


Sub.	Course Description – توصيف مقرر دراسي	الموضوع	 كلية المعرفة ALMAAREFA COLLEGE
Date		التاريخ	

Course Code & No	INFO331	331نظم	رقم المقرر ورمزه
Course Name	Database Systems Development	تطوير نظم قواعد البيانات	اسم المقرر
Credit Hours	3(2 + 1 + 0)	3(2 + 1 + 0)	عدد الساعات المعتمدة
Pre-requisite	INFO 232	232 نظم	المتطلب السابق

General Description	توصيف عام
<p>This course aims at introducing students with: Information systems design and implementation concepts within a database management system environment. Managing data needs of an organization; database architecture aspects; database systems integration with fourth generation languages. Students work in a lab setting using a modern database such as oracle to practice learned concepts.</p>	

Course Objectives	أهداف المقرر
<ul style="list-style-type: none"> • Recognize the concepts of database architecture, development, integration, security and management. • Write database advanced queries and administrative, management and integrity methods and rules. • Analyze common database management and administration problems and proper solutions. • Design, Implement and evaluate database system and applications. • Recognize up-to-date techniques and tools for handling common database issues. • Demonstrate the ability to work with in a database application development team. • Demonstrate ethical responsibilities during database management and development phases. • Analyze and choose new tools and trends in the field. • Demonstrate the ability to use Database software tools. 	

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Course Outlines	مفردات المقرر
<ul style="list-style-type: none"> • Database architecture. • Database systems integration. • Database application development. • Database components and environments. • Conceptual data modeling. • Data security, integrity, and quality. • Distributed data management. • Crash recovery strategies. • Concurrency control. • Database administration. • Schema creation and administration. 	

References	المراجع
<ul style="list-style-type: none"> • Elmasri, R. and Navathe, S., Fundamentals of Database Systems, 6th edition, 2014, Addison-Wesley. • Database Systems: A Practical Approach to Design, Implementation, and Management (6th Edition) 6th Edition, by Thomas Connolly, 2014 	