



CENTRE FOR INTERNATIONAL RELATIONS

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Circular326/CIR/2023

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CIRCULAR

Swinburne University of Technology, Australia with whom we have Memorandum of Understanding (MoU) is offering **Final semester project for Engineering students** (Current 7th semester students of UG and 3rd semester students of PG can apply) at Swinburne University of Technology, Malaysia. Interested students of UG (7th semester) and PG (3rd semester) Anna University, Chennai (CEG, ACT, SAP and MIT campuses) can apply for this programme.

Interested students of Anna University campus can send their detailed application with their Bio-Data forwarded through their Head of the Department to the Director, Centre for International Relations, Anna University, Chennai 600 025 on or before 31.07.2023. Selected students should get prior permission from the respective departments and the Centre for Academic Courses. The details pertaining to this programme are given on the next page.

R. Baskaran
15-05-2023
DIRECTOR

To
All Deans of campuses
All Directors and HODs (With a request to display on notice board)



IERE

International Research Experiences in Engineering *Program*

Jan to May 2024

An
opportunity
to make
your 8th
semester
the most
exciting &
rewarding
one !





What is IERE program and who is it for?

- IERE is an **International Research Experiences in Engineering** Program exclusively customised for Engineering Students who are currently in their 4th year of study, in their 7th semester looking to take up a project or internship.
- With no restrictions on the stream, students can also do a cross domain project. Ex: An Aerospace Engineering student can do a project in IT/ Comp Science etc

Why is IERE the most exciting & rewarding program?

- Engineering students are expected to take up a project / internship in the 8th semester.
- IERE program facilitates the students by providing the best of an international experience in a top ranked University Campus - both living & classroom learning experience under the guidance / supervision by an international faculty.
- On completion, the student will receive 25 credit points and a Certificate that enhances the resume and strengthens the chances of securing a dream career or admission into the desired Master's program as a further study.
- The credits are shared in the form of transcripts, for the acceptance of the parent institution, which will be sought in advance and agreed upon on credits sharing.

What is required to take up the IERE program?

- Minimum 300 Credit Points or completion of three year of full-time undergraduate engineering study.

What is the IERE program study duration?

- As an 8th semester project, the IERE program duration spans from 4 to 6 months depending upon the choice of the project.

How is the IERE program structured?

- The IERE program can be opted by the students either 100% offline at the international campus or 50% online classes and 50% offline at the international campus.





New campus, rewarding *experience*

You will be in a world-class campus with amazing facilities with an expert faculty guiding & supervising you through the project for an enriching mini research experience.



New places, new *friends*

You may be there only for two to four months, but this is an opportunity to make friends for a lifetime.



IERE Program 2023-24 Swinburne Sarawak, Malaysia

Established in 2000, the 16.5-acre city campus is located in Kuching, the capital city of the largest Malaysian state of Sarawak. It is the international branch campus of Swinburne University of Technology, Melbourne, Australia.

The custom-designed campus has a current student population of 4,000. Apart from Malaysia, students hail from more than 60 countries, making it a truly international university.

Swinburne Sarawak successfully retained its 5-star rating in the Ministry of Education's latest Rating for Higher Education Institutions in Malaysia.



IERE Program 2023-24

Swinburne Sarawak, Malaysia

International Research Experiences
Faculty of Engineering, Computing and Science

Unit Outline

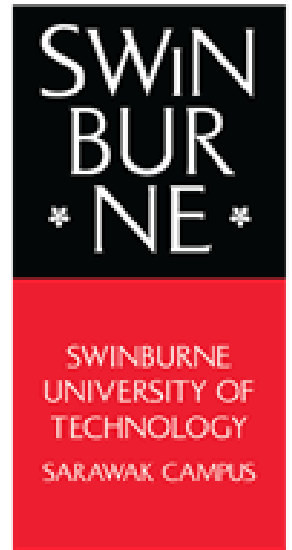
IRE40001

International Research Experiences in Engineering
January, 2024

Please read this Unit Outline carefully. It includes:

PART A Unit summary

PART B Your unit in more details



PART A: Unit Summary

Unit Code(s)	IRE40001		
Unit Title	International Research Experiences in Engineering		
Duration	18 weeks		
Total Contact Hours	70 hours		
Requisites:			
Pre-requisites	Minimum 300 Credit Points or completion of three year of full-time undergraduate engineering study or equivalent.		
Co-requisites	None		
Concurrent pre-requisites	None		
Anti-requisites	None		
Assumed knowledge	None		
Credit Points	25		
Campus/Location	Sarawak		
Mode of Delivery	Blended		
Assessment Summary	Assessment	Individual or Group	Weighting
	Research Plan	Individual	10%
	Poster Presentation	Individual	10%
	Oral Presentation	Individual	10%
	Research Paper	Individual	10%
	Final Report	Individual	50%
	Workbook	Individual	10%

Aims

This unit of study aims to introduce you to engineering research through planning and managing an innovative engineering research project, using research methods and reflecting on broader professional issues related to the project.

Unit Learning Outcomes

Students who successfully complete this Unit should be able to:

1. Plan and manage an innovative engineering research project, using project management processes and tools, and self-management skills, within technical, budgetary, risk and time constraints (K1, K2, K3, K4, S1, S2, S3, S4, A2, A3, A4, A5, A6)
2. Research a complex problem within given constraints, using knowledge and skills developed during the course by formulating research questions, appraising current literature and developments, and applying research principles and methods to generate, evaluate and justify innovative solutions (K1, K2, K3, K4, S1, S2, S3, A2, A3, A4)

3. Apply effective research methods, practices, principles and technological tools to implement a complex engineering project work; with data acquisition, data analysis, interpretation and synthesis (K3, K4, S1, S2, S3, A2, A3, A4)
4. Apply problem-solving methodologies to generate, evaluate and justify innovative solutions (K1, K2, K3, K4, S1, S2, S3, A3)
5. Demonstrate effective professional written and oral communication to a variety of audiences through proposals, reports, documentation and presentations (A2, A4)
6. Reflect on professional engineering practice and its impact on the project, including safety, ethical, legal, social, cultural and sustainability considerations, along with standards and codes of practice (A1, A2, A4, K5, K6, S4)
7. Demonstrate professionalism, integrity, ethical conduct and professional accountability in all aspects of project work, including teamwork (when appropriate and applicable), dealing with stakeholders and demonstrating a professional image (K5, K6, S4, A1, A2, A5, A6)

Graduate Attributes

This unit may contribute to the development of the following Swinburne Graduate Attributes:

- Communication skills
- Teamwork skills
- Digital literacies

Content

Research

- The principles of engineering research
- Defining the research problem
- Reviewing the literature
- Research methods and methodologies
- Ethics and plagiarism
- Planning a research project
- Communicating research outcomes
- The roles of students and supervisors

The Engineering Profession

- The Profession of Engineering
- Issues associated with professional engineering practice, including safety, ethical, legal, social, cultural and sustainability considerations
- Reflection and self-review practices

Key Program Outcomes (Swinburne Engineering Competencies) for this Unit of Study

This unit will contribute to your attaining the following Program Outcomes (Swinburne Engineering competencies):

- K1 Basic Science:** Proficiently applies concepts, theories and techniques of the relevant natural and physical sciences.
- K2 Maths and IT as Tools:** Proficiently uses relevant mathematics and computer and information science concepts as tools.
- K3 Discipline Specific:** Proficiently applies advanced technical knowledge of the specific discipline within that context.
- K4 Emerging Disciplinary Trends:** Interprets and applies current or emerging knowledge from inside and outside the specific discipline.

- K5 Practice Context:** Discerns and appreciates the contextual factors affecting professional engineering practice.
- K6 Professional Practice:** Appreciates the principles of professional engineering practice in a sustainable context.
- S1 Engineering Methods:** Applies engineering methods in practical applications.
- S2 Problem Solving:** Systematically uses current or emerging knowledge and research methods to undertake independent research in solving complex engineering problems and as preparation for research higher degrees.
- S3 Design:** Systematically uses engineering methods in design.
- S4 Project Management:** Systematically uses engineering methods in conducting and managing project work including finance.
- A1 Ethics:** Values the need for, and demonstrates, ethical conduct and professional accountability.
- A2 Communication:** Demonstrates effective communication to professional and wider audiences.
- A3 Entrepreneurial:** Appreciates entrepreneurial approaches to engineering practice.
- A4 Information Management:** Demonstrates seeking, using, assessing and managing information.
- A5 Professional Self:** Demonstrates professionalism.
- A6 Management of Self:** Demonstrates self-management processes.



PART B: Your unit in more details

Learning and Teaching Structure

Activity	Total Hours	Hours per Week	Teaching Period Weeks
Lectures	18 hours	2 hours	Weeks 1 - 9
Workshops/Seminars	18 hours	1 hour	Weeks 1 - 18
Supervisor Meetings	18 hours	1 hour	Weeks 1 - 18
Online Modules	16 hours	2 hours	Weeks 1 - 16

Other non-scheduled learning activities including independent study, research and development activities & assessments (approximately 229 hours)

Week by Week Schedule

Week	Week Beginning	Teaching and Learning Activity	Student Task or Assessment
1		<ul style="list-style-type: none"> Lecture – Unit Introduction (Unit outline & assessment requirements) Research Seminar Supervisor meeting 	Research module 1 Workbook Research Plan
2		<ul style="list-style-type: none"> Lecture - Technical Resources & Lab safety Research Seminar Supervisor meeting 	Research module 1 Workbook Research Plan
3		<ul style="list-style-type: none"> Lecture - Developing Effective Strategies for Undergraduate Research, Using EndNote for Harvard Referencing Research Seminar Supervisor meeting 	Research module 2 Workbook Research Plan
4		<ul style="list-style-type: none"> Lecture - Literature Review Research Seminar Supervisor meeting 	Research module 2 Workbook Research Plan
5		<ul style="list-style-type: none"> Lecture - Writing Research Proposal/Plan Research Seminar Supervisor meeting 	Research module 3 Workbook Research Plan
6		<ul style="list-style-type: none"> Lecture - Statistics & Its Applications in Research (1) Research Seminar Supervisor meeting 	Research module 3 Workbook Research Plan
7		<ul style="list-style-type: none"> Lecture - Statistics & Its Applications in Research (2) Research Seminar Supervisor meeting 	Research module 4 Research Plan Submission Workbook
8		<ul style="list-style-type: none"> Lecture - Professional Writing Research Seminar Supervisor meeting 	Research module 4 Research activities Project development Workbook
9		<ul style="list-style-type: none"> Lecture - Writing Good Research paper Research Seminar Supervisor meeting 	Research module 5 Research activities Project development Workbook

10		<ul style="list-style-type: none"> Research Seminar Supervisor meeting 	Research module 5 Research activities Project development Workbook
11		<ul style="list-style-type: none"> Research Seminar Supervisor meeting 	Research module 6 Research activities Project development Workbook
12		<ul style="list-style-type: none"> Research Seminar Supervisor meeting 	Research module 6 Poster Presentation Research activities Project development Workbook
13		<ul style="list-style-type: none"> Research Seminar Supervisor meeting 	Research module 7 Research activities Project development Workbook
14		<ul style="list-style-type: none"> Research Seminar Supervisor meeting 	Research module 7 Research activities Project development Workbook
15		<ul style="list-style-type: none"> Research Seminar Supervisor meeting 	Research module 8 Research activities Project development Workbook
16		<ul style="list-style-type: none"> Research Seminar Supervisor meeting 	Research module 8 Research activities Project development Workbook
17		<ul style="list-style-type: none"> Research Seminar Supervisor meeting 	Research Paper Submission Workbook Submission
18		<ul style="list-style-type: none"> Research Seminar Supervisor meeting 	Oral presentation Final Report Submission

Assessment

a) Assessment Overview

Tasks and Details	Individual or Group	Weighting	Unit Learning Outcomes that this assessment task relates to	Assessment Due Date
Research Plan	Individual	10%	1, 2, 3, 4	Week 7
Poster Presentation	Individual	10%	1, 2, 3	Week 12
Oral Presentation	Individual	10%	1, 2, 3	Week 18
Research Paper	Individual	10%	1, 2, 3, 4	Week 17
Final Report	Individual	50%	1, 2, 3, 4	Week 18
Workbook	Individual	10%	1, 2, 3, 4, 5, 6, 7	Week 17

b) Minimum requirements to pass this Unit

As the minimum requirements of assessment to pass the unit and meet all Unit Learning Outcomes to a minimum standard, a student must achieve:

- An aggregate mark for the unit of 50% or more

c) Examinations

There is no examination in this unit.

d) Submission Requirements

Assignments and other assessments are generally submitted online through the Canvas assessment submission system which integrates with the Turnitin plagiarism checking service.

Please ensure you keep a copy of all assessments that are submitted.

ALL submissions must be submitted to the Canvas assignment in pdf format.

e) Extensions and Late Submission

Late Submissions - Unless an extension has been approved, late submissions will result in a penalty. You will be penalised 10% of your mark for each working day the task is late, up to a maximum of 5 days. After 5 working days, a zero result will be recorded.

You need to obtain approval for late submission from the convenor, stating the reason along with any factual evidence, at least one day before the due date of submission, in order to avoid this penalty.

f) Referencing

To avoid plagiarism, you are required to provide a reference whenever you include information from other sources in your work. Further details regarding plagiarism are available in Section C of this document.

Referencing conventions required for this unit are: IEEE style

Helpful information on referencing can be found at

<https://www.swinburne.edu.my/library/referencing>

g) Groupwork Guidelines

There is no groupwork in this unit.

Required Textbook(s)

Research publications and other materials suggested by the project supervisor.

Recommended Reading Materials

The Library has a large collection of resource materials, both texts and current journals. Listed below are some references that will provide valuable supplementary information to this unit. It is also recommended that you explore other sources to broaden your understanding.

Online Databases

<https://www.swinburne.edu.my/library/databases/databases-a.php>

eBooks

<https://www.swinburne.edu.my/library/databases/ebooks.php>

Online Magazines

<https://www.swinburne.edu.my/library/search/magazines.php>

Research publications and other materials suggested by the project supervisor.

Other information

a) Project Details

- Individual project
- The project title will be proposed by the supervisors
- Project timeline
 - Engineering:
 - Week 4 - Project proposal/ Research plan
 - Week 7 - Progress report/ Poster presentation
 - End of semester – Oral presentation, final report, research paper and workbook

b) Fees



- Unit fee: RM10,000- Does not include, flight, transport, Visa, living costs



c) Hubridy's Off-Campus Accommodation

Hubridy Company is a start-up founded by a Swinburne alumnus and is supported by the Swinburne Innovation Malaysia Sdn. Bhd. This accommodation options are tailored for Swinburne's students and staff members. Booking for accommodation can be done through its website at www.hubridycompany.com.

Accommodation options:



Room type	Maximum occupancy	Monthly rental per pax	Description
72 Residences			
Sharing with attached bathroom	4	RM950.00	<ul style="list-style-type: none"> Fully furnished 100 mbps Unifi (Wifi) Room comes with AC Room comes with bed and mattress Room comes with wardrobe and a desk 
Sharing without attached bathroom	2	RM850.00	<ul style="list-style-type: none"> Fully furnished 100 mbps Unifi (Wifi) Room comes with AC Room comes with bed and mattress Room comes with wardrobe and a desk 

Other amenities included:



- New building
- Gymnasium
- Swimming pool
- 24 hours security with CCTV surveillance
- Located in Jalan Song
- Distance: 3KM/6 mins to Swinburne Sarawak


Remark:

- Utilities charges included
- Free shuttle service available as per schedule
- Rental price shown is applicable for 1-year tenure and above excluding final year student
- 2-month tenancy deposit and 1st month tenancy rental upon entering the tenancy

Kenny Hill				
Single with attached bathroom	1	RM1,350.00	<ul style="list-style-type: none"> • Fully furnished • 100 mbps Unifi (Wifi) • Room comes with AC • Room comes with bed and mattress • Room comes with wardrobe and a desk 	
Single without attached bathroom	1	RM1,050.00	<ul style="list-style-type: none"> • Fully furnished • 100 mbps Unifi (Wifi) • Room comes with AC • Room comes with bed and mattress • Room comes with wardrobe and a desk 	

Sharing with attached bathroom	2	RM950.00	<ul style="list-style-type: none"> Fully furnished 100 mbps Unifi (Wifi) Room comes with AC Room comes with bed and mattress Room comes with wardrobe and a desk 
Sharing without attached bathroom	2	RM850.00	<ul style="list-style-type: none"> Fully furnished 100 mbps Unifi (Wifi) Room comes with AC Room comes with bed and mattress Room comes with wardrobe and a desk 
<p>Other amenities included:</p> <ul style="list-style-type: none"> Walking distance to Swinburne Sarawak High-speed Unifi Internet Free Laundry Facilities Rental inclusive of utility bills Newly-completed building 24 hours security with CCTV surveillance Private carpark (additional charges) Located in Kenny Hill Distance: 1KM/ 3 mins to Swinburne <p>Remark:</p> <ul style="list-style-type: none"> Utilities charges included Free shuttle service available as per schedule Rental price shown is applicable for 1-year tenure and above excluding final year/Exchange student 2-month tenancy deposit and 1st month tenancy rental upon entering the tenancy 			

Pine Hotel			
Triple Room	3	RM1,400.00	<ul style="list-style-type: none"> Fully furnished 100 mbps Unifi (Wifi) Room comes with AC Room comes with bed and mattress Room comes with wardrobe and a desk 
Deluxe Room	2	RM1,650.00	<ul style="list-style-type: none"> Fully furnished 100 mbps Unifi (Wifi) Room comes with AC Room comes with bed and mattress Room comes with wardrobe and a desk 
<p>Other amenities included:</p> <ul style="list-style-type: none"> 24 hours security with CCTV surveillance Private carpark Laundry Service (additional charges) Located in Jalan Tun Jugah Distance: 2KM/ 5 mins to Swinburne <p>Remark:</p> <ul style="list-style-type: none"> Utilities charges included Free shuttle service available as per schedule Rental price shown is applicable for 1-year tenure and above excluding final year/Exchange student 2-month tenancy deposit and 1st month tenancy rental upon entering the tenancy 			

Titanium			
Titanium	-	RM650.00	<ul style="list-style-type: none"> • Tastefully furnished • Room comes with AC • Room comes with bed and mattress • Room comes with wardrobe and a desk • Security Safety Box • Laundry services • Sharing Kitchen and Common Area 
<p>Other amenities included:</p> <ul style="list-style-type: none"> • 24 hours security with CCTV surveillance • Public carpark • Cleaning service in common area • Located in Jalan Song • Distance: 1KM/ 10 mins to Swinburne <p>Remark:</p> <ul style="list-style-type: none"> • Transportation not included • Utilities charges included (Limit to RM30) • Rental price shown is applicable for 1-year tenure and above excluding final year student • 2-month tenancy deposit and 1st month tenancy rental upon entering the tenancy 			

Sapphire				
Single room	1	RM1,200.00	<ul style="list-style-type: none">• Fully furnished• 100 mbps Unifi (Wifi)• Room comes with AC• Room comes with bed and mattress• Room comes with wardrobe and a desk• Laundry machine	
Sharing room	2	RM1,200.00	<ul style="list-style-type: none">• Fully furnished• 100 mbps Unifi (Wifi)• Room comes with AC• Room comes with bed and mattress• Room comes with wardrobe and a desk• Laundry machine	


Other amenities included:

- Gymnasium
- Swimming Pool
- 24 hours security with CCTV surveillance
- Private carpark
- Token Laundry Machine
- New building
- Located in Batu Lintang
- Distance: 4KM/ 10 mins to Swinburne

Remark:

- Transportation included (1 return trip)
- Utilities charges included
- Rental price shown is applicable for 1-year tenure and above excluding final year student
- 2-month tenancy deposit and 1st month tenancy rental upon entering the tenancy

Citadine

Citadine		RM1,600.00	<ul style="list-style-type: none"> • Fully furnished • Room comes with AC • Room comes with bed and mattress • Room comes with wardrobe and a desk • Laundry machine (depending on the room type) • High speed internet • Housekeeping services once a week
			

Other amenities included:

- Gymnasium
- Swimming Pool
- Jacuzzi
- 24 hours security with CCTV surveillance
- Token Laundry Machine (additional charges)
- Located in Simpang Tiga
- Distance: 700M/ 5 mins walking to Swinburne

Remark:

- Utilities charges included
- Rental price shown is applicable for 1-year tenure and above excluding final year student
- 2-month tenancy deposit and 1st month tenancy rental upon entering the tenancy

Notes:

- The price shown is based on per pax, inclusive of transportation & utilities
- Rooms will be provided based on availability during the booking.

d) Security Deposit and Other Fees

International student is required by the Malaysian Immigration Department to make a security deposit. The rate of the security deposit is based on the country of origin of the student. The security deposit will be refunded upon graduation or if the student withdraws from the course.

Refundable security deposit	
• India	RM2,000
Other fees (non-refundable)	
• medical insurance	RM500
• processing fee* including those for visa, medical examination and student pass	RM2000

e) Living Expenses

- Groceries and eating out : RM200 – RM350 per month
- Phone and internet : RM50 – RM150 per month
- Transportation : RM25 – RM50 per week
- Entertainment : RM60 – RM150 per month
- Study expenses (book, stationery, etc.) : RM800 per year

The costs above are estimates only and should be taken as a guide in planning your budget while studying in Kuching.





Do You Want to Ace Your Project?



Create Your Career Path by
choosing an **IERE program** &
explore the world

IERE Program 2023-24
Swinburne Sarawak, Malaysia
8th semester project at Swinburne

Registrations on or before
October 30, 2023

APPLY NOW

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