ICT752 Enterprise 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)	1 trimester	Postgraduate	Dr Md Arafat MAHMUD mdarafat.mahmud@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

This subject is a core subject

1.3 Subject Weighting

Indicated below is the weighting of this subject and the total course points

Subject Credit Points	Total Course Credit Points
4	Master of Information Systems (64)

1.4 Student Workload

Indicated below is the expected student workload per week for this subject

No. Timetabled Hours/Week*	No. Personal Study Hours/Week**	Total Workload Hours/Week***
3 hours/week plus supplementary online material	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, completing assignments, etc.
*** Combination of timetable hours and personal study

Additional English language support: 2 hours per week (LSC100) if required. Extra support is available through PLASS.

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 ICT703 Information Systems Analysis and Design; and Completion of 8 subjects

1.7 General Study and Resource Requirements

- Students are expected to attend classes with the weekly worksheets and subject support material provided in Moodle. Students should read this material before coming to class to improve their ability to participate in the weekly activities.

- Students will require access to the internet and their KOI email and should have basic skills in word processing software such as MS Word, spreadsheet software such as MS Excel and visual presentation software such as MS PowerPoint.
- 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.

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

Enterprise Information Systems allows organisations to integrate business processes by sharing information across business functions and hierarchies. This subject provides students with essential knowledge of enterprise information systems and their applications to business processes. Students will develop skills to examine the relationship between the configuration of the systems and the design of organisation business processes. Students will gain knowledge and skills in developing plans for selecting, purchasing and implementing enterprise information systems and using enterprising information systems for organisational improvement and business model development.

2.2 Graduate Attributes for Postgraduate Courses

Graduates of postgraduate courses from King's Own Institute will gain the graduate attributes expected from successful completion of a postgraduate degree under the Australian Qualifications Framework (2nd edition, January 2013). Graduates at this level will be able to apply 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 master's level degree are summarised below:

	KOI Postgraduate Degree Graduate Attributes	**Detailed Description**
	Knowledge	Current, comprehensive and coherent knowledge, including recent developments and applied research methods
	Critical Thinking	Critical thinking skills to identify and analyse current theories and developments and emerging trends in professional practice

	Communication	Communication and technical skills to analyse and theorise, contribute to professional practice or scholarship, and present ideas to a variety of audiences
	Research and Information Literacy	Cognitive and technical skills to access and evaluate information resources, justify research approaches and interpret theoretical propositions
	Creative Problem Solving Skills	Cognitive, technical and creative skills to investigate, analyse and synthesise complex information, concepts and theories, solve complex problems and apply established theories to situations in professional practice
	Ethical and Cultural Sensitivity	Appreciation and accountability for ethical principles, cultural sensitivity and social responsibility, both personally and professionally
	Leadership and Strategy	Initiative, leadership skills and ability to work professionally and collaboratively to achieve team objectives across a range of team roles Expertise in strategic thinking, developing and implementing business plans and decision making under uncertainty
	Professional Skills	High level personal autonomy, judgement, decision-making and accountability required to begin professional practice

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

- **Level 1 Foundation –** Students learn the skills, theories and techniques of the subject and apply them in stand-alone contexts
- **Level 2 Intermediate –** Students further develop skills, theories and techniques of the subject and apply them in more complex contexts, beginning to integrate the application with other subjects
- **Level 3 Advanced** – Students have a demonstrated 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

Generally, skills gained from subjects in the Graduate Certificate and Graduate Diploma are at levels 1 and 2 while other subjects in the Master's degree are at level 3.

2.3 Subject Learning Outcomes

Listed below, are key knowledge and skills students are expected to attain by successfully completing this subject:

Subject Learning Outcomes	**Contribution to Course Graduate Attributes**
a) Evaluate the readiness of an organisation for the implementation of an enterprise information system.	
b) Develop a critical project plan for selection, purchase, and implementation of an enterprise information system.	

c) Report comprehensively on the frameworks, governance and ethical concerns for the successful use of enterprise information systems.	
d) Evaluate the significance of the current trends and technologies for enterprise information systems.	
e) Design new business process models and change management approaches to enhance the performance of enterprise information systems and maximise their value for an organisation.	

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	Exploring business process agility from the system designer's perspective	Ch 3 Rahman (2022)	Tutorial tasks using case studies requiring students to understand and identify the dynamics in the business process Formative
Week 2 02 November	ERP readiness assessment	Ch 2 Rahman (2022) Resources will be provided on Moodle	Tutorial tasks using case studies requiring students to check the ERP readiness assessment with respect to the structure, personnel, and infrastructure to support the ERP implementation project Formative
Week 3 09 November	Practical guidance in achieving successful change management in information system environments	Resources will be provided on Moodle	Tutorial tasks to understand change management and the need for successful change management in information systems environment Formative
Week 4 16 November	Introduction to situational method engineering (SME)	Ch 5 Rahman (2022)	Tutorial tasks related to the application of situational method engineering in ERP Implementation projects Formative **Assessment 1: due** **Draft Proposal – case study**

Week (beginning)	Topic covered in each week's lecture	Reading(s)	Expected work as listed in Moodle
Week 5 23 November	Enterprise 4.0: The next evolution of business?	Resources will be provided on Moodle	Tutorial tasks with supporting case studies to understand the evolution of Enterprise 4.0 and the factors that contribute to the evolution of business Formative
Week 6 30 November	Supporting participation in online social networks	Ch 1 Rahman (2022)	Tutorial tasks to understand the use of social networks and the business benefits of supporting participation in online social networks Formative **Assessment 2: due** **Quiz (Face-to-face)**
Week 7 07 December	Context-based handling of mobile process activities	Resources will be provided on Moodle	Tutorial tasks with supporting case studies on the use of mobile process model to enhance process-aware information systems Formative
Week 8 14 December	The linkage between business process and software systems, recovery management an organisational agility	Ch 7 & Ch 10 Rahman (2022) Resources will be provided on Moodle	Tutorial tasks focusing on link between business process and software systems, focusing on the roles of software systems in managing business process efficiently Formative
Week 9 04 January	Improving application integration by combining services and resources: organisational sustainability	Ch 9 Rahman (2022)	Tutorial tasks based on system integration Formative
Week 10 11 January	Data warehouse support: from Business Intelligence to Data Science	Ch 8 Rahman (2022)	Tutorial tasks with case studies on managing data warehouse tasks in enterprise systems and identify support systems that can manage data warehouse Formative **Assessment 3: due** **Individual Report**
Week 11 18 January	Robotics and enterprise information	Ch 8 Rahman (2022)	Tutorial tasks with case studies on variability management workflow to

Week (beginning)	Topic covered in each week's lecture	Reading(s)	Expected work as listed in Moodle
	systems	Resources will be provided on Moodle	improve the quality of the application to manage uncertainty Formative **Assessment 3: due Individual Presentation**
Week 12 25 January	Advanced AI-enabled enterprise information systems; final exam revision	Resources will be provided on Moodle	Final exam revision
Week 13 01 February	Study review week and Final Exam Week (Assessment 4 Final Exam (35%)		
Week 14 08 February	Examinations Continuing students - enrolments for T127 open		Please see exam timetable for exam date, time and location
Week 15 15 February	Student Vacation begins New students - enrolments for T127 open		
Week 16 22 February	f) Results Released g) Review of Grade Day for T326 – see Sections 2.6 and 3.2 below for relevant information. h) Certification of Grades NOTE: More information about the dates will be provided at a later date through Moodle/KOI email.		
T127 26 October 2026			
Week 1 26 October	Week 1 of classes for T127		

2.5 Teaching Methods/Strategies

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

- *Lectures* (1 hour/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 assessments (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 are:

- *HD High distinction* (85-100%): an outstanding level of achievement in relation to the assessment process.
- *D Distinction* (75-84%): a high level of achievement in relation to the assessment process.
- *C 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.

Assessment Type	When assessed	Weighting	Learning Outcomes Assessed
Assessment 1: Draft Proposal of Individual Assessment: Case Study (500 words)	Week 4	10%	a

Assessment Type	When assessed	Weighting	Learning Outcomes Assessed
Assessment 2: Quiz (In-class, face-to-face)	Week 6	15%	a and b
Assessment 3: Individual Assessment: Case study on enterprise information systems selection, purchase, and implementation (1500 words)	Individual Report: Week 10 Individual Presentation: Week 11	40% Individual Report: 30% Individual Presentation:10%	a, b, c and d
Assessment 4: Final Exam On-campus 2 hours + 10 mins reading time	Final Exam Period	35%	a, b, c, d, and e

Requirements to Pass the Subject:

To gain a pass or better in this subject, students must gain a *minimum of 50%* of the total available subject marks.

2.7 Prescribed and Recommended Readings

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

Prescribed Text

Rahman, H. (2022). *Achieving organizational agility, intelligence, and resilience through information systems*. IGI Global.
DOI: https://www.igi-global.com/book/achieving-organizational-agility-intelligence-resilience/244578

Recommended Readings

Anica-Popa, L. E., Vrîncianu, M., Pugna, I. B., & Boldeanu, D. M. (2024). Addressing cybersecurity issues in ERP systems–Emerging trends. In *Proceedings of the International Conference on Cybersecurity*. Sciendo. https://reference-global.com/download/article/10.2478/picbe-2024-0108.pdf

Roffia, P., & Dabić, M. (2024). The role of management control and integrated information systems for the resilience of SMEs. *Review of Managerial Science, 18*(5), 1353-1375. https://doi.org/10.1007/s11846-023-00657-6

Solano, M. C., & Cruz, J. C. (2024). Integrating analytics in enterprise systems: A systematic literature review of impacts and innovations. *Administrative Sciences, 14*(7), 138. https://doi.org/10.3390/admsci14070138

Suggested Conference / Journal Articles (Mandatory)

Groenewald, C. A., Groenewald, E., Uy, F., Kilag, O. K., Rabillas, A., & Cabuenas, M. H. (2024). Organizational agility: The role of information technology and contextual moderators—A systematic review. *International Multidisciplinary Journal of Research for Innovation, Sustainability, and Excellence, 1*(3), 32-38. https://risejournals.org/index.php/imjrise/article/view/167

Wahyudi, D., Taryana, T., Tawil, M. R., Zulkifli, Z., & Sipayung, B. (2024). SWOT analysis in business risk awareness in MSMEs. *TECHNOVATE: Journal of Information Technology and Strategic Innovation Management, 1*(2), 56-61.

https://www.researchgate.net/publication/381104894_SWOT_Analysis_in_Business_Risk_Awareness_in_MSMEs

Journal Articles

Musti, K. S., & Baporikar, N. (2023). Industry 4.0-based enterprise information system for P2P lending. *Journal of Science and Technology Policy Management, 14*(1), 6-24. https://doi.org/10.1108/JSTPM-06-2020-0093

Rashid, A., Hashim, K. F., & Hock, Q. W. (2023). Issues in enterprise information systems. In *Sustainable Business and IT* (pp. 265-274). Routledge. https://www.researchgate.net/publication/369863861_Issues_in_Enterprise_Information_Systems

Solano, M. C., & Cruz, J. C. (2024). Integrating analytics in enterprise systems: A systematic literature review of impacts and innovations. *Administrative Sciences, 14*(7), 138. https://www.mdpi.com/2076-3387/14/7/138

Sunyaev, A., Dehling, T., Strahringer, S., et al. (2023). The future of enterprise information systems. *Business & Information Systems Engineering, 65*, 731–751. https://doi.org/10.1007/s12599-023-00839-2

Students are encouraged to read peer reviewed journal articles and conference papers. Google Scholar provides a simple way to broadly search for scholarly literature. From one place, you can search across many disciplines and sources: articles, theses, books, abstracts and court opinions, from academic publishers, professional societies, online repositories, universities and other web sites.

Useful Websites: (Mandatory)

The following industry websites are useful introductory sources covering a range of information useful for this subject.
TechTarget, 2025. SearchERP – ERP software, strategies, and trends. Available at: https://searcherp.techtarget.com.

SAP Community, 2025. SAP Community - Discussions, Blogs, Q&A. Available at: https://community.sap.com.
Odoo, 2025. Odoo | Open Source ERP and CRM. Available at: https://www.odoo.com .

The following industry websites are useful introductory sources covering a range of information useful for this subject.

Gartner. (2024) Enterprise Information Systems Overview. Available at: https://www.gartner.com/

Forrester. (2024) The Future of Enterprise Information Systems. Available at: https://www.forrester.com/

ISACA. (2024) Enterprise Information Systems and Governance. Available at: https://www.isaca.org/

Association for Information Systems (AIS). (2024) Research in Enterprise Information Systems. Available at: https://aisnet.org/