

## Computer Courses – Electives

<b>Electives (44 - 48 Cr. Hr.)</b>				
<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Hours / Week</b>	
			<b>Lecture</b>	<b>Tutorial / Lab</b>
CS324	Web Technologies	4	4	-
CS326	Python Programming	3	2	2
CS362	Unix Systems Administration	5	4	2
CS415	Focusing Areas in ICT	2	2	-
CS427	Compiler Design	4	4	-
CS443	Advanced Database Systems	4	4	-
CS465	Network Administration	3	2	2
CS467	Parallel Processing	4	4	-
CS468	Mobile Applications	5	4	2
CS481	IT Research Methods	4	4	-
CS487	Simulation and Modeling	4	4	-
CS488	Artificial Intelligence	5	4	2
CS489	Computer Graphics	4	4	-
CS490	Enterprise Systems	5	4	2
CS491	E-Business Models	4	4	-
CS492	IT Service Management	4	4	-
CS493	Information System Strategy and Management	4	4	-
CS494	Telecom Management	4	4	-
CS495	IT Project Management	4	4	-
CS496	Computer Vision & Image Processing	4	4	-
CS497	Geographic Information Systems	5	4	2
CS498	Advanced GIS and Remote Sensing	5	4	2

## Working Schedule

### Course Breakdown for BSc in Computer Science program

Year I	Term I		Term II		Term III	
	Course Title	Cr.	Course Title	Cr.	Course Title	Cr.
	Calculus I	4	Calculus II	4	Fund. Concepts of Algebra	4
	Basic Writing Skills	4	Technical Report Writing	4	Numerical Analysis	4
	ICT Fundamentals	5	Introduction to UNIX	3	Database Management Systems	5
	Computer Programming I	5	Computer Programming II	5	Object Oriented Programming	5
Year II	Term I		Term II		Term III	
	Course Title	Cr.	Course Title	Cr.	Course Title	Cr.
	Statistics & Probability	4	Linear Mathematical Prog.	4	Accounting Principles I	4
	Python Programming	5	Web Design & Dev. I	5	IT Research Methods	4
	Windows Programming	5	Logic Design	4	Computer Org & Assembly Prog.	5
	Database Progr. & Admin.	4	Data Structures & Algo. Analysis	5	Systems Analysis & Design	4
Year III	Term I		Term II		Term III	
	Course Title	Cr.	Course Title	Cr.	Course Title	Cr.
	Accounting Principles II	4	Discrete Mathematical Prog.	4	Entrepreneurship	4
	Telecom Management	4	Unix Systems Administration	5	Network Administration	3
	Operating Systems	5	Computer Networks	5	Mobile Applications or GIS	5
	Web Design & Dev. II	4	Web Technologies	4	Artificial Intelligence	4
Year IV	Term I		Term II		Term III	
	Course Title	Cr.	Course Title	Cr.	Course Title	Cr.
	Supportive Elective 6	4	Focusing Areas in ICT	2	Senior Project / Industrial Project	6
	Computer Graphics or Remote Sensing	4/5	IT Project Management	4		
	Object Oriented Software Eng.	4	Computer Systems Security	5		
	Information Retrieval	4				