**U SE TU**

Ollscoil
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South East
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# Module Descriptor

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# Business Information Systems and Processes (Computing and Mathematics)

# Business Information Systems and Processes
## (A13084)

**Short Title:**  BIS and Processes
**Department:**  Computing and Mathematics
**Credits:**  5                          **Level:**        Introductory

## Description of Module / Aims

This module explores organisational structures and the generic business functions within those structures; globalisation and its impact on organisational structures is also key theme. Major generic business processes and how they are mapped will be addressed. Organisational information management and the information systems that support business processes will also be explored.

## Programmes

| | stage/semester/status |
|---|---|
| COMP-0600  BSc (Hons) in Software Engineering (WD_KDEVP_BI) | 1 / 2 / M |
| COMP-0600  BSc (Hons) in Software Systems Development (WD_KDEVP_B) | 1 / 2 / M |
| COMP-0600  BSc in Information Technology (WD_KINFT_D) | 1 / 2 / M |
| COMP-0600  BSc in Software Systems Development (WD_KCOMC_D) | 1 / 2 / M |

## Indicative Content

- Functional organisations and their advantages and disadvantages
- Process-driven organisations and their advantages and disadvantages
- The effects of globalisation on modern business structures
- Key generic business functions: Operations; logistics; inventory management; sales; accounts; HR; purchasing
- Key generic business processes: Procurement; production; fulfilment
- Business process mapping
- Organisational data and information
- The functions and roles of information systems

## Learning Outcomes

*On successful completion of this module, a student will be able to:*

1. Explain the roles of typical business functions.
2. Discuss the impacts of globalisation on modern businesses.
3. Explain generic business processes and their interconnections.
4. Map business processes using appropriate techniques.
5. Describe the importance of information quality within organisations.
6. Summarise the functions and roles of organisational information systems.

## Learning and Teaching Methods

- This module will be presented using a combination of formal lectures and practical classes.
- Lectures will introduce concepts and an emphasis will be placed on interaction, discussions and in-class exercises.
- In practical classes, students will engage with business process mapping techniques and will work on case studies and exercises.

## Learning Modes

| Learning Type | F/T Hours | P/T Hours |
|---|---|---|
| Lecture | 36 | |
| Practical | 12 | |
| Independent Learning | 87 | |

## Assessment Methods

| | Weighting | Outcomes Assessed |
|---|---|---|
| Final Written Examination | 50% | 1,2,3,6 |
| Continuous Assessment | 50% | |
|     Group Project | 25% | 2 |
|     In-Class Assessment | 25% | 4,5 |

## Assessment Criteria

*<40%:* Unable to interpret and describe key concepts of the specific knowledge domain(s). The student cannot explain basic business information systems and process concepts.

*40%–49%:* Be able to interpret and describe key concepts of the specific knowledge domain(s). The student gives basic but accurate explanations of processes and systems but they are not supported with examples or cases.

*50%–59%:* Ability to discuss key concepts of the specific knowledge domain and ability to discover and integrate related knowledge in other knowledge domains. The student gives accurate explanations of concepts with brief outlines of examples and cases.

*60%–69%:* Be able to solve problems within the specific knowledge domain(s) by experimenting with the appropriate skills and tools. The student explains business process & information systems concepts and links some theory to practice.

*70%–100%:* All the above to an excellent level. Be able to analyse and design solutions to a high standard for a range of both complex and unforeseen problems through the use and modification of appropriate skills and tools. The student clearly explains all concepts and provides a very clear link between theory and practice utilizing many examples and cases.

## Supplementary Material(s)

- Laudon, K. and J. Laudon. *Management Information Systems: Managing the Digital Firm.* 14th ed.. New York: Pearson, 2016.
- Magal, S. and J. Word. *Integrated Business Processes with ERP Systems.* New Jersey: Wiley, 2012.
- Rainer, R., B. Prince and C. Cegielski. *Introduction to Information Systems.* 5th ed.. New Jersey: Wiley, 2014.

## Requested Resources

- Room Type: Computer Lab