22PCS3E3	Robotic Process Automation for Business				✓	Automate various supply chain processes, including data entry, predictive maintenance and after-sales service support
22PCS3P1	Pilot Project – I				✓	Enables to manage the risk of a new idea and identify any deficiencies before substantial resources are committed
22PCS4P2	Project Work and Viva-Voce				✓	Explore the various functional areas and analyze how theoretical concepts taught are applied in real life situations



CHAIRMAN



PRINCIPAL

Dr. R. MUTHUKUMARAN,
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N.G.M. College, Pollachi - 642 001
Coimbatore District

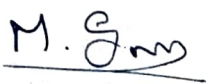
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by the M.Sc Computer Science**

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		Local	National	Regional	Global	
23PCS101	Design & Analysis of Algorithms	✓				It helps to design and analyze the logic on how the program will work before developing the actual code for a program
23PCS102	Data Mining using R Tool		✓			Extract valuable information from available data, uncovering patterns and finding anomalies and relationships in large datasets
23PCS103	Advanced Operating System		✓			An operating system can manage how to divide the program so that it runs on more than one processor at a time
23PCS104	Advanced Java Programming		✓			Provides libraries to understand the concept of Client-Server architecture for web-based applications
23PCS206	Android Programming				✓	Address the business requirements and build new applications or services for smart devices
23PCS207	Cloud Computing				✓	Provides flexible resource allocation on demand with the promise of realizing elastic, Internet-accessible, computing on a pay-as-you-go

						basis
23PCS208	Big Data Analytics				✓	Leads to smarter business moves, more efficient operations
23PCS209	Advanced Database Management System				✓	Provides a centralized view of data that can be accessed by multiple users, from multiple locations, in a controlled manner
23PCS311	Internet of Things				✓	Have devices that self report in real-time, improving efficiency and bringing important information to the surface more quickly than a system depending on human intervention.
23PCS312	Full Stack Web Development				✓	Provides an unparalleled freedom to simultaneously work on the front- and backend, faster development and delivery
23PCS313	Python Programming				✓	Most accessible programming languages available because it has simplified syntax
23PCS314	Digital Image Processing		✓			Extract from an image quantitative information that is not readily apparent to the eye, and to calibrate an image in photometric or geometric terms
23PCS1E1	Software Project Management	✓				Important role in an organization by giving insights into project progress, performance, and inventory tracking
23PCS1E2	Software Engineering and Testing	✓				Application of principles used in the field of engineering, which usually deals with physical systems, to the design,

						development, testing and deployment of software systems
23PCS2E3	Mobile Computing				✓	A stable and efficient network security system is essential to protecting client data
23PCS2E1	Advanced Networks		✓			Share information effortlessly, increasing productivity and efficiency, other benefits include cost-effectiveness, storage efficiency, flexibility, and data security
23PCS2E2	Wireless Networks				✓	Plays a key role in today's communications, and new forms of it will become central to emerging technologies including robots, drones, self-driving vehicles and new medical devices
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