

Course Title: Fundamentals of Information Technology			
Course Code: UDS 104	No. of credits: 3	L-T-P: 18-16-22	Learning hours: 45
L: Lectures; T: Tutorials; P: Practicals			
Pre-requisite Course Code and Title (if any): None			
Department: Natural and Applied Sciences			
Course Coordinator: Dr. Adwitiya Sinha		Course Instructor:	
Contact Details:			
Course Type: Major		Course Offered in: Semester 2	
<p>Course Description</p> <p>This course encompasses a comprehensive understanding of information technology for digital communication with an emphasis on the fundamental concepts that underpin effective data storage, retrieval, and exchange. The learners will explore the significance of computing technologies in diverse digital applications, recognizing their pivotal role in shaping modern technological landscapes. The course aims to demonstrate the structure and function of computer organization and storage systems. The students will gain insights on the critical role of operating systems and the importance of quantifying performance to evaluate the overall system efficiency. Also, the course will address contemporary challenges by identifying and examining various security concerns prevailing in the modern age of digitization.</p>			
<p>Course Objectives</p> <ul style="list-style-type: none"> • To understand the basic concepts of information technology for digital communication • To identify significance of computing technologies for digital applications • To explain the structure and function of computer organization and storage • To identify the role of operating system, and the need for quantifying system performance • To identify different issues of information security in modern digital age 			