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# SUMMER INTERNSHIP PROGRAM 2025-2026



An Academic and Cultural  
Exchange at Universiti Teknologi  
PETRONAS (UTP), Malaysia

Presented by:

Pimpri Chinchwad University (PCU), Pune, India

In Collaboration with:

Universiti Teknologi PETRONAS (UTP), Malaysia



24th July – 2nd August 2025



Universiti Teknologi  
PETRONAS, Perak, Malaysia

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## Introduction

The Malaysia Summer Internship Program, held from 24th July to 2nd August 2025, was an enriching and multicultural academic journey hosted by Universiti Teknologi PETRONAS (UTP). Bringing together a select group of Indian students, the program offered a transformative platform to explore cutting-edge developments in science, technology, engineering, and mathematics (STEM).

**Universiti Teknologi PETRONAS (UTP)**, Malaysia's leading private university, is renowned for its world-class engineering, science, and technology education. Established in 1997 by PETRONAS, the National Oil and Gas Company of Malaysia, UTP is recognized for its modern campus, state-of-the-art research facilities, and a strong emphasis on innovation, sustainability, and industry collaboration. With a diverse student body and global academic partnerships, UTP offers a dynamic environment that nurtures both academic excellence and cultural exchange.

Participants engaged in hands-on workshops, lab sessions, and industry visits, gaining practical exposure to real-world applications of their academic knowledge. Expert-led lectures by UTP faculty and industry professionals provided deep insights into emerging technologies, sustainability practices, and innovation trends shaping the global landscape.

Beyond academics, the initiative incorporated cultural exchange programs and collaborative projects, enabling students to work in diverse teams, develop cross-cultural communication skills, and broaden their global perspectives. Visits to Malaysian heritage sites and local communities further enriched the experience, fostering cultural appreciation and interpersonal bonding.

The program not only strengthened technical competencies but also cultivated essential skills in teamwork, problem-solving, leadership, and adaptability. By the end of the internship, participants returned with enhanced academic knowledge, cultural awareness, and a renewed sense of purpose to contribute meaningfully to their respective fields.

## Day 1 (24 July 2025): Arrival & Oil Rig Project

Upon landing in Malaysia, participants were greeted with warmth, enthusiasm, and a meticulously organized reception by the program coordinators and student volunteers. Smiling faces, friendly introductions, and clear guidance immediately helped ease travel fatigue. The sense of stepping into a new cultural and academic environment was both thrilling and inspiring.

The highlight of the opening day was the interactive Oil Rig Construction Project a dynamic, team-based engineering challenge designed to spark collaboration from the very start. Students were randomly grouped with peers from Turkmenistan, encouraging participants to connect beyond familiar circles and embrace cultural diversity. Armed with only basic yet limited materials like cardboard, skewers, plastic straws, and tape, teams were tasked with brainstorming, designing, and building a functional and structurally stable oil rig model within a fixed time limit.

What appeared to be a playful icebreaker quickly revealed itself as a cleverly crafted simulation of real-world engineering challenges. Teams had to think critically, manage scarce resources, and work under time pressure, all while navigating different working styles, accents, and problem-solving approaches. The room buzzed with energy bursts of laughter, focused discussions, and the occasional friendly debate filled the air. Overcoming language barriers, cultural differences, and creative disagreements, participants found ways to merge ideas into a single, unified design.

By the end of the activity, each team proudly showcased its creation, with some rigs standing tall and others wobbling charmingly under the weight of ambition. More than the outcome, it was the process the brainstorming, the compromises, the spontaneous leadership moments that left a lasting impression.



## **Day 2 (25 July 2025): Opening Ceremony, Orientation & Campus Tour**

The second day began with a grand Opening Ceremony at UTP's main auditorium, where faculty members, coordinators, and dignitaries warmly welcomed participants. Inspiring speeches and multimedia presentations highlighted the importance of international cooperation, youth leadership, and STEM education in addressing global challenges, setting a motivating tone for the program. The atmosphere was a blend of formal prestige and youthful excitement, as students realized the unique opportunity they had to represent their home countries on such an international stage.

An orientation session followed, covering the program schedule, behavioral guidelines, and cultural etiquette. Coordinators emphasized open-mindedness, respect for diversity, and adaptability — qualities essential for thriving in both academic and professional environments. This prepared students for a smooth, respectful cross-cultural experience and built a sense of confidence for the days ahead.

The afternoon featured a guided campus tour showcasing UTP's striking blend of futuristic architecture and lush landscapes. Highlights included engineering labs with advanced simulation tools, the expansive library, research centers, and recreational spaces fostering creativity and well-being. Students were impressed by how seamlessly UTP combined technical innovation with an environment that nurtures community and collaboration.

A standout moment was the visit to the Chinese Orchestra Room, where the UTP Cultural Orchestra performed traditional Malaysian-Chinese music. Students learned about the instruments' history, enjoyed live performances, and even tried playing a few themselves. Laughter filled the room as participants attempted unfamiliar melodies, turning the session into a lively and memorable cultural exchange that perfectly complemented the program's technical focus.



## **Day 3 (26 July 2025): Short Courses**

### **Session 1: Financial Management**

On this day, students attended an intensive academic session led by Dr. Maran Marimuthu, a seasoned expert in finance and business management at UTP. The Financial Management course was designed to equip participants with essential skills applicable in both personal and professional contexts.

The session covered key topics such as interpreting financial statements, including the Profit & Loss Account, Balance Sheet, and Cash Flow Statement; applying ratio analysis to assess liquidity, profitability, leverage, and market performance; mastering the Time Value of Money (TVM) through present and future value calculations, simple and compound interest, annuities, and perpetuities; and an introduction to Discounted Cash Flow (DCF) for evaluating investment projects.

What set the session apart was its interactive and case-based approach. Dr. Maran encouraged questions, group discussions, and quick problem-solving exercises, turning theory into practical tools. Participants analyzed real-world examples, assessed company performance, and calculated investment values, making complex concepts easier to grasp.

For many, this was their first encounter with corporate finance. The hands-on format not only demystified the subject but also equipped them with practical knowledge they could confidently apply in future academic and professional settings.

### **Session 2: Project Management**

In the second half of the day, Dr. Marimuthu switched gears to focus on the fundamentals of Project Management a discipline that is essential in today's multidisciplinary and fast-paced work environments.

The session began with an introduction to the definition and nature of projects, emphasizing their temporary, unique, and goal-oriented characteristics. Students then explored the Project Life Cycle, which includes Initiation, Planning, Execution, Monitoring, and Closure.

Practical techniques were introduced, such as the Work Breakdown Structure (WBS), risk impact matrix, value engineering, and cost estimation. Alongside these technical tools, Dr. Maran stressed the importance of soft skills, including leadership, communication, organization, budgeting, risk management, stakeholder engagement, and team coordination.

Through group discussions, role plays, and scenario-based exercises, participants gained a hands-on understanding of how projects are conceptualized, planned, and delivered successfully. The session concluded by underlining that effective project management is not only about meeting deadlines and budgets but also about driving innovation and ensuring strategic alignment within an organization.

## Day 4 (27 July 2025): Ipoh City Tour

On the fourth day, participants began their Ipoh city tour by venturing into the scenic valleys on the city's outskirts. Surrounded by towering limestone hills and lush greenery, the area offered a serene escape from the academic routine.

The highlight here was Mirror Lake, a hidden natural wonder tucked between steep cliffs. Its crystal-clear, glass-like surface reflected the surrounding landscape perfectly, creating a breathtaking view that left participants reaching for their cameras and taking in a moment of peaceful reflection.

From nature's tranquility, the group moved to the vibrant heart of Ipoh the iconic Concubine Lane. This narrow yet lively street, rich in heritage and buzzing with activity, was lined with colorful shophouses, intricate murals, and bustling stalls. Students explored local shops selling handmade crafts, quirky souvenirs, and artisanal goods while sampling authentic Malaysian street food. From savory bites and freshly brewed coffee to traditional desserts like tau fu fah, every taste told a story of the region's cultural diversity. The lively atmosphere sparked laughter, conversations, and photo opportunities at every turn.

The day concluded at the Parade Mall, one of Ipoh's key shopping destinations. Here, students enjoyed a relaxed afternoon exploring retail outlets, indulging in café treats, and spending time with friends. The itinerary provided a perfect balance of natural beauty, cultural immersion, and leisure, making it one of the most memorable days of the program.



## Day 5 (28 July 2025): Short Courses

### Session 1: Machine Learning

The fifth day resumed the academic learning sessions with Short Course III, titled Machine Learning: What You Need to Know. This session served as an entry point into the rapidly evolving field of artificial intelligence. The facilitator began by explaining the core idea behind machine learning—how systems can learn patterns from data and improve their performance without explicit programming.

Real-life examples such as recommendation engines, facial recognition, and predictive analytics were discussed to illustrate its impact on everyday life. The session also introduced participants to different categories of algorithms, including supervised and unsupervised learning, along with a brief overview of tools and programming languages commonly used in the field. The focus remained on making the concepts approachable while encouraging participants to think about potential applications in their own domains of interest.

### Session 2: Financial Management and Tools

After the lunch break, attention shifted to a very different skill set with Short Course IV on Financial Management and Tools. This session moved away from technology to address the equally critical aspect of managing financial resources effectively. It began with the fundamentals—understanding revenue, expenses, and profit—and then progressed to more applied topics like budgeting techniques, break-even analysis, and cash flow management. Participants were introduced to practical tools such as spreadsheet-based trackers and financial software that assist in planning, monitoring, and forecasting finances.

The session was interactive, with case-based examples showing how sound financial management can support the success of startups and established businesses alike. By the end of the day, a Post-Discussion Session allowed participants to share insights, link concepts from both courses, and reflect on how combining technical knowledge with financial literacy can strengthen project execution. The evening was left free for relaxation and informal networking.



## Day 6 (29 July 2025): Trip to Penang

We began the day by gathering at the hotel lobby, filled with excitement for our trip to Penang. The journey was lively, with conversations, laughter, and glimpses of Malaysia's scenic landscapes along the way. Penang, often called the "Pearl of the Orient," is known for its vibrant mix of cultures, art, and heritage, and we were eager to experience it firsthand.

Our first stop upon arrival was the famous Nasi Kandar Deen Mutiara on Hutton Lane. The place was bustling with locals and tourists alike, all drawn by its flavorful dishes. Each of us had the chance to choose from a variety of aromatic curries, rich gravies, and freshly cooked sides, creating a personalized plate of Penang's signature cuisine. It was a delightful culinary experience that gave us a true taste of the city's food culture.

With our appetites satisfied, we continued our journey to explore Penang's world-renowned Street Art and Armenian Street. The area was a vibrant open-air gallery, with colorful murals telling stories of the city's history, daily life, and creative spirit. We wandered through narrow lanes, stopping to admire and photograph the famous interactive street art installations that have become a hallmark of Penang.

Our walk extended into the charming Armenian Street and the Georgetown UNESCO Heritage Site, where colonial-era buildings stood alongside quaint shops, art galleries, and local craft stalls. The air was filled with the aroma of traditional snacks, the sound of street musicians, and the warm chatter of locals. Immersing ourselves in this blend of history, culture, and artistry made the day not just a sightseeing trip, but a memorable cultural journey that deepened our appreciation for Penang's unique charm.



## Day 7 (30 July 2025): Short Courses & Presentation

We began the day with a visit to Universiti Teknologi PETRONAS (UTP), heading to Pocket D (D6) for Startup Idea Presentation. In this engaging session, students presented innovative startup ideas aimed at solving real-world problems. The concepts ranged from technology-driven solutions like mobile applications and automation systems to socially impactful projects focusing on sustainability and healthcare.

Each presenter discussed their problem statement, solution, target audience, and business model, followed by an interactive Q&A that encouraged constructive feedback and idea exchange. The session was both inspiring and educational, offering valuable insights into entrepreneurship.

After lunch at, we attended Mathematical Modelling. This session introduced the process of representing real-world challenges through mathematical equations and logic. We explored practical applications in industries such as engineering, finance, and environmental studies, learning how models help predict outcomes and optimize solutions. Group activities and problem-solving exercises made the session interactive and practical.

The day concluded with a return to the hotel, enriched by the creativity seen in the morning's presentations and the analytical skills developed during the afternoon's training.



## Day 8 (31 July 2025): Short Courses

### Session 1: Business Intelligence

We began the day by travelling to Universiti Teknologi PETRONAS (UTP). Upon arrival, we had lunch at Block 11-01-02, where we enjoyed a relaxed break before starting the day's main activity.

The afternoon was dedicated to **Business Intelligence**, a session that provided an in-depth introduction to the principles and applications of BI in today's data-driven world. The instructor explained how organizations collect, process, and analyze data to gain insights that guide strategic decision-making. We explored the BI lifecycle, from gathering raw data to transforming it into visual dashboards and reports that are easy to interpret. Real-world case studies demonstrated how companies use BI tools to improve efficiency, identify trends, and respond to market changes.

We were also introduced to different BI tools and techniques, learning how data visualization can reveal patterns and support more informed business strategies. Interactive discussions allowed us to ask questions and consider how BI could be applied across various industries, from finance and healthcare to marketing and supply chain management.

The session offered a valuable perspective on how technology and analytics intersect to create meaningful business insights. By the end of the day, we returned to the hotel with a stronger understanding of how data can be leveraged for competitive advantage in any professional setting.



## Day 9 (1 August 2025): Trip to Batu Caves and Kuala Lumpur

On the first day of the trip, we gathered at the hotel lobby in the morning and began our journey to **Batu Caves**, one of Malaysia's most renowned cultural and religious landmarks. The drive offered picturesque views of the city gradually giving way to lush greenery. Upon arrival, we were greeted by the breathtaking sight of the towering golden statue of Lord Murugan, standing majestically at the entrance. The colorful staircase, with its 272 vibrant steps, led us into the limestone caves that house several Hindu shrines. Exploring the caves allowed us to appreciate not only their geological beauty but also their deep spiritual significance. The lively atmosphere, with the presence of monkeys and the aroma of incense, made the experience both culturally enriching and memorable.

In the afternoon, we continued our trip to **Kuala Lumpur City Centre**. Here, participants had the opportunity to admire the modern skyline, explore nearby attractions, shop for souvenirs, or simply enjoy the city's dynamic vibe. The iconic Petronas Twin Towers and surrounding gardens offered perfect photo opportunities, while the bustling streets nearby provided a taste of Malaysia's urban lifestyle.

The visit to the heart of Kuala Lumpur also highlighted the contrast between Malaysia's rich traditions and its rapid modernization. From the spiritual calm of Batu Caves to the sleek glass towers of the city, the day provided a fascinating glimpse into how history and progress coexist in the country. Many participants used this time to try local delicacies, interact with friendly locals, and immerse themselves in the city's multicultural charm.



## Day 10 (1 August 2025): Kuala Lumpur & Departure

On this day, we gathered at the hotel lobby late in the morning, completing the check-out process before setting off for our final day of activities. The group was in good spirits, carrying with them the memories and experiences from the previous days. Our destination for the afternoon was **IOI Mall**, a popular shopping and leisure complex known for its wide variety of stores, dining options, and entertainment facilities.

Upon arrival, participants had several hours of free time to explore the mall at their own pace. Some took the opportunity to shop for last-minute souvenirs, clothing, or accessories, while others opted to relax in the many cafés and restaurants, sampling both local and international cuisines. The spacious layout and modern design of the mall offered a comfortable environment to unwind before the journey home. A few participants also visited entertainment outlets within the mall, adding a lighthearted and enjoyable close to the trip.

In the late afternoon, we regrouped at the bus, ensuring that everyone was ready for the departure to **Kuala Lumpur International Airport (KLIA)**. The journey to the airport was filled with conversations and reflections on the highlights of the trip, from cultural experiences to shared moments of fun and discovery. Upon arrival at KLIA, we bid farewell to some participants who were continuing their travels, marking the conclusion of an enriching and memorable journey together.



## **Conclusion**

The trip was a well-rounded and enriching experience that combined cultural immersion, sightseeing, and leisure in a way that appealed to everyone. Beginning with the awe-inspiring visit to Batu Caves, participants were able to witness Malaysia's spiritual and historical depth firsthand, exploring sacred shrines set against the backdrop of striking limestone formations. The contrasting afternoon in Kuala Lumpur City Centre showcased the country's impressive modernization, with its iconic skyline, bustling streets, and vibrant urban culture. These experiences together highlighted the harmony between tradition and progress that defines Malaysia.

The final day offered a more relaxed pace, allowing participants to unwind at IOI Mall, indulge in local and international delicacies, and collect souvenirs to commemorate the journey. This lighter conclusion to the trip balanced the earlier days of exploration and learning, ensuring that everyone departed with both cultural insights and fond memories.

Beyond the destinations themselves, the trip fostered camaraderie, teamwork, and shared moments that strengthened the bonds among participants. Whether it was climbing the colorful steps of Batu Caves, capturing the perfect photo at the Petronas Towers, or enjoying casual conversations over a meal, each moment contributed to a collective experience that will be remembered well beyond the journey's end. It was not just a travel itinerary—it was a shared story of discovery, friendship, and connection.