

# Local Chapter Activity Report

## at the 11<sup>th</sup> UNISEC–Global Meeting

*Fatimah Zaharah Ali*

*UNISEC–Malaysia*

# History of Local Chapter Activities



Established in July 2019, POC: Dr Norilmi Amilia Ismail, USM

- *Participated in CLTP in 2011, 2017 and 2018*
- *Participated in MIC in 2018 – Winner of Special IAF Award*
- *Attended 6th UNISEC Global Meeting 2018*
- *Participated in BIRDS-2 Program in 2016 – UiTMSAT-1.*
- *Involvement of university students in CanSat Competition organized by MYSA – 2019 & 2020*
- *Practical Space Projects organized by USM Space System Lab – High Altitude Balloon (HAB), Small Satellite System (MYSat)*

# History of Local Chapter Activities

*In May 2024, POC: Dr Fatimah Zaharah Ali, UiTM*

- *Multination Collaborative 1U CubeSat Development Project (ASEANSAT) in 2021 – led by UiTM*
- *Hosting 46th Virtual UNISEC-Global Meeting (20 July 2024) – Industry-Academia Collaboration for Sustainable Satellite Project*
- *Co-organized (UiTM) with Cybernet System for National Space Imaging Payload Competition, from Oct 2024 – Jan 2025*
- *Consultee in 57th Virtual UNISEC-Global Meeting (Introduction to CubeSat Salon), hosted by UNISEC-Japan – 21 June 2025*



# UNISEC-Global Activities in 2024-25



\*\*Number of

- Member Universities: 4 Universities (UiTM, USM, IIUM, UPM)
- Students: 27 (USM) + 47 (UiTM)
- Professors: 6 + 9 (involvement in the program)
- Others (Corporative members, etc.): 2 (companies involved in the program)

# UNISEC-Global Activities in 2024-25

- Co-organized by UiTM & supported by UNISEC for **National Space Imaging Payload Competition Grand Finale** (main organizer: Cybernet System): **16 Jan 2025**



**CYBERNET**

**Ansys**  
CHANNEL PARTNER



Organized by

In collaboration with

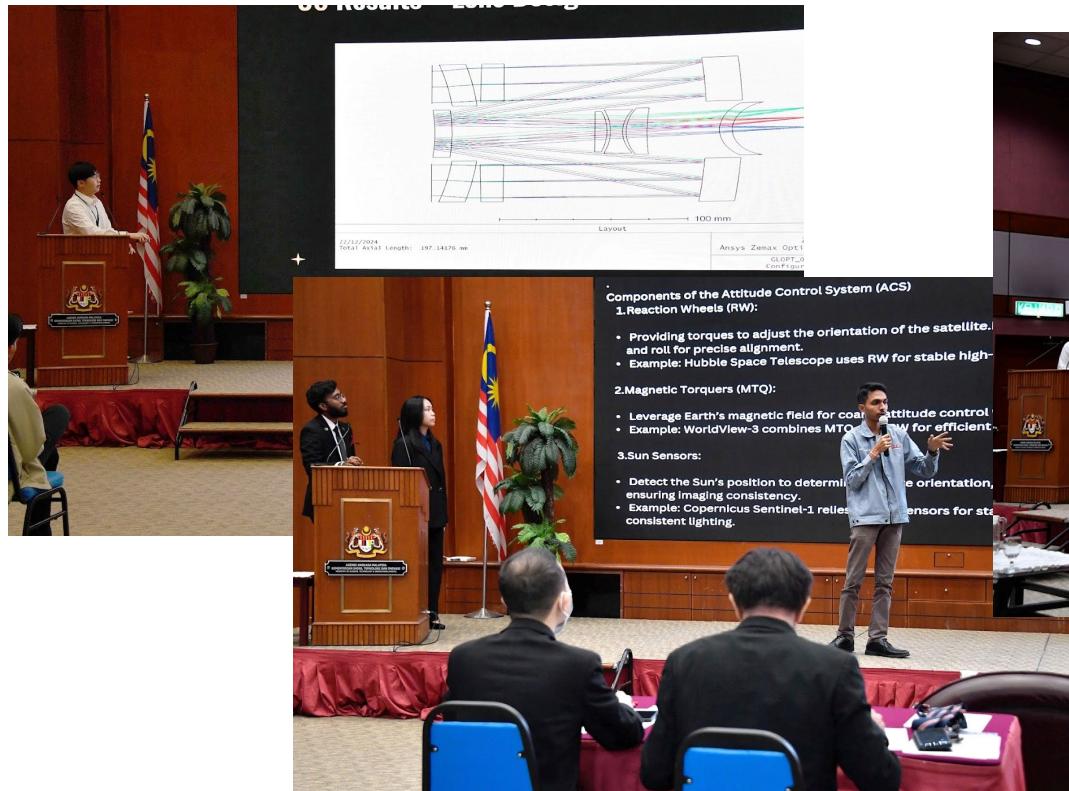
Supported by



# UNISEC-Global Activities in 2024-25

## ***National Space Imaging Payload Competition Grand Finale: 16 Jan 2025***

- *held at the Malaysian Space Agency (MYSA) in Kuala Lumpur*
- *launched in October 2024 in conjunction with World Space Week.*
- *15 participated teams, 11 selected for finale: academic institutions & commercial organizations.*
- *Designing a high-resolution camera lens for 6U CubeSat using Ansys Zemax.*



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# UNISEC-Global Activities in 2024-25

- Co-organized by **UiTM** & supported by **UNISEC** for **National Space Imaging Payload Competition Mission II** (main organizer: Cybernet System): **27 August – 29 October 2025**



- Open to academic institutions only – 8 teams
- Submission of full technical report on one of four predefined, space telescope-based design themes:
  - Compact Space Telescope for Low Earth Orbit (LEO) suitable for CubeSat deployment,
  - Wide-Field Space Survey Telescope,
  - Near-Infrared Space Telescope design
  - Creative Concept Design

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# UNISEC-Global Activities in 2024-25



## Plan for 2024-25 and beyond

### UNISEC-Malaysia Student Organization (UNISON)

- Start in UiTM, open to all students from different background
- Expand to all UiTM students from all branches
- Expand to all university students in Malaysia

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### UNISEC-Malaysia UiTM Student Chapter (SC)

- **Official establishment: 1 July 2025**
- **47 members (5 executive councils + 6 portfolios)**
  - Humanitarian
  - Education
  - Technical
  - Multimedia
  - Social
  - Industry Relation
  - Student Advisory Council (to be added during next AGM)



# UNISEC-Global Activities in 2024-25

## Plan for 2024-25 and beyond

### Space STEM Education

- Team up with UiTM lecturers from other branches
- Awareness on space through STEM education



- **Lead STEM Outreach Program: IoT Meets Space: Expanding STEM Horizons for Underserved Students at Selangor Through Satellite Prototyping**
- *Grant awarded by IEEE TryEngineering Program*
- *10 lecturers + 6 students as facilitators + 1 company*
- *50 schools' students (participants) + 13 teachers (2 schools in rural Selangor, Malaysia)*
- *3 phases:*
  - *Phase 1 & 2: Theoretical & Practical Training Workshops at each school*
  - *Phase 3: Final Competition → CanSat Operation Challenge (COC) at UiTM*

# UNISEC-Global Activities in 2024-25

- *IoT Meets Space @ SMK Seri Sepang – 9-10 August 2025*



# UNISEC-Global Activities in 2024-25

- *IoT Meets Space @ SMK Seri Sepang – 9-10 August 2025*



# UNISEC-Global Activities in 2024-25

- *IoT Meets Space @ SMK Bandar Baru Salak Tinggi*
  - 12-13 August 2025



# UNISEC-Global Activities in 2024-25

- *IoT Meets Space @ UiTM*
  - 11 October 2025



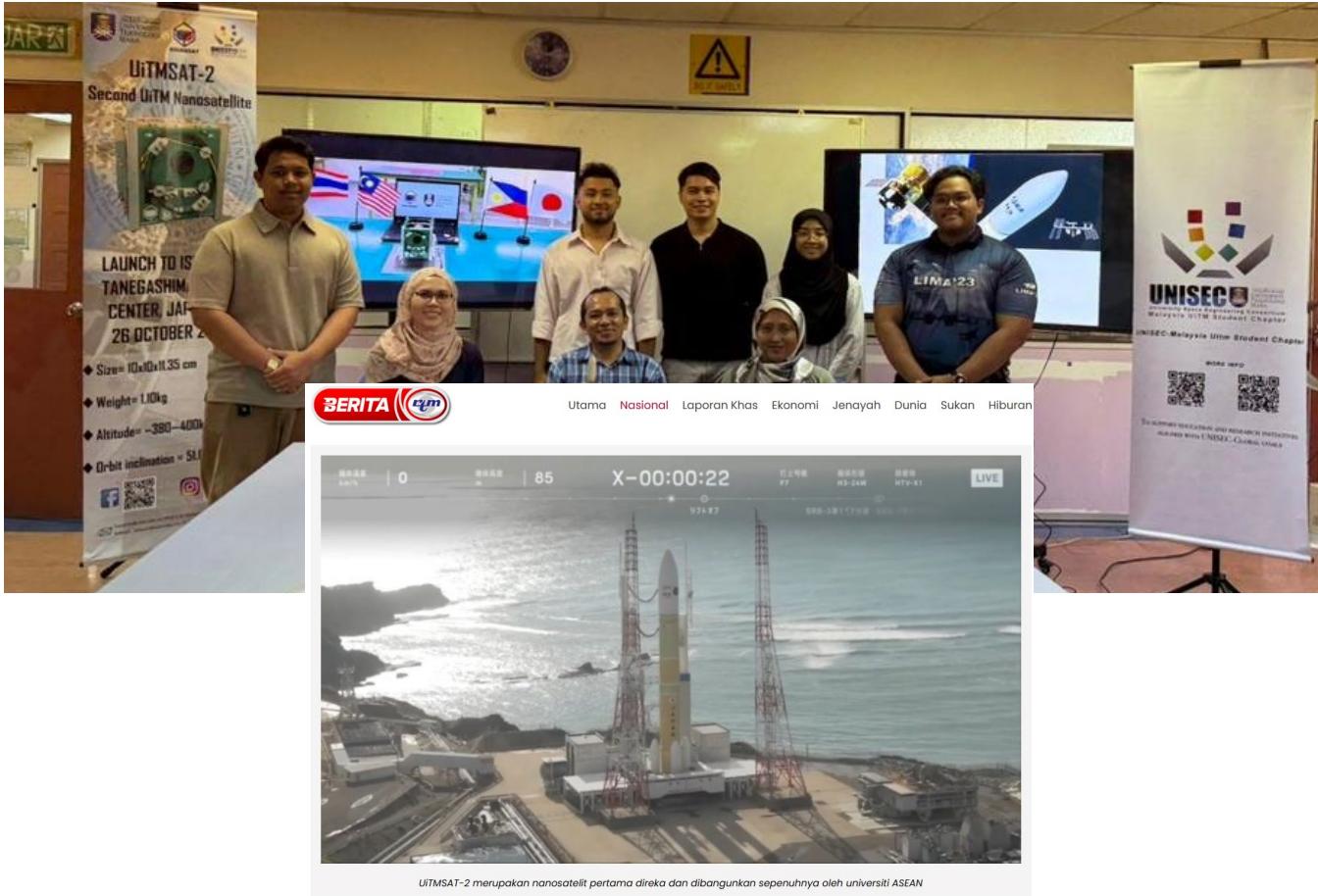
# UNISEC-Global Activities in 2024-25

- *IoT Meets Space @ UiTM*
  - 11 October 2025



# UNISEC-Global Activities in 2024-25

- ***UiTMSAT-2 launching to ISS by JAXA's H3 F7 rocket – 26 October 2025***



**SHAH ALAM, 26 Oktober** – Universiti Teknologi MARA (UiTM) sekali lagi mencipta sejarah apabila berjaya melancarkan nanosatelit keduanya, UiTMSAT-2, ke Stesen Angkosa Antarabangsa (ISS) menerusi misi HTV-X1 yang berlepas menggunakan roket H3 F7 dari Tanegashima Space Center, Jepun pada pukul 8 pagi waktu Malaysia hari ini.

# UNISEC-Global Activities in 2024-25

- **Engineering Student Societies Expo in UiTM – 24-25 October 2025**
  - promote UNISEC-Malaysia UiTM SC
  - Introduced UNISEC-Malaysia's mission, activities, and opportunities
  - Engaged with students through direct interaction and information sharing
    - Increased awareness and interest among students (Electrical, Mechanical, Chemical)
  - Expanded the local chapter membership base: Recruit new members



# UNISEC-Global Activities in 2024-25

- *Organized talk for final year students: **Building Engineers of the Future***
- *24 Oct 2025*
- *To prepare final-year students for professional engineering careers*
- *To expose students to industry expectations and real-world engineering practice*
- *To inspire future engineers to contribute responsibly to society and technology advancement*



The banner is purple and features the text 'ALUMNI-IN-ACTION' in large white letters, 'BUILDING ENGINEERS OF THE FUTURE' in blue, and 'INDUSTRY INSIGHTS: SUCCEEDING BEYOND GRADUATION' in white. It also includes 'Pelajar Tahun Akhir (Sem 7 & 8) Diwajibkan hadir' in white. On the right, there are three headshots of men: one in a suit, one with glasses, and one with a beard. Below each headshot is a 'Panelist' label and their name and title.

**JUMAAT, 24 Oktober 2025**  
9:00 - 11:00 pagi pagi  
DK C FKE UiTM Shah Alam

**ALUMNI-IN-ACTION**  
BUILDING **ENGINEERS** OF THE FUTURE  
INDUSTRY INSIGHTS: SUCCEEDING BEYOND GRADUATION

**Pelajar Tahun Akhir (Sem 7 & 8)**  
**Diwajibkan hadir**

**Panelist**  
**AMEER YUSLAN**  
Schlumberger Asia Support Sdn Bhd

**Panelist**  
**IR HJ MOHD SALLEH**  
SHR Engineering  
**Pengerusi Persatuan Alumni FKE UiTM**

**Panelist**  
**DATO' IR MOHD NOR**  
Metro Harapan Sdn Bhd  
**CEO@Faculty**

**JUMAAT, 24 Oktober 2025**  
9:00 - 11:00 pagi pagi  
DK C FKE UiTM Shah Alam

# UNISEC-Global Activities in 2024-25

- *UNISEC-Malaysia UiTM Student Chapter Teambuilding – 14 December 2025*
  - *to engage with new members*
  - *As preparation for AGM (potential new executive committee members)*
  - *to foster rapport and teamwork among existing and prospective committee members*
  - *Strengthened leadership continuity and chapter sustainability*



# Plan for 2025-26 and beyond

## *Space Outreach*

- *Using ASEANSAT as the platform*
- *Students to be exposed on satellite operation through Ground Station*
- *Students' understanding on telemetry data.*



# Plan for 2025-26 and beyond

- Organize an ASEAN-level space technology summits and activities
  - To strengthening international visibility and student leadership development
- *Visits to other UNISEC chapters for mutual collaboration and joint programs:*
  - UNISEC-Thailand
- Participation in the 12th UNISEC Meeting:
  - to expose and motivate student members

# Local Chapter Activity Report

## at the 11<sup>th</sup> UNISEC–Global Meeting

*THANK YOU*

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