

Module: Business Process Modelling 361

Module name:	Business Process Modelling 361
Code:	BPM361
NQF level:	6
Type:	Speciality – Diploma in Information Technology (Business)
Contact Time:	42 hours
Structured time:	7 hours
Self-directed time:	21 hours
Notional hours:	70 hours
Credits:	7
Prerequisites:	SYA361; BAN361

Purpose

The course is about modelling business processes using standard graphical and XML representations with execution in mind. The course will provide students with the knowledge and skill set to demonstrate standard ways to code rigorous processes considered the centrepieces of a service-oriented architecture. At the end of the course, students will be able to understand the different design patterns, the underlying theories, and best practices specific to Business Process Modelling.

Outcomes

Upon successful completion of this module, the student will be able to:

- Describe BPM concepts, the nature of a process, and a process-oriented application.
- Isolate the major standards based on XML and other graphical notations, and describe each in detail.
- Develop substantial examples using tools that are available for free and run these tools on an average PC or laptop.

Assessment

Assessment is performed using the following instruments:

- Continuous evaluation of theoretical work through two written assignments, a formative, and a summative test.
- Final assessment through a written examination.

Teaching and Learning

Learning materials

Prescribed books (EBSCO)

-  **Essential Business Process Modeling. O'Reilly Media; 1st edition (September 13, 2005) [ISBN 13: 978-0596008437]**

Learning activities

This course will be taught through the presentation of theoretical concepts, exercises, and discussions. It is case study-oriented with a practical approach, with mandatory assignments which must be completed during the course.

Notional learning hours

Contact	Distance	Other	Type of learning activities	% Learning
y	y	n	Lectures (face-to-face, limited interaction or technologically mediated)	40%
y	y	n	Tutorials: individual groups	20%
n	y	n	Syndicate groups	10%
n	y	n	Independent self-study of standard texts and references (study guides, books, journal articles)	10%
n	y	n	Independent self-study of specially prepared materials (case studies, multi-media, etc.)	20%

Syllabus

- Introduction to business process modeling
- Prescription for a good BPM architecture
- Process theory
- Process design patterns
- Business Process Execution Language (BPEL)
- BPMI standards; BPMN and BPML
- The workflow management coalition
- World Wide Web Consortium (W3C)
- Other BPM models