SMU

School of
Computing and Information Systems

Course Code:	IS485
Course Name:	IS/SMT/C&L Project Experience (Research)
When was the course design document last verified by the Course Manager:	April 2021

NOTE: The information given in this document is for reference only; the updates given during the class sessions and/or eLearn will supersede the information given in this document.

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Please note that the below information is for Term 2, AY2024-25 and earlier. For AY2025-26 and onwards, there will be a new public course catalogue. Please watch out for email updates from RO/in BOSS.

1. **Synopsis**

   IS485 aims to introduce students to academic and industry research in Information systems. it allows students to experience first hand, the challenges of research, discovery and innovation, and allows students to work near the frontiers of research in the field.

   · IS485 Research projects can be either done as an industry research project (SMU-X) or an academic research project (non SMU-X).

   · Students who do the IS485 (Academic Research Project) will have to source their own faculty supervisor

   · Students who do the IS485 (Industry Research Project) will have to source both an industry mentor and a faculty supervisor to mentor the team

   For students who take up the IS485 project and perform an industry research project, this module will be considered an SMU-X module.

2. **Prerequisites/Co-requisites**

   - GPA of >= 3.40
   - Year 3 or Year 4
   - Work on one of the tracks declared for your first major
   - *For SMT Major students:* Empirical Studies, Research Methods, Analytics Foundation, Geographic Information Systems, Sustainable (Digital) Cities, Introduction to Public Policy.
   - *For BA/ DCS/ FT students*: IS212 (Software project Management) is a co- requisite. You also need to pass any two track courses, one of which can be a co-requisite.
   - **Mutually exclusive:** IS483/ IS484
   - Students must find a SCIS faculty member (for all research projects) and an industry mentor (for industry research project) who agrees to serve as his/her project supervisor
   - Students who do not meet the GPA requirement will need to seek special permission from the Course Coordinator.

   (Please check Course Catalogue in BOSS for updated information)

3. **Application Procedure**

   - Student consults industry mentor and/or faculty supervisor to discuss possible project topic
   - Supervisor assesses student's academic background and commitment, and decides whether to supervise project.
   - Student prepares project proposal and submits prior to the IS483/ IS485 project submission deadline via e-learn.
   - Track coordinator and course coordinator to review the project and communicate with student on approval status.
   - Students to bid in BOSS Round 2 e$10 for enrolment.

4. Course Coordinator

Faculty: Kiruthika Ramanathan

5. Course Assessments

Assessment Categories	Weightage (%)
Project Proposal	5
Midterm presentation	35
Final presentation	20
Term paper	40
Total	**100**

6. Course Assessment Details

Each student will work with the supervisor to develop the research project.

1. Project Proposal (5%)

- Due date: End of Week -8
- The project proposal should specify the research area, the goal of the research and a plan to achieve the research goal.

2. Midterm report and feedback (35%)

- Due date: Week 8
- The report should re-iterate and possibly refine the goal of the research, revise the plan for achieving the goal, and present detailed progress made towards the goal.

3. Final presentation (20%)

- Due date: Week 14
- The presentation should show the research problem, the research goal, the adopted methodology, and the research outcome.

4. Term paper (40%)

- Due date: End of Week 14
- The term paper should cover one (or more) of the following (non-exclusively):
  - · deep literature review;
  - · case study with scientific value;
  - · problem formulation, initial solution design, evaluation/validation methodology, analysis (note: pure implementation projects are discouraged)
  - · analytical methods (optimization, simulation, industrial organization), empirical methods (surveys, field study, experiments).

7. University Policies

Academic Integrity

All acts of academic dishonesty (including, but not limited to, plagiarism, cheating, fabrication, facilitation of acts of academic dishonesty by others, unauthorized possession of exam questions, or tampering with the academic work of other students) are serious offences.

All work (whether oral or written) submitted for purposes of assessment must be the student's own work. Penalties for violation of the policy range from zero marks for the component assessment to expulsion, depending on the nature of the offense.

When in doubt, students should consult the instructors of the course. Details on the SMU Code of Academic Integrity may be accessed at

https://smu.sharepoint.com/sites/oasis/SitePages/DOS-WKLSWC/UCSC.aspx.

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Accessibility

SMU strives to make learning experiences accessible for all. If you anticipate or experience physical or academic barriers due to disability, please let me know immediately. You are also welcome to contact the university's student accessibility support team if you have questions or concerns about academic provisions: accessibility@smu.edu.sg. Please be aware that the accessible tables in our seminar room should remain available for students who require them.

Digital Readiness for Teaching and Learning (DRTL)

As part of emergency preparedness, instructors may conduct lessons online via the Zoom platform during the term, to prepare students for online learning. During an actual emergency, students will be notified to access the Zoom platform for their online lessons. The class schedule will mirror the current face-to-face class timetable unless otherwise stated.