

Course Specifications



Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specification

Business Process Modeling 14023103-3



Course Specification

Institution	Umm Al Qura University	Date of Report: 07-1437 / 04-2016
College/Depa		
Colle	ege of Computers and Information Syster	ns
Info	rmation Systems Department	

A. Course Identification and General Information

1. Course title and code:				
Busin		cess Modeling		
	1402	3103-3		
2. Credit hours: 3 credits				
3. Program(s) in which the course is offered				
Information Systems, Bachelor of				
4. Name of faculty member responsible for				
5. Level/year at which this course is offered	1: 3rd y	/ear after preparatory / level 8		
6. Pre-requisites for this course (if any):				
	02-4 Op	erations Research		
7. Co-requisites for this course (if any)				
8. Location if not on main campus:	c			
Delivered in the four locations where the In		on Systems BSc 1s given:		
- Al Abidiyya main campus boys sec				
 Al Zahir main campus girls section, Al Qunfuda Boys section, 				
 Al Quintuda Boys section, Al Quintuda Girls section. 				
9. Mode of Instruction (mark all that apply)				
9. Wode of instruction (mark an mat appry)				
a. Traditional classroom	X	What percentage?	100%	
b. Blended (traditional and online)		What percentage?		
c. e-learning		What percentage?		
d. Correspondence What percentage?				
f. Other		What percentage?		
Comments:				



B Objectives

1. What is the main purpose for this course?

This course will introduce students to analytical tools that can be used to model, analyse, understand and design business processes. Students will also gain hands-on experience in using simulation software as a tool for analysing business processes.

Outcomes:

At the completion of this unit students will:

Have a thorough understanding of business organisations, their functional structure and the advantage of considering the process oriented view of organisations;

Demonstrate a thorough knowledge of business processes, their structure and how processes fit in to the overall organisation objectives;

Be able to use analytical tools for modeling, analysing, understanding and designing business processes;

Have acquired skills to use simulation software as a tool for analysing business processes;

Be able to report to and advise management on business process design and re-engineering issues

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

An adaptation can be done when reviewing the program.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1 Topics to be Covered		
List of Topics	No of Weeks	Contact hours
		per week
Business Process Context: Purpose and Process	1	2
Organizational Model of Processes	2	4
Building AS IS Models	2	4
Business Process Measures and Documenting Tasks	2	4
Evaluating and Improving Business Processes	2	4
Queuing Systems and Business Process Design	3	6
Business Process Simulation	2	4
Guest Lecture : A Case of Six Sigma Quality	2	4



2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	16		16			32
Credit	32		32			64

3. Additional private study/learning hours expected for students per week.

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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. **Fourth**, if any program learning outcomes are included in the course learning outcomes, place the *@* symbol next to it.

Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Master the fundamental principles and concepts and tools in the general area of Business Process modelling and Design	Course lectures, homeworks	QUIZ and online quiz EXAMS
1.2	Demonstrate a thorough knowledge of business processes, their structure and how processes fit in to the overall organization objectives;	Course lectures, homeworks	QUIZ and online quiz EXAMS
2.0	Cognitive Skills		
2.1	Be able to analyse and design business processes;	Lectures: Include use cases.	Quizzes and/or Online Quizzes,
		Textbook must illustrate	Midterm,
		concepts through use cases.	Final Exam
		Use case Project.	Project assessment.
3.0	Interpersonal Skills & Responsibility	Exercises & Home works ,	
3.1	N/A		
3.2			
4.0	Communication, Information Technology, Numer	ical	
4.1	Have acquired skills to use simulation software as a tool for analysing business processes;	Use case project with defence	Project defence assessment.
4.2	Be able to report to and advise management on business process design and re-engineering issues	Use case project with defence	Project defence assessment.
5.0	Psychomotor		
5.1	N/A		
5.2			

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise



Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider	Maximize	Continue	Review	Ensure	Enlarge	Understand
Maintain	Reflect	Examine	Strengthen	Explore	Encourage	Deepen

Some of these verbs can be used if tied to specific actions or quantification. Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

Assessment	Assessment task (eg. essay, test, group project, examination etc.)	Week due	Proportion of Final Assessment
1	Midterm Exam	8	20%
2	Quizzes	1 Each 4 weeks	10%
3	Project	15	20%
4	Lab Exam	15	10%
5	Final Exam	Exams week	40%

5. Schedule of Assessment Tasks for Students During the Semester



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

All faculty members are expected to include six weekly office hours. These office hours are displayed in each faculty's schedule and communicated to students.

E. Learning Resources

1. Required Text(s) : Managing Business Process Flows, Principles of Operations Management, Third Edition, Anupindi, Ravi, Sunil Chopra, Sudhakar D. Deshmukh, Jan A. Van Mieghem, and Eitan Zemel, Pearson Prentice Hall, 2012, ISBN-10: 0-13-603637-6

2. Essential References

Business Process Change, A Guide for Business Managers and BPM and Six Sigma Professionals, Second Edition, Paul Harmon, Morgan Kaufmann Publishers, 2007

3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)

- Wisner J D, Stanley L L. (2008). *Process Management Creating Value along the supply chain*. () Thomson South-Western Publishing.
- Havey, M. "Essential Business Process Modeling". O'Reilly Media, 2005. ISBN 0596008430.
- Laguna, M., Marklund, J. "Business Process Modeling, Simulation and Design". Prentice Hall, 2004. ISBN 0131099795.
- Scheer, A. W. "ARIS Business Process Modeling". Springer, 2000. ISBN 3540658351.

4-.Electronic Materials, Web Sites etc available academic resources and links to Dailymotion YouTube on line courses

5- Other learning material such as computer-based programs/CD, professional standards/regulations Most lab on computer systems

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (ie number of seats



in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Lecture rooms, laboratories, etc.) Lecture room

2. Computing resources Lab for Business Process:ARIS and INNOV8, Scitor Process Modelling Tools : MS Visio, Visual Architect

3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
End-of-term course/teacher evaluation for is to be completed by students at the end of the semester,
evaluating the content of the course, its teaching, the learning, assessment methods The monitoring of
these students feedback will allows the course quality improvement
2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department
Peer Evaluation Procedure
Instructor self-evaluation
3. Processes for Verifying Standards of Student Achievement (eg. check marking by an independent
faculty member of a sample of student work, periodic exchange and remarking of a sample of
assignments with a faculty member in another institution)
• Upon student request, his/her work might be remarked by another faculty member within the
department.
4 Processes for Improvement of Teaching
• (Self, Peer) Review, Identify, Analyse, and Revise
5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for
improvement.
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- Review and update course content
- Update course references
- Use students feedback

Faculty or Teaching Staff:	
Signature:	Date Report Completed:
Received by:	Dean/Department Head: Dr. Skander Turki
Signature:	Date: 07-1437 / 04-2016

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