BUCKINGHAM



MODULE SPECIFICATION

Name of Module	Introduction to Computer Systems						
Parent School/Dept	Computer Science/Information Systems						
Programme(s) where module is offered	BSc Comput BSc Comput BSc Comput BSc Comput BSc Informa BSc Informa BSc Informa BSc Informa BSc Informa	BSc Computer Science with Electrical Engineering; BSc Computer Science with Economics; BSc Computer Science with Business; BSc Computer Science with International Relations; BSc Computer Science with Political Science; BSc Information Systems with Electrical Engineering; BSc Information Systems with Economics; BSc Information Systems with Business; BSc Information Systems with International Relations;					
Status (core, option, free choice)	Core		Pre-Requisite Modules or Qualifications		None		
FHEQ 4	Unit Value	8 ECTS	Module	CS120	Module	Emir Ganic	
Level			Code		coordinator		
Semester taught	Autumn		Applicable From		2016		

Educational Aims of the Module

The overall aim of this module is to introduce students to the fundamental concepts and principles of computer and information systems. In particular, it introduces the basic Information Technology (IT) concepts such as hardware, software, data, telecommunications and networks. It also provides an understanding of the role and value of Information Systems (IS) in business, describes different types of IS and their functionalities, and the methods and tools used to develop and manage Computer and Information Systems in organizations. Furthermore, this module also takes in consideration business prospective of performing e business transactions. It introduces students about different business revenue models, selling strategies and payment options that need to be considered in e-business environment.

Module Outline/Syllabus

- An Introduction to Information Systems
- Information Systems in Organizations
- Hardware: Input, Processing and Output Devices
- Software: Systems and Application Software
- Database Systems, Data Centers and Business Intelligence
- Telecommunications and Networks
- The Internet, Web, Intranets and Extranets
- Electronic and Mobile Commerce
- Enterprise Systems
- Information and Decision Support Systems
- Knowledge Management and Specialized Information Systems
- Systems Development
- Systems Investigations and Analysis
- Systems Design, Implementation and Maintenance
- Green Computing
- E-business components

Student Engagement Hours			
Туре	Number per Term	Duration	Total Time
Lectures	30	2 hours	60 hours
Laboratory sessions	15	2 hours	30 hours
Total Guided/Independent Learning Hours 110			110
Total Contact Hours 90			90
		Total Engagement Hours	200

Assessment Method Summary				
Туре	Number Required	Duration / Length	Weighting	Timing/Submission Deadline
Test	3	45 minutes	10%	Weeks 4, 8, 12
Project (group)	1	2,000 words	10%	Semester-long
Lab assignment	10	90 minutes	10%	Semester-long
Mid-term exam	1	90 minutes	20%	Week 9
Final Exam	1	180 minutes	50%	End of semester

Module Outcomes			
Int	ended Learning Outcomes:		Teaching and Learning Strategy:
1. 2. 3. 4. 5.	Understanding of basic hardware, software and network components. Understanding of data representation. Understanding of types of computer and information systems. Introduction to computer and information system development lifecycle. Introduction to security and ethics in computer and information systems. Understand the meaning and purpose of green	\rightarrow	 Lectures on module material. Practical demonstration of hardware and network components during lectures or labs. Laboratory sessions with appropriate tolls and practical problems and exercises. Group projects enabling students to develop communication and research skills and apply what they have learnt in the module to a practical problem.
	computing.	→	Assessment Strategy1. Test (ILO:1-3)2. Mid-term exam (ILO:1-3)3. Final exam (ILO:1-6)4. Lab assignment (ILO:4,5)5. Project (ILO:1-6)
Pra	actical Skills		Teaching and Learning Strategy:
1. 2.	Ability to identify hardware components and put together computer systems. Ability to analyse a given practical problem and suggest the right information system based on	\rightarrow	 Lectures on module material. Practical demonstrations. Laboratory sessions
3.	the required performance parameters. Ability to analyse business processes and their information system needs.	\rightarrow	Assessment Strategy 1. Lab assignment (ILO:3) 2. Project (ILO:1-3)
Tra	ansferable Skills		Teaching and Learning Strategy:
1. 2. 3. 4.	Communication skills Presentation skills Team work: ability to collaborate and solve problems in team projects. Research and report writing skills	\rightarrow	 In-class communication Reading and exercises during laboratory sessions Reading and in class practice Participation in group project
			Assessment Strategy
		\rightarrow	 Test (ILO:4) Mid-term exam (ILO:4) Final exam (ILO:4) Lab assignment (ILO:2-4) Project (ILO:1-4)

Key Texts and/or other learning materials

 Ralph Stair, George Reynolds, (2015) Principles of Information Systems, second Edition. Cengage Learning

Supplementary Materials

- Wallace, P., (2015), Introduction to Information Systems, Pearson
- Rainer, K., et al., (2014), Introduction to Information Systems, International Student Edition, Wiley
- Brookshear, G., Brylow, D., (2014), Computer Science: An Overview, Global Edition, Pearson
- Laudon, K., Traver, C., (2019) E-commerce 2019: Business, Technology, Society. 15th Edition. Pearson
 Information Systems and e-Business Management (Journal), (2019),
- http://www.springer.com/business+%26+management/business+information+systems/journal/10257 (Accessed 16th July 2019)
- Additional Reading to be advised

Please note: This specification provides a concise summary of the main features of the module and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module and programme can be found in the departmental or programme handbook. The accuracy of the information contained in this document is reviewed annually by the University of Buckingham and may be checked by the Quality Assurance Agency.

Date of Production	Spring 2019	
Date approved by School Learning	28 th September 2016	
and Teaching Committee		
Date approved by School Board of	12 th October 2016	
Study		
Date approved by University	2 nd November 2016	
Learning and Teaching Committee		
Date of Annual Review	December 2017	