JABATAN PERDANA MENTERI
UNIT PENYELARASAN PELAKSANAAN
(ICU JPM)

UNIVERSITI MALAYA

InACE

International Conference on Academia–Community Engagement Impact

MALAYSIA MADANI INITIATIVES

OFFICIAL GUIDELINES

MALAYSIA MADANI

Visit Malaysia 2026 Truly Asia

InACE
International Conference on Academia–Community Engagement Impact

CHAPTER 2:

EXTENDED ABSTRACT SUBMISSION

GENERAL INFORMATION

1. Ensure files meet the required formats and naming standard. Convert all files into their required formats.

- Extended Abstract: **WORD / PDF format** (EA_Institution_Malaysia MADANI Initiatives.pdf)

e.g. (EA_UM_KAM)

2. Compose a new email addressed to **umace@um.edu.my** include the following details:

- Author(s)
- University / Institution
- Title

3. Attach Files and Send Email

Attach your extended abstract, oral presentation or poster presentation slides and send to **(umace@um.edu.my)**

Note: Please follow the all the template given in website

EXTENDED ABSTRACT SUBMISSION

1. Please use the template given in website.
2. Make sure **not more than 5 pages**.
3. Submit in **word or pdf format** through email **(umace@um.edu.my)**
4. **DEADLINE before 7 OCTOBER 2026, 11.59 pm.**

SAMPLE

SMART AQUAEZ @UNIMADANI: AUTOMATED SOLAR-POWERED ULTRAFILTRATION SYSTEM FOR SUSTAINABLE CLEAN WATER SUPPLY AT MAAHAD MUHAMMADI, GUA MUSANG, KELANTAN

Junaidi, M. U. M., Rabuni, M. F.*, Hussain, M. A., Amir, Z., and Adnan, F. H.

Department of Chemical Engineering, Faculty of Engineering, Universiti Malaya, 50603 Kuala Lumpur, Malaysia.

**Corresponding Author Email: fairus.rabuni@um.edu.my*

Madani Initiative:	National Program UniMADANI Grant Allocation (Kementerian Pendidikan Tinggi)
Madani Core:	Sustainability (Teras 1 - Kelestarian) and Well-being (Teras 2 - Kesejahteraan / Ihsan)
SDG Alignment:	SDG 6 (Clean Water & Sanitation) and SDG 7 (Affordable & Clean Energy)
Fund Total (RM):	80,000.00
Project Location:	Maahad Muhammadi, Gua Musang, Kelantan, Malaysia (Completed: May 2026)
Number of Beneficiaries :	1,000
Group of Beneficiaries:	Secondary school community of 1,000 students, teachers, and staff (including 300 boarding students)
Collaborators:	Universiti Malaya (UM), Berqat Mechanics Engineering Sdn. Bhd., Jabatan Kejuruteraan Kimia
Project Impact:	Provision of green, chemical-free clean water; operational self-reliance via localized training; reduced waterborne disease risks; over 80% savings in purchasing bottled water on-site; hands-on STEM education exposure.
Output & Outcome:	Installed off-grid 500-700 L/hr solar-powered automated ultrafiltration unit; established community-led water committee; trained operators for continuous self-maintenance; promoted local green growth.

ABSTRACT

Providing safe and reliable drinking water to remote rural educational institutions remains a persistent challenge in Malaysia due to geographical isolation, frequent municipal water supply disruptions, and high seasonal turbidity of groundwater and river sources. Under the national UniMADANI initiative, Universiti Malaya successfully deployed the SMART AQUAEZ system at Maahad Muhammadi, Gua Musang, Kelantan. This project integrates chemical engineering innovations with social sustainability principles to support approximately 1,000 students, teachers, and staff, including 300 boarding students. The SMART AQUAEZ system is an off-grid, solar-photovoltaic-powered ultrafiltration unit that produces 500–700 L/hr of high-purity, chemical-free

SAMPLE

JABATAN PERDANA MENTERI
UNIT PENYELARASAN PELAKSANAAN
(ICU JPM)

UNIVERSITI MALAYA

InACE

International Conference on Academia–Community Engagement Impact

MALAYSIA MADANI INITIATIVES

For assistance, please contact,

Mr. Khairul Nizam Roslan
Email: knizam@um.edu.my
Telephone: +603-7967 7358 / 7360

Noor Aina Nabilla Johari
Email: ainanabilla@um.edu.my
Telephone: +603-7967 7358 / 7360

Universiti Malaya Community Engagement Centre (UMCares)
Email: umcares@um.edu.my / umace@um.edu.my
Telephone: +603- 7967 7357 / 7358 / 7360

MALAYSIA MADANI

Visit Malaysia 2026 Truly Asia