

IT7001

Systems Analysis and Design



Course Aim To develop students' abilities to analyse simple and complex information systems, model business and systems requirements, and document logical and physical design solutions by using appropriate methods, techniques, tools and industry standards.

Short Title SAD
Faculty EDICT

Credits 15
Pre-requisites IT6005 (ITB5005)
Co-requisites None
Anti-requisites None

Version 6

Effective From February 2018

Level 7
Student Contact hrs 90
Self-directed hrs 60
Other directed hrs 0
Total learning hrs 150

Learning Outcomes On successful completion of this course, students will be able to:

- 1 Perform feasibility analysis to recommend the optimal solution for a new system.
- 2 Produce a set of documents and models for a new system by applying fact finding, problem solving and object-oriented analysis modelling techniques and by using appropriate software tools.
- 3 Demonstrate understanding of the concepts and basic principles of system development to meet client requirements.
- 4 Produce a physical design specification for a new system by applying object-oriented design modelling techniques and using appropriate software tools.
- 5 Critically analyze the work of self and teams in a collaborative environment

NQF Sub-strand

Practical
Application of
knowledge
Practical
Application of
knowledge
Theoretical
Understanding
Practical
Application of
knowledge
Autonomy,
Responsibility,
Context