ICT700 Introduction to Business Information Systems T326 BRIEF

All information in the Subject Outline is correct at the time of approval. KOI reserves the right to make changes to the Subject Outline if they become necessary. Any changes require the approval of the KOI Academic Board and will be formally advised to those students who may be affected by email and via Moodle.

Information contained within this Subject Outline applies to students enrolled in the trimester as indicated

1. General Information

1.1 Administrative details

Associated HE Award(s)	Duration	Level	Subject Coordinator
Master of Information Systems (MIS) Graduate Diploma of Information Systems (GDIS)	1 trimester	Level 1	Dr. Faisal NADEEM E: faisal.nadeem@koi.edu.au P: +61 (2) 9283 3583 L: Level 7-11, 11 York St Consultation: via Moodle or by appointment.

1.2 Core / Elective
Core subject

1.3 Subject Weighting

The weighting of this subject and the total course points are indicated below.

Subject Credit Points	Total Course Credit Points
4 Credit Points	MIS (64 Credit Points); GDIS (32 Credit Points);

1.4 Student Workload

The expected student workload per week for this subject is indicated below.

No. Timetabled Hours/Week*	No. Personal Study Hours/Week**	Total Workload Hours/Week***
3 hours/week (2 hour Lecture + 1 hour Tutorial)	7 hours/week	10 hours/week

* Total time spent per week at lectures and tutorials
** Total time students are expected to spend per week in studying and completing assignments.
*** That is, * + ** = workload hours.

1.5 Mode of Delivery Classes will be face-to-face or hybrid. Certain classes will be online (e.g., special arrangements).

1.6 Pre-requisites Nil

1.7 General Study and Resource Requirements

- Dedicated computer laboratories are available for student use. Normally, tutorial classes are conducted in the computer laboratories.

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- Students are expected to attend classes with the requisite textbook and must read specific chapters prior to each tutorial. This will allow them to actively take part in discussions. Students should have elementary skills in both word processing and electronic spreadsheet software, such as Office 365 or MS Office.
- Computers and WIFI facilities are extensively available for student use throughout KOI. Students are encouraged to make use of the campus Library for reference materials.
- Students will require access to the internet and email. Where students use their own computers, they should have internet access. KOI will provide access to required software.

Software resource requirements specific to this subject: Office 365, Microsoft Imagine.

1.8 Academic Advising

Academic advising is available to students throughout teaching periods including the exam weeks. As well as requesting help during scheduled class times, students have the following options:

- Consultation times: A list of consultation hours is provided on the homepage of Moodle where appointments can be booked.
- Subject coordinator: Subject coordinators are available for contact via email. The email address of the subject coordinator is provided at the top of this subject outline.
- Academic staff: Lecturers and Tutors provide their contact details in Moodle for the specific subject. In most cases, this will be via email. Some subjects may also provide a discussion forum where questions can be raised.
- Head of Program: The Head of Program is available to all students in the program if they need advice about their studies and KOI procedures.
- Vice President (Academic): The Vice President (Academic) will assist students to resolve complex issues (but may refer students to the relevant lecturers for detailed academic advice).

2. Academic Details

2.1 Overview of the Subject

Business Information Systems (BIS) apply computer and information technology to make business processes more efficient and effective. This subject provides an overview of BIS. It introduces various categories of information systems and their roles in assisting organisations to gain competitive advantages and enhance their decision-making capabilities.
This subject covers the tools, techniques, and frameworks used to develop, deploy, and manage information systems and services, and the associated risks. Ethical and social issues surrounding the use of information systems in business organisations are also discussed.

2.2 Graduate Attributes for Postgraduate Courses

Graduates of Postgraduate courses from King's Own Institute (KOI) will achieve the graduate attributes expected under the Australian Qualifications Framework (2nd edition, January 2013). Graduates at this level will be able to apply an advanced body of knowledge from their major area of study in a range of contexts for professional practice or scholarship and as a pathway for further learning.

King's Own Institute's generic graduate attributes for a bachelor's level degree are summarised below:

	KOI Postgraduate Degree Graduate Attributes	**Detailed Description**

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	Knowledge	Current, comprehensive and coherent knowledge
	Critical Thinking	Critical thinking and creative skills to analyse and synthesise information and evaluate new problems
	Communication	Communication skills for effective reading, writing, listening and presenting in varied modes and contexts and for transferring knowledge and skills to a variety of audiences
	Information Literacy	Information and technological skills for accessing, evaluating, managing and using information professionally
	Problem Solving Skills	Skills to apply logical and creative thinking to solve problems and evaluate sources
	Ethical and Cultural Sensitivity	Appreciation of ethical principles, cultural sensitivity and social responsibility, both personally and professionally
	Teamwork	Leadership and teamwork skills to collaborate, inspire colleagues and manage responsibly with positive results
	Professional Skills	Professional skills to exercise judgement in planning, problem solving and decision making

Across the course, these skills are developed progressively at three levels:

- **Level 1 Foundation –** Students learn the basic skills, theories and techniques of the subject and apply them in basic, standalone contexts
- **Level 2 Intermediate –** Students further develop the skills, theories and techniques of the subject and apply them in more complex contexts, and begin to integrate the applications with other subjects.
- **Level 3 Advanced** – Students demonstrate an ability to plan, research and apply the skills, theories and techniques of the subject in complex situations, integrating the subject content with a range of other subject disciplines within the context of the course.

2.3 Subject Learning Outcomes

This is a Level 1 subject.

On successful completion of this subject, students should be able to:

Subject Learning Outcomes	Contribution to Graduate Attributes
a) Evaluate the role of information systems in business and their use in business process automation, compliance, and decision-making for competitive advantage.	
b) Analyse the business requirements for developing an information system.	

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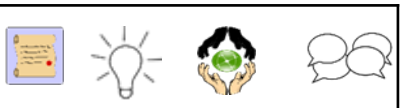
c) Critically discuss the integration for supporting operations across the business.	
d) Compare the various types of information systems and how they can be used to improve business performance.	
e) Analyse ethical and security issues of information systems for business	

2.4 Subject Content and Structure

Below are details of the subject content and how it is structured, including specific topics covered in lectures and tutorials. Reading refers to the text unless otherwise indicated.

Weekly Planner:

Week (beginning)	Topic covered in each week's lecture	Reading(s)	Expected work as listed in Moodle
Week 1 26 October	Business driven MIS, people, technology, processes and structure in IS	Ch.1 – Stair & Reynolds (2024)	Discussion and tutorial tasks on basic knowledge Data, information, business intelligence and technology Formative not graded
Week 2 02 November	Secure information systems, use of IS in organisational learning and strategy to achieve a competitive business	Ch.2 and 13 - Stair & Reynolds (2024) Extra reading will be provided on Moodle	Discussion and tutorial tasks on processes and methodologies involved with keeping information confidential, information availability and assurance of its integrity. Formative not graded
Week 3 09 November	Infrastructure and services in IS: technology infrastructure and networks	Ch. 4 and 7 – Stair & Reynolds (2024)	Discussion and tutorial tasks on hardware and software, use of knowledge gained on technology for an interconnected world. Formative not graded
Week 4 16 November	E-business: Electronic business value, e-commerce	Ch.8 – Stair & Reynolds (2024)	**Quiz(10%)** Discussion and tutorial tasks on understanding of E-commerce and E-business.
Week 5 23 November	Use of social media in business, cloud computing and IOT	Ch. 11 – Stair & Reynolds (2024) Extra reading will be provided on Moodle	Discussion and tutorial tasks on understanding of cloud computing and IoT Formative not graded
Week 6 30 November	Business intelligence and IS for decision making: big data and analytics, challenges	Ch. 6 - Stair & Reynolds (2024)	Discussion and tutorial tasks on understanding of business intelligence, analytics and challenges Formative not graded

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Week (beginning)	Topic covered in each week's lecture	Reading(s)	Expected work as listed in Moodle
			Assessment 2 due
Week 7 07 December	Enterprise applications: business communications, use of enterprise information systems to upgrade the business processes	Ch. 9 - Baltzan (2024) Extra reading will be provided on Moodle	Discussion and tutorial tasks on understanding of basic networks & enterprise application Business. Formative not graded
Week 8 14 December	BIS – ecommerce, enhancing business using CRM and SCM	Ch. 8 and 9 – Stair& Reynolds (2024) Extra reading will be provided on Moodle	Discussion and tutorial tasks on E-commerce: types, history, and examples Formative not graded
Week 9 04 January	Business process management, software development,	Ch.10 – Stair& Reynolds (2024 Reading will be provided on Moodle	Discussion and tutorial tasks on understanding of business processes in the cloud and management Formative not graded **Assessment 3 due**
Week 10 11 January	Use of database systems and data management to develop and acquire Information systems	Ch. 5 – Stair & Reynolds (2024)	Discussion and tutorial tasks on use of database systems and data management Formative not graded
Week 11 18 January	Ethical, legal, and social issues in corporate and individual accountability, process and strategies to secure information systems	Ch.14 and 13 - Stair & Reynolds (2024)	Discussion and tutorial tasks on understanding of ethics in IS: Ethical, legal, and social issues Formative not graded
Week 12 25 January	Revision: all subject materials	All chapters	
Week 13 01 February	Study Review Week and Final Exam Week		
Week 14 08 February	- Final Exam Week - Continuing students - enrolments for T127 open		Please see the exam timetable for the exam date, time and location
Week 15 15 February	- Student Vacation begins - New students - enrolments for T127 open		
Week 16 22 February	1. Results Released 2. Review of Grade Day for T326 – see Sections 2.6 and 3.2 below for relevant information. 3. Certification of Grades NOTE: More information about the dates will be provided at a later date through Moodle/KOI		

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Week (beginning)	Topic covered in each week's lecture	Reading(s)	Expected work as listed in Moodle
	email.		
T127 01 March 2027			
Week 1 01 March	Week 1 of classes for T127		

2.5 Teaching Methods/Strategies

Briefly described below are the teaching methods/strategies used in this subject:

- *Lectures* (2 hours/week) are conducted in seminar style and address the subject content, provide motivation and context and draw on the students' experience and preparatory reading.
- *Tutorials* (2 hours/week) include class discussion of case studies and research papers, practice sets and problem-solving and syndicate work on group projects. Tutorials often include group exercises and so contribute to the development of teamwork skills and cultural understanding. Tutorial participation is an essential component of the subject and contributes to the development of many of the graduate attributes (see section 2.2 above). Tutorial participation contributes towards the assessment in many subjects (see details in Section 3.1 for this subject). Supplementary tutorial material such as case studies, recommended readings, review questions etc. will be made available each week in Moodle.
- *Online* teaching resources include class materials, readings, model answers to assignments and exercises and discussion boards. All online materials for this subject as provided by KOI will be found in the Moodle page for this subject. Students should access Moodle regularly as material may be updated at any time during the trimester
- *Other contact* - academic staff may also contact students either via Moodle messaging, or via email to the email address provided to KOI on enrolment.

2.6 Student Assessment

Assessment is designed to encourage effective student learning and enable students to develop and demonstrate the skills and knowledge identified in the subject learning outcomes. Assessment tasks during the first half of the study period are usually intended to maximise the developmental function of assessment (formative assessment). These assessment tasks include weekly tutorial exercises (as indicated in the weekly planner) and low stakes graded assessment (as shown in the graded assessment table). The major assessment tasks where students demonstrate their knowledge and skills (summative assessment) generally occur later in the study period. These are the major graded assessment items shown in the graded assessment table.

Final grades are awarded by the Board of Examiners in accordance with KOI's Assessment and Assessment Appeals Policy. The definitions and guidelines for the awarding of final grades within the BIT degree are:

- HD High distinction (85-100%) an outstanding level of achievement in relation to the assessment process.
- DI Distinction (75-84%) a high level of achievement in relation to the assessment process.
- CR Credit (65-74%) a better than satisfactory level of achievement in relation to the assessment process.
- P Pass (50-64%) a satisfactory level of achievement in relation to the assessment process.
- F Fail (0-49%) an unsatisfactory level of achievement in relation to the assessment process.
- FW This grade will be assigned when a student did not submit any of the compulsory assessment items.

Provided below is a schedule of formal assessment tasks and major examinations for the subject.

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Assessment Type	When assessed	Weighting	Learning Outcomes Assessed
Assessment 1: Quiz (In class, face-to-face)	Week 4	10%	a, b, c
Assessment 2: Individual Assessment	Week 6	20%	b, c, d
Assessment 3: Individual Case Study Assessment	Week 9	35%	c, d, e
Assessment 4: Report (15 %) and VIVA (20%)	Report due: Week 11 Viva: Week 12	Report: 15% Viva: 20% Total: 35%	a, b, c, d, e

Requirements to Pass the Subject:

2.7 Prescribed and Recommended Readings

Provided below, in formal reference format, is a list of the prescribed and recommended readings.

Prescribed Textbooks:

Stair, R., Perew, M., & Vance, L. (2024). *Principles of information systems* (15th ed.). Cengage Learning. https://au.cengage.com/c/principles-of-information-systems-15e-stair-perew-vance/9798214000961/

Recommended Readings

Baltzan, P., & Phillips, A. (2024). *Business driven information systems* (Illustrated ed.). McGraw-Hill Education. https://www.mheducation.com/highered/product/business-driven-information-systems-baltzan.html?viewOption=student

Journal Articles

Agarwal, R., & Dhar, V. (2021). Big data, data science, and analytics: The opportunity and challenge for IS research. Information Systems Research, 25(3), 443–448. https://doi.org/10.1287/isre.2014.0546

Bharadwaj, A., El Sawy, O. A., Pavlou, P. A., & Venkatraman, N. (2022). Digital business strategy: Toward a next generation of insights. *MIS Quarterly*, 37(2), 471–482. https://doi.org/10.25300/MISQ/2013/37:2.3

Collins, C., Dennehy, D., Conboy, K., & Mikalef, P. (2021). Artificial intelligence in information systems research: A systematic literature review and research agenda. *International Journal of Information Management, 60*, 102383. https://doi.org/10.1016/j.ijinfomgt.2021.102383

Guan, J. (2026). Big data in healthcare. In *Governance and management of medical scientific data sharing and application*. Springer. https://doi.org/10.1007/978-981-95-2806-6_11

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Hmoud, H., Al-Adwan, A. S., Horani, O., Yaseen, H., & Al Zoubi, J. Z. (2023). Factors influencing business intelligence adoption by higher education institutions. *Journal of Open Innovation: Technology, Market, and Complexity, 9*(3), 100111. https://doi.org/10.1016/j.joitmc.2023.100111

Lacity, M., Willcocks, L., & Gozman, D. (2021). Influencing information systems practice: The action principles approach applied to robotic process and cognitive automation. *Journal of Information Technology, 36*(3), 216–240. https://doi.org/10.1177/0268396221990778

Nguyen, N. D. K., Ali, I., Gupta, S., & Chen, R. (2024). Bridging the nexus between cloud ERP and enterprise resilience. *Journal of Global Information Management*, 32(1), 1–22. https://doi.org/10.4018/JGIM.2024

Conferences

Grossman, R., & Siegel, K. (2024). Digital transformation of supply chain management: Challenges and strategies for implementing data analytics in practice. In *Proceedings of the 8th International Conference on E-Commerce, E-Business, and E-Government (ICEEG 2024)*. ACM. https://doi.org/10.1145/3675585.3675592

Paul, F. H., Brink, H., Kälberloh, N., Khanin, M., Leisurs, P., Oldenburger, M., & Wachsmann, P. (2024). Competences for digital transformation in organizations: A literature review and expert survey. In *Proceedings of the 32nd European Conference on Information Systems (ECIS 2024)*. Association for Information Systems. https://aisel.aisnet.org/ecis2024/track12_digtrans/track12_digtrans/15

Weber, M., Knabl, O. B., Böttcher, T. P., Hein, A., & Krcmar, H. (2024). The AI transformation? Unpacking the impact of AI on incumbent business models. In *Proceedings of the 32nd European Conference on Information Systems (ECIS 2024)*. Association for Information Systems. https://aisel.aisnet.org/ecis2024/track12_digtrans/track12_digtrans/11

Websites and online Resources

ACM Digital Library. (2024). Association for Computing Machinery. https://dl.acm.org

IEEE Xplore Digital Library. Institute of Electrical and Electronics Engineers. https://ieeexplore.ieee.org

Gartner IT Research. Gartner. https://www.gartner.com/en/information-technology

McKinsey Digital. McKinsey & Company. https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights

W3Schools SQL Tutorial. (2024). W3Schools. https://www.w3schools.com/sql/

***Additional Resources*:** Case studies will be provided on Moodle

References available from EBSCOhost research databases:

- ACM Transactions on Information Systems
- International Journal of Information Technology & Management
- Information Systems & e-Business Management
- Journal of Strategic Information Systems
- Management Information Systems Quarterly
- Case studies from Consultation companies
- BLOCKCHAIN: The future of Business Information System

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