STUDY AREAS

B.App.Sci. (Information Technology) (BP162)

BP162 Electives are divided into the following 6 areas:

1. Databases
2. Networking, Operating Systems, and Computer Technology
3. Software Engineering
4. Object-Orientation and Advanced Programming
5. Web Computing and Graphics
6. Computing Theory and Artificial Intelligence

DATABASES

- ISYS1067 File Structures and Database Systems
- ISYS2034 Implementation of Database Applications
- ISYS1126 Web Database Applications

NETWORKING, OPERATING SYSTEMS, COMPUTER TECHNOLOGY

- COSC1111 Foundation of Data Communications and Networks
- COSC1133 UNIX Systems Administration (LINUX)
- COSC1171 Foundations of Distributed Computing
- COSC1179 Network Programming
- COSC1235 Broadcast Network Engineering
- COSC1135 Client Server Architectures
- COSC2058 Advanced Data Communications and Networks
- COSC2353 Electronic Commerce & Enterprise Systems

SOFTWARE ENGINEERING

- COSC1121 Software Engineering 1B
- ISYS1110 Software Engineering 2
- ISYS1108 Engineering Software Projects

OBJECT-ORIENTATED and ADVANCED PROGRAMMING

- COSC1253 Object-Orientated Programming
- COSC1221 User Interface Programming
- COSC1187 Interactive 3D Graphics & Animation
- COSC1214 Web Media Technologies
- COSC1179 Network Programming
**WEB and GRAPHICS**

- COSC1214 Web Media Technology
- COSC1221 User Interface Programming
- COSC1187 Interactive 3D Graphics & Animation
- INTE1113 Web 3D Programming
- ISYS1126 Web Database Applications
- COSC1299 Web Page Construction
- COSC1301 Web Servers and Web Technology
- COSC2104 Document Mark-Up Language
- COSC1226 Real-Time Rendering & 3D Games

**COMPUTING THEORY and ARTIFICIAL INTELLIGENCE**

- COSC1107 Computing Theory
- COSC1127 Introduction to Artificial Intelligence
- COSC1204 Agent-Oriented Programming & Design
- COSC2269 AI Tools and Development Technologies
- COSC1207 Evolutionary Computing
- COSC2205 Parallel Computing
- COSC1229 Computational Science

**OTHER ELECTIVES**

As part of the B.App.Sci. (IT) program, students are allowed to choose two Business Computing courses (from The Faculty of Business). A list of the courses is as follows.

- ISYS1041 Systems Implementation 1
- ISYS2049 Systems Implementation 2
- INTE1063 Computer Security and Computer Systems Audit
- ISYS1047 Decision Support Systems
- INTE2046 E-Commerce Technology II

(Please note that the above courses are not guaranteed to be available for IT students. Students who wish to enrol a business computing course are advised to consult the school of Business Computing to confirm availability before enrolling in the course)