Course unit title:	System Analysis and Design
Course unit code:	CSC 318
Type of course unit (compulsory, optional)	Optional
Level of course unit:	Bachelor (1st Cycle)
Year of study:	3
Semester when the course unit is delivered:	1 or 2
Number of ECTS credits allocated:	6
Name of lecturer(s):	Dr Marcos Marcou/ Dr Andriani Piki
Learning outcomes of the course unit:	• Describe the phases of the fundamental systems development life cycle (SDLC), and the various project methodologies that can be used to structure the development of a project. • Evaluate the suitability of a project methodology based on project characteristics. • Assess technical, economic and organisational feasibility. • Discuss project management of an information system. • Produce and manage a project work plan using project planning software. • Describe basic concepts of the object approach and the Unified Modelling Language (UML). • Construct designs using various UML diagrams including Use Case diagrams and specifications, class, sequence, and behavioural state machine diagrams using modelling software.
Mode of delivery:	Face-to-face
Prerequisites and co-requisites:	None
Recommended optional programme components:	None
Course contents:	This course provides a comprehensive, balanced and up-to-date coverage of systems analysis and design. Students will learn about the concepts, techniques and approaches required to develop systems effectively and efficiently. Students will acquire a set of skills that all analysts must possess – from gathering requirements and modelling business needs, to creating prototypes of how a system should be built.
Recommended or required reading:	**Required reading:** Dennis, A., Wixom, B., and Roth, R. (2010). *Systems Analysis Design*. 4th Edition, John Wiley & Sons. **Recommended reading:** Roques. (2007). *UML in Practice*, Wiley.
Planned learning activities and teaching methods:	Lectures, teamwork, homework, laboratory exercises.
Assessment methods and criteria:	Class Participation: 5% Assignment: 10% Mid-Term Test: 15% Final Examination: 70%
Language of instruction:	English
Work placements:	None