17.2.4 Collaboration for SDG best practice



International Collaboration Events

S.No	Name of the University/ Organization	International faculty in contact with details	Date of Interaction	Event Name	SDG
1.	Universiti Teknologi PETRONAS (UTP), Malaysia	Faculty members and programme coordinators, UTP	20.01.2025 to 24.01.2025	International Student Immersion Program (incl. hands-on workshop on Fundamentals of Machine Learning in MATLAB) – Shanmathi Srinivasan, Diya Anvardeen, B.Tech AI & DS	4,9,17

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UNIVERSITI TEKNOLOGI PETRONAS
IMMERSION PROGRAM REPORT

Submitted by

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DIYA ANVARDEEN

In partial fulfilment for the award of the degree

of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Introduction

The immersion program at Universiti Teknologi PETRONAS (UTP), Malaysia, was designed to provide participants with an in-depth understanding of academic and industrial practices in Malaysia. The program aimed to enhance technical knowledge, foster cross-cultural experiences, and establish professional connections. This report presents a day-wise account of the activities and key learnings from the program.

Malaysia, known for its technological advancements and cultural diversity, offers a unique environment for academic and industrial learning. UTP, as one of the leading engineering and technology institutions in the country, serves as an ideal destination for such an immersive experience. Participants had the opportunity to engage in hands-on activities, industry visits, and collaborative projects that broadened their perspectives on global engineering and technological trends.

Through this program, students not only gained technical knowledge but also developed interpersonal skills by interacting with peers, faculty members, and industry professionals. The exposure to a new educational system and cultural setting played a crucial role in shaping a well-rounded learning experience.

Daily Breakdown

Day 1 – [20/1/25]

Agenda:

- Arrival at UTP, registration, and orientation
- Welcome session by UTP faculty
- Campus tour

Activities & Learnings:

- Introduction to UTP's academic structure, research facilities, and industrial collaborations
- Campus tour showcasing laboratories, libraries, and innovation centers.
- Interaction with faculty and students

Reflections & Insights:

- The well-structured and modern infrastructure of UTP was impressive, providing an ideal environment for research and learning.
- The faculty and students were welcoming, making it easier to adapt to the new environment.
- Cultural differences were observed, particularly in the academic approach and student engagement styles, but there were also many similarities in enthusiasm for learning.



ORIENTATION SESSION AT UTP

Day 2 – [21/1/25]

Agenda:

- Fundamentals of Machine Learning in MATLAB: A Hands-on Workshop
- Student Activity and Engagement (Competition)

Reflections & Insights:

- The academic approach at UTP was highly practical, integrating theoretical knowledge with hands-on learning.
- The industry visit provided a real-world perspective on how classroom knowledge translates into practical applications.
- Differences in industry standards and processes between Malaysia and our home country were noted, highlighting global variations in engineering practices.
- Overcoming challenges during lab sessions enhanced problem-solving and teamwork skills.

STUDENT ACTIVITY SESSION




SAFETY FIRST
MAKAN KESELAMATAN
Solution
PLANTING NATIVE SPECIES
WATER MANAGEMENT
WILDLIFE REINTRODUCTION



Day 3 – [22/1/2025]

Agenda:

- Local trip to Ipoh City
- Visit to Kellie's Castle
- Lunch at Ipoh Parade and tour of Concubine Lane

Reflections & Insights:

- The trip to Ipoh City provided an opportunity to explore Malaysia's cultural and historical heritage.

- Kellie's Castle provided a glimpse into Malaysia's colonial history, showcasing an unfinished mansion with a unique architectural blend of Eastern and Western styles.

- Concubine Lane, with its mix of historical significance and modern-day commerce, was a unique experience blending tradition and tourism.



KELLIE'S CASTLE

Day 4 – [23/01/2025]

Agenda:

- Departure to Kuala Lumpur
- Visit Batu Caves Temple
- Visit Petronas Twin Towers and Skybridge Tour

Reflections & Insights:

- Batu Caves Temple was an incredible cultural experience, showcasing Malaysia's religious diversity and stunning limestone formations.
- The visit to the Petronas Twin Towers provided a deeper appreciation for Malaysia's engineering marvels and economic progress.
- Exploring Kuala Lumpur highlighted the country's blend of tradition and modernity, making it a dynamic and exciting destination.



BATU CAVES



PETRONAS TWIN TOWERS

Day 5 – [24/01/2025]

Agenda:

- Departure from Kuala Lumpur International Airport at 3:00 AM
- Flight back to India
- Arrival at Bengaluru Airport at 5:00 AM
- Travel back to home university via Bengaluru Railway Station

Reflections & Insights:

- The journey back home was a moment of reflection on the entire experience, marking the end of an enriching academic and cultural immersion.
- The connections and friendships formed during this program will remain valuable for future collaborations and professional growth.
- Overall, the program successfully met its objectives of academic enhancement, cultural exposure, and skill development.

The immersion program at UTP Malaysia provided a unique blend of academic learning and cultural exploration. The hands-on experience, industry visits, and cross-cultural interactions significantly enriched our understanding of global academic and professional practices. This program will have a lasting impact on our academic growth and future career prospects.

Through this journey, we gained not only technical knowledge but also valuable interpersonal and intercultural skills. Exposure to new learning methodologies, diverse industry approaches, and a vibrant cultural environment contributed to a transformative educational experience.

We extend our sincere gratitude to Universiti Teknologi PETRONAS, faculty members, program coordinators, and fellow students for making this experience insightful and memorable.