

**SCHOOL OF ELECTRONIC ENGINEERING**

**AND COMPUTER SCIENCE**

**PROGRAMME DESCRIPTOR 2024-2025**

**BSc Computer Science with Management (ITMB) (3 years): I9N1**

**Please note that this programme has a compulsory first year module diet, a second year compulsory module diet and a Core final year Project**

**Year 1 Modules**

**Semester 1**

ECS401U Procedural Programming (15 credits) (pre requisite for ECS505U Software Engineering, ECS522U Graphical User Interfaces, ECS605U Image Processing, ECS610U Computer Graphics)

ECS404U Computer Systems and Networks (15 credits)

ECS427U Professional and Research Practice (15 credits)

BUS001 Fundamentals of Management (15 credits) (replacing BUS024 Fundamentals of Management (15 credits) 24-25)

**Semester 2**

ECS414U Object Oriented Programming (15 credits) (pre requisite for ECS605U Image Processing, ECS639U Web Programming, ECS652U Compilers,

ECS657U Multi-platform Game Development, ECS658U Further Object Oriented Programming)

ECS417U Fundamentals of Web Technology (15 credits)

ECS419U Information Systems Analysis (15 credits)

BUS017 Economics for Business (15 credits)

**Year 2 Modules**

**Semester 3**

ECS505U Software Engineering (15 credits) (pre requisite ECS401U) (pre requisite for ECS506U Software Engineering Project)

ECS519U Database Systems (15 credits) (pre requisite for ECS671U Semi Structured Data Engineering)

ECS531U Business Modelling (15 credits)

BUS245 Financial Markets and Securities (15 credits) replacing BUS021 Financial Accounting (15 credits) 24-25)

**Semester 4**

ECS506U Software Engineering Project (15 credits (pre requisite ECS505U)

ECS508U Business Information Systems (15 credits)

ECS524U Internet Protocols and Applications (15 credits)

BUSXXX Introduction to Marketing and Communications (15 credits) (replacing BUS011 Marketing (15 credits) 24-25)

ECS620U Summer Internship (to be offered between penultimate and final year)\* (15 credits) (elective)

**Final Year Modules**

**Semester 5**

ECS635U Project (30 credits) **Core**

ECS609U Project Risk Assessment (15 credits)

BUS359 Contemporary Strategic Analysis (15 credits)

**Plus one module from:**

ECS607U Data Mining (15 credits)

ECS639U Web Programming (15 credits) (pre-requisite ECS414U)

ECS671U Semi-Structured Data Engineering (15 credits) (pre –requisite ECS519U)

**Semester 6**

ECS635U Project (cont) (30 credits) **Core**

ECS655U Security Engineering (15 credits)

**Plus one module from:**

BUS324 The Management of Human Resources (15 credits)

ECS622U Product Development (15 credits)

**Plus one module from:**

ECS637U Digital Media and Social Networks (15 credits)

ECS647U Bayesian Decision and Risk Analysis (15 credits)

ECS656U Distributed Systems (15 credits)

ECS661U User Experience Design (15 credits)

**Elective modules are subject to timetabling constraints and module availability.**

**5 January 2024**