

Application of ICT					
Credit Hours:	2+1	Course Code:	CSEC-1105	Prerequisites:	None
Course Learning Outcomes (CLOs):					
At the end of the course, the students will be able to:				Domain	BT Level*
1. Describe and apply basic concepts of contemporary computer technologies				C	1
2. Analyze human and social contexts of technological innovations				C	2
3. Apply the knowledge of various ICT components to create a prototype of a product/service				C	3
* BT= Bloom's Taxonomy, C=Cognitive Domain, P=Psychomotor Domain, A=Affective Domain					
Course Contents:					
Introduction to Information and Communication Technology (ICT); computer hardware and software fundamentals; operating systems and file management; Internet technologies and digital communication; computer networks and networking basics; cloud computing and online collaboration tools; office productivity applications; ICT applications in education, business, healthcare, government, and industry; fundamentals of cyber security, including information security principles, cyber threats, secure computing practices, authentication, encryption, and data protection; digital ethics, cyber laws, privacy, and intellectual property; emerging technologies including Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT), Blockchain, 5G, and Quantum Computing; and the use of ICT tools for research, professional communication, and collaborative learning.					
Teaching Methodology:					
Lectures, Written Assignments, Practical labs, Semester Project, Presentations.					
Course Assessment:					
Mid Term Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam.					
Reference Material:					
1. Introduction to Computers by Peter Norton, McGraw Hill Education; 6th International Edition. (2004). ISBN-10: 0672315327 2. Using Information Technology: A Practical Introduction to Computer & Communications by Williams Sawyer, McGraw Hill Learning Solution; 10th Edition. (2013). ISBN-10:0071317902 3. Computing Essentials 2017 by Timothy O'Leary and Linda O'Leary and Daniel O'Leary, McGraw Hill Education; 1st Edition. (2016). ISBN10: 1259737659					