

Nallamuthu Gounder Mahalingam College (Autonomous)

Pollachi

**List of Courses having focus on local, national, regional and global developmental needs
offered by the Department of Computer Technology**

DEPARTMENT OF COMPUTER TECHNOLOGY						
Nallamuthu Gounder Mahalingam College (Autonomous) Programme: Computer Technology						Year:2023-24
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
21 UCT 517	Core Course XI: Open Source Technologies	✓		✓		The students of this Programme can be web developers would be able to write dynamic interactive web based applications using PHP and MYSQL database. After mastering this course they may work as self-employed web page developer.
21 UCT 518	CORE COURSE XII: Information Security		✓		✓	The concepts needed to read through the ripe in the market place and understanding risks and how to deal with them. The student will have a Perspective on security in general and better understanding to reduce and manage the security risks.
21UCT5E1	DSE - I : Cloud Computing			✓	✓	The course curriculum has been designed keeping in view the emerging trends in advanced computing as well as contemporary and futuristic human resource requirements of the IT industry.
21UCT5E2	DSE – I: Embedded Systems			✓		Embedded system design and programming skills for

						different commercial and industrial applications are enhanced
21UCT5E3	DSE – I: Management Information system	✓				This module is designed for those candidates who are, or will be, in a position to make or influence decisions related to the selection, design and support of management information systems (MIS).
21UCT520	CORE COURSE Lab VIII: Web Designing			✓		This course will enable the students to understand the basics of internet and Various applications of internet like e-mail, FTP, Telnet, Newsgroups and videoconferencing. In addition, this course develops competency amongst the students to design professional with sites and interactive web pages and manage advanced content and sites quickly and efficiently.
21UCT5S1	Skill Based Major Elective - I : Python Lab				✓	This course is designed to offer the student a well-rounded introduction to programming in Python, including a significant amount of practical application through the completion

						of programming exercises, such that after completing the course, the student will have a sound understanding of the basics of programming in Python.
21UCT621	CORE COURSE- XIII : Framework Technology		✓			FrameworkTechnology offers easy learning, RAD capabilities, legacy code support, .NET framework integration, OOP, security features, community support, and multi-platform development, making it suitable for diverse applications.
21UCT6E1	DSE- II : MobileComputing				✓	Mobile computing enables on-the-go access to information, communication, and services via portable devices, fostering convenience, productivity, and real-time connectivity in today's dynamic and mobile-centric world.
21UCT 6E4	DSE - III : Artificial Intelligence				✓	Artificial Intelligence enhances automation, problem-solving, and decision-making through algorithms, enabling machines to mimic human intelligence. It transforms industries, driving innovation,

						efficiency, and personalized user experiences.
21 UCT 623	Project				✓	Experience the project program that affords them the opportunity to match classroom learning with on the-job reality. Adapt to developments in the field and be enriched by active involvement in the field of project. Students are encouraged to take up projects in association with local and regional industries or carry out research projects based on issues in the immediate community
22UCT307	Core Course V: Advanced Java Programming				✓	This course is designed to teach the student how to write, test, and debug advanced-level Object-Oriented programs using Java with a heavy emphasis toward network and web programming.
22UCT308	Core Course VI: Database Management System		✓			This course will acquaint the student with knowledge of fundamentals concepts of DBMS and its application in different areas, storage, manipulation and retrieval of data using query languages
22UCT3A3	GE: Allied - III : Software Engineering				✓	Software engineering systematically applies engineering principles to design, develop, test, and maintain reliable and scalable software

						solutions, ensuring efficiency, quality, and meeting user needs in diverse applications.
22UCT3N1 / 22UCT3N2	Non Major Elective - I : HTML Lab / Multimedia Lab		✓			Web development in general is to build a foundation of skills creating web pages. However, this course develops competency amongst the students to learn up-to-date information, e.g., HTML5 and CSS3 and design principles, e.g., proximity, alignment, contrast, and navigation design to meet current requirements in the highly competitive job market.
22UCT411	Core Course VII: Python Programming				✓	Python programming offers simplicity, readability, and versatility. Its extensive libraries empower developers to build applications efficiently, fostering rapid development and facilitating solutions across diverse domains.
22UCT412	Core Course VIII: LinuxAnd Shell Programming		✓		✓	The purpose of this subject is to cover the concepts, Installation Process, Hardware Requirements and features of Unix/Linux. Basic Commands & Shell Programming.
22UCT4A4	GE IV : Allied IV: Data Communication And Networks		✓			Data Communication and Networks enable seamless information exchange. Understanding them is crucial for designing,

						implementing, and managing efficient communication systems, fostering global connectivity and collaboration.
22UCT4N3/ 22UCT4N4	Non-Major Elective II – Office Automation Lab / CorelDraw Lab			✓		Office Automation Lab enhances productivity by integrating technology into office tasks. It equips users with skills to automate processes, manage data efficiently, and utilize office tools effectively.
23UCT101	CC I: Programming in C				✓	In order to enable the students use the computers effectively in problem solving, this course offers the modern programming Language C along with exposition to various applications of computers.
23UCT102	CC II: Digital Fundamentals and Computer Organization			✓		This course has been designed to make the students know about the fundamental principles of digital electronics and gain familiarity with the available IC chips and the broad field of digital systems design.
23UCT204	CC III: Java programming				✓	This course develop necessary skills in students to apply object oriented programming techniques in java so that the students will be able to develop complete applications using core java.
23UCT2A1	GE II – Allied II: Mathematics II – Operations Research	✓				Optimization techniques and to solve many practical problems in

						inventory control and capital budgeting problem and Queuing theory update the knowledge for all the three needs
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