## COX 2108 INFORMATION TECHNOLOGY I (3 CU)

**Course Description**

This course introduces students to the history of computing; computers typology, data transmission and networks. The course shows how Information technology impacts on society and further discusses computer hardware, software and storage system. The course gives a details of Input /out devises, operating systems and their functions; computer communication systems, internet and intranet; system design and implementation; data Processing and Management.

The course is designed to provide students with the ability to understand basic concepts of Information technology that is the use of hardware software and computer networks in any business setting.

**Objectives or Aims**

The course will help the students to achieve the following objectives:

* understand types of information technology
* Describe computer hardware and software
* Explain different information technology systems.

**Learning Outcomes**

Students should be able to

* Use hardware and software in business applications
* Evaluate different information technology systems and skills applied in various business ventures
* Know the types of information
* Describe a computer hardware and software.
* Explain different information systems.

**Intellectual, Practical and Transferable Skills**

This course will enhance students' ability to create, edit and format documents; design, create, modify and format worksheets and workbooks; design databases and create, edit and modify database objects; design, create, enhance, organize and view presentations; use the Internet to navigate the Web using URL and Hyperlinks, to create and delete bookmarks, to compose, view, send, receive, and print e-mail messages, techniques for the design and construction of computer programs.

**Teaching and Learning Patterns**

* Use of Practical Examples
* class discussions
* Group presentations

**Indicative Content**

History of computing; An introduction to information technology--including information systems, individuals and machines, the global information economy, digital versus analog data transmission, and networks. Information technology tools and their societal impact; Computer hardware basics, including how a computer works data representation and coding; input media and devices; output media and devices; computer software; primary and secondary storage, operating systems, their functions; computer communication systems, internet and intranet; system design and implementation; data Processing and Management; managing the development of a data processing systems.

**Assessment Method**

The assessment method is structured to include coursework and final examination. Coursework consists of assignments, presentations and tests.

Course work assessment 30%

 Final Examination 70%

 100%

The minimum cumulative mark required to pass is 50%, is required to pass this unit. This includes course work and final examination. Each course in the programme is allowed a maximum of three hours for final examination.

**Core reading textbooks**

[*The Executive's Guide to Information Technology*](http://www.amazon.com/Executives-Guide-Information-Technology/dp/0470095210/ref%3Dpd_bbs_sr_1?ie=UTF8&s=books&qid=1208781567&sr=1-1) by John Baschab, Jon Piot, and Nicholas G. Carr (Hardcover - Mar 23, 2007)

[*Information Technology: Principles, Practices, and Opportunities (3rd Edition)*](http://www.amazon.com/Information-Technology-Principles-Practices-Opportunities/dp/0131436260/ref%3Dpd_bbs_sr_2?ie=UTF8&s=books&qid=1208781567&sr=1-2) by James A. Senn (Hardcover - Dec 1, 2003)

[*Fluency with Information Technology: Skills, Concepts, and Capabilities (3rd Edition)*](http://www.amazon.com/Fluency-Information-Technology-Concepts-Capabilities/dp/0321512391/ref%3Dpd_bbs_sr_3?ie=UTF8&s=books&qid=1208781567&sr=1-3) by Lawrence Snyder (Paperback - Oct 22, 2007)

[*Information Technology for Management: Transforming Organizations in the Digital Economy*](http://www.amazon.com/Information-Technology-Management-Transforming-Organizations/dp/0471787124/ref%3Dsr_1_4?ie=UTF8&s=books&qid=1208781567&sr=1-4) by Efraim Turban, Dorothy Leidner, Ephraim McLean, and James Wetherbe (Hardcover - Mar 5, 2007)

[*Information Technology Project Management, Fifth Edition*](http://www.amazon.com/Information-Technology-Project-Management-Fifth/dp/1423901452/ref%3Dsr_1_5?ie=UTF8&s=books&qid=1208781567&sr=1-5) by Kathy Schwalbe (Paperback - Jul 5, 2007)

[*Managing Information Technology (6th Edition)*](http://www.amazon.com/Managing-Information-Technology-Carol-Brown/dp/0131789546/ref%3Dsr_1_6?ie=UTF8&s=books&qid=1208781567&sr=1-6) by Carol V Brown, Daniel W. DeHayes, Jeffrey A. Hoffer, and Wainright E. Martin (Hardcover - Mar 22, 2008)

[*Information Technology for Management: Transforming Organizations in the Digital Economy*](http://www.amazon.com/Information-Technology-Management-Transforming-Organizations/dp/0471705225/ref%3Dsr_1_9?ie=UTF8&s=books&qid=1208781567&sr=1-9) by Efraim Turban, Dorothy Leidner, Ephraim McLean, and James Wetherbe (Hardcover - Feb 7, 2005)