Program Philosophy

This intensive program is designed for students who have obtained their Bachelor’s degree in science, commerce, arts or management and wish to build a professional career in Information Technology. The courses have been carefully designed to take the student through from basic concepts to current practice in industry, and hands-on laboratory experience is emphasized at every stage of the program.

Profile of the Graduate of this program

At the end of this intensive two-year program, it is expected that a Graduate of the program will be well-trained in three important and complementary requirements for building a successful IT career. These are: a sound theoretical foundation; an ability to analyze, conceptualize and design systems; and fluency with modern software design and development tools. With these abilities, a Graduate of this program can expect to build a satisfying career in the challenging field of Information Technology – as software engineer, analyst, system designer, team leader.

List of Courses
(NB: Exact credit structure and sequencing of courses subject to review.)

**Semester I**
- IT612 Database Design & 3–0–4–5
- IT613 Computer Organization 3–0–2–4
- IT614 Programming Paradigms 3–0–4–5
- PC612 Communication 2–0–0–2 - P/F
- SC611 Mathematics 3–1–0–4

Total credits: 20
Hours per week: 25

**Semester II**
- HM621 Network Economy and Society 3–0–0–3
- IT623 Algorithms and Data Structures 3–0–2–4
- IT625 Programming Laboratory I 2–0–4–4
- IT631 Object-Oriented Analysis & Design 3–0–2–4
- IT694 Computer Networks 3–0–2–4

Total credits: 19
Hours per week: 21

Summer Internship (on-campus) 04 credits
**Semester III**
HM601 Principles of Management 3-0-0-3
IT626 Programming Laboratory - II 1-0-4-3
IT632 Software Engineering 3-0-2-4
Technical Elective I 3-0-0-3 (min)
Technical Elective II 3-0-0-3 (min)
Total credits: 16 (min)
Hours per week: 19 (min)

**Semester IV**
PC641 MSc-IT Project - 16 credits
Credits required for graduation: 75 (min)