



# **Sustainable Materials for Tomorrow**

**AUA Lecture Series Program 2024**

**AUA Joint Lecture Series Program 2024:  
Sustainable Materials for Tomorrow**

**January to March 2024**

**Online**

Main Contact: Ms. Nurliyana, Universiti Malaya Secretariat

E-mail: [aua.lecture@gmail.com](mailto:aua.lecture@gmail.com)

## **AUA Lecture Series**

On 29 April 2017, the Asian Universities Alliance (AUA) was formally launched in Beijing. The founding of AUA marks a significant milestone in Asian higher education. It is a product of the common needs and shared expectations of the 15 founding universities.

In September 2021, AUA launched a joint online lecture series as an attempt and first step towards the long-term goal of an online shared course. In the first of the series, 15 eminent scholars from 13 leading universities in Asia addressed the challenges and opportunities of Asian economies in the post-COVID-19 era from various perspectives. Both the AUA students and the global audience gained a good level of understanding of different Asian economies. In addition, the AUA students enrolled in the program had an opportunity to study and have discussions with other students from Asia.

In October 2022, AUA joint online lecture series invited experts from each AUA university to introduce the energy strategies of their home countries, including scenario planning, and guide students and other attendees to rethink how to “ensure access to affordable, reliable, sustainable, and modern energy for all”.

## **The Theme of AUA Joint Online Lecture Series 2024**

The theme of this year’s AUA Joint Online Lecture Series is “**Sustainable Materials for Tomorrow**”.

The importance of materials in producing fascinating engineering miracles and high-end products is well accepted and undoubtful “Materials Science and Engineering” is one of the must-learn subjects by all engineering disciplines in the universities.

In the era of Industrial Revolution 4.0, requirements of engineering materials became more stringent to embrace unexpected challenges not only limited to fundamental aspect of engineering design but also from the delicate perspective in applications.

This year’s Joint Online Lecture Series will invite experts from each AUA university to share their insight into the future of sustainable materials from each of their specialized fields of interest. This Joint Online Lecture Series aims to broaden the understanding of materials for future applications and sustainable developments.

To delve into “**Sustainable Materials for Tomorrow**”, this program derives into the following sub-themes:

- (1) Green and Energy-Efficient Materials
- (2) Circular Economy: Recycling and Resource Recovery of Materials
- (3) Renewable and Biodegradable Materials

## **Eligibility of participants**

- 1) Undergraduate or postgraduate students from AUA member universities and other universities in any field of study.
- 2) Students who have an interest in Materials Science and Engineering.

## **Lecture Format**

The Lecture Series 2024 will start from 9<sup>th</sup> January until 8<sup>th</sup> March (last for 5 weeks), with three lectures per week plus a closing session. Each lecture is conducted by a member university and will consist of the following two parts:

- 1) Part A: a 50-minute public lecture.
- 2) Part B: a 40-minute freely designed teaching session, which may include Q&A, interviews, group discussion, and any other innovative interactive teaching method.

The AUA Secretariat will record all the public lectures (Part A) and upload them to AUA's official website [www.asianuniversities.org/lectureseries/](http://www.asianuniversities.org/lectureseries/). It is hoped that the lecture series could serve as a valuable public education product contributed by AUA.

## **Schedule**

Date: 8<sup>th</sup> January to 22<sup>nd</sup> March 2024

Time: 18:00-19:30 (UTC+8)

| No. | Date             | Host University                                    |
|-----|------------------|--|
| 1   | 8 January 2024   | Welcome Day by AUA Secretariat & Universiti Malaya |
| 2   | 9 January 2024   | Universiti Malaya                                  |
| 3   | 11 January 2024  | Tsinghua University                                |
| 4   | 16 January 2024  | Universitas Indonesia                              |
| 5   | 18 January 2024  | United Arab Emirates University                    |
| 6   | 20 January 2024  | The University of Tokyo                            |
| 7   | 30 January 2024  | Peking University                                  |
| 8   | 20 February 2024 | Nazarbayev university                              |
| 9   | 22 February 2024 | King Saud University                               |
| 10  | 25 February 2024 | Indian Institute of Technology Bombay              |
| 11  | 27 February 2024 | Chulalongkorn University                           |
| 12  | 29 February 2024 | University of Colombo                              |
| 13  | 5 March 2024     | The Hong Kong University of Science and Technology |
| 14  | 7 March 2024     | Seoul National University                          |
| 15  | 8 March 2024     | National University of Singapore                   |
| 16  | 12 March 2024    | University of Yangon                               |
| 17  | 22 March 2024    | Closing session by Universiti Malaya (Host)        |

## **About Communication**

Announcements regarding the program will be posted on Microsoft Teams classroom when necessary. If there is any other important information, the AUA-UM Secretariat will email the students. It is the student's responsibility to ensure that their email account works properly to receive emails.

If students are having trouble with accessing the lecture or learning material, please contact the AUA-UM Secretariat via email at [aua.lecture@gmail.com](mailto:aua.lecture@gmail.com).

The students are encouraged to discuss with other participants on Microsoft Teams virtual classroom before, during, and after lectures.

## **Technological Requirements**

Online lectures will be conducted through Microsoft Teams. Lecture Notes and miscellaneous relevant materials will be provided via this platform as well. Therefore, students must have access to the Internet to attend and participate in lectures.

To participate in learning activities and complete assignments, students will need:

- Access to a working computer with the most current operating system and updates installed, and speakers or headphones to hear lecture presentations;
- Reliable Internet access and an email account;
- To download the Microsoft Teams app and register an account prior to 9<sup>th</sup> Jan 2024;
- Microsoft Word; and
- Reliable data storage for your work, such as a USB drive.

If students do not have Microsoft Teams downloaded, please download the app on the OFFICIAL websites (Microsoft Teams: <https://www.microsoft.com/en-my/microsoft-teams/download-app>).

## **Assignments and Evaluation**

### Essays

An important goal of the lecture series is for students to develop the capacity for independent, analytical, and interpretive thought. Each lecturer will be invited to create one essay-question. Students will choose 2 of the 15 essay-questions and develop two 1000-word essays in response to those questions. Both essays are required to be submitted to [aua.lecture@gmail.com](mailto:aua.lecture@gmail.com) due by 23:59 (UTC+8) on 15<sup>th</sup> March 2024.

All written assignments should adhere to the following style guidelines in addition the content requirement from each lecturer:

- Spacing: one and a half;
- Font: either Times New Roman or Arial in 12-point (size);
- Title of assignment centered on first page, followed by student name and university in next line;
- Documentation for all references and quotations using APA style; and
- Accurate spelling and grammar.

### Evaluation and Certificate

Upon completion of the program (final essays and an attendance of  $\geq 80\%$  of lectures), students will receive a certificate of completion. Certificates will be sent online to student's emails and the hard copies will be mailed upon requests.

A select number of lecturers from the lecture seminars will be invited to evaluate student's essays and pick the top five essays. Once chosen, the respective students will receive acknowledgements and an additional certificate of excellence during the closing session.

We look forward to your participation!