MEDI747

Research Project Management

S2 Day 2019

Medicine and Health Sciences Faculty level units

Contents

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General Information

Unit convenor and teaching staff
Jennifer Rowland
jen.rowland@mq.edu.au

Credit points
4

Prerequisites
Admission to MRes

Corequisites

Co-badged status

Unit description
This unit will review the key stages of a scientific/medical research project, from conception to completion, in the university research setting.
Topics covered will include: project design and planning; establishing key project contributors; launching a project; managing a project underway; troubleshooting and dealing with change; record keeping; communicating and networking; publishing; and project completion. These topics will be explored in the context of short (1 year) and long (3 year) classical academic research projects. Students completing this course should have developed a clear understanding of how to deliver a research project from start to finish. Special guest lecturers will also provide insight to research projects in different contextual settings.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at https://www.mq.edu.au/study/calendar-of-dates

Learning Outcomes

On successful completion of this unit, you will be able to:

Demonstrate advanced knowledge of how to design and deliver a project plan

Critically evaluate components and deliverables of a project

Apply understanding of project management techniques in their disciplinary practice

Evaluate best troubleshooting approaches and the required associated steps

Coordinate a research project of various types with diverse multidisciplinary teams

Demonstrate skills in communication and self-directed learning

Assessment Tasks

Name	Weighting	Hurdle	Due
Ethics and Safety Review	10%	No	Week 3
Retrospective review of thesis	40%	No	week 6
Project Cycle Analysis	30%	No	Week 10
Case study evaluation	20%	No	Week 13

Ethics and Safety Review

Due: **Week 3**
Weighting: **10%**

Choose a project from the exemplars and outline key ethical and safety concerns for the work. Explain the process by which you apply for human and animal ethics (where appropriate) in your faculty and how you might address key safety concerns. Clearly explain in the Macquarie University context. (500 words, images permitted) References: MQ university code for the responsible conduct of research

On successful completion you will be able to:

- Demonstrate advanced knowledge of how to design and deliver a project plan
- Critically evaluate components and deliverables of a project

Retrospective review of thesis

Due: **week 6**
Weighting: **40%**

Review a doctoral thesis by publication from your discipline to determine what the project plan may have retrospectively involved (several exemplars suggested). Outline, what was the project timeframe (when were the articles published), what were the key experimental approaches. What would the goals of the overall doctoral work have been? Individual project goals?

On successful completion you will be able to:

- Critically evaluate components and deliverables of a project
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- Evaluate best troubleshooting approaches and the required associated steps
- Coordinate a research project of various types with diverse multidisciplinary teams

Project Cycle Analysis

Due: **Week 10**
Weighting: **30%**

Complete a graphical presentation of the project cycle in your discipline. Highlight at least three issues that might impact the project at any stage of the cycle, and outline approaches that might be taken to troubleshoot these issues as they arise. (1 page graphic and up to 500 words for each troubleshooting approach, plus 500 words outlining/summary)

On successful completion you will be able to:

• Demonstrate advanced knowledge of how to design and deliver a project plan

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• Evaluate best troubleshooting approaches and the required associated steps

• Demonstrate skills in communication and self-directed learning

Case study evaluation

Due: **Week 13**
Weighting: **20%**

Review cases presented during each 3 tutorials, and present your responses to how to act in each case as an oral presentation, poster, or video presentation.

On successful completion you will be able to:

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• Evaluate best troubleshooting approaches and the required associated steps

• Coordinate a research project of various types with diverse multidisciplinary teams

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Delivery and Resources

As a student enrolled in MEDI747 Research Project Management, you will engage in a range of online and face-to-face learning activities, including readings, presentations, workshops, and a weekly seminar. Details can be found on the MEDI747 iLearn site.

There is no textbook for this unit and reading details will be provided in class and on iLearn.

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://staff.m

q.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
- Academic Integrity Policy
- Academic Progression Policy
- Assessment Policy
- Fitness to Practice Procedure
- Grade Appeal Policy
- Complaint Management Procedure for Students and Members of the Public
- Special Consideration Policy *(**Note:** The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.)*

Undergraduate students seeking more policy resources can visit the Student Policy Gateway (https://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/study/getting-started/student-conduct

Results

Results published on platform other than eStudent, (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

- Workshops
- StudyWise
- Academic Integrity Module for Students

- Ask a Learning Adviser

Student Services and Support

Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/ offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

Learning outcomes

- Demonstrate advanced knowledge of how to design and deliver a project plan
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- Apply understanding of project management techniques in their disciplinary practice
- Evaluate best troubleshooting approaches and the required associated steps
- Coordinate a research project of various types with diverse multidisciplinary teams
- Demonstrate skills in communication and self-directed learning

Assessment tasks

- Ethics and Safety Review
- Retrospective review of thesis
- Project Cycle Analysis
- Case study evaluation

PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

Learning outcomes

- Demonstrate advanced knowledge of how to design and deliver a project plan
- Critically evaluate components and deliverables of a project
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PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

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- Demonstrate advanced knowledge of how to design and deliver a project plan
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PG - Research and Problem Solving Capability

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

Learning outcomes

- Demonstrate advanced knowledge of how to design and deliver a project plan

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PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

Learning outcomes

- Demonstrate advanced knowledge of how to design and deliver a project plan

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- Apply understanding of project management techniques in their disciplinary practice

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PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues

This graduate capability is supported by:

Learning outcomes

- Demonstrate advanced knowledge of how to design and deliver a project plan
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