	Ministry of Higher Education and Scientific Research - Iraq University of Technology Department of Computer Science Information System Branch	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	SYSTEM ANALYSIS AND DESIGN			**Module Delivery**	
Module Type	CORE			**-Theory Lecture** **-Lab** **-PracticalSeminar**	
Module Code	SYAD215				
ECTS Credits	5				
SWL (hr/sem)	125				
Module Level	2		**Semester of Delivery**	3	
Administering Department	Computer science		**College**	Computer science	
Module Leader	Sarah JM		**e-mail**	Sarah.j.mohammed@uotechnology.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Msc.	
Module Tutor	None		**e-mail**	None	
Peer Reviewer Name			**e-mail**		
Review Committee Approval			**Version Number**		

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	– The objective of this course is to provide adequate understanding of syste concept, system analysis, and systems design, which would help them in hav efficient and workable information system for management. - Developing the student's ability to work in the field of information syste management in terms of his ability to design new systems or develop old syste into modern systems for ministries, companies and organizations.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Training the student to identify the problems of the information system that needs to be developed 2. Training the student to prepare a feasibility study for the development 3. Training the student to analyze the old information system that needs to be developed (such as converting a paper system to an electronic system) 4. Training the student to design new systems instead of old systems that contain problems 5. Training the student to convert designs into software systems that can be implemented on the computer 6. Training the student on methods of monitoring and maintaining the systems that have been built
Indicative Contents المحتويات الإرشادية	
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	– Understanding the information system and the principles of systems analysis a design. – - Giving weekly lectures on building and designing various systems. -Linking information systems and business market management to provide integrated work environment

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	47	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	78		

Module Evaluation تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	1	10% (10)	5	LO # 1 to 2
	Practical Seminar(Lab).	2	15% (15)	Continuous	LO # 3 to 4
Summative assessment	**Midterm Exam**	1 hr	15% (15)	14	LO # 4 to 6
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	System Analysis Fundamentals: Introducing SA&D
Week 2	SA&D concepts, Roles of system analyst
Week 3	The system development life cycle, Using CASE tools.
Week 4	Depicting system graphically, Determining feasibility activity planning and control.
Week 5	Information requirements analysis: Sampling investigating data, Interviewing.
Week 6	Prototyping
Week 7	The analysis process Using data flow diagram.
Week 8	The analysis process :Using data dictionaries
Week 9	Describing process specifications and structured decisions; The system proposal.
Week 10	The essentials of design :designing output; designing input
Week 11	Designing the file or database :Designing the user interface
Week 12	Designing the file or database :Designing data
Week 13	Documenting the design phase
Week 14	Software engineering and implementation Quality assurance through software engineering;
Week 15	Implementing the information system
Week 16	**Final Exam**

Delivery Plan (Weekly Lab. Syllabus) **المنهاج الاسبوعي للمختبر**	
Week	
Week 1	Introducing access program and how to use it

Week 2	Identify the program's sections (Table, Query, Forms, Reports)
Week 3	Getting to know the program interface (all forms)
Week 4	Tables Create a table in the normal way Create a table using Design view
Week 5	Table editing tools
Week 6	Import data from Excel
Week 7	Field properties within the regular display interface
Week 8	Field properties within the Design view interface
Week 9	Input mask, Drop
Week 10	Restrict the entry using the Validation Roles tool
Week 11	Search and replace
Week 12	Filtering and arranging
Week 13	Linking tables Relationships

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	1. Laudon, K.C. and Laudon, J. P. (2014) *Management Information Systems*, thirteenth edition. Upper Saddle River, New Jersey: Pearson. 2. Valacich, J. and Schneider, C. (2010). *Information Systems Today – Managing in the Digital World*, fourth edition. Upper Saddle River, New Jersey: Prentice-Hall.	
Recommended Texts		
Websites		

APPENDIX:

GRADING SCHEME مخطط الدرجات				
Group	**Grade**	التقدير	**Marks (%)**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:				

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.