Course Description

Business Information Technology Courses

Academic Year 2022/2023

36101	Management Information Systems	Credit Hours: 3	Prerequisite: None
	This course offers information systems; their components, types and usage in the business world. Topics covered include databases, networking, systems development, data warehouses and analytics. In addition, it introduces the major enterprise systems: SCM, CRM, and ERP and explain their role in the business.		
36111	Computer Applications in Business	Credit Hours: 3	Prerequisite: None
	This course offers computer terminology, hardware, software, operating systems, and information systems in the business environment. Topics covered include word processing, spreadsheets, databases, presentation graphics, business-oriented utilization of the Internet, design of algorithms, and an introduction to 4th generation languages and methodologies. This practical course is given in the lab.		
36112	Business Applications Programming	Credit Hours: 3	Prerequisite: 11102
	This course offers high-level programming languages using one of the most common. The language is selected according to the business market's needs. Topics covered include syntax rules and structures, how data is processed using high-level programming language, compilation and implementation issues, files and storage mechanisms.		
36113	Business Applications Programming Lab	Credit Hours: 1	Prerequisite: None
	This the practical part of the "Business Applications Programming" course (36112). This course offers the students the best practices to develop business applications. The lab focuses on the object paradigm including classes, inheritance, functions, and templates in the development of object-oriented programs.		
36202	Web Development for Business Applications	Credit Hours: 3	Pre-requisite: 11102
	This course offers an overview of how websites function, their structure, and how to select a website name and an online host. It covers the design and creation of websites by exploring the HTML language. In addition, it includes a scripting language to make websites dynamic, cascading style sheets to graphically design, and layout webpages. Server-side web applications are also included at the end of the course.		

36203	Database Management for Business	Credit Hours: 3	Pre-requisite: 36101
	This course offers students with introduction to database management and covers the design and the development of efficient business information systems. Topics covered include data modeling; data integrity, SQL and the implementation of a database application are also covered in this course.		
36232	E-Business for Business Students	Credit Hours: 3	Pre-requisite: 36101
	This course offers the main concepts in e-commerce and e-business models with a focus on (B2B), (B2C) and (C2C). Topics covered include the creation of e-commerce site, overview of the technological infrastructure, software technologies for e-business, database solutions for e-business, e-payment methods as well as ethical and security issues.		
36251	Database Management for Business Lab	Credit Hours: 3	Prerequisite: None
	This is the practical part of the "Database Management for Business" course (36203). This course offers the design and the implementation of a complete database application for a specific business idea using a modern relational database management system. Topics covered include relations between entities, queries, forms and reports.		
36301	Business Data Communications	Credit Hours: 3	Pre-requisite: 36101
	This course offers the concepts of data communications and networking in the business context. Topics covered include the types and protocols of data communication networks with a focus on Open System Interconnection (OSI). In addition, the course covers some key concepts such as network and digital security, Internet of Things (IoT), and simulators to enable students to manage virtual networks.		
36312	Advanced Business Applications Programming	Credit Hours: 3	Pre-requisite: 36112, 36202
	This course offers the basics of python programming environment, including fundamental python programming techniques. Topics covered include introduce data manipulation and cleaning techniques using the popular python library, and how to import and export Data in Python.		
36316	Analysis and Design of Information System	Credit Hours: 3	Pre- requisite: 36203
	This course offers the concept of information systems, levels of meaning: data, information and knowledge. It also introduces Information Systems (IS), managerial levels and types of IS. Topics covered include the different approaches to develop an information system and the principles of IT project management. In addition, it covers the system development life cycle with a focus on both analysis and design phases.		
36334	Decision Support Systems	Credit Hours: 3	Pre-requisite: 36101
	This course offers the overall decision-making process and how it can be supported by means of decision support systems (DSS). The course demonstrates the importance of business analytics at the different levels (descriptive, predictive, and prescriptive) in DSS. Topics covered include data warehouse, business intelligence, modeling, decision analysis.		

36336	Enterprise Resource Planning Systems (ERP)	Credit Hours: 1	Pre-requisite: 36203
	This course introduces the architecture, setup, configuration, operations and management of information systems that is of "enterprise class". Topics covered include fundamentals of business processes, process re-engineering, selection, process mapping, GAP analysis, and the implementation of enterprise systems. The course spots the light on how ERP modules can facilitate executing business processes in a specific department such as sales and marketing, Accounting, production, supply chain. Moreover, it includes how to manage the organizational changes when adapting an ERP system within a company.		
36339	Knowledge Management Systems	Credit Hours: 3	Pre-requisite: 33101, 36101
	This course offers the concepts of Knowledge management and forces driving knowledge management systems. Topics covered include the issues in knowledge management, knowledge management systems solutions and foundation, knowledge organizations, knowledge management systems infrastructure, Knowledge management systems technologies, developing knowledge application systems, and types of knowledge application systems.		
36357	Enterprise Resource Planning Systems Lab	credit hours: 1	Prerequisite: None
	This is the practical part of the "Enterprise Resource Planning Systems" course (36336). This course offers enabling the students to explore and apply the main modules covered in the ERP course such as sales and marketing, supply chain, production, material management and purchase.		
36395	Training	Credit Hours: 3	Pre-requisite:- 80 Credit Hours
	This course offers students the opportunity of transforming their theoretical knowledge into practical application via an internship at an organization in the field of Electronic -Marketing. This course ensures that students develop their technical as well as their professional skills.		
36402	Information Security	Credit Hours: 3	Pre-requisite: 36301
	This course offers the basic concepts in information security. Topics covered include cryptography primitives, security protocols, systems security, digital watermarking, public digital signature, and authentication. In addition, it covers related topics and their applications such as e-mail security, e-commerce security and network security.		
36404	Business Intelligence Systems	Credit Hours: 3	Pre-requisite: 36203
	This course offers the concepts of Business Intelligence (BI) systems. It is focused on the role of BI in supporting the decision-making process. Topics covered include components of BI systems, data warehousing, multi-dimensional analysis, data mining. In addition, it presents the applications of BI in the different fields and its current trends. The course includes a practical part, which covers some of the most popular BI systems such as OLAP, Tableau and QlikView.		

36405	Mobile Business Applications	Credit Hours: 3	Pre-requisite: 36112
	This course is offers the focus on the mobile applications for in the business fields. It defines the top mobile systems and applications that are used in business. Moreover, it describes the way that these applications work and how to build these applications using specialized programs. This is a practical course, which is given in the lab to enable students to develop simple mobile applications from the business field.		
36415	Cloud Computing	Credit Hours: 3	Pre-requisite: 36203
	The course offers several topics in cloud computing. It reviews previous traditional computing models and their role in the emergence of the cloud-computing model. It also discusses the various service and deployment models in cloud computing including architectures, cloud resource management, and cloud storage systems. Finally, the course explains the main security issues in cloud computing.		
36428	Business Process Modeling	Credit Hours: 3	Pre-requisite: 36232
	This course offers the focus on modeling business processes using most popular modeling languages. Topics covered include an introduction to the business process concepts, process modeling languages, and simulating the execution of business processes. In addition, it introduces the concept of process re-engineering and enhancement.		
36435	IT Project Management	credit hours: 3	Pre-requisite: 80 Credit Hours
	This course offers the applications of project management on the IT projects. It introduces the basic concepts of feasibility studies and budgeting in IT projects. It also introduces the planning process for the IT projects through creating work breakdown structure, building, implementing and revising a plan, and organizing and managing the project team. The course focuses on the tools and techniques of enforcing total quality management (TQM) in IT projects. Special attention is given to the strategies for staying within budget, minimizing delays, and leading teams in IT projects.		
36436	Advanced Applications in E-Business & SCM	credit hours: 3	Pre-requisite: 36232
	This is an advanced course in E-Business applications. This course offers topics to be covered including Electronic Payment Systems (EPS), Customer Relationship Management (CRM and E-CRM), Supply Chain Management (SCM and E-SCM), and Enterprise Resource Planning (ERP). In addition, it covers some related topics such as social commerce, e-government, regulations, and ethics.		
36499	Graduation Project	credit hours: 3	Pre-requisite: 90 Credit Hours, 36435
	This is a last year course in which students are supposed to apply the knowledge gained during their study. This course offers the students who are supervised to choose a suitable idea, write the proposal, and develop the project using methodologies that are suitable for the project idea .		

36406	Advanced Database Management Systems	credit hours: 3	Pre-requisite: 36203
	This course offers the concepts of Data Base Management Systems (DBMS). The course focuses on the concepts, advantages and statements for the Structured Query Language (SQL) and its applications in building and manipulating relational databases. In addition, it introduces the Query by Example processor (QBE) to manipulate relational databases. The course include practical sessions in which students apply and practice using SQL statements and QBE to build and manipulate relational databases using a DBMS in lab.		
36408	Advanced Topics in BIT	credit hours: 3	Pre-requisite: 60 Credit Hours
	This course offers new trends in the BIT field to keep the students familiar with the new trends and market's demand. The topics covered depend on the selected material with a focus on research methodologies.		
36416	Logistics and SCM Systems	credit hours: 3	Pre-requisite: 36232
	This course offers the concepts of logistics and supply chain management (SCM). Special attention is given to the SCM activities including production, transportation, inventory, purchasing, sales, marketing, and customer service. Topics covered include supply chain structure, demand and sales forecasting, inventory management, transportation operations, sourcing and procurement, pricing		
36417	Advanced System Analysis and Design	credit hours: 3	Pre-requisite: 36316
	This course offers the concepts and terminologies of object-oriented (OO) approach in systems development. Topics covered include life cycle of systems development using the OO approach and the modeling of the development process phases using one of the modeling languages. Special attention is given to the application of the OO approach on real business projects using one of the object-oriented modeling languages in practical sessions. The course also introduces RAD technique.		