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

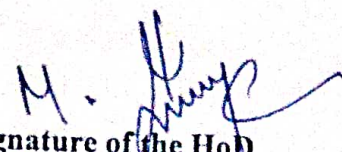| DEPARTMENT OF COMPUTER TECHNOLOGY						
Programme: Computer Technology						Year:2019-2020
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
19 UCT 101	CORE - I : Programming in C				✓	To impart knowledge to the students for the preparation of various problem solving, this course offers the modern programming Language C along with exposition to various applications of computers.
19 UCT 102	CORE II: DIGITAL FUNDAMENTALS AND COMPUTER ORGANIZATION			✓		To impart knowledge to the students for the preparation to know about fundamental principles of digital electronics and gain familiarity with the available IC chips and also it gives a background in the broad field of digital systems.
18 UCT 307	Core V: Java Programming				✓	To impart knowledge to the students for the preparation to 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.
18 UCT 308	Core VI: Relational Database Management System & Oracle		✓		✓	To impart knowledge to the students for the preparation to 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.
18UCT412	Core VIII: Advanced Java Programming				✓	To impart knowledge to the students for the preparation of 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.
18UCT4N3/ 18UCT4N4	Skill Based Non-Major Elective II - Office Automation Lab / CorelDraw Lab			✓		This subject covers the handling of whole field of word processing. It also involves various

						clericaltasks, such as organizing customer data or creating reports. It enables people with lower skill levels to perform higher-level tasks. Office Automation helps the users with a sophisticated set of commands to format, edit, and print text documents. It is used as valuable and important tools in the creation of application such as newsletters, brochures, charts, presentation, documents, drawings and other graphic images.This will make the students proficient in office automation applications.
18UCT517	CORE XI: Open Source Technologies		✓		✓	The students of this Programme in Computer Technology as web developers would be able to write dynamic interactive web based applications such as for online

						banking, ticket/hotels booking sites, ECommerce using PHP and MYSQL database. After mastering this course they may work as self-employed web page developer.
17UCT623	CORE XII: Information & Cyber Security			✓		✓	To impart knowledge to the students for the preparation in view of basic computer users and information system managers and the concepts needed to read through the ripe in the market place as well as understanding risks and how to deal with them. It is hoped that the student will have a wider perspective on security .
17 UCT 520	Core Elective - I :Cloud Computing					✓	To impart knowledge to the students in grooming them to work on current technology scenarios as well as prepare them to keep pace with the changing face of technology and the requirements of the

| 17UCT624 | Core Elective - II : Embedded Systems | | | | ✓ | | ✓ | growing IT industry. To impart knowledge to the students for the preparation to work in Device drivers and Interrupts servicing mechanism, inter-process communication and synchronization of processes and hands on skills to develop and maintain electronics hardware based embedded systems. |

Signature of the HoD

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