

Information Systems

Prepared by Dr. Amjad Qtaish

IT372
Information Systems

Orientation Lecture



Information Systems (IT372)



Dr. Amjad Qtaish

Faculty of Informatics
Midocean University



عرض توجيہي Orientation show

Who am I?



Dr. Amjad Faisal Ali Qtaish
Doctor of Philosophy (PhD) Degree
of Computer Science / Data Science



EDUCATION

■ **PhD Degree of Computer Science/ Data Science**

The National University of Malaysia
2016
Bangi, Selangor, Malaysia



UNIVERSITI
KEBANGSAAN
MALAYSIA
*National University
of Malaysia*

■ **Master Degree of Computer Science**

University Putra Malaysia
2013
Serdang, Selangor, Malaysia



UPM
UNIVERSITI PUTRA MALAYSIA
BERSILMU BERSAKTI

■ **Bachelor Degree of Computer Science**

Zarqa Private University
2002
Zarqa, Jordan



Who am I?



PHD THESIS



XAncestor

A Mapping Approach for Storing and Querying XML Documents in Relational Database using Path-Based Technique



ACADEMIC AWARDS



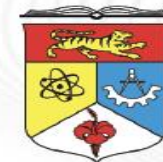
Certificate of Achievement

The National University of Malaysia 2016

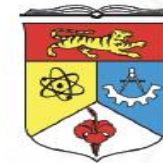


Outstanding Researcher Award

The National University of Malaysia 2016



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of Malaysia*

Who am I?



SUMMARY OF QUALIFICATIONS

- Bsc, Master, and PhD Degrees in Computer Science (Programming, Web Technology, Database, Big data, Distributed Systems and Networking) / **Data Science**
- Lecturer in Computer Department, Al-Kharj College of Technology, Saudi Arabia 2004 - 2013
- Head of Computer Department, Al-Kharj College of Technology, Saudi Arabia 2006- 2008
- Teaching and Research Assistant in FTSM Faculty, The National University of Malaysia, Bangi, Malaysia 2014 - 2016
- Publishing four High Quality of Journal Papers that indexed by Scopus and ISI.
- Excellent Programming using Oracle Developer 9i & Others Languages
- Administering LAN & WAN networks in Windows 2003 , 2000 platforms
- Administering Different Types of RDBMS such as Oracle, SQL Server, MySQL, SQLite
- Excellent Work in Management Depend on Previous Experience
- Certificate for IT Essentials: PC Hardware and Software
- Certificate for CCNA Exploration : Network Fundamentals
- Certificate for CCNA Exploration : Routing Protocols and Concepts
- Certificate of Participation as Presenter in International Conference on Electrical Engineering and Informatics (ICEEI 2015), Bali, Indonesia
- Certificates of Participations in two Scientific Workshops in FTSM, the National University of Malaysia
- Participant in two Scientific Seminars in FTSM, the National University of Malaysia
- Award - Certificate of Achievement from the National University of Malaysia 2016
- Award -Outstanding Researcher from the National University of Malaysia 2016
- Programming Many Software Projects During my Study and my Work
- Presenting Many Training Courses for Lecturer in Many Courses in Computer Science During my Work such as SQL, PL/SQL, Java, VB.Net, ASP, Java, and Typing Skills

My Contact Information



- ❖ Office hours
 - Discussion Time (Wednesday at 9:00 PM) every week
- ❖ More about me:



<https://scholar.google.com/citations?user=JejNDrcAAAAJ&hl=en>



<https://www.scopus.com/authid/detail.uri?authorId=56720387400>

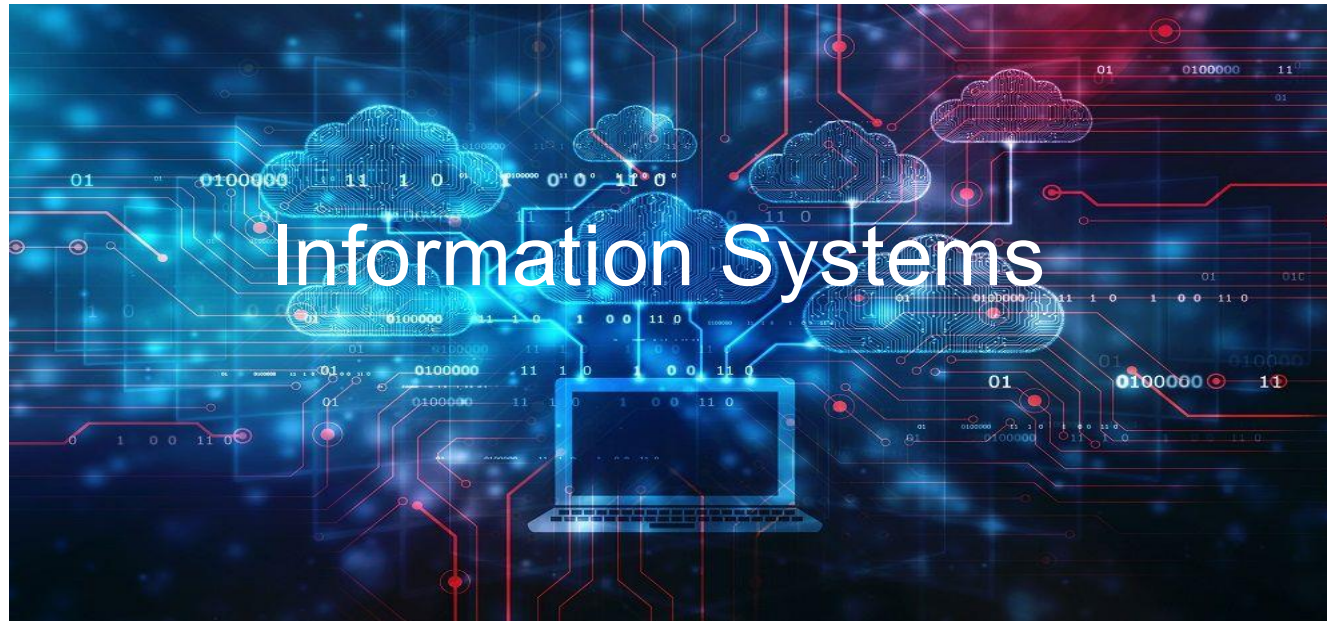


<https://orcid.org/0000-0001-5210-7086>

The course that will be taught



Information Systems





يقدم هذا المقرر مقدمة عن أنظمة المعلومات وتكنولوجيا المعلومات ومفاهيم تطوير أنظمة المعلومات وبرامج التطبيق. كما تحدد الأنواع الأساسية لأنظمة معلومات الأعمال والخطوات الرئيسية لعملية تطوير الأنظمة وبعض الاستراتيجيات المستخدمة لخفض التكاليف أو تحسين الخدمة. كما تشرح كيفية استخدام المعلومات في المنظمات وكيف تمكن تكنولوجيا المعلومات من تحسين الجودة والالتزام بالمواعيد والميزة التنافسية. كما تحدد المزايا التنافسية وأنواع الأدوار والوظائف والوظائف المتاحة في أنظمة المعلومات.

This course provides an introduction to information systems and information technology, information systems development concepts, and application software. It identifies the basic types of business information systems, the major steps of the systems development process and some of the strategies employed to lower costs or improve service. It explains how information is used in organizations and how IT enables improvement in quality, timeliness, and competitive advantage. It also defines the competitive advantages, types of roles, functions, and careers available in IS.

Primary Goal of This Course



يهدف هذا المقرر الى تعليم الطلبة على كيفية التعامل مع البيانات والمعلومات وإدارتها في المنظمات التجارية وفهم معنى "أنظمة المعلومات والتكنولوجيا" وتأثيراتها على المنظمات وأنواع أنظمة المعلومات التجارية المختلفة ودورة حياة تطوير هذه الأنظمة. كما يهدف أيضا الى تعليم الطلبة عن أجهزة الكمبيوتر المختلفة والبرامج وأنواع مختلفة من شبكات الكمبيوتر وكيفية التعامل مع الأنظمة الخيرة، نظم المعلومات الجغرافية، والتجارة الإلكترونية .

This course aims to teach students how to deal with and manage data and information in business organizations and understand the meaning of "information systems and technology" and their effects on organizations and the different types of business information systems and the life cycle of developing these systems. It also aims to teach students about different computers and programs and different types of computer networks and how to deal with expert systems, geographic information systems (GIS), and e-commerce.

What This Course is About



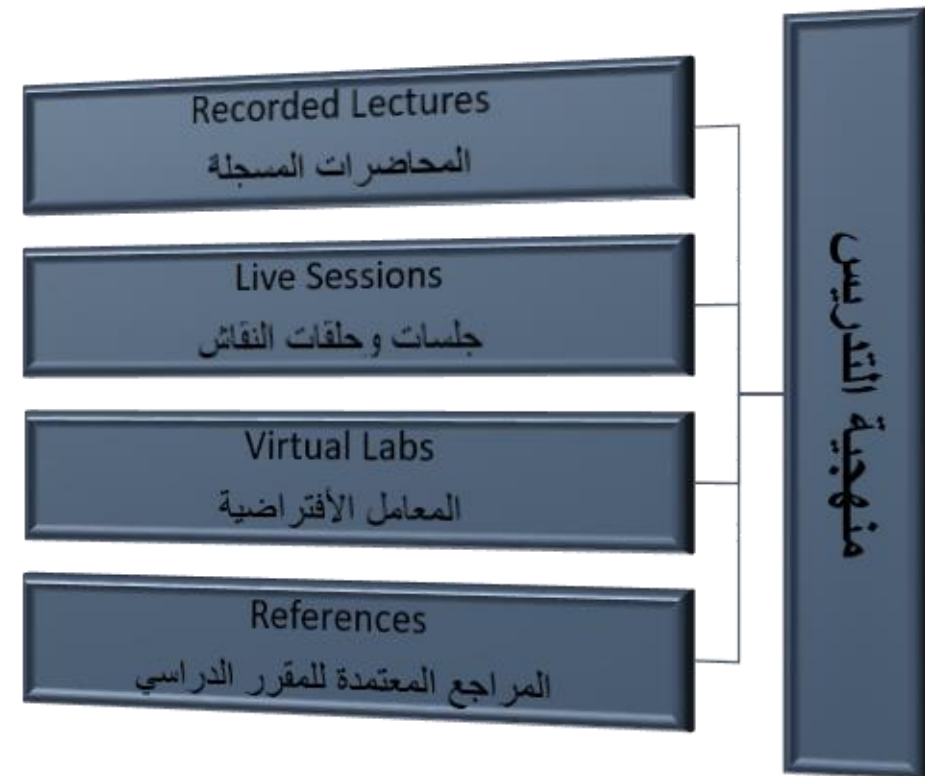
➤ **The course will help students to gauge understanding in :**

- **Overview of Information Systems in Organizations** (Introduction to Information Systems, How Businesses use Information Systems)
- **Information Technology Infrastructure** (Hardware and Software, IT and Emerging Technologies, Telecommunications, Internet and Wireless technology, Databases and Information Management)
- **Business Information Systems** (Electronic and Mobile Commerce, Enterprise Systems, Information and Decision Support Systems, Knowledge Management)
- **Systems Development** (Managing Projects, Investigation and Analysis, Systems Development Cycle)
- **IS in Business and Society** (Social and Ethical Issues in IS)



Units of Course Contents

Module	Course Unit	No.of. Weeks	Contact Hours
1	Lecture 1: Introduction to Information Systems	1 st	3
2	Lecture 2: Hardware, Software, and Emerging Technologies	2 nd	3
3	Lecture 3: Databases and Information Management	3 rd	3
4	Lecture 4: Telecommunications, Internet and Wireless Technology	4 th	3
5	Lecture 5: Electronic and Mobile Commerce, Enterprise Systems	5 th	3
6	Lecture 6: Information and Decision Support Systems	6 th	3
7	Lecture 7: Investigation and Analysis	7 th	3
8	Lecture 8: Knowledge Management, Information System Project Management	8 th	3
9	Lecture 9: Design And Implementation, Social and Ethical Issues in IS	9 th	3
10	Lecture 10: expert systems (ES), Geographic information system (GIS)	10 th	3





يتم احتساب الغياب من خلال حل الطالب للاختبار القصير المصاحب للمحاضرة الأسبوعية المسجلة، وفي حال تغيب الطالب عن ٤ اختبارات قصيرة يعتبر الطالب في هذه الحالة حرمان.

آخر موعد للاعتذار عن أي اختبار قصير يكون قبل إغلاق موعد الاختبار مع إرفاق الدلائل الثبوتية لأي أعذار قهرية أو مرضية عبر نموذج الأعذار عن اختبار قصير عبر منصة (SIS).

آخر موعد للاعتذار عن الاختبار النهائي يكون قبل موعد عقد الاختبار مع إرفاق الدلائل الثبوتية لأي عذر قهري أو طبي عبر نموذج الأعذار عن اختبار نهائي عبر منصة (SIS)، ولن يتم احتساب أي أعذار بعد نهاية الموعد، ويحق لإدارة الجامعة مراعاة بعض الظروف القهرية.

www.midocean.ae

الأعمال وتوزيع درجات الفصل الدراسي الثالث 2023 - لمرحلي البكالوريوس والماجستير

توزيع الدرجات - 100%

حضور المحاضرة - حل الأسئلة المصاحبة

8 درجات لكل اختبار قصير -
بمجموع 80 %

الحضور اختياري

20%

الأعمال

محاضرة مسجلة أسبوعيًا -
السبت من كل أسبوع

اختبار قصير مصاحب للمحاضرة
بشكل أسبوعي

حلقة نقاش افتراضية أسبوعية
لمناقشة محتوى المحاضرة المسجلة

الاختبار النهائي



➤ Assessment Method:

▶ Short Exam

- ▶ **80% marks**
 - ▶ Count of short Exam 10 (Weekly)
 - ▶ 8 Marks for each of short Exam.
- ▶ **20% marks**
 - ▶ Final Examination





➤ **After completion of this course, the students should be able to:**

- Have understanding of the Information Systems and its associated concepts
- Able to recognize the importance and use of various Information and Communication Technologies (ICTs)
- Able to analyse decision making process
- Have understanding of the various types of Information Systems
- Have knowledge of the system development
- Appreciate the social and ethical considerations of MIS within organizations

Learning Resources:



➤ **Credit Hours:**

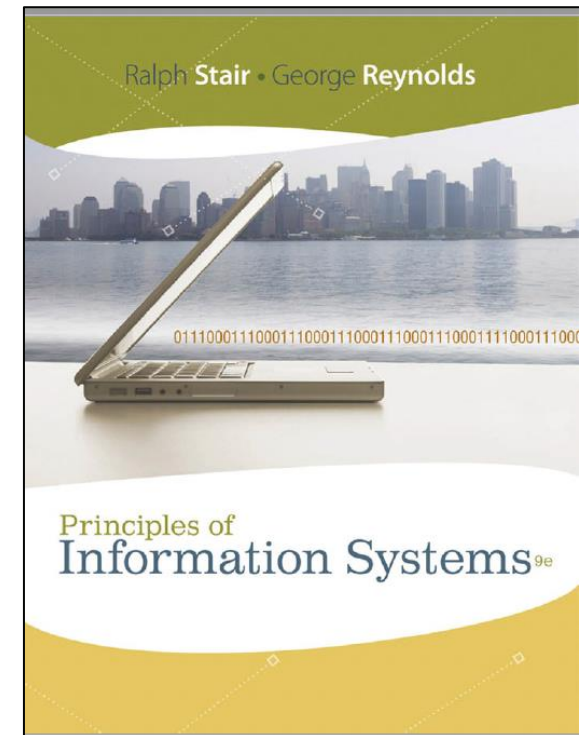
3 credit hours.

➤ **Required Textbook:**

Principles of Information Systems (A Managerial Approach) by Ralph Stair, George Reynolds. Ninth Edition.

➤ **Essential References:**

Introduction to Information Systems (Supporting and Transforming Business) by R. Kelly Rainer Jr., Brad Prince, Casey Cegielski. Fifth Edition





Thank You

