

Nallamuthu Gounder Mahalingam College

**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: 2019
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
18PCS312	J2EE Technologies				✓	J2EE architecture, Servlets and JSP, EJB, JMS, JNDI, Web services, Database access, Security.
18PCS313	Digital Image Processing			✓		The students can understand the features of Java and the Web services.
18PCS314	Internet of Things			✓		To make the students understand the fundamentals of Internet of Things, IoT Protocols, built a small low cost embedded system using Raspberry Pi and to apply the concept of Internet of Things in the real world scenario.
18PCS3E1	Elective-III: Enterprise Resource planning			✓		To provide a contemporary and forward-looking on the theory and practice of Enterprise Resource Planning

						Technology.
18PCS315	Programming Lab-V : J2EE Technologies				✓	J2EE architecture, Servlets and JSP, EJB, JMS, JNDI, Web services, Database access, Security.
18PCS316	Programming Lab-VI: Digital Image Processing using MATLAB			✓		The course will provide the students about Image Processing, image compression and segmentation using MATLAB
18PCS417	Industrial Project Work and Viva voce(Individual)				✓	Providing a direct personal contact with the student during which his attitude and personality can be assessed
19PCS101	AndroidProgramming				✓	The course provide the students knowledge on the Mobile Environment and acquired mobile application development skills with Android
19PCS102	Analysis&Designof Algorithms				✓	To analyze the asymptotic performance of algorithms. Write rigorous correctness proofs for algorithms. Demonstrate a familiarity with major algorithms and data structures


19PCS103	Advanced Networks	✓					To uncover and understand the current directions of computer networks from literature readings. To expose students to the “full span” of the computer network's frontier {a breath goal}.
19PCS104	Data Mining and Warehousing					✓	To prepare the students familiar with mathematical foundations of data mining tools. Understand and implement classical models and algorithms in data warehouses and data mining.
19PCS105	Programming Lab-I: Android Programming					✓	The students can have a good understanding on the Mobile Environment and acquired mobile application development skills with Android
19PCS106	Programming Lab-II: Analysis & Design of Algorithms					✓	To make the students analyze the asymptotic performance of algorithms. Write rigorous correctness proofs for algorithms.

						Demonstrate a familiarity with major algorithms and data structures
19PCS207	Data Analytics using Python Programming				✓	The objective of business data analytics is to explore and investigate business problems or opportunities through a course of scientific inquiry.
19PCS208	Information Security and Cryptography			✓		The students will be able to develop basic understanding of security, cryptography, system attacks and defences against them.
19PCS209	Big Data Analytics				✓	Big data analytics helps companies and governments make sense of data and make better decisions. Here are some objectives of a big data analytics course
19PCS210	Programming Lab -III: Data Analytics				✓	The objective of business data analytics is to explore and investigate business problems or opportunities through a course of scientific inquiry.

19PCS211	ProgrammingLab-IV: Scala Programming			✓		Scala is used in building modular, scalable, and fast software. It is most commonly used by data engineers along with Apache Spark to process large amounts of data smoothly and efficiently.
19PCS212	ProgrammingLab-V : UnifiedModelingLanguage andR Tool	✓				The goal of UML is to provide a standard notation that can be used by all object-oriented methods and to select and integrate the best elements of precursor notations.
19PCS2E2	Elective-I Soft Computing	✓				The students can understand the concepts of Neural Networks, architecture, functions and various algorithms involved and also know the fundamentals of fuzzy logic, various fuzzy systems and their functions.
19PCS2N1/ 19PCS2N2	Non Major Elective: MultimediaPackagesLab /WebDesigningLab				✓	Students learn how to critically evaluate website quality, learn how to create

						and maintain quality web pages, learn about web design standards and why they're important, and learn to create and manipulate images.
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M. G. M
CHAIRMAN


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