

SP3176 The Alternative Universe Project

Propose your research project for SP3172 Integrated Science Project

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In the Alternative Universe, you will likely be doing something outside of The Universe. In this assessment task, you will take your first steps towards SP3172 Integrated Science Project – **form a group, choose a research topic of interest, perform a literature review, and propose a research project.**

Learning Objectives

- Collaborate effectively with a team of like-minded students, fostering strong rapport and cooperation while working towards a common research goal.
- Develop a comprehensive understanding of the chosen research topic, including its key concepts and current developments, and critically assess potential research directions.
- Familiarize yourself with the research landscape at NUS, identifying relevant resources and opportunities that will inform and enrich your SP3172 project.
- Hone your science communication skills, becoming proficient in articulating complex scientific ideas to peers, mentors, and academic staff in a clear and engaging manner.

Administrative details

On week 0, attend the SP3172+SP3275+SP3176 course briefing.

By week 4, form groups of 3. Record here.

From week 5 to the end of The Universe, perform a literature review on the topic of interest.

By week 6, provide a potential research topic and record. The topic can be updated anytime thereafter.

In weeks 9–12, work on the research proposal and group presentation. Arrange one meeting with the lecturer to update progress and receive feedback.

In weeks 12-13, start looking for a Principle Investigator (PI) to work with in Semester 2.

On week 13, present the research proposal in the form of an oral presentation (15 min + 5 min Q&A).

Oral Presentation

Only the oral presentation will be assessed for SP3176. It holds 10% weightage of the total assessment. Suggestion to structure the presentation:

- Background and significance of proposal
- Possible research question or hypothesis
- Possible Research method/approach/experimental design
- Possible challenges

HAVE FUN!!