

1. Course Code	D31MI	2. Course Title	Construction Practice and Information Technology			3. SCQF Level	11	4. Credits	15
5. School	School of the Built Environment				6. Course Co-ordinator	Dr Ibrahim Motawa			
7. Delivery: Location & Semester	Edin <input checked="" type="checkbox"/>	SBC <input type="checkbox"/>	Orkney <input type="checkbox"/>	Dubai <input checked="" type="checkbox"/>	IDL <input checked="" type="checkbox"/>	Collaborative Partner <input type="checkbox"/>	Approved Learning Partner <input checked="" type="checkbox"/>		
	Sem...2..	Sem.....	Sem.....	Sem...2.....	Sem..2..	Name.....Sem.....	Name Sem 1/2/3		
8. Pre-requisites	None								
9. Linked Courses (specify if synoptic)	None								
10. Excluded Courses	None								
11. Replacement Courses	Code:				12. Degrees for which this is a core course		None		
	Date Of Replacement:								
13. The course may be delivered to:	UG only <input type="checkbox"/>		PG only <input checked="" type="checkbox"/>		UG & PG <input type="checkbox"/>		14. Available as an Elective?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
15. Aims	<ul style="list-style-type: none"> ▪ To provide an insight into the development of information systems in construction industry ▪ To evaluate the use of modern ICT means which have an impact on business performance in construction ▪ To study relevant IT concepts and appraise its applicability to construction process re-engineering ▪ To develop adequate research skills in reviewing and preparing academic publications 								
16. Syllabus	<ul style="list-style-type: none"> ▪ Management Information systems for integrated work environment ▪ Electronic Documents Management ▪ Development strategy for information systems ▪ Introduction to IT Infrastructure and EDI ▪ E-business in construction ▪ Building Information Modelling (BIM) ▪ Mobile computing in construction ▪ Smart/Intelligent Building ▪ Information systems and Knowledge Management ▪ IT-ethics and human-IT relationship 								

17. Learning Outcomes (HWU Core Skills: Employability and Professional Career Readiness)

Subject Mastery	Understanding, Knowledge and Cognitive Skills		Scholarship, Enquiry and Research (Research-Informed Learning)	
	On completion of the course, students will be able to: <ul style="list-style-type: none"> ▪ Appraise the contemporary approach for information systems and their functions within organisations ▪ Assess the need for an information system and plan its development and implementation in construction organisations ▪ Identify the role of Knowledge Management in construction ▪ Recognise the need for standards and protocols to develop integrated information systems 		On completion of the course, students will be able to: <ul style="list-style-type: none"> ▪ Investigate and identify the functionality of the IT Infrastructure suitable for certain business objectives 	

Personal Abilities	Industrial, Commercial & Professional Practice	Autonomy, Accountability & Working with Others	Communication, Numeracy & ICT	
	The learner will develop: <ul style="list-style-type: none"> ▪ Awareness of key issues of strategic IT management for business communications ▪ Creative exploitation of advanced information technologies to support business processes • Ability to deal with human and ethical issues relevant to IT usage. 	The learner will develop: <ul style="list-style-type: none"> • Ability to identify IT approaches to solve managerial and technical problems in a collaborative environment 	The learner will: <ul style="list-style-type: none"> • explicitly demonstrate and develop good inter-personal and problem solving skills 	

18. Assessment Methods	19. Re-assessment Methods
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Method	Duration of Exam (if applicable)	Weighting (%)	Synoptic modules?	Method	Duration of Exam (if applicable)
Coursework	----	100%	No	Coursework	----

20. Date and Version

Date of Proposal	June 2011	Date of Approval by School Committee		Date of Implementation	September 2011	Version Number	1.00
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