ICT753 INDUSTRY PROJECT T325 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	Advanced	Name: Ali Braytee Email: ali.braytee@koi.edu.au P: 92833583 L: Level 7-11, 11 York St Consultation: via Moodle or by appointment

1.2 Core / Elective
This subject is a core subject for the Master of Information Systems (MIS)

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	MIS (64 Credit Points)

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.

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 Yes
- 10 completed subjects

And • ICT703 Information Systems Analysis and Design
And • ICT750 Information Systems Professional Practice

1.7 General Study and Resource Requirements

- Students are expected to attend classes with the required textbook and to read specific chapters prior to the tutorials. 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

This subject provides students with the opportunity to apply their information systems knowledge and skills gained throughout the MIS course to real-world business problems/issues. The students will gather and critically analyse the requirements for developing information systems, and they will work collaboratively in a small group to research, plan, design, develop and deliver information systems solutions for an industry client under the guidance of academic and industry supervisors. Students will be required to produce deliverables (e.g., specifications, user guides and working systems where applicable) for real-world business problems/issues. Through working on real-world information systems project, students gain hands-on experience and develop their problem-solving, project management and communication skills.

2.2 Graduate Attributes for Postgraduate Courses

Graduates of Postgraduate courses from King's Own Institute will achieve the graduate attributes expected from successful completion of a Master's degree 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 master's level degree are summarised below:

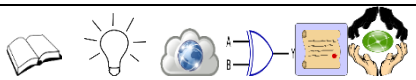
	KOI Master's Degree Graduate Attributes	Detailed Description
	Knowledge	Current, comprehensive and coherent knowledge, including recent developments and applied research methods
	Critical Thinking	Critical thinking skills to identify and analyse current theories and developments and emerging trends in 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 faced 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 course, 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

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) Combine an in-depth knowledge of theoretical concepts and technical skills required for planning and designing Information Systems.	
b) Analyse the business requirements for an IS in a small or medium organisation using relevant requirement gathering techniques.	
c) Design and develop business solutions utilising appropriate tools, techniques, and research methods.	
d) Work collaboratively in a team and effectively communicate with all project stakeholders.	
e) Apply professional and ethical practices in all project activities.	

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 27 Oct	Project Planning Communication and professional skills in dealing with all project stakeholders. Discussion on requirements and specifications of the capstone project.	No prescribed textbook. Students are encouraged to read journal articles	Group creation and project allocation – guided by academic supervisor
Week 2 03 Nov	Project Planning Discussion on project planning and the project proposal.	Show weekly progress: engagement, participation and contribution in class	Discussion on the project plan and proposal Graded
Week 3 10 Nov	Project Planning Discussion on the project methodology, requirement modelling using UML diagrams and research methodologies.	Show weekly progress: engagement, participation and contribution in class	Feedback on the initial project proposal and plan, discussion on research techniques to refine requirements Graded
Week 4 17 Nov	Project Execution Discussion on information needs and design steps for the project.	Show weekly progress: engagement, participation and contribution in class	Discussion on design and data requirements of the project Graded Assessment 2: due Project Proposal

Week 5 24 Nov	Project Execution Discussion on implementation plan and steps for the project	Show weekly progress: engagement, participation and contribution in class	Feedback on the design and discussion on the design implementation techniques and strategies Graded
Week 6 01 Dec	Project Execution Discussion on creating the prototype	Show weekly progress: engagement, participation and contribution in class	Show progress in implementation and draft prototype Graded
Week 7 08 Dec	Project Execution Discussion on managing security and performance of Information Systems	Show weekly progress: engagement, participation and contribution in class	Show final prototype and discuss security/ performance requirements of the project Graded
Week 8 15 Dec	Project Monitoring Discussion the testing strategies and create a testing plan.	Show weekly progress: engagement, participation and contribution in class	Discussion on creation of test plan Graded Assessment 3: due Project Design and Prototype
Week 9 05 Jan	Project Monitoring Discussion on execution of testing plan and record keeping	Show weekly progress: engagement, participation and contribution in class	Show testing stage progress and discuss strategies to improve the solution Graded
Week 10 12 Jan	Project Consolidation Discussion on the technical documentation and presentation techniques Project Write-up.	Show weekly progress: engagement, participation and contribution in class	Show final test results and progress in documentation of the final report Graded
Week 11 19 Jan	Project Consolidation Product presentation to the client. Industry engagement – Hurdle (Reflection)	Show weekly progress: engagement, participation and contribution in class	Discussion about final presentation, client feedback – draft ppt Graded Assessment 4: due Project Report
Week 12 27Jan (Tue)	Project Consolidation Product demonstration to academic supervisor. Industry engagement – Hurdle (Reflection)	Show weekly progress: engagement, participation and contribution in class	Assessment 4: due Project Presentation and Demonstration
Week 13 02 Feb	Study review week and Final Exam Week		
Week 14 09 Feb	Examinations Continuing students - enrolments for T126 open	Please see exam timetable for exam date, time and location	
Week 15 16 Feb	Student Vacation begins New students - enrolments for T126 open		

Week 16 23 Feb	• Results Released • Review of Grade Day for T325 – see Sections 2.6 and 3.2 below for relevant information. • Certification of Grades NOTE: More information about the dates will be provided at a later date through Moodle/KOI email.
T126 2 Mar 2026	
Week 1 02 Mar	Week 1 of classes for T126

2.5 Teaching Methods/Strategies

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

- *Lectures* (1 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 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 Weekly Exercises	Week 2 - 11	20%	a, b, c, d and e
Assessment 2: Project Proposal (Group) (500 words)	Week 4	10%	a and b
Assessment 3: Project Design and Prototype (Group) (1500 words)	Week 8	20%	c and e
Assessment 4: Project Report (2000 words; group 1500 words, individual 500 words)	Week 11	Group 20% Individual 10%	d and e
Assessment 5: Project Presentation and Demonstration	Week 12	Group 10% Individual 10%	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 is a list of the prescribed and recommended readings

Recommended Readings:

Brooks, D.J., Kim, C.I., Mboussou, F.F. and Danovaro-Holliday, M.C., 2024. Developing national information systems to monitor COVID-19 vaccination: a global observational study. *JMIR Public Health and Surveillance*, *10*, p.e62657.

Aleryani, A., 2024. Eliciting Client Requirements in Developing Information Systems Using Artificial Intelligence (Opportunities and Challenges). *International Journal of Recent Engineering Science*, *11*(3), pp.126-133.

Cutugno, F. and Cascella, M., 2025. Development and validation of a data visualization dashboard for automatic pain assessment and artificial intelligence analyses in cancer patients. *Journal of Medical Artificial Intelligence*, *8*.

de Brock, B., 2023. Developing Information Systems Accurately: A Wholistic Approach. Springer Nature.
Kaufmann, C. and Kock, A., 2022. Does project management matter? The relationship between project management effort, complexity, and profitability. *International Journal of Project Management*, *40*(6), pp.624-633

Cheng, K.T., Hsu, J.S.C., Li, Y. and Brading, R., 2023. Intellectual capital and team resilience capability of information system development project teams. *Information & Management*, *60*(1), p.103722.

Hussain, H.N., Alabdullah, T.T.Y., Jamal, K.A.M. and Ries, E., 2023. Time Management as a Critical Success Factor in the Oil Industry of Basra Governorate: An Accounting Information Systems Study. *International Journal of Scientific and Management Research*, *6*(6), pp.59-76

Amini, M. and Bozorgasl, Z., 2023. A game theory method to cyber-threat information sharing in cloud computing technology. *International Journal of Information System Management System*, *11*(4-2023)

Kerzner, H., 2022. *Project management case studies*. John Wiley & Sons.

Franco, M.F., Lacerda, F.M. and Stiller, B., 2022. SECProject: a Framework for the Management of Cybersecurity Projects in Small and Medium-sized Enterprises.

Stamp, M., 2022. *Introduction to machine learning with applications in information security*. Chapman and Hall/CRC.
Gill, N.S., 2022. System testing tools and its best practices: The Complete Guide, Elixirdata. Xenonstack Inc. Available at: https://www.xenonstack.com/insights/what-is-system-testing

Recommended Journals:

Trad, A., 2021, October. Entity Transformation Projects: Security Management Concept (SMC). In Journal: Proceedings of 12th SCF International Conference on "Contemporary Issues in Social Sciences (p. 326)
Zolotarev, V.V., Arkhipova, A.B., Parotkin, N.Y. and Lvova, A.P., 2021. Strategies of social engineering attacks on information resources of gamified online education projects. In CEUR Workshop Proceedings (Vol. 2861, pp. 386-391)

Schmidt, J., 2023. Mitigating risk of failure in information technology projects: Causes and mechanisms. Project Leadership and Society, 4, p.100097
Kamariotou, M. and Kitsios, F., 2019, June. Information systems planning and success in SMEs: strategizing for IS. In International Conference on Business Information Systems (pp. 397-406). Springer, Cham.

Thesing, T., Feldmann, C. and Burchardt, M., 2021. Agile versus waterfall project management: decision model for selecting the appropriate approach to a project. Procedia Computer Science, 181, pp.746-756.

Useful Websites

The following websites are useful sources covering a range of information useful for this subject. However, most are not considered to be sources of Academic Peer Reviewed theory and research. If your assessments require ***academic peer reviewed journal articles*** as sources, you need to access such sources using the Library database, Ebscohost, or Google Scholar. Please ask in the Library if you are unsure how to access Ebscohost. Instructions can also be found in Moodle.

System Analysis and Design – Overview
https://www.tutorialspoint.com/system_analysis_and_design/system_analysis_and_design_overview.htm
System Analysis and Design – YouTube
https://www.youtube.com/watch?v=pOzSIT2Chi0
Effectiveness of Systems Analysis and Design Education: An Exploratory Study
https://www.igi-global.com/article/effectiveness-systems-analysis-design-education/3754
BA Training | Business analysis Training | MS Visio GUI ... – YouTube
https://www.youtube.com/watch?v=B0atlsLCqcg