ICT750 INFORMATION SYSTEMS PROFESSIONAL PRACTICE
T324 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	Postgraduate	Ilja NASTJUK Email: ilja.nastjuk@koi.edu.au P: +61 (2) 9283 3583 L: Level 1-2, 17 O'Connell St. Consultation: via Moodle or by appointment

1.2 Core/Elective

This subject is
- A core subject for the Master of Information System (MIS)
- A core subject for the Graduate Diploma of Information System (GDIS) for students from a cognate background

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); GDIS (32 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 Face-to-face unless otherwise notified (please check Moodle).

1.6 Pre-requisites Completion of 3 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.

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

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 discusses the work of a professional in information systems. It explores the professional opportunities and challenges for working with information systems.

It equips students with knowledge and skills of techniques and standards related to information systems for professional practice and project management.

These subject covers information technology (IT), governance frameworks, project management fundamentals and data ethics to provide a well-rounded foundation for practice as an IS professional. It includes both traditional methods and agile methodologies of project management. It also looks at contemporary information systems professional practice from both a theoretical and practical perspectives. Professional Practice is taught in this subject by assessing real world applications in the workplace.

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 in a range of contexts for professional practice or scholarship and as a pathway for further learning.

King's Own Institute's key generic graduate attributes for a postgraduate 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

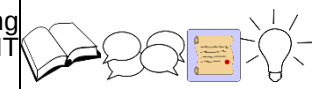
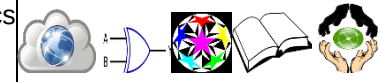
Across the courses, these skills are developed progressively at three levels:

- **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) Determine the appropriate IT governance framework for managing organisational IT resources and discuss management practices for IT governance.	
b) Examine and assess project management techniques and methodologies in the information systems domain.	
c) Analyse ethical issues associated with the use of information systems (especially data collection and storage, and use).	
d) Apply contemporary project management and professional ethics skills to the real-world issues.	

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
1 28 Oct	Introduction to IT governance frameworks	Ch. 9 O'Keefe & O'Brien (2018)	Tutorial: Case study discussion and exercises on use of IT governance frameworks
2 04 Nov	IT governance frameworks (COBIT and ITIL)	Ch. 5 O'Keefe & O'Brien (2018)	Tutorial: case study discussion and exercises on IT service management throughout service lifecycle **Assessment 1: due** Reflection on COBIT and ITIL with real world examples
3 11 Nov	Personal, legal, ethical, and social issues	Ch. 2 & Ch. 3 O'Keefe & O'Brien (2018)	Tutorial: case study discussion and exercises on management practices for IT governance
4 18 Nov	Data credentials and privacy	Ch 3 O'Keefe & O'Brien (2018)	Tutorial: case study discussion and exercises on importance of data privacy and changing practices in this domain **Assessment 1: due** Reflection on data privacy, ethical and social issues based on given case study scenarios

5 25 Nov	Data Security	Ch 6 & 7 O'Keefe & O'Brien (2018) and Extra resources will be provided	Tutorial: case study discussion and exercises on comparison of data security solutions
6 02 Dec	Data Ethics	Ch. 8 & Ch. 10 O'Keefe & O'Brien (2018)	Tutorial: case study discussion and exercises on ethical violations when dealing with data **Assessment 1: due** Reflection on data ethics and security with real world industry-based examples/case study based open-source data
7 09 Dec	Intellectual Property Rights	Ch. 7 & Ch. 11 O'Keefe & O'Brien (2018)	Tutorial: case study discussion and exercises on sociotechnical aspects of project management **Assessment 2: due Individual written report**
8 16 Dec	Modern Project Management	Ch1 Larson & Gray (2021)	Tutorial: case study discussion and exercises on creating project network and practical considerations **Assessment 1: due** Reflection on Intellectual property rights and project management, corelate with your own A2 and A4 case study
9 06 Jan	Scheduling, risk, and cost estimation	Ch5 ,6 & 7 Larson & Gray (2021)	Tutorial: case study discussion and exercises scrum, sprint, and release burndown charts **Assessment 3: due Quiz/in -class exam**
10 13 Jan	Agile Project Management	Ch15 Larson & Gray (2021)	Tutorial: case study discussion and exercises on Kanban and associated limitations of Agile methodology **Assessment 1: due** Reflection on Agile project risk and cost estimation
11 20 Jan	Managing project teams, real world industry projects and IT careers	Ch11 Larson & Gray (2021), Extra resources will be provided on Moodle	Tutorial: case study discussion and exercises on social network building and ethical practices of project managers Guest lecture from industry to cover real world projects **Assessment 4: due** Group Project Report

12 28 (Tue) Jan	IT careers and the importance of professional networks: Guest lecturer from a recruiting firm to deliver a brief real-world lecture about IT careers and the importance of professional networks.	Extra resources will be provided on Moodle	Guest lecture, revision and final presentation **Assessment 4: due** Group Project Presentation
13 03 Feb	Study review week and Final Exam Week		
14 10 Feb	Examinations Continuing students - enrolments for T125 open		Examinations Continuing students - enrolments for T124 open
15 17 Feb	Student Vacation begins New students - enrolments for T125 open		
16 24 Feb	• Results Released • Review of Grade Day for T324 – 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.		

T125 3 Mar 2025	
1 03 Mar	Week 1 of classes for T125

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 within the BIT degree 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: Individual Biweekly Reflection Week 2: Reflection on COBIT and ITIL with real world examples Week 4: Reflection on data privacy, ethical and social issues based on given case study scenarios Week 6: Reflection on data ethics and security with real world industry-based examples/case study based open-source data Week 8: Reflection on Intellectual property rights and project management, corelate with your own A2 and A4 case study Week 10: Reflection on Agile project risk and cost estimation	Week 2, Week 4, Week 6, Week 8 and Week 10	20% (5% - biweekly) Week 2 – 0%, Week 4 – 5% Week 6 – 5% Week 8 – 5% Week 10 – 5%	a, b, c, and d
Assessment 2: Individual written report (1500 words) on data ethics in business scenario	Week 7	35%	a and c
Assessment 3: Quiz on information systems project management, ethical issues, and IT governance	Week 9	15%	a, b, and c
Assessment 4: Case study: group written report and presentation on data ethics and information systems project management practices (1500 words, group – 1000 words, individual – 500 words))	Report: Week 11 (Group and individual contribution) Presentation: Week 12 (Group and individual contribution)	20% 10%	c and d

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:

O'Keefe, K. and O Brien. D. (2023). *Data Ethics Practical Strategies for Implementing Ethical Information Management and Governance.* 2nd Edition. Kogan Page.

Larson, E., and Gray C. (2021). *Project Management: The Managerial Process*. 8th Edition, McGraw Hill.

Recommended Readings:

Budnik, R & Tedeev, A. (2023) 'Initial designs of artificial humans: intellectual property and ethical aspects *Journal of Law, Innovation and Technology*, 15(1), Pp222-240, DOI: 10.1080/17579961.2023.21841

Carsten, B. Eke, D.E. (2024).'The ethics of ChatGPT – Exploring the ethical issues of an emerging technology',*International Journal of Information Management*,74(1), Pp1-14 ISSN 0268-4012, https://doi.org/10.1016/j.ijinfomgt.2023.102700.

Ganesh, M. (2023). *The Justification for Intellectual Property Rights*. Available at SSRN: https://ssrn.com/abstract=4470033 or http://dx.doi.org/10.2139/ssrn.4470033

Htoo, T. T., Dodanwala, T. C., & Santoso, D. S. (2023). 'Project management maturity and performance of building construction projects in Myanmar'. *Practice Periodical on Structural Design and Construction*, 28(1), 04022070.

Hekkala, R., Stein, M. K., & Sarker, S. (2022). 'Power and conflict in inter-organisational information systems development.' Information Systems Journal, 32(2), Pp440-468

Project Management Institute. (2021). *A Guide to the Project Management Body of Knowledge: PMBOK(R)* Guide. 7th edition.

Project Management Institute. Shukla, S., George, J., Tiwari, K. & Kureethara J. (2022). 'Data Ethics and Challenges'. Springer.

Pereira, J., Varajao, J., & Takagi, N. (2022). 'Evaluation of information systems project success-Insights from practitioners'. Information Systems Management, 39(2), Pp138-155.

Silvius, G., & Marnewick, C. (2022). Interlinking Sustainability in Organizational Strategy, Project Portfolio Management and Project Management A Conceptual Framework. Procedia Computer Science, 196, 938-947

Zakrzewska, M., Piwowar-Sulej, K., Jarosz, S. Sagan, A., & Sottysik, M. (2022). The linkage between Agile project management and sustainable development: A theoretical and empirical view. Sustainable Development. Open access journals: PMI Project Management Journal https://www.pmi.org/learning/publications/project management journal Elsevier: https://www.journals.elsevier.com/international-journal -of-project-management Emerald: http://www.emeraldgrouppublishing.com/products/journals/journals.htm?id=ijmpb

Suggested Periodicals:

Australian Government Department of Industry, Innovation and Science 2019. Artificial intelligence: Australia's ethics framework. Retrieved from: https://consult.industry.gov.au/strategic-policy/artificial-intelligence-ethics-framework/Hagendorff, T. (2019). The ethics of AI ethics. An evaluation of guidelines. arXiv, 1-15.

Gandomani, T. J., Tavakoli, Z., Zulzalil, H., & Farsani, H. K. (2020). The role of project manager in agile software teams: A systematic literature review. IEEE Access, 8, 117109-117121.

Hekkala, R., Stein, M. K., & Sarker, S. (2022). Power and conflict in inter-organisational information systems development. Information Systems Journal, 32(2), 440-468.

O'hara, K., (2019). Data Trusts: Ethics, Architecture and Governance for Trustworthy Data Stewardship (WSI White Papers, 1) Southampton. University of Southampton 27pp. (doi:10.5258/SOTON/WSIWP001).

Pereira, J., Varajao, J., & Takagi, N. (2022). Evaluation of information systems project success-Insights from practitioners. Information Systems Management, 39(2), 138-155.

Silvius, G., & Marnewick, C. (2022). Interlinking Sustainability in Organizational Strategy, Project Portfolio Management and Project Management A Conceptual Framework. Procedia Computer Science, 196, 938-947.

Watts, D. (2019). How big tech designs its own rules of ethics to avoid scrutiny and accountability. The Conversation. Retrieved from: https://theconversation.com/how-big-tech-designs-its-own- rulesofethics-to-avoid-scrutiny-and-accountability-113457

White, S. and Greiner, L. (2019). What is ITIL? Your guide to the IT Infrastructure Library. CIO. 16 May 2022.

Zakrzewska, M., Piwowar-Sulej, K., Jarosz, S. Sagan, A., & Sottysik, M. (2022). The linkage between Agile project management and sustainable development: A theoretical and empirical view. Sustainable Development.

Open access journals:

PMI Project Management Journal https://www.pmi.org/learning/publications/project management journal
Elsevier: https://www.journals.elsevier.com/international-journal -of-project-management

Emerald: http://www.emeraldgrouppublishing.com/products/journals/journals.htm?id=ijmpb

Websites:

The following websites are useful resources covering a range of information for this subject.
Students are also expected to use the library and the internet.

http://www.pmi.org/pmbok-guide-and-standards/pmbok-gui de.aspx https://dl.acm.org/
https://www.journals.elsevier.com/
https://www.sciencedirect.com/science/article/abs/pii/ http://www.emeraldgrouppublishing.com
https://www.isaca.org/resources/cobit
https://www.atlassian.com/itsm/itil https://www.atlassian.com/agile

Conference/ Journal Articles:

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.