

NATS 7053 MSC RESEARCH PROJECT (EXTENDED)

Credit Points 20

Legacy Code 301372

Coordinator Mark Williams ([https://directory.westernsydney.edu.au/search/name/Mark Williams/](https://directory.westernsydney.edu.au/search/name/Mark%20Williams/))

Description This unit extends the research project undertaken in 401156 MSc Research Project into a substantial piece of research work. This unit provides a further opportunity for students to demonstrate that they can consolidate the knowledge acquired through their course of study, understand how existing evidence/information relates to research topics, and how their own work adds to this body of knowledge. The finding of the project will be presented in a thesis and in an oral presentation. On completion of the MSc with this unit, the student should have sufficient research project work to qualify for entry into a PhD program.

School Science

Discipline Natural and Physical Sciences, Not Elsewhere Classified.

Student Contribution Band HECS Band 2 20cp

Level Postgraduate Coursework Level 7 subject

Co-requisite(s) NATS 7033

Learning Outcomes

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

1. Critique peer-reviewed literature from the student's discipline and evaluate the strengths and weakness of this work.
2. Design and conduct experiments within a project framework to test project aims.
3. Analyse the data from experiments and formulate conclusions.
4. Justify results and conclusions using oral and written communication.
5. Devise possible areas of inquiry for future research or development.

Subject Content

1. Critical literature appraisal on a selected paper from literature.
2. Experimental design and Project management skills.
3. Analysis of data, using appropriate statistical methods where required.
4. Report writing in the scientific format of a thesis.
5. Critical evaluation of data to judge its significance and develop conclusions from these results.
6. Development of an oral talk for presentation of results and conclusions of research project.

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Item	Length	Percent	Threshold	Individual/ Group Task
Critical Review	2000 words	20	N	Individual

Report	1200 words	60	N	Individual
Presentation	15 mins	20	N	Individual

Teaching Periods

Autumn

Parramatta - Victoria Rd

Day

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Spring

Parramatta - Victoria Rd

Day

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View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS7053_22-SPR_PS_D#subjects)