



18th Asia Oceania Top University League on Engineering

“Quality Engineering Education and Practices for Sustainable Development”



Hosted by

University of Moratuwa, Sri Lanka

Participating Universities



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Message from the Hosting Dean

Dear Esteemed Participants,

I have the great pleasure of extending a warm welcome to each and every one of the esteemed attendees of the Asia-Oceania Top University League on Engineering (AOTULE) 2023 conference, hosted by the University of Moratuwa - Sri Lanka.



Prof. Udayanga Hemapala
Dean, Faculty of Engineering
University of Moratuwa, Sri Lanka

In our ever-evolving world, engineering stands at the forefront of innovation and progress. AOTULE conference serves as a platform for the brightest minds in engineering education to gather, share insights, and pave the way for a sustainable future. Our commitment to excellence in education, research, and collaboration aligns perfectly with the vision of AOTULE.

As we converge to explore the theme of "Engineering Education for Sustainable Development," let us collectively embrace the challenges of our time and harness the power of engineering to drive positive change. Let us ignite discussions, forge connections, and emerge with solutions that echo far beyond these conference walls.

The commitment of AOTULE to excellence in engineering education and research resonates deeply with the values upheld by the University of Moratuwa. Our university stands as a beacon of innovation and academic rigor, committed to nurturing future engineers who will lead the charge in solving the challenges of tomorrow.

As we embark on this journey of collaboration and discovery, I extend my heartfelt appreciation to all participants, presenters, organizers, and partners who have made AOTULE 2023 possible. To our esteemed participants, I encourage you to actively engage in the diverse sessions, exchange ideas, and form lasting connections. Let this conference be a catalyst for new perspectives and innovative solutions that can drive positive change in engineering education and practice. Let us create lasting impact and lay the foundation for a more sustainable future through engineering excellence.

Finally, I sincerely hope that all the participants will benefit from the contents of this conference and wish you a very successful conference and an enjoyable stay in Sri Lanka.

The Asia-Oceania Top University League on Engineering

The Asia-Oceania Top University League on Engineering was founded in 2007 by forming strong collaborative relationships through exchanges of information , students, faculty members and staff among the top-ranking engineering universities in the Asia-Oceania region.

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The Asia-Oceania Top University League on Engineering (AOTULE) consists of the following university members:

- Bandung Institute of Technology, Indonesia
- Chulalongkorn University, Thailand
- Hanoi University of Science and Technology, Vietnam
- Indian Institute of Technology Madras, India
- Korea Advanced Institute of Science and Technology, Korea
- Nanyang Technological University, Singapore
- National Taiwan University, Taiwan
- The University of Melbourne, Australia
- The Hong Kong University of Science and Technology, Hong Kong
- Tokyo Institute of Technology, Japan
- Tsinghua University, China
- University of Malaya, Malaysia
- University of Moratuwa, Sri Lanka

Program Overview - AOTULE 2023

The AOTULE conference serves as a collaborative effort between our institutions to bring together top engineering universities in the Asia-Oceania region. The conference, scheduled to be held on 9th November 2023 to 10th November 2023 at the premises of University of Moratuwa, aims to enhance the quality of engineering education and research and address the challenges of sustainable development through the theme "Engineering Education and Practices for Sustainable Development."



Mode of Conference

The AOTULE 2023 conference will be conducted in-person at the University of Moratuwa premises on 9th and 10th November 2023. All the esteemed guests are expected to plan their arrival in Sri Lanka on 8th November 2023 to ensure a seamless and hassle-free participation in the conference.

Time Frame of AOTULE 2023 Conference

Day 01	09th November 2023	
08.15 am - 08.30 am	Registration Table	
08.30 am - 09.35 am	Opening Ceremony of the Conference	
10.00 am - 01.00 pm	Dean's Meeting	Student Workshops on Sustainability
01.00 pm - 02.00 pm	Networking Lunch at the main Conference	
02.15 pm - 03.15 pm	A visit around the Engineering Faculty	
05.30 pm - 08.00 pm	Steering Committee Meeting	Student Group Activities
08.00 pm - 12.00 am	Gala Dinner	

Day 02		10th November 2023
09.00 am - 11.45 am	Student Conference	
11.45 am – 12.45 pm	Farewell Lunch	
12.45 pm - 01.15 pm	Award Ceramony	
01.35 pm - 03.00 pm	Staff Meeting	
03.15 pm - 03.30 pm	Closing Remarks of the Conference	

Agenda of AOTULE 2023 Conference

Day 01 – 09th November 2023

Time	Program
08.15 am - 08.30 am	Registration Table
<i>Opening Ceramony of the Conference</i>	
08.30 am - 08.45 am	Welcoming the Guests
08.45 am - 08.55 am	Traditional Oil Lamp
08.55 am - 09.05 am	Welcome Address by Prof. Udyanga Hemapala Conference Chairman Dean, Faculty of Engineering, UOM
09.05 am - 09.15 am	Address by the Chair of AOTULE Steering Committee
09.15 am -09.30 am	Brief about the Conference Schedule
09.30 am - 09.45 am	Keynote Speech
09. 45 am - 10.00 am	Group Photo
<i>Dean's Meeting</i>	
10.00am - 10.30 am	5 Mins Institution Overview and 10 Mins Conference Theme presentation per Institution <ul style="list-style-type: none"> • Bandung Institute of Technology, Indonesia • Chulalongkorn University, Thailand
10.30 am - 10.45 am	Morning Refreshment (This will serve during the meeting)
10. 45 am -12.00 pm	5 Mins Institution Overview and 10 Mins Conference Theme presentation per Institution <ul style="list-style-type: none"> • Hanoi University of Science and Technology, Vietnam • Indian Institute of Technology Madras, India • Korea Advanced Institute of Science and Technology, Korea • Nanyang Technological University, Singapore • National Taiwan University, Taiwan • The Hong Kong University of Science and Technology, Hong Kong

12.00 pm - 01.00 pm	Lunch Break
<i>Dean's Meeting Continued</i>	
01.00 pm - 02.00 pm	<ul style="list-style-type: none"> • The University of Melbourne, Australia • Tokyo Institute of Technology, Japan • Tsinghua University, China • University of Malaya, Malaysia • University of Moratuwa, Sri Lanka
02.00 pm - 02.15 pm	Open Floor for discussion on any other interests of present Deans
02.15 pm - 03.15 pm	A visit around the Engineering Faculty of University of Moratuwa
03.15 pm - 03.20 pm	Evening Refreshments
<i>Steering Committee Meeting</i>	
05.30 pm - 08.00 pm	<ul style="list-style-type: none"> • Round Table Discussion on the Selected Topics under the Main Theme with participants and Industry collaborators • Minutes of Previous AOTULE Conference of 2022 • Call for Expressions of Interest for 2024 AOTULE Conference • 2024 Host Selection, Plan, and suggestions for further projects
08.00 pm - 12.00 pm	AOTULE Gala Dinner

Day 02 – 10th November 2023

Time	Program
08.30 am -09.00 am	Morning Breakfast
<i>Opening Remarks</i>	
09.00 am - 09.10 am	<ul style="list-style-type: none"> • Opening remark by Chairman of AOTULE Steering Committee • Distribution of Token of Appreciation
<i>Student Conference</i>	
09.10 am - 11.30 am	Each Student Group gets maximum 10 mins for presentation and 05 mins for Q&A
11.30 am - 11.45 am	Open Forum for students' Q&A for Deans and Staff
11.45 am - 12.45 pm	Lunch Break & Grade Processing
12.45 pm - 01.15 pm	Award Ceramony
01.15 pm - 01.25 pm	Evening Refreshments
01.25 pm - 03.00 pm	Staff Meeting (Every University gets 05 mins to talk about their staff and student mobility programs)
03.00 pm - 03.15 pm	Closing Remarks of the Conference
03.15 pm - 03.20 pm	Vote of Thanks
<i>End of Conference</i>	

Structure of the Conference

Deans Meeting

The Dean's meeting at the Asia-Oceania Top University League on Engineering (AOTULE) conference, scheduled for November 9, 2023, will consist of various activities centered around the theme "Quality Engineering Education and Practices towards Sustainable Development." The content of the meeting as follows;

- A keynote speaker, well-versed in the field of engineering education and sustainability, will deliver a speech focusing on the conference theme. This speech is expected to provide valuable insights, perspectives, and innovative ideas related to engineering education and its role in promoting sustainable practices.
- Deans from different universities participating in AOTULE will have the opportunity to present their respective institutions' initiatives, projects, and research related to engineering education and practices for sustainable development. Each Dean will have time to showcase their university's efforts, highlighting innovative approaches, successful collaborations, and key outcomes in the realm of sustainable engineering practices.
- Following the individual presentations, an open forum will be conducted to facilitate discussions among the participating Deans, faculty members, and other conference attendees. This forum will provide an opportunity to exchange ideas, share experiences, and address challenges faced in implementing initiatives to achieve sustainable development goals through quality engineering education and practices and future initiatives to achieve sustainability through a quality engineering education. It will encourage dialogue, collaboration, and the exploration of potential avenues for further cooperation among the universities.

Steering Committee Meeting

The Steering Committee Meeting, which will take place during the second half of the first day (09th November 2023) of AOTULE 2023, serves as a platform for the committee members to discuss important matters and make decisions regarding the future of the conference. The content of the meeting as follows;

- The Steering Committee will deliberate on potential universities to be included in the upcoming event, considering their expertise, contributions to engineering education, and commitment to sustainable development.
- The committee will conduct a thorough review of the Memorandum of Understanding (MoU) that governs the collaboration and cooperation among AOTULE member institutions. This review aims to ensure that the MoU aligns with the current goals and objectives of the conference, address any necessary amendments or updates, and reinforce the commitment to enhancing engineering education and research in the Asia-Oceania region.
- The Steering Committee will discuss and develop a comprehensive plan for the AOTULE 2024 meeting. This plan will outline the main theme for AOTULE 2024, key activities, and sessions to be included in the conference, as well as any proposed changes or enhancements based on the feedback and experiences from previous events. Additionally, committee members will have the opportunity to suggest further projects or initiatives that can contribute to the improvement of engineering education and research within the AOTULE network.

Student Conference

The Student Conference at AOTULE 2023 is a dynamic platform designed to foster collaboration, innovation, and knowledge exchange among students from various universities. During the conference, students will form groups comprising members from different institutions, promoting cross-cultural interactions and the sharing of diverse perspectives.

After group formation, students will be assigned topics related to "Quality Engineering Education and Practices for Sustainable Development," aligning with the conference's focus on sustainable development. The groups will then have two days to collaborate and work on their projects, conducting research, analyzing their chosen topic, and formulating recommendations based on quality engineering practices for sustainability.

On the second day of the conference, each group will have the opportunity to present their projects to a panel of judges and fellow participants. These presentations will showcase the students' research findings, insights, and recommendations, demonstrating their ability to effectively communicate complex ideas within the allotted time frame.

The panel of judges will evaluate the projects based on criteria such as research depth, clarity of presentation, innovation, and relevance to sustainable engineering practices. Following the evaluations, the panel will select the three best projects, which will be recognized and awarded during the conference. These awards aim to celebrate outstanding student work and encourage continued excellence in the field.

Form of Delivery of Student Conference

The Student Conference at AOTULE 2023 is designed to promote collaboration and knowledge exchange among students from different universities. Here is a brief overview of what will be happening during the conference:

- **Group Formation:**

On the first day of the conference, students will be divided into groups consisting of 3-4 members. Each group will be intentionally composed of students from different universities, encouraging cross-cultural interactions and the exchange of diverse perspectives.

- **Topic Assignment:**

Once the groups are formed, they will be provided with a selection of topics under the theme of "Quality Engineering Education & Practices for Sustainable Development." The topics will be aligned with the conference's focus on sustainable development. The groups will be asked to choose one topic of their preference for their project.

- **Project Work:**

After selecting a topic, the groups will have two days' time to collaborate and work on their assigned project. During this time, they will conduct research, analyze the topic, and develop their findings and recommendations based on quality engineering practices for sustainability.

- **Project Presentation:**

On the second day of the conference, each group will have the opportunity to present their project to a panel of judges and fellow participants. The presentations should effectively convey the group's research, insights, and recommendations related to the chosen topic. This session will showcase the students' ability to articulate their ideas and present their work in a concise and engaging manner.

- **Awards for Best Projects:**

Following the presentations, the panel of judges will evaluate the projects based on criteria such as research depth, clarity of presentation, innovative ideas, and relevance to sustainable engineering practices. The panel will then select the three best projects, which will be recognized and awarded during the conference. These awards aim to acknowledge and encourage exceptional work and contributions from the participating students.

Overall, the Student Conference at AOTULE 2023 provides a unique platform for students to collaborate, present their research, and contribute to the advancement of sustainable engineering practices. It promotes interdisciplinary teamwork, cross-cultural understanding, and the development of innovative solutions to address the challenges of sustainability in the engineering field.

Staff Meeting

The Staff Meeting at AOTULE 2023 will bring together Deans and staff members from participating universities to discuss collaborative initiatives and explore opportunities to student exchange. The meeting will focus on the following key agenda items:

- **Staff Student & Mobility and Best Practices in Engineering Education:**

The meeting will emphasize the importance of staff & student mobility as a means to gain exposure to best practices in engineering education. Participants will discuss the possibilities of staff members and students undertaking visits to partner universities or institutions renowned for their innovative approaches to sustainable engineering education. This discussion aims to promote knowledge sharing, foster cross-cultural learning, and inspire the adoption of effective teaching-learning methods and strategies within the AOTULE network

- **Research Collaboration:**

The Staff Meeting will provide a platform for attendees to explore possibilities for research collaboration. Discussions will revolve around identifying common research areas related to sustainable engineering education practices and the achievement of the 17 Sustainable Development Goals (SDGs). Emphasis will be placed on leveraging collective expertise, resources, and infrastructure to undertake impactful research projects that contribute to quality engineering education for sustainable development.

- **Collaborative Resource Utilization:**

The meeting will address the importance of collaborative resource utilization to provide quality engineering education aligned with sustainable development goals. Participants will discuss strategies to share educational resources, facilities, and expertise among AOTULE member institutions. This collaborative approach aims to optimize resource allocation, foster cost-effective practices, and promote a sustainable education ecosystem that can effectively address the challenges posed by the environment.

- **Open Discussion on Molding Engineering Education System towards Sustainability:**

A significant aspect of the Staff Meeting will be the open discussion among staff members and Deans on how to shape the engineering education system towards sustainability.

This discussion will encourage the exchange of ideas, experiences, and best practices to design curricula, teaching methodologies, and assessment frameworks that prioritize sustainable engineering practices. The objective is to collectively drive a paradigm shift in engineering towards sustainability, creating a positive impact on society and the environment. Further, it will offer opportunity for universities to promote their student exchange programs during the discussion.

Accommodation

Deans and Staff Members

Accommodation can be directly booked by the participants. We highly recommend the following hotels based on their proximity to the university and excellent facilities:

1. Cinnamon Lakeside Colombo (5 star hotel)

Distance : 18.5Km

Hotel Website Link : <https://www.cinnamonhotels.com/cinnamonlakesidecolombo>

Contact Number : +94 112 491 000



2. Galle Face Hotel (5 star hotel)

Distance : 16.8Km

Hotel Website Link : <https://www.gallefacehotel.com/>

Contact Number : +94 112 541 010

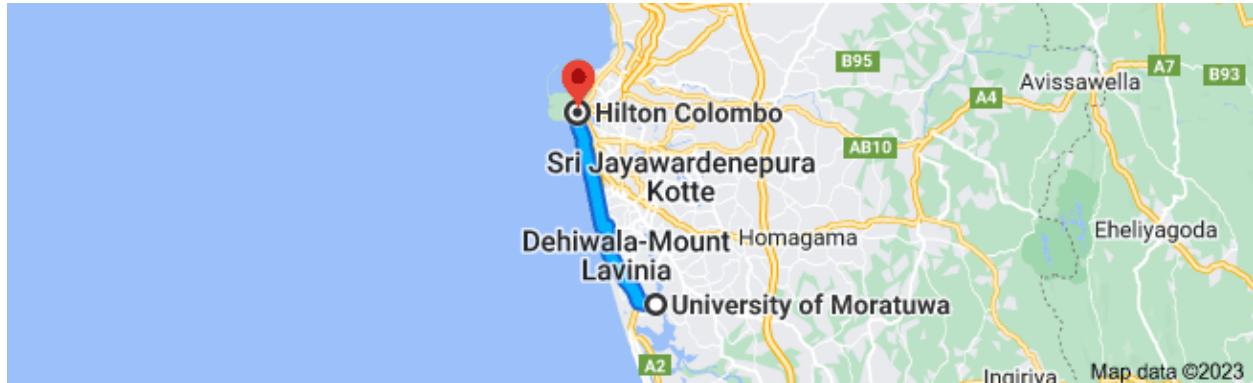


3. Hilton Colombo Hotel (5 star hotel)

Distance : 18.7Km

Hotel Website Link : <https://www.hilton.com/en/>

Contact Number : +94 112 492 492



4. The Kingsbury Hotel (5 star hotel)

Distance : 18.3Km

Hotel Website Link : <https://www.thekingsburyhotel.com/>

Contact Number : +94 112 421 221



5. Hotel Shrangila (5 star hotel)

Distance : 18.8Km

Hotel Website Link : <https://www.shangri-la.com/en/colombo/shangrila/>

Contact Number : +94 117 888 288



Students

For the convenience of our student participants, we are pleased to offer on-campus accommodation at the University of Moratuwa. Our aim is to provide a comfortable and conducive environment that fosters collaboration and interaction among students from various universities.

Accommodation Details:

- **Location:** University of Moratuwa Campus
- **Type:** Shared Dormitory-style Rooms
- **Facilities:** Each room is equipped with basic amenities such as beds, study desks, and storage space.
- **Common Areas:** Students will have access to common areas for socializing and networking.
- **Safety and Security:** The campus is equipped with security personnel and surveillance to ensure a safe environment for all participants.
- **Meals:** Meals will be provided at designated dining facilities within the campus.

This on-campus accommodation option not only offers convenience but also enables students to fully immerse themselves in the conference experience. Participants will have the opportunity to connect with fellow students, engage in discussions, and build lasting friendships.

Please note that the student accommodation is provided free of charge as part of our commitment to supporting student engagement in the AOTULE 2023 conference. We recommend that you register for the conference early to secure your place in the on-campus accommodation.

General Information

- **Theme :** Quality Engineering Education and Practices towards Sustainable Development
- **Venue :** Faculty of Engineering, University of Moratuwa
- **Dates :** 9th – 10th November 2023

Transportation

Deans and Staff Members

Arrival: Upon your arrival at the Bandaranaike International Airport (CMB), transportation to the recommended hotels will be arranged by the respective hotels. Please inform the hotel about your flight details in advance to ensure a smooth pick-up process.

Hotel to University: Transportation between the recommended hotels and the University of Moratuwa will be provided for all participants, including deans. Our designated vehicles will ensure your timely arrival at the conference venue, allowing you to focus on the event's proceedings.

Departure: For your departure, transportation from the hotel to the Bandaranaike International Airport (CMB) will be coordinated by the hotel. It is advisable to inform the hotel about your departure details in advance to ensure punctual drop-off.

Students

Transportation arrangements for student participants will be seamlessly facilitated by the university. University of Moratuwa will ensure their safe transfer from the Colombo International Airport (CMB) to the University of Moratuwa upon their arrival and back to the airport at the conclusion of the event. It is advisable to inform the flight details one week before the conference to the conference secretary to ensure a smooth transition.

Fees and Charges

Apart from the registration fee, there are no additional charges associated with participating in the conference. The conference registration fee covers all specified meals, sessions, and activities as outlined in the conference agenda. Payment can be done at the conference venue (registration table) and payment receipts will be provided for all participants upon their payment.

Registration Fee

Deans and Staff Members	\$ 100 (USD)
Students	\$ 25 (USD)

Visa Assistance and Inquiries

For international participants planning to join us at AOTULE 2023, we understand that visa arrangements is a crucial aspect of your journey. If you require any support or documentation for your visa application, or if you need assistance in planning your visit to Sri Lanka, please feel free to reach out to us through the official AOTULE 2023 conference email at aotule2023@uom.lk.

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