



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UGS UNDERGRADUATE
SCHOOL OF GRADUATE STUDIES



UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAMME (UROP)

"Real research, real impact"

PROGRAMME OBJECTIVE

UROP is an initiative that provides students with opportunities to engage in real research, gain practical experience, and collaborate with the industry.

APPLICATION REQUIREMENTS

- Students register for Final Year Project 1.
- Application are open for students from FKT & FC (limited to 8 candidates only) for Semester 2 Sesssion 2024/2025
- For non-FC and FKT students, enrollment will open in the 2025/2026 Semester 2 session
- The project is based on industry/community problems.
- Industry experts will be appointed as Co-Supervisors.
- Industry collaboration documents.
- Research project proposal.

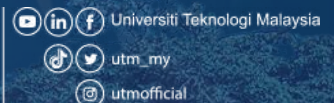
Students will receive a research incentive of

RM1,000.00

Applications can be made through the faculty's FYP Coordinator.



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WHY UROP?

When you participate in UROP, you are doing more than just engaging in research—you are creating opportunities that will extend far beyond your project. Whether you are considering an internship, your first job after graduation, or further studies, UROP provides an invaluable experience that brings you closer to achieving your career and academic goals.

Build Your Skills and Professional Network

Through UROP, you will enhance your technical competencies essential for conducting research while also developing critical soft skills such as problem-solving, critical thinking, and effective communication. Throughout the program, you will build strong connections with faculty members, industry experts, and mentors who can support and expand your professional network—giving you a competitive edge when entering the workforce or pursuing higher education.

Make an Impact with Real-World Research

UROP bridges theory and practice, offering hands-on learning opportunities that allow students to tackle real industry and community challenges. By working on meaningful projects, you contribute to research that has a tangible impact while gaining firsthand experience that prepares you for future challenges in academia, industry, and beyond.

Real research, real impact—that's UROP!

Proposals and Evaluations

Proposals and end-of-term evaluations are essential components of the UROP process and must be submitted through the faculty's UROP Application System as outlined below.

UROP Proposals

Proposals are student-authored documents (typically 1–3 pages) that outline the planned research for the semester. They serve as a critical part of the formal UROP application and approval process.

Each proposal must include the following:

1. Term and Supervisor Details

- Name of the faculty supervisor and industry co-supervisor (if applicable).
- Research location(s) (on-campus, industry site, or community-based research).

2. Project Overview

- Background and description of the research project, including its industry/community relevance and expected impact.

3. Communication Plan with Supervisor(s)

- Specify the frequency (e.g., weekly, bi-weekly) and method of communication (e.g., email, Microsoft Teams, Zoom, in-person) with faculty and industry co-supervisors.
- Example: "I will meet with my industry co-supervisor every two weeks via Microsoft Teams and submit bi-weekly progress updates."

4. Research Role & Work Plan

- Define your role in the project, specific responsibilities, and the expected contribution to the research outcomes.

5. Goals & Expected Outcomes

- Outline your personal learning objectives and expected deliverables, such as research findings, reports, prototypes, or publications.

THE IMPORTANCE OF MENTORSHIP IN UROP



Successful UROP experiences are built on strong mentorship, which involves supervisors, co-supervisors (industry/community partners), and students. This mentorship model fosters collaborative learning, ensuring students gain real-world insights while developing essential research and technical skills. As a mentor—whether you are a faculty supervisor or an industry co-supervisor—you play a critical role as a teacher, guide, and role model.

Mentorship in UROP not only benefits students but also enhances the professional growth of supervisors and co-supervisors. Here's how:

1. Supervision and Industry-Academic Collaboration

- Faculty supervisors guide students in research methodologies, academic writing, and critical analysis.
- Industry co-supervisors provide practical insights, real-world problem-solving skills, and exposure to industry standards.
- Students gain a balanced learning experience, bridging academia and industry/community applications.

2. Effective Research Planning and Documentation

- Faculty and industry mentors collaborate to ensure students understand project scopes, research frameworks, and expected outcomes.
- Mentors help students document their research journey, including data collection, progress evaluation, and final reporting.
- Regular documentation ensures that projects remain aligned with academic rigor and industry relevance.

THE IMPORTANCE OF MENTORSHIP IN UROP



3. A Collaborative Learning Environment

- Supervisors and co-supervisors guide students in technical and soft skill development, including problem-solving, teamwork, and communication.
- Students benefit from structured mentorship sessions through weekly or bi-weekly meetings with both academic and industry mentors.
- Faculty and industry mentors work together to integrate research with practical applications, strengthening university-industry collaboration.

4. Reflection and Professional Growth

- Faculty supervisors refine their mentorship and leadership skills, gaining industry perspectives through co-supervision.
- Industry co-supervisors engage with young talent, contributing to knowledge transfer and identifying potential future employees.
- Students develop a research mindset, critically reflecting on their learning journey and future career goals.

5. Innovation Through Diverse Perspectives

- While students gain mentorship, mentors also benefit from fresh perspectives that may enhance research and industry practices.
- Collaboration between academia and industry/community stakeholders fosters innovation and interdisciplinary research.
- The diverse skill sets of students, faculty, and industry partners create a dynamic and impactful research environment.

