



جَامِعَةُ التَّقْنِيَّةِ وَالْعُلُومِ التَّطْبِيقِيَّةِ
 University of Technology and Applied Sciences
 Higher College of Technology الكليَّةُ التَّقْنِيَّةُ العُلْيَا

Specialization	Information Systems				
Brief description of the Specialization	<p>The Information Systems specialization is designed to produce competent graduates who are able to work with good knowledge and technical skills needed to enable new forms of commerce using Information Systems.</p> <p>Graduates of the specialization are qualified to become systems analysts, system developers, IS Project Managers, Business Process Analysts, Database designers and administrators.</p>				
Sl.No.	Course Code	Course Name	Prerequisite		Brief description of the Course
			Course Code	Course Name	
1	ITIS102	Fundation of Information Systems	None		This course introduces the students to information systems and how they are being used throughout global organization. Students will gain knowledge on different types of information systems. Students will be able to analyze and discuss how information systems enable new forms of commerce.
2	ITIS103	Web Technology	None		It introduces the practical knowledge and skills in writing markup language tags, design style sheets, and scripting in order to design websites according to W3C standards, using the latest web tools and technologies
3	ITIS104	Fundamentals of Multimedia	None		It provides the students with solid foundation on concepts, principles, techniques, and latest tools surrounding multimedia technology with emphasis on the design and development of multimedia systems for industrial, educational, and personal applications.
4	ITIS201	Systems Analysis and Design	ITDB101 + ITIS102	Introduction to Database + Foundation of Information Systems	It introduce the various methodologies, processes, techniques, and tools in Systems Analysis and Design. At the end of this course, students will apply the different phases of systems development life cycle to real business organizations.

5	ITIS202	Introduction to E-Business Technology	ITSE101 + ITIS103	Programming I + Web technology	It introduce the concepts, principles, theories, business models, and issues of E-Business with the focus of E-Commerce/m-commerce. Analyze the use of internet technologies to improve productivity and profitability of an E-Business.
6	ITIS203	Business Application Development	ITIS202	Introduction to E-Business Technology	It introduce to the students on how to develop an E-Commerce application using the latest tools and techniques. Student will analyze the use of internet technologies to improve productivity and profitability of an E-Business.
7	ITIS204	Course Project	ITIS201 +(ITIS202 OR ITSE101 OR ITIS103)	System Analysis and Design + (Introduction to e business OR Programming I OR Web Technology)	It enable the students to design and develop a system which is a tangible accumulation of previous knowledge and skills, following the various phases of Systems Development Life Cycle (SDLC).
8	ITIS301	Business Process Management	ITIS201	System Analysis and Design	It introduce the business process and its principles in order to enable them to identify, document, model, assess, and improve such core business processes in such a way to adapt to organizational changes and other inter-organizational processes.
9	ITIS302	Project Management Information System	ITIS301 and BAMG1207	Business Process Management + Principle of Management	It build proficiency among students by equipping them with the necessary practical knowledge on project management and its processes, including the systematic methodology of initiating, planning, controlling, executing, and closing projects, using the appropriate tools, methods, and techniques.
10	ITIS303	Information System Strategy, Management and Acquisition	ITIS102	Foundation of Information Systems	The course introduces IS Strategy, Management and Acquisition of high-level IS infrastructure and the systems that support the operational, administrative and strategic needs of the organization to the students.
11	ITIS304	Research Methodology	MATH311	Probability and Statistics for Information Technology	It enables students to use key concepts, terminologies, methods, techniques, and tools in writing a research relevant to Information Technology or Information System.
12	ITIS305	Technopreneurship	BAMG2111	Entrepreneurship	It provides students with the necessary knowledge and skills in technopreneurship. The course covers the processes of developing a business plan which starts from planning and feasibility, analysis, and the proper use of appropriate tools, techniques, and latest technologies that help to open a business in IT market.

13	ITIS401	Human Computer Interaction	None		It introduces to the students the principles, issues, tools and techniques of Human Computer Interaction which enable them to design, implement and evaluate interactive systems.
14	ITIS402	IS Auditing and Control	ITIS301 and ITIS303	Management + Information System Strategy, Management and Acquisition	It introduces to the students the concepts, best practices, procedures, techniques, standards, requirements, and tools of IS audit and control which enable them to manage risk, to sustain a disaster recovery, and to establish business continuity plans.
15	ITIS403	Enterprise Research Planning	BAMG1100	Introduction to Business	It introduces to students with an understanding of the theoretic and practical issues related to the application of enterprise systems within organizations.
16	ITIS404	Course Project II	ITIS414	Course Project I	It enables students to extend their project in ITIS414 to sustain its applicability and improvement of its significance.
17	ITIS405	IS Innovation and New Technologies	None		This course is designed to introduce students to new and innovative technologies and examine how these powerful systems have reshaped modern organizations along with society.
18	ITIS406	Decision Support System	ITIS102 and BAMG1207	Foundation of Information Systems + Principle of Management	It introduces to students the fundamental concepts of Decision Support System. This course is targeted for students with strong background in Information Systems. The students will have a technical know-how in decision making, its models and similar concepts.
19	ITIS407	Knowledge Management System	ITIS303	Information Systems Strategy, Management and Acquisition	The course introduces concepts and principles of analyze and assess models of knowledge management system (KMS) to students.
20	ITIS414	Course Project I	ITIS304	Research Methodology	It enables students to exhibit their expertise throughout the development of a project that is closely related to their chosen field of specialization and is appropriate to their study level.