

Form no. (11b)
Knowledge and skills matrix for E-commerce program

Course	Knowledge and understanding	Intellectual skills	Professional skills	General skills
CR115 Discrete Mathematics	<ul style="list-style-type: none"> • Use the scientific method of problem solving and decision-making in the various administrative levels. 	<ul style="list-style-type: none"> • Analyze mathematical calculation. • Use the creative thinking and creative in the face of the various administrative positions. 	<ul style="list-style-type: none"> • Identify the appropriate practical tools to solve some organizational problems. 	<ul style="list-style-type: none"> • Ability for critical thinking, reasoning and reflections.
CR216 E-commerce Technologies	<ul style="list-style-type: none"> • Identify major concepts, tools, techniques, and methods of electronic commerce, with a focus on the web. • Understand the fundamental concepts, principles and theories underpinning Electronic Business. 	<ul style="list-style-type: none"> • Ability to analyze the impact of e-marketplaces on organizations and industries. • Gain a good connection between E-commerce technology, E-commerce strategy, and marketing. 	<ul style="list-style-type: none"> • Ability to describe an EC security strategy, develop a secure payment gateway and discuss why a life cycle approach is needed and explain EC-related crimes and why they cannot be stopped. 	<ul style="list-style-type: none"> • Ability to generate, analyzes, present and interpret data.
CR416 Website Design	<ul style="list-style-type: none"> • Defining the principles of design and web design. • The ability to design interactive e-commerce sites. • Gain a theoretical knowledge and practical experiences in the fundamental aspects of designing, implementing and 	<ul style="list-style-type: none"> • Determining the importance of text in a multimedia presentation or website. • Participate in a multi-skilled design team in the development and evaluation of interactive systems, communicating with team 	<ul style="list-style-type: none"> • Evaluate the architecture of websites. • Defining the anatomy, grid systems and the most common layouts for web pages design. • Apply appropriate practical techniques to 	<ul style="list-style-type: none"> • Manage the user needs in a website. • Distinguish of the different design approaches. • Apply to plan one's own design approach. • Select Team Working

	evaluating interfaces.	<p>members and managing emergent design issues, problems and opportunities effectively.</p> <ul style="list-style-type: none"> • Present to clients, academics and managers key aspects of design and evaluation work and associated rationales, both orally and in written-report formats. • Use the creative thinking and creative in the face of the various administrative positions 	<p>basic website design, navigation, and construction.</p> <ul style="list-style-type: none"> • Apply design of systems and evidence of the various work 	Skills through participating in collaborative projects.
CR315 E-Business Strategies and Applications	<ul style="list-style-type: none"> • Identify major concepts, tools, techniques, and methods of electronic commerce and electronic business, with a focus on the web. • Apply plans, programs and policies according to the requirements of institutions. • Understanding of marketing fundamentals and Internet technologies. 	<ul style="list-style-type: none"> • Ability to analyze the impact of e-marketplaces on organizations and industries. • Gain a good connection between E-commerce technology, E-commerce strategy, and marketing. 	<ul style="list-style-type: none"> • Ability to describe an EC security strategy, develop a secure payment gateway and discuss why a life cycle approach is needed and explain EC-related crimes and why they cannot be stopped. 	<ul style="list-style-type: none"> • Ability to generate, analyzes, present and interpret data.
CR226/ CR227 Introduction to E-Business	<ul style="list-style-type: none"> • Understanding of marketing fundamentals and Internet technologies. 	<ul style="list-style-type: none"> • Gain a good connection between E-commerce technology, E-commerce 	<ul style="list-style-type: none"> • Ability to differentiate between E-commerce applications and discuss 	<ul style="list-style-type: none"> • Select Team Working Skills through participating in

		strategy, and marketing.	Concepts	collaborative projects. <ul style="list-style-type: none"> • Ability to manage time and resources within an individual project and a group project • Assess models of best practices in e-service delivery
CR425 New Trends in Web Development	<ul style="list-style-type: none"> • Understanding the nature of scripting and the role of scripting languages. 	<ul style="list-style-type: none"> • Demonstrate suitable algorithms using sequence, selection and iteration to model solutions. • Use the creative thinking and creative in the face of the various administrative positions. 	<ul style="list-style-type: none"> • Apply an object oriented web application framework. 	<ul style="list-style-type: none"> • Ability to generate, analyzes, present and interpret data.
CR327/CR328 Information System Project Management	<ul style="list-style-type: none"> • Gain a theoretical knowledge and practical experiences in the fundamental aspects of designing, implementing and evaluating interfaces. • Use Organizational communication and working relationships. • Apply the basis of stimulation and motivation to the development of others. 	<ul style="list-style-type: none"> • Demonstrate suitable algorithms using sequence, selection and iteration to model solutions. 	<ul style="list-style-type: none"> • Identify the appropriate practical tools to solve some organizational problems. 	<ul style="list-style-type: none"> • Apply Team Working Skills through participating in collaborative projects. • Ability to manage time and resources within an individual project and a group project

CR413 Mobile Commerce	<ul style="list-style-type: none"> • Understanding of marketing fundamentals and Internet technologies. 	<ul style="list-style-type: none"> • Use the creative thinking and creative in the face of the various administrative positions. 	<ul style="list-style-type: none"> • Interpret mobile design trends. 	<ul style="list-style-type: none"> • Ability to manage time and resources within an individual project and a group project.
CR326 Internet Marketing	<ul style="list-style-type: none"> • Understanding of marketing fundamentals and Internet technologies. • Summarize foundations and concepts of policies, strategies and plans and requirements used to meet the expectations of relevant parties of the Organization. 	<ul style="list-style-type: none"> • Gain a good connection between E-commerce technology, E-commerce strategy, and marketing. 	<ul style="list-style-type: none"> • Identify different type of internet marketing strategies 	<ul style="list-style-type: none"> • Ability to generate, analyzes, present and interpret data.
CR316 Internet Finance	<ul style="list-style-type: none"> • Demonstrate a greater ability for integration of academic and practical knowledge for understanding the evolution of E-Finance 	<ul style="list-style-type: none"> • Explain and assess the electronic finance evolution in financial industries. • 	<ul style="list-style-type: none"> • Experiment the effective use of financial services in a business context and to be able to prepare reports and make presentations. 	<ul style="list-style-type: none"> • Ability to generate, analyze, present and interpret data • Ability for critical thinking, reasoning and reflections
CR415 Information Security	<ul style="list-style-type: none"> • Summarize and Understand the basic principles of security 	<ul style="list-style-type: none"> • Estimate and describe on-going trends in security threats and countermeasures. • Use the creative thinking and creative in the face of the various administrative positions. 	<ul style="list-style-type: none"> • Ability to describe an EC security strategy, develop a secure payment gateway and discuss why a life cycle approach is needed and explain EC-related crimes and why they cannot be stopped. 	<ul style="list-style-type: none"> • Ability to generate, analyze, present and interpret data • Ability for critical thinking, reasoning and reflections.

<p>CR417 Intelligent Computing for Business</p>	<ul style="list-style-type: none"> • Defining the principles of design and web design. • The ability to critically approach the use of concepts, theories and literature as a means of analysis and resolving problems. 	<ul style="list-style-type: none"> • Ability to demonstrate the awareness of the limitation of scientific models in the description and representations of reality; and ability to apply modern principles to complex organizations' models and develop solutions to and secure systems problems. 	<ul style="list-style-type: none"> • Identify the appropriate practical tools to solve some organizational problems. 	<ul style="list-style-type: none"> • Ability for critical thinking, reasoning and reflections. • Ability to manage time and resources within an individual project and a group project.
<p>CR418 E-Logistics</p>	<ul style="list-style-type: none"> • Summarize of the dynamics of Enterprise Resource Planning (ERP) systems and Supply chain Management 	<ul style="list-style-type: none"> • Estimate the ability to apply e-Logistics philosophies and theories in to practice. 	<ul style="list-style-type: none"> • Identify the appropriate practical tools to solve some organizational problems. 	<ul style="list-style-type: none"> • Ability for critical thinking, reasoning and reflections.
<p>CR327 Graduation Project 1</p>	<ul style="list-style-type: none"> • Understand database technologies and their applications. • Understand and analyze the main computer concepts, theories and applications to solve business problems. • Understand the role of IT managers, the chief issues that influence IT investments decisions, and the implications of changing technologies. • Identify a business problem and formulating a solution 	<ul style="list-style-type: none"> • Modeling databases at conceptual and physical levels of design. • Analyze information and summarize the analytical outcomes to apply knowledge to address familiar and novel problems. 	<ul style="list-style-type: none"> • Construct database design based on the current problem requirement. • Development and implementation of a complete database system environment. • Implement and use information systems successfully by managers and define computer processing and storage capability needed to 	<ul style="list-style-type: none"> • Evaluate the difficulties of developing successful information systems in order to promote competitive advantage. • Evaluate different IS problems and applications. • Evaluate the business problems in order to formulate and implement change for improving the quality

	<p>using a logical problem solving technique.</p> <ul style="list-style-type: none"> • Define system requirements. • Project idea and chose project domain, and define a clear problem statement, system objectives, boundaries and business rules. • Getting familiar with development and designing tools. • Understand software engineering processes and management. Apply plans, programs and policies according to the requirements of institutions. • Apply the basis of stimulation and motivation to the development of others. 		<p>handle the business transactions.</p> <ul style="list-style-type: none"> • Apply IS concepts and techniques in varied business initiatives. • Apply appropriate practical techniques to the problem solution using Object oriented approach. • Create and use logical DFD to capture and analyze the current system. • Use OOAD to capture and analyze the current system • Experiment different Operating Systems. • Prepare feasibility studies and project evaluation. • Apply the systems and modern scientific methods in the field of Business Administration 	<p>of business decisions.</p> <ul style="list-style-type: none"> • Manage time and resources within an individual project and a group project. • Generate, analyze, present and interpret data.
CR429 Graduation Project 2	<ul style="list-style-type: none"> • Explain the ability to use of concepts, theories and 	<ul style="list-style-type: none"> • Ability to demonstrate the awareness of the limitation of 	<ul style="list-style-type: none"> • Evaluate the architecture of websites. 	<ul style="list-style-type: none"> • Ability to generate, analyzes, present and

	<p>literature as a means of analysis and resolving problems.</p> <ul style="list-style-type: none"> • Summarize foundations and concepts of policies, strategies and plans and requirements used to meet the expectations of relevant parties of the Organization. 	<p>scientific models in the description and representations of reality; and ability to apply modern principles to complex organizations' models and develop solutions to and secure systems problems.</p>	<ul style="list-style-type: none"> • Identify the appropriate practical tools to solve some organizational problems. • Prepare feasibility studies and project evaluation. • Apply the systems and modern scientific methods in the field of Business Administration 	<p>interpret data.</p> <ul style="list-style-type: none"> • Ability to manage time and resources within an individual project and a group project.
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