

# MAJLIS MERAIKAN CALON BAHARU PASCASISWAZAH SEMESTER 1, SESI 2023/2024

**PROFESSOR DR SAIFUL ANUAR KARSANI**  
EXECUTIVE DIRECTOR  
INSTITUTE OF RESEARCH MANAGEMENT AND SERVICES (IPPP)  
UNIVERSITI MALAYA

*Serving the Nation. Impacting the World.*

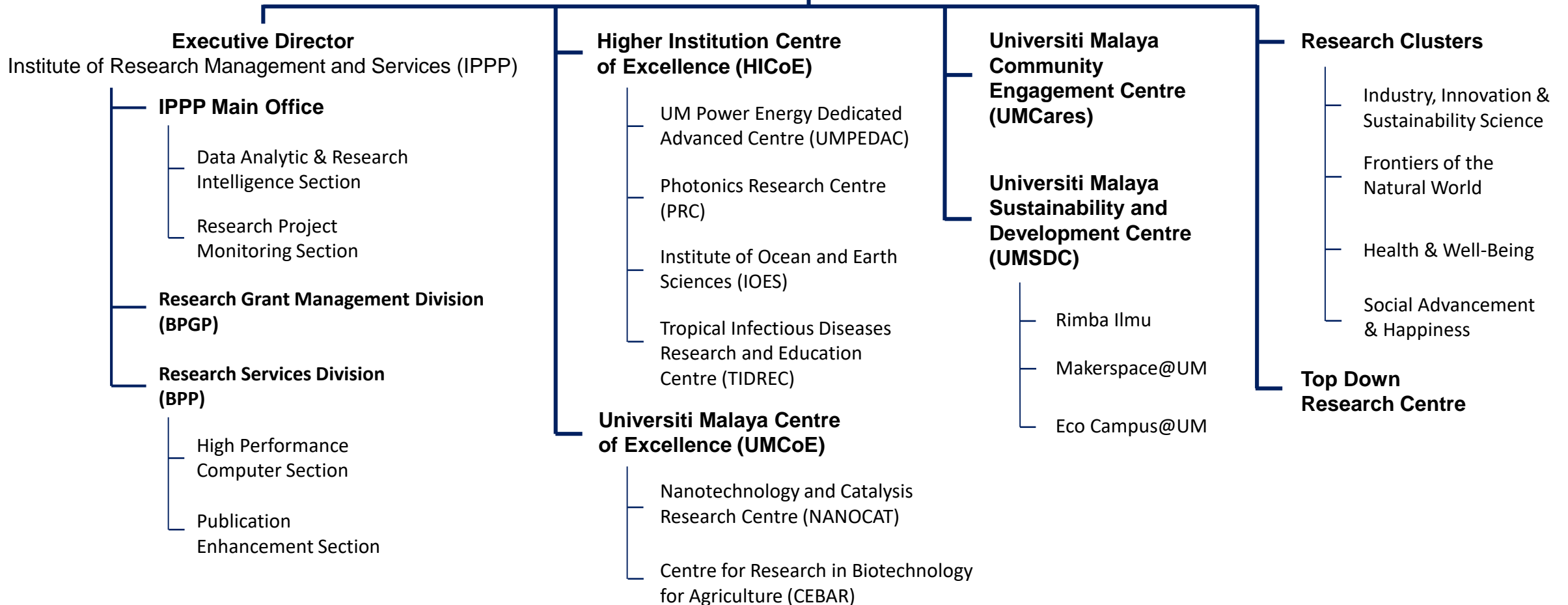


# UM RESEARCH STRUCTURE

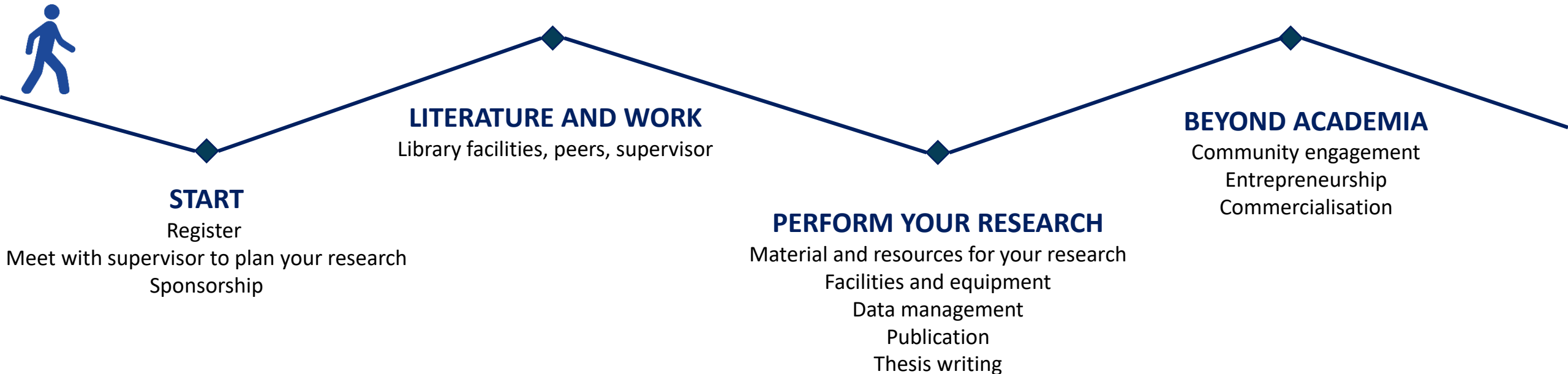
Vice-Chancellor

Deputy Vice-Chancellor (Research & Innovation)

DVC (R&I)  
Main Office



# JOURNEY AS A STUDENT



# Topic Highlights

## Scholarship and Sponsorship

- Universiti Malaya Scholarship Scheme (UMSS)
- Research Assistant Scheme

## Research Facilities and Supports

- INFRA Central Facilities
- Publication Supports
- Data Intensive Computing Centre

## Related Research Policies

## Other Related Facilities and Programme

- Research Programmes
- UM Community Engagement Centre
- UM Centre Of Innovation And Enterprise (UMCIE)
- Universiti Malaya Sustainability And Development Centre (UM SDC)



# UNIVERSITI MALAYA SCHOLARSHIP AND SPONSORSHIP

# UNIVERSITI MALAYA SCHOLARSHIP SCHEME (UMSS)

Universiti Malaya (UM) is offering Scholarship Scheme in terms of **TUITION FEE WAIVER\*** to the postgraduate students (local and international) who are also a **Graduate Research Assistant (GRA)** that have passionate commitment to pursue full time Masters and PhD by research programme.

\*subject to evaluation and approval.

## RATIONALE

To **reduce the financial burden** of postgraduates that strive to finish their study and have outstanding performance.

## APPLICATION CRITERIA

01

### ELIGIBILITY

Local & International postgraduates who are enrolled in full research Masters or Doctorate programmes at UM.

02

### OFFER TO ADMISSION

Applicants must obtained an offer letter to postgraduate study

03

### NOT BE SPONSORED

by any federal/state/statutory body or any other organization.

04

### FREE FROM DEBT

or outstanding fees with UM

05

### \* WITHIN GOT PERIOD

at the time of application, i.e.:

- Masters programmes: 5<sup>th</sup> semester and below
- Doctorate programmes: 7<sup>th</sup> semester and below

06

### \* GRA

Graduate Research Assistantship (GRA)

\*Tuition Fee Waiver



### Guideline

[umresearch.um.edu.my](http://umresearch.um.edu.my)

### Research Assistant Recruitment System (RARS)

<https://ra-recruitment.um.edu.my/>

### Emel:

[rars@um.edu.my](mailto:rars@um.edu.my)

# RESEARCH ASSISTANTSHIP (RA) SCHEME

- Funded by supervisor's active research grants.
- Covered monthly salary, EPF and SOCSO
- Subject to availability and eligibility of research grants

## **Guideline**

[umresearch.um.edu.my](http://umresearch.um.edu.my)

## **Research Assistant Recruitment System (RARS)**

<https://ra-recruitment.um.edu.my/>

## **Emel:**

[rars@um.edu.my](mailto:rars@um.edu.my)





# RESEARCH FACILITIES AND SUPPORT







## **INFRA Analytical Labs**

KPPI & IAS Building

Chromotography, FESEM, DNA sequencer, PCR & real-time PCR



## **INFRA HIR**

HIR Building

Chromatography, SEM, Fluorescent microscope, NGR, PCR & real-time PCR, proteomic and microbiological research related instruments,



## **INFRA Microbiology**

KPPI Building

PCR & real-time PCR, microbiological research analyses and services



## **Lab Animal Centre**

LAC (beside K12)

Animal cages and shelters, post-mortem tables

# **INFRA RESEARCH FACILITIES**



**RHEOMETER**

**TA Instrument DHR-2**

A laboratory device used to measure the viscosity which is liquid, suspension or slurry flows in response to applied force and also measure the effect of flows at different pressure tends to drag surrounding materials

**Applications:**  
Provide information of the material viscosity and viscoelastic

INFRA LABORATORY, KPPI BUILDING,  
UNIVERSITI MALAYA, 50603 KUALA LUMPUR  
Email: lab\_infra@um.edu.my  
<https://www.facebook.com/infra.lab.um/>

**UNIVERSITY OF MALAYA**

**REAL TIME PCR**

MONITOR THE AMPLIFICATION OF TARGETED DNA MOLECULE DURING THE POLYMERASE CHAIN REACTION

INFRA Laboratory, KPPI Building  
50603 Universiti Malaya  
Kuala Lumpur  
lab\_infra@um.edu.my  
[www.facebook.com/infra.lab.um](http://www.facebook.com/infra.lab.um)





Model : VIIA7

# Equipment Database

<https://infra.um.edu.my/>

INFRA ANALYSIS LABORATORY  
Level 3, Research Management & Innovation Complex  
University of Malaya  
50603 Kuala Lumpur  
MALAYSIA

tel +603-7967 4619  
tel +603-7967 2320 / 2327  
fax +603-7967 4644  
Email: lab\_infra@um.edu.my

**UNIVERSITY OF MALAYA**

**UMR InfraLab**

**GCMS**

**IDEAL USES:**  
Identify volatile organic compound  
Quantification of compound detected  
Detection of low/trace impurities or contaminants in liquid solvent

**TECHNICAL SPECIFICATION**  
GCMS-QP 2010 Ultra (Single quadrupole) and GCMS-TQ 8030 with MS/MS & Thermal Description  
Column: available SMS (ID 0.25, Thickness 0.25, Length 30m)  
Software: GCMSolution  
Elements Detected: Molecular  
ion range: m/z 35-1000  
Mode: EI


INFRA LABORATORY  
KPPI BUILDING  
UNIVERSITI OF MALAYA  
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lab\_infra@um.edu.my  
<https://www.facebook.com/infra.lab.um/>



**LCMS**

**AGILENT 6550 IFUNNEL LC/MS Q-TOF**

Separate wide range of organic compounds from small molecules, drugs, metabolites, peptides and protein. Optimized for qualitative analysis and provide information on high resolution molecular weight.




**UNIVERSITY OF MALAYA**

To characterize structure (morphology & topography) and composition with EDX system

**FESEM & EDX**

QuantaFEG450(FEI) OXFORD

INFRA Laboratory, KPPI Building  
Universiti Malaya, 50603 Kuala Lumpur  
Email: lab\_infra@um.edu.my  
<https://www.facebook.com/infra.lab.um/>



**CONFOCAL LASER SCANNING MICROSCOPE**

LEICA TCS SP5

- PINHOLE TO ELIMINATE OUT OF FOCUS SIGNAL
- 3D IMAGES BY OPTICAL SECTIONING
- LIVE CELL IMAGING




# Lab Animal Centre

<https://infra.um.edu.my/about-lac>

COORDINATOR: AP Dr Ong Kian Chai

tel +603-7967 4514

tel +603-7967 4416

fax +603-7967 4417

Email: lac\_ippp@um.edu.my



- ✓ Experienced and trained veterinarians specialized in research animal diseases, cellular and molecular biology and toxicology.
- ✓ Health monitoring and diagnostic services
- ✓ Toxicology, PK, ADME, drug efficacy, vaccine efficacy, immunogenicity studies, medical device testing and special surgical procedures for laboratory animals
- ✓ Vivarium space on short- or long-term leases.
- ✓ Breeding and supply of laboratory animals.



# Publication supports

Bahagian Perkhidmatan Penyelidikan (BPP)  
Research Services Division (BPP)  
Level 2, Research Management & Innovation Complex  
(KPPI)  
Universiti Malaya  
50603 Kuala Lumpur, Malaysia  
Tel: +603-7967 4651/6289 | E-mail:  
pengarah\_ppp\_ippp@um.edu.my



Advise on paper writing



Training workshops on paper writing



Training workshops on selection of journals



Training workshops on literature review



Training workshops on data analysis

# Data Intensive Computing Centre (DICCC)

**Our mission is to enable scientific discoveries through the exploitation of advanced computing technologies**

- Provide advanced computing services to support data- and compute-intensive research
- Provide training to groom the advanced computing talents
- Provide IT strategic planning for research computing which in line with the direction of UM and national vision and mission

10Gbps network (internal)  
1Gbps network (to MyREN)



GPU farm  
2 x V100  
3 x Titan XP  
2 x K40  
16 x K10



Storage Cluster  
Lustre (231TB)  
NFS (59TB)



EPYC Cluster  
384 x 3.8GHz CPU  
1TB RAM



Opteron Cluster  
576 x 2.2GHz CPU  
2.3TB RAM



Policies

**RELATED RESEARCH POLICIES  
& GUIDELINES**

# Related Policies and Guidelines

[umresearch.um.edu.my](http://umresearch.um.edu.my)

**Authorship policy**

**The Malaysian Code of Responsible Conduct In Research**

**UM Research Data Management Policy**

**Research Ethic (Clinical and non-clinical)**

## Contact

IPPP

Level 7, KPPI

EMAIL ADDRESS

[pen\\_ippp@um.edu.my](mailto:pen_ippp@um.edu.my)

PHONE NUMBER

+603-7967 4643/4525/4697/4698

The background of the image is a blurred photograph of a stage or event. It features several bright blue spotlights directed downwards, creating a bokeh effect. In the foreground, there is a dark, out-of-focus crowd of people, suggesting a large gathering or concert. The overall atmosphere is vibrant and dynamic.

# **OTHER RELATED FACILITIES AND PROGRAMME**



# RESEARCH PROGRAMMES (CONFERENCES, TALKS, SEMINARS, SYMPOSIUM)

*Serving the Nation. Impacting the World.*

[www.um.edu.my](http://www.um.edu.my)





# UNIVERSITI MALAYA RESEARCH GALLERY (UMRG)

- showcasing of UM research and innovation initiatives and outcomes
- sharing and communicating research from all disciplines with the community, which includes researchers, industry, the media, and the general public
- meeting, connecting, and engaging with researchers, industries, the media, and the general public



**UM RESEARCH GALLERY 2023**  
Theme: Health & Well-Being  
EXHIBITION HALL  
RESEARCH MANAGEMENT & INNOVATION COMPLEX (KPPI) BUILDING  
UNIVERSITI MALAYA  
13<sup>th</sup> MARCH - 7<sup>th</sup> APRIL 2023  
FREE ENTRY!  
www.umresearch.my

**OPENING HOURS:**  
• 13 to 22 March: 9.30 am to 4.30pm  
\*Including Sat & Sun  
• 23 March to 7 April (During Ramadhan):  
9.30 am to 4.00pm / 3.30pm on Fridays  
\*Opens on Saturdays, Closed on Sundays



**UM RESEARCH GALLERY 2023**  
Theme : Climate Action & Planetary Health  
In collaboration with  
Universiti Malaysia Sustainability and Development Centre (UMSDC)  
<https://bit.ly/3peBn7W>

**Exhibition Hall**  
RESEARCH MANAGEMENT & INNOVATION COMPLEX (KPPI) BUILDING, UNIVERSITI MALAYA

**ACTIVITIES**  
Research & Innovation  
Poster and Inventions  
Social & Community Engagement  
Industry Engagement  
Academic Lectures  
Sharing session, forum, webinar

**1 June - 30 June 2023**

**OPENING HOURS:**  
9.30 am to 4.30pm  
\*Including Sat & Sun

FREE ENTRY!  
Inquiries?  
[umresearch@um.edu.my](mailto:umresearch@um.edu.my)

ALL ARE INVITED FREE ENTRY!!  
SCAN ME



**UM RESEARCH GALLERY 2023**  
THEME:  
*Cultural and Heritage*

EXHIBITION HALL  
RESEARCH MANAGEMENT & INNOVATION COMPLEX (KPPI) BUILDING, UNIVERSITI MALAYA

**4 SEPTEMBER - 3 OKTOBER 2023**

ALL ARE INVITED FREE ENTRY!!  
OPENING HOURS:  
9.30 AM TO 4.30PM

[umresearch@um.edu.my](http://umresearch@um.edu.my)



# UNIVERSITI MALAYA RESEARCH CARNIVAL (UMRC)

## Objectives:

- Exhibit UM research results and activities to external parties;
- Stimulate and foster interaction from various disciplines among researchers;
- Build more meaningful networks and relationships between researchers and the community;
- Provide a platform for researchers to network and engage with industry, community, government entities and policy makers in promoting research and innovation;
- Promote impact driven research research focused on society;
- As a research leader in showcasing excellent UM research and highlighting its impact on society and the country.

## Theme:



**Connect . Engage . Partner**  
Accelerating Research Excellence



**Universiti Malaysia RESEARCH CARNIVAL**  
8 - 10 January 2022  
Research Management & Innovation Complex Universiti Malaysia

**CONNECT. ENGAGE. PARTNER. ACCELERATING RESEARCH EXCELLENCE**

**INDUSTRY ENGAGEMENT & ENTREPRENEURSHIP**

- UM-Industry MoU signing session (8 Jan)
- Entrepreneurship Forum - Inspiring Women for Entrepreneurship (9 Jan)
- Ignite the BIG Ideas (UM Startups pitch) (10 Jan)

**ACADEMIC LECTURES**

- Forum 1: Drivers of Research Excellence: Visibility & Partnership (9 Jan)
- Forum 2: The Challenges Faced by Early-Career Researchers (10 Jan)
- UM Talk (10 Jan)
- MOSTI sharing session (10 Jan)
- Academy of Sciences Malaysia sharing session (10 Jan)

**RESEARCH & INNOVATION COMPETITION**

- Innovation & Technology Exhibition
- Research Flash Talk Competition
- My UM Pitch Rising Star (9 Jan)
- My UM Pitch It (9 Jan)

**SPECIAL EVENT: VOICE FOR AUTISM**

**SILENT AUCTION**

Opening Ceremony by the Minister of Higher Education Malaysia (9 Jan - 9-11.30AM)

Strategic partner: MRANTI  
Platinum sponsor: MAMPU  
Gold sponsors: SentuhSafe, AUST, MAMPU, etc.



**2022 UNIVERSITI MALAYA RESEARCH CARNIVAL INNOVATION & TECHNOLOGY EXHIBITION**  
EXTENDED Submission deadline: November 30, 2022, 5 pm MYT

We invite participation from individuals and teams from the industry, academia, and investors to showcase new inventions and prototypes.

Competition available as Open, University and Junior (Below 19 years of age) categories.

**FOCUS THEMES**

- Education
- Health & Wellbeing
- Energy
- Foodtech
- Environment & Biodiversity
- Water, Food & Agriculture
- Smart Cities and transportation
- Industrial technologies, ICT & AI/ML

**REGISTRATION FEES PER TEAM**

- Open: RM200 (University Student) / RM100 (Junior)
- University: RM100
- Junior: RM50

QR code for registration: <https://www.um.edu.my/umrc>



**Special Event VOICE FOR AUTISM**

In showcasing and promoting UM research and innovation that make impacts to the community, UMRC will be organising special event and open to participants to collaborate and foster tangible links, interaction between the academic, industry, government and UM society.

In conjunction with the 2022 World Autism Awareness Day observance which focuses on raising awareness and improving quality of life and promoting lifelong learning opportunities for the education, training, research, care and well-being of people with the developmental disabilities, UMRC is the proud sponsor of world first device and includes visibility of research on Autism Spectrum Disorders (ASD) to the UM research community and the ASD community, thereby raising awareness of autism and appreciate the full & inclusive services.

**OBJECTIVES**

- Reduce and raise public awareness about ASD;
- Develop tools for autism, autism and autism research;
- Provide a platform to ASD; allows to showcase their artistic skills;
- Highlight the significance of scientific research in understanding autism, which may lead to more effective health care as well as innovations and technology to better assist in specific practices.

**ACTIVITIES**

Activities that will be carried out during the event include:

- Autism Research Showcase
- Silent Auction
- Autism Awareness Activities
- Autism Enterprise
- Lectures & Talks



**UM EXPLORACE**  
DISCOVER UNIVERSITI MALAYA  
8 JANUARY 2022 | 8:00 AM - 1:00 PM | UNIVERSITI MALAYA

**OPEN FOR REGISTRATION NOW!**

**COMPLEMENTARY GIFT**

**OPEN TO ALL AGES 16 YEARS OLD AND ABOVE THE FIRST 100 GROUPS A GROUPS CONTAIN 6 PEOPLE**

**REGISTRATION FEES PER TEAM**

- T-SHIRT UM EXPLORACE
- FOOD VOUCHER
- E-CERTIFICATE

Only **RM 200** PER TEAM

SCAN TO REGISTER



**2022 UNIVERSITI MALAYA RESEARCH CARNIVAL SO@RT COMPETITION**  
EXTENDED Submission deadline: November 30, 2022, 5 pm MYT

**Recycle? Upcycle-Lah!**

**2 Categories**

- Secondary School Students (Form 1-6)
- University Students (Undergraduates & Postgraduate students who are currently enrolled in Malaysian Universities public and private)

Top 5 shortlisted 3D Artwork will be chosen from each category will be invited to display the Artwork during the UMRC 2022 event day

**What do you submit?**

- Submit Your Video and write-up today!
- 100 words Write-up & a 3-minute video

For more information, please contact:

- University Category: [umrc@um.edu.my](mailto:umrc@um.edu.my) / <https://www.um.edu.my/umrc>
- Secondary School Category: [umrc@um.edu.my](mailto:umrc@um.edu.my)

Registration fees per entry or group ONLY

QR code for registration: <https://www.um.edu.my/umrc>



# PROGRAMME ON IDEATION AND ENTREPRENEURSHIP

- **Build training capacity** in entrepreneurship
- **Improve the marketability** of Universiti Malaya students
- **Shift the culture and mindset** among students to the world of industrial training (internship) and employment.



# OTHERS RESEARCH FACILITIES

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# UNIVERSITI MALAYA COMMUNITY ENGAGEMENT CENTRE (UMCares)

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[www.um.edu.my](http://www.um.edu.my)



UNIVERSITI  
MALAYA

**Impacting the community** through  
inclusiveness, innovative engagement  
and sustainable programmes



To be the leader of **Community Engagement** in Malaysia

**Connecting campus to community**

# STUDENT ACTIVITIES

## **UMCARES SQUAD AWARDS**

Award of appreciation to the students of the Universiti Malaya in carrying out community engagement activities at Universiti Malaya

Semester 1 Session 2023/2024  
Participants (Colleges)

## **UMCares CLUB**

Community Engagement Club for Universiti Malaya Students. Focusing on volunteerism, sport and recreation, skills and adventures activities.

Session 2023/2024  
Members

## **THE DUKE OF EDINBURGH'S INTERNATIONAL AWARD**

Global framework for non-formal education and learning, which challenges young people to dream big.

Session 2023/2024  
Participants (below 24 years old)



# COMMUNITY ENGAGEMENT PROGRAMMES

## UM ACADEMIA COMMUNITY ENGAGEMENT SYMPOSIUM 2023

A special session that serves as a platform for UM community members to exchange information and experiences, thereby contributing to the implementation of community projects.

Tentative plan: October 2023  
Participant (oral and poster), and volunteer.

## UMCares VISIBILITY TEAM

The task for the visibility team in community engagement is to enhance the online presence and awareness of our community initiatives. This includes managing social media accounts, creating engaging content, and collaborating with influencers to ensure our community's activities reach a wider audience, ultimately fostering greater participation and support.

Session 2023/2024  
Members

## UMCares COMMUNITY ENGAGEMENT PROJECT

An opportunity to participate in community engagement projects led by UM researchers and gain insights into the processes and methodologies used in conducting these projects.

Throughout the year  
Volunteer

Connect, collaborate and communicate with us at

<https://myumcares.um.edu.my/>

Universiti Malaya Community Engagement Centre (UMCares)  
Level 6, Research Management and Innovation Complex,  
Universiti Malaya  
50603, Kuala Lumpur

Email: [umcares@um.edu.my](mailto:umcares@um.edu.my) / [pengarah\\_umcares@um.edu.my](mailto:pengarah_umcares@um.edu.my)

Telephone: 03-7967 7357/ 7358 / 7360





# UM CENTRE OF INNOVATION AND ENTERPRISE (UMCIE)

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[www.um.edu.my](http://www.um.edu.my)



UNIVERSITI  
MALAYA

# UM Centre of Innovation and Enterprise (UMCIE)

UMCIE is a technology transfer and commercialization unit. The main function is to commercialize UM innovations, services, and technology from the research activities of the university. It provides support and facilitation for both staff and students, as well as the industry and public stakeholders.

UMCIE also provides support to student entrepreneurship. Various initiatives are implementing to develop the entrepreneurial culture in the University.

## UM Deep Tech (UMDT) Accelerator Programme



is a structured 6-month scheme, organised by UM Centre of Innovation and Enterprise (UMCIE). It aims to bridge the funding gap from lab proof-of-concept (PoC) research to market with “validated assumptions market-ready prototypes”.



### mentorship and training

UMDT offers mentorship and training for 24-weekend classes and hands-on market validation studies from the coaching expert.

# UM DEEP TECH (UMDT) ACCELERATOR PROGRAMME

# How to apply

<https://umcie.um.edu.my/um-deep-tech>

- Select one UM Intellectual Property (IP) OR PG research project with POC
- Form a team - The team must consist of 1 UM Researcher and 1 student co-founder OR 2 student founders.
- Apply to UMDT Selection Committee for approval.
- Pre-seed funds will be awarded to each successful team.

## UM CENTRE OF INNOVATION & ENTERPRISE (UMCIE)

LEVEL 5.  
RESEARCH MANAGEMENT AND INNOVATION  
COMPLEX,  
UNIVERSITI MALAYA,  
50603, KUALA LUMPUR,  
FEDERAL TERRITORY OF KUALA LUMPUR,  
MALAYSIA.

EMAIL: DIRECTOR\_UMCIC@UM.EDU.MY

TELEPHONE: 03- 7967 7351 / 7838 / 7839

# Contact

<https://umcie.um.edu.my/index>



# UNIVERSITI MALAYA SUSTAINABILITY AND DEVELOPMENT CENTRE (UM SDC)

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[www.um.edu.my](http://www.um.edu.my)



UNIVERSITI  
MALAYA



### VISION

To transform UM into a **model city campus** that advances green, carbon-neutral and sustainable lifestyle and innovation

### MISSION

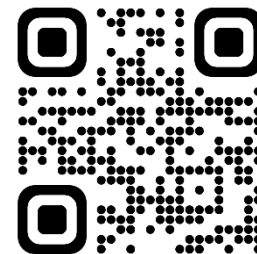
- **Research and Innovation:** To support action-oriented research and innovation towards a sustainable, green and carbon-neutral campus and society
- **Culture:** To enhance enculturation of sustainable, green and carbon-neutral lifestyle and innovation among UM campus community and stakeholders
- **Stewardship:** To champion UM's sustainability agenda campus wide, based on the main pillars of the UM Sustainability Policy (2021-2030), UM Eco-campus Blueprint (2016) and the 2050 Carbon Neutral/Net-Zero Targets



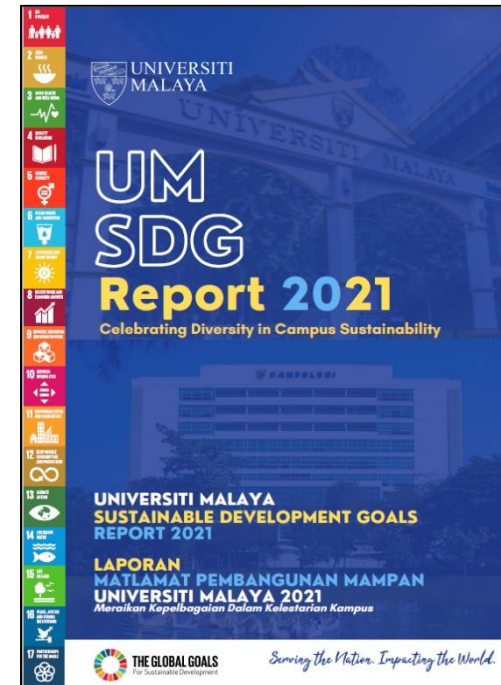
To transform UM into a model city campus in advancing sustainable, green and carbon-neutral innovation and lifestyle



Universiti Malaysia Sustainability Policy 2021 - 2030  
*Dasar Kelestarian Universiti Malaysia 2021 - 2030*



Universiti Malaysia Eco-Campus Blueprint  
*Pelan Pembangunan Eko-Kampus Universiti Malaysia*



Universiti Malaysia Sustainable Development Goals Report 2021  
*Laporan Tahunan Matlamat Pembangunan Mampaan UM 2021*



UNIVERSITI MALAYA Times Higher Education Impact Rankings 2023

## Congratulations UNIVERSITI MALAYA

Ranked **101-200**

Times Higher Education Impact Rankings 2023  
Surged one band in the rankings from 201 - 300 in 2022

<b>TOP 10</b>	<b>5 GENDER EQUALITY</b> RANKED 3 <sup>RD</sup>				
<b>TOP 50</b>	<b>7 AFFORDABLE AND CLEAN ENERGY</b> RANKED 13 <sup>TH</sup>	<b>1 NO POVERTY</b> RANKED 50 <sup>TH</sup>			
<b>TOP 100</b>	<b>6 CLEAN WATER AND SANITATION</b> RANKED 60 <sup>TH</sup>	<b>11 SUSTAINABLE CITIES AND COMMUNITIES</b> RANKED 72 <sup>TH</sup>	<b>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</b> RANKED 73 <sup>TH</sup>	<b>17 PARTNERSHIPS FOR THE GOALS</b> RANKED 81 <sup>TH</sup>	<b>14 LIFE BELOW WATER</b> RANKED 85 <sup>TH</sup>



UNIVERSITI MALAYA **Green Metric** World University Rankings

## 50<sup>TH</sup> WORLD'S MOST SUSTAINABLE UNIVERSITY 2022

Congratulations

### ACHIEVEMENTS

- 100% Water Management Initiatives
- 100% Waste Management Initiatives
- 97% Education & Research (Sustainability) Initiatives
- 90% Setting & Infrastructure Initiatives
- 79% Transportation Management Initiatives
- 59% Energy & Climate Change Initiatives

**BEST WATER MANAGEMENT IN MALAYSIA**  
**BEST WASTE MANAGEMENT IN MALAYSIA**  
**BEST SETTING & INFRASTRUCTURE INITIATIVES IN MALAYSIA**

University of Malaysia | um.edu.my | unimalaya



UNIVERSITI MALAYA **QS** WORLD UNIVERSITY RANKINGS SUSTAINABILITY RANKINGS 2023

## CONGRATULATIONS UNIVERSITI MALAYA!

**In South East Asia:**

- #1 Most Environmentally Sustainable Institution**
- #2 Most Socially Sustainable Institution**

**Overall performance**  
**66th in the World**  
**3rd in Asia**  
**1st in Malaysia**

**in QS World University Rankings: Sustainability 2023**

700 GLOBAL INSTITUTIONS | 9 MALAYSIAN INSTITUTIONS

QS SUSTAINABILITY RANKINGS 2023  
#1 Most Environmentally Sustainable Institution in South East Asia

QS SUSTAINABILITY RANKINGS 2023  
#2 Most Socially Sustainable Institution in South East Asia

@um.sustainability | @UniMalayaSDC | UM Sustainability | <https://sustainability.um.edu.my>

# UM Sustainability and Development Centre (UMSDC)

## RESEARCH - STEWARDSHIP - CULTURE



Action-oriented Research

### STEWARDSHIP

Green & Sustainability Ranking



### RESEARCH & INNOVATION

UM Living Labs



### CULTURE

Green Culture @UM



### Opportunities for students:

Variety of sustainability programs and activities to be rolled-out soon  
(as volunteer, interns, participants, committee members)

Our sustainability partners



# Research & Innovation + Culture + Stewardship @ Universiti Malaya (via UMSDC)

UM working together with partner cities, stakeholders and communities to be well placed in greening, SDG, Environmental-Social-and-Governance (ESG) and Carbon Neutral commitments and reputations

Internal LL grant to address UM's Circular Economy ambitions

Circular Economy Living Labs Grant

Internal LL grant to address UM Carbon Neutral Target by 2050

Carbon Neutral Living Labs Grant

Internal LL grant to address UM Eco-campus Blueprint

Eco-Campus Living Labs Grant

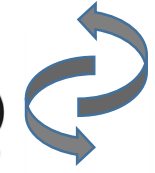
Together with other research programmes in UM, become feeders for



Action-oriented Research



Inspire, Be Inspired



UM Walking the talk

Matching grant to address broader urban sustainability issues



UM SDG Living Lab Programme



Internal grant

Internal grant/support matched with external funding

Enculturation of green, low-carbon and sustainability values, skills and lifestyles among staff, students and connected stakeholder & communities

(Building a community with more passion for sustainability oriented lifestyle, research and engagement)

## UM Sustainability Volunteer Programme

Exciting Volunteer programmes to harness green & sustainability skills

Opportunity to network with UM staff and partners who are passionate about greening & sustainability

**UM Sustainability Volunteer Program**

Included in our mailing list & social media for on-going updates and news

Opportunity for Internship @ UMSDC  
(with honorarium)

UMSDC E-Certificates to boost your CV on green and sustainability jobs

UMSDC Volunteer Registration Form 



Stay in touch with UMSDC for updates!

E-mail: [umsdc@um.edu.my](mailto:umsdc@um.edu.my)

Website: [sustainability.um.edu.my](http://sustainability.um.edu.my)



@um.sustainability



@UniMalayaSDC



# Makerspace

The background of the slide is a collage of three photographs showing people in a maker space. The top photo shows a group of people standing behind a long table with computers. The middle photo shows a group of people gathered around a table, looking at a device. The bottom photo shows a group of people working at a table with various tools and materials.

# Makerspace



The establishment of Makerspace@UM is an effort to create a workspace within the university to increase innovation and creativity among staff and students.

To build maker culture in UM via Maker Movement.





Innovative spreadsheet using EXCEL/VBA and Google sheet

Computer programming

Data analysis

Use of Arduino and Raspberry Pi

3D printing and design

Internet of Things (IoT)

Robotics

# TRAINING @ MAKERSPACE

# CONTACT MAKERSPACE



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*Director*

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## Location

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Bangunan Makmal Kimia,  
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Faculty of Science,  
Universiti Malaya,  
50603 Kuala Lumpur.

# **Rimba Ilmu Botanical Garden**





# Rimba Ilmu Botanical Garden

Rimba Ilmu means "The Forest of Knowledge" in the Malay language

The garden, established in 1974, occupies an area of 80 hectares. It is one of the most important biological conservatories in Malaysia. There are also plant species from other parts of tropical Asia, the Pacific islands, Australia, South America, Africa and Madagascar.

The Herbarium (a reference library of preserved plant specimens) is Malaysia's largest university collection containing some 63,000 accessions.



## CONSERVATION

Repository for many types of plants

Malaysia's largest university collection containing some 63,000 accessions



## EDUCATION AND PUBLIC AWARENESS

Environmental Education Programme  
Open to visitors



## RESEARCH

Support scientific studies

# ACTIVITIES @ RIMBA ILMU

# Contact

<https://rimba.um.edu.my/index.php>

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# THANK YOU

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