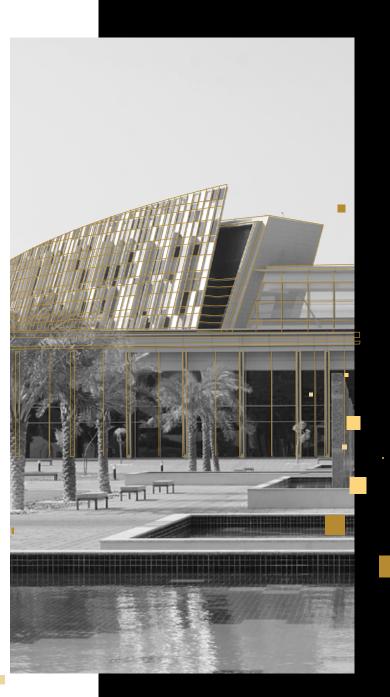


# الإمـــارات تبتكـــر UAE INNOVATES

21-27 فبرايـــــر 2 **2 0 2 1** غبرايــــــر





**UAE INNOVATES - UAEU** 



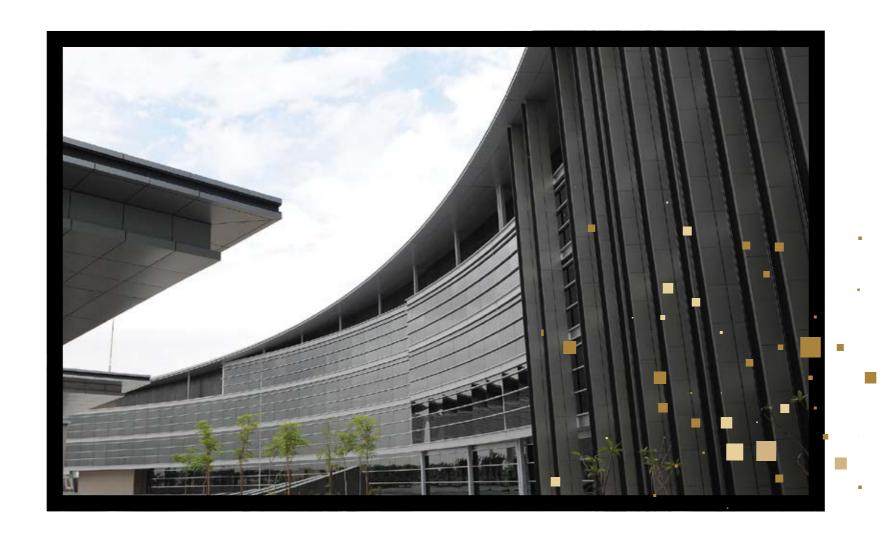












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# His Highness Sheikh Khalifa bin Zayed Al Nahyan

President of the UAE

Innovation, scientific research and a knowledge economy will create sustainable opportunity for our future generations. The new Science, Technology and Innovation Policy is a turning point in our march for development and progress.



# His Highness Sheikh Mohammed bin Rashid Al Maktoum

Vice President and Prime Minister of the UAE and Ruler of Dubai

Creativity and ideas can build countries and institutions. The future belongs to those generate ideas.



### H.E Zaki Anwar Nusseibeh

Cultural Advisor to the UAE President and Chancellor of United Arab Emirates University

The launch of the United Arab Emirates University innovation activities, in the "UAE Innovates 2021", contributes to promoting the spread of knowledge and dedicating a culture of innovation to achieve sustainable development and wellbeing. In addition, the official interest that innovation has as a permanent culture in educational institutions in the country reflects the vision of the UAE leadership for future foresight and preparing for the next fifty years.

The United Arab Emirates University - University of the Future - is keen to prepare a generation of innovators who contribute to the growth and prosperity of the human being, support the country's position in creativity and excellence, harness all capabilities and provide support to launch and implement innovative projects. Despite the exceptional circumstances the world is going through due to the Covid 19 pandemic, We at the United Arab Emirates University will launch a large package of multiple and distinct innovations for researchers, faculty members and students in the Innovation Month 2021 with diligence and adherence to the applicable preventive procedures and precautions.

We have dedicated innovative and specific events that vary through different activities, displaying innovations and developments in academic research, workshops and scientific conferences concerned with innovation and scientific excellence, stressing the university's pioneering role in creating a suitable environment for its students to reach creative projects and innovations.

I thank the organizers of the innovation events and wish you all the success



## Prof. Ghaleb Al Hadrami Al Breiki

Acting Vice Chancellor of United Arab Emirates
University

There is no doubt that the Innovation Month has become an annual hub and a major platform for launching creative ideas from scientific products and practical applications of the educational process and academic course outcomes.

We, at the United Arab Emirates University "University of the Future", the leading national educational institution, are working on translating the directions of the UAE leadership and embodying the vision of creativity and innovation in all fields, especially in educational institutions that are the main incubator for innovation, through the students and faculty members innovative scientific projects. It comes as a natural response to developing our educational outputs in general and upgrading the academic process, as well as meeting the needs of the labor market of ideas and projects that keep pace with development in order to implement development projects in all fields in light of the knowledge economy, and in preparation for the next fifty years.

Accordingly, the university has encouraged students and researchers to present their ideas and projects and make innovation a concept and a national platform and a means of sustainability for the optimal investment of the available potentials and capabilities. Especially the activities of "The UAE Innovates 2021" has distinct value this year as it is coinciding with the UAE Golden Jubilee celebrations.

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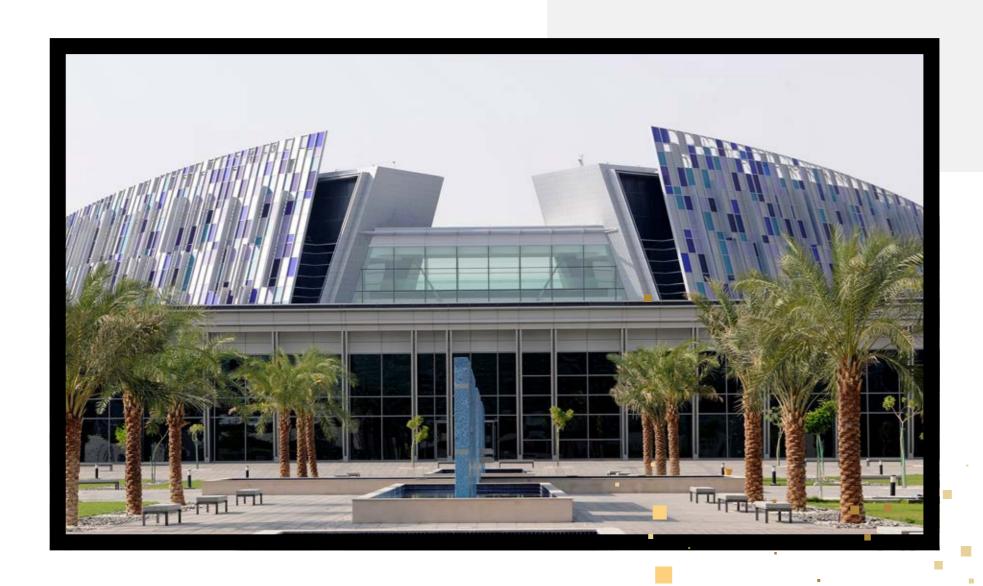
# **Opening UAE Innovates 2021**

With an ambitious vision and innovations that make the impossible possible, and dreams a reality that creates the future, and in line with the directives of the UAE government regarding the importance of innovation and building of innovation culture .

The United Arab Emirates University has created every year an atmosphere of innovation and excellence in conjunction with the UAE Innovation Month, which this year in the golden jubilee of a country that makes the impossible possible. At the beginning of February, it launches the "Hope Probe" that motivates us all to give and work in a spirit and determination to face and overcome the challenges.

Here, we celebrate innovation and innovators, so we can all participate hand in hand to cross the gateway to the future, armed with science and knowledge, and participate in the advancement and progress of the UAE.

**Innovation Support Team** 



# Vision, Mission & Goals of UAEU

#### Vision

"Leadership and innovation in higher education, research and community service at national and international levels."

#### Mission

"UAEU will continue its positive contribution to the advancement of UAE by delivering undergraduate and graduate education that meets international standards, engaging effectively with the community and the world to foster knowledge creation and dissemination, and enhancing the research capacity of the country."

#### Goals

- Prepare students to be distinguished in their areas of specialization, leaders and productive members of society.
- Develop research capacity and innovation in areas of national and global importance.
- Expand international accreditation for the university and its academic programs and promote the university's global reputation.
- Promote the University's role in the transfer of knowledge and skills to serve the society.
- Ensure high quality, efficient and transparent administrative services.
- Entrench a culture of innovation in institutional work environment.

# List of Participants

at UAE Innovates Program

#### **College of Humanities & Social Sciences**

- Survey Research Basics with Qualtrics
- The Geography of Innovation Book Review Workshop
- Assessment of Human Interaction and Spending Behavior Amidst Corona Virus in the United Arab Emirates
- Still-Life Drawing
- Innovation and Translation in the Digital Age
- Bio-Agricultural Geographies: Developmental Perspectives on the Adoption of Genetically Modified Crops
- Digital Image processing
- Artconnects
- Scientific Research Skills

- Multilingual World Cinema
- Innovation Cartography
- The theory of "Consonants and Vowels" in Arabic Language: a vision in the Articulation Disorders
- Artificial Intelligence in Journalism
- How Will Artificial Intelligence Affect the Field of Translation?
- Land subsidence phenomena in the Remah region, UAE, verified Persistent Scatterer Interferometry Techniques and Ground Truth Data
- 6th Joint UAE Symposium on Social Robotics JSSR2021 ■

#### **College of Information Technology**

- How to Design Massive Multiplayer Online Games (Roblox, GoBattle.io case)
- Machine Learning and Tensorflow Tutorial
- 6th Joint UAE Symposium on Social Robotics - JSSR2021
- Artificial Intelligence-Blockchain and Cloud Computing for Smart Cities

#### **College of Science**

- Earth Observation Satellites (EOS) for the Estimation of Carbon Sequestered in Date Palms (ton/ha)
- Development of a new resistivitymeter prototype (data acquisition to data modelling)
- Adventures in Self-assembly: From Molecules to Materials - Prof.
  Jonathan Sesslar
- Plenty of Room at the Top Prof. Stefan
   Wuttke
- Simulated Chemistry Experiments
- Monitoring Biosphere with Remote Sensing
- Emirates Mars Mission Dr. Roland Young
- PhD. & Master Students Presentations
- A cloud collision that produce highmass stars in a nearby galaxy
- Key Elements of Space Exploration
- Mathematical Innovation

**College of Medicine & Health Sciences** 

Rare Disease Day Virtual Showcase

#### **College of Engineering**

- 6th International Conference on Renewable Energy Generation and Applications
- Innovation and Innovative Ideas
- Involving Emirati Women in the Pre-Occupancy Evaluation of 'Modern' Social Housing Designs: Simple Vs Advanced Participatory Tools
- Innovative Industrial Quality Control
   System for Advanced Technology
- Coral reef can protect waterfront from marine floods: Sustainable defense for LIAF
- Innovative Industrial Quality Control System for Advanced Technology
- Modeling in RHINO Workshop
- Vertical Farming in Citizens Residential Blocks: An Innovative Sustainable Housing Approach in UAE
- Sketching in Architecture Workshop

#### College of Education

- Innovation in Education in preparation for the fifty years
- Crises and the energy of creativity and innovation

Innovative Student Award

#### College of Law

- The role of intellectual property law in resolving disputes
- UAE Regulations Lab
- Fun Learning: the road to excellence
- Projects and Initiatives Card
- Creativity in legal research

- Panel Discussion on Robot Lawyers
- Student Innovations Exhibition
- Remote litigation
- Innovation in teaching and assessment of law courses

# Industry: Their Antecedents and Consequences. Can home garden be a safe haven in

Sustainable Innovations in UAE Food

- times of crisis!?

   Future prospects in livestock farming
- Opportunities for Women in Agriculture in United Arab Emirates
- Innovation in Agriculture (open labs)
- The Place of High-Tech Food production system in the Future of UAE Food Security
- Is animal welfare at the cost of human welfare?

College of Food & Agriculture

- LEA2 proteins from date palm and stress tolerance: versatile proteins for complex mechanisms
  - A garden model in every neighborhood
    Chilean native food plants as a source
  - of health-promoting compounds

    Innovative concepts for integrated
  - Innovative concepts for integrated water and nutrient management in plant production systems of Abu Dhabi'
  - Innovation and Technology Applications for Food and Agriculture
  - Geographic Information System and Remote Sensing Applications in Agriculture

#### **College of Business & Economics**

- IDEA SOURCING
- SOFT SKILLS AND CREATIVE PROBLEM SOLVING
- SHE MEANS BUSINESS EPISODE 1
- SHE MEANS BUSINESS EPISODE 2
- UAEU YOUTH CIRCLE 1
- KEYS TO SELF CONTROL IN INNOVATION MANAGEMENT
- Sources of Innovation
- Transforming UAE into a Global Logistics Hub-I
- Transforming UAE into a Global Logistics Hub-II
- UAEU YOUTH CIRCLE 2
- LEADERSHIP PRACTICES IN INNOVATION
- Business Intelligence
- Database and Information
   Management

- INNOVATION IN STRATEGIC
- MANAGEMENT EPISODE 1
- INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 2
- UAEU YOUTH CIRCLE 3
- INNOVATION POST COVID-19 -EPISODE 1
- INNOVATION THROUGH MARKETING ANALYTICS
- Ideation in Marketing I
- Ideation in Marketing II
- INNOVATION POST COVID-19 -EPISODE 2
- Idea Generation
- INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 3
- INNOVATION IN STRATEGIC
   MANAGEMENT EPISODE 4
- UAEU YOUTH CIRCLE 4

#### **Innovation Support Team**

- Opening UAE Innovates 2021
- Chancellor's Innovation Award Cycle 6 2020/2021

#### **UAEU Science & Innovation Park**

- 3D Printing I
- 3D Printing II
- Face Shields Production Cycle
- Laser Cutting I Laser Cutting II
- Signing Ceremony and Onboarding Session of the SIP Tenancy Support
- Gadget Factory -I
- Gadget Factory -II App Development
- App Development
- TouchLess Elevators Technology
- Hospitality Virtual Training by Typsy 6th Joint UAE Symposium on Social Robotics JSSR2021

#### **National Water & Energy Center**

Renewable Energy and Water Sustainability

#### **Continuing Education Center**

- Entrepreneurial Finance
- Navigating Market Opportunities
- Social Entrepreneurship Creativity and Innovation

#### **UAEU Libraries**

• Hackathon Digital Library

#### **Associate Provost for Research**

A Ceremony to Recognize Inventors having Granted Patents in 2020

#### 6<sup>th</sup> International Conference on Renewable Energy Generation and Applications

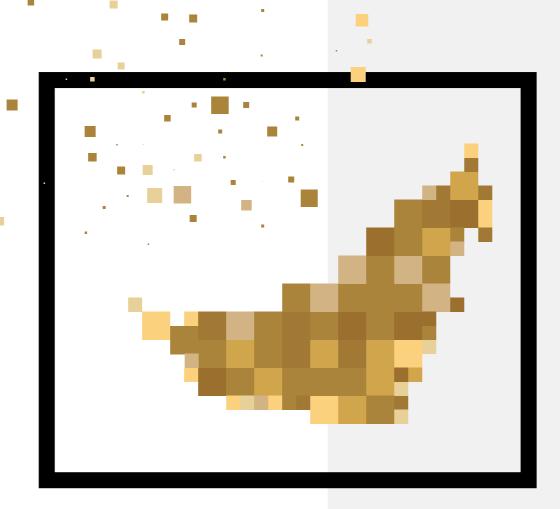
4-2 February 2021

# **Main Events**



The UAE Innovates program will include many innovative activities. It includes lectures, workshops, innovation presentations, awards, developments in academic research and scientific discussions Seminars, brainstorming sessions and scientific conferences concerned with innovation and scientific excellence, stressing the role of the university in creating the appropriate environment for its students, researchers, and employees to transfer knowledge and develop creative projects and innovations. The main events will include:

- 6<sup>th</sup> International Conference on Renewable Energy Generation and Applications
- Innovation and Technology Applications for Food and Agriculture
- 6th Joint UAE Symposium on Social Robotics - JSSR2021







Opening UAE Innovates 2021

21 February 2021

Chancellor's Innovation Award - Cycle 6 2020/2021

21 February 2021



6<sup>th</sup> Joint UAE Symposium on Social Robotics - JSSR2021

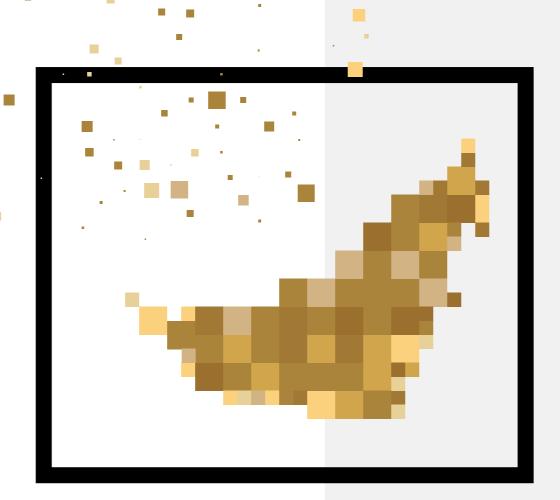
23 February 2021

# Cont. **Main Events**

## **United Arab Emirates University**

Also, the main events will include:

- Opening UAE Innovates 2021 Chancellor's Innovation Award Cycle 6 2020/2021
  • Rare Disease Day Virtual Showcase





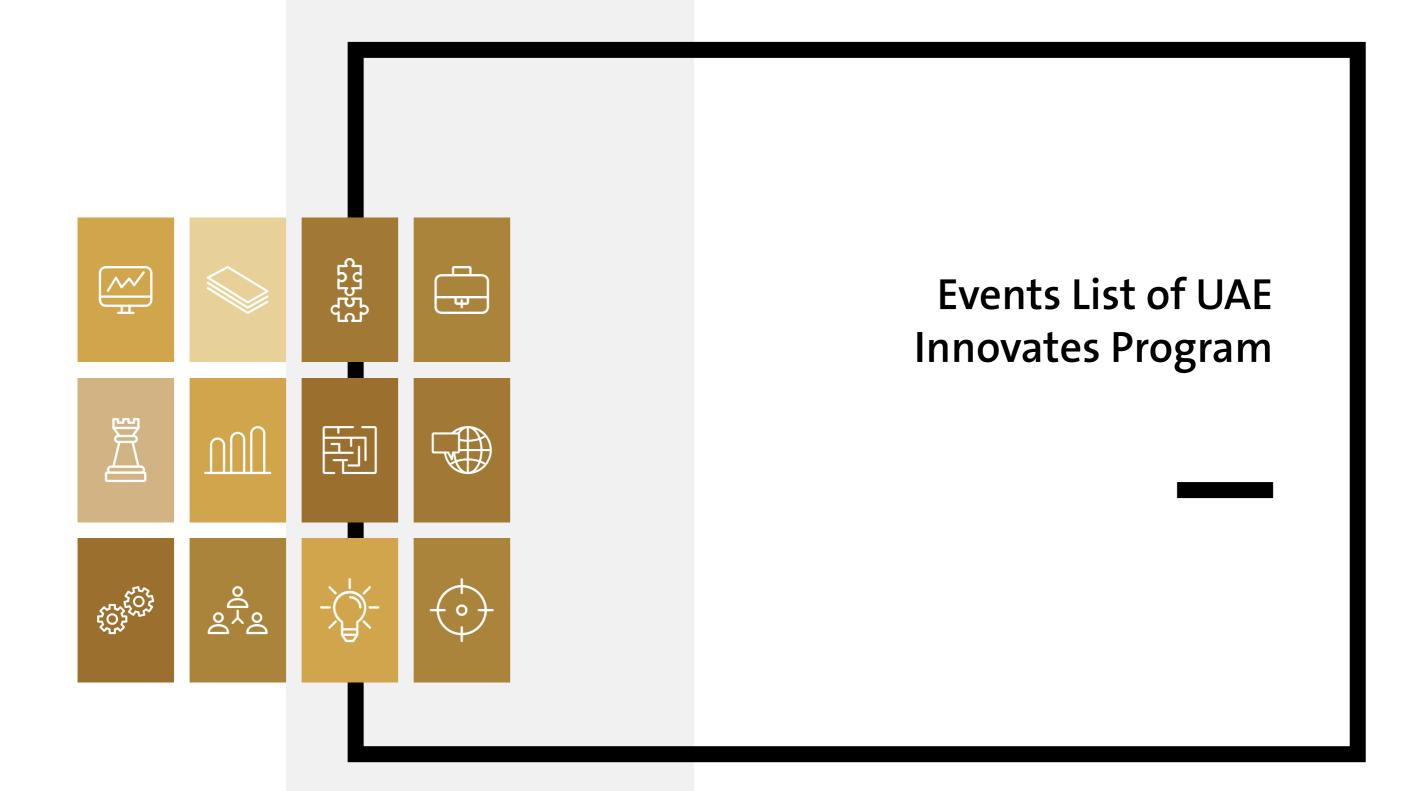


**Innovation and Technology** Applications for Food and Agriculture

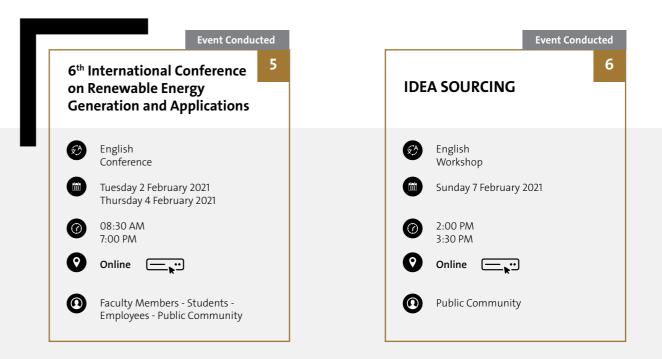
24 February 2021

Rare Disease Day Virtual Showcase

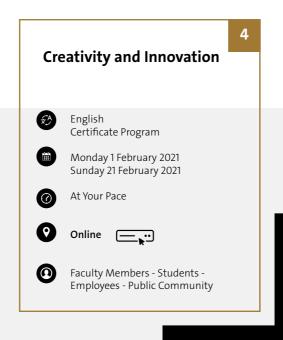
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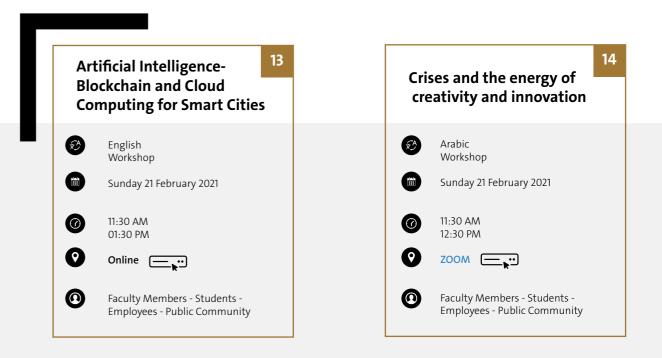




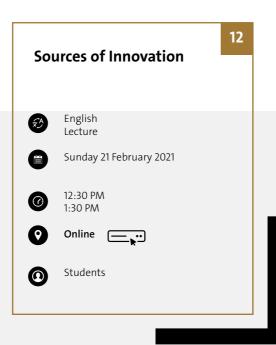




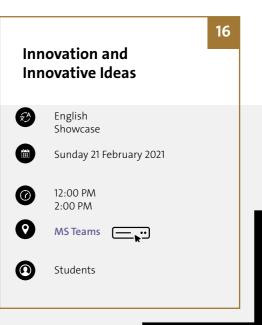


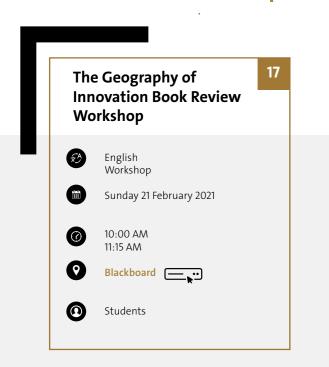


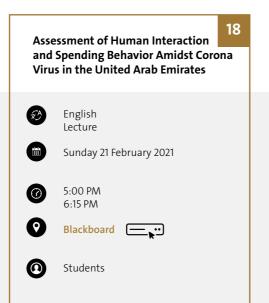






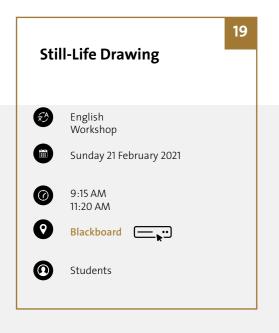


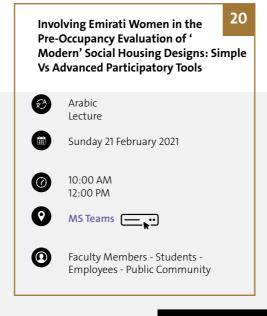


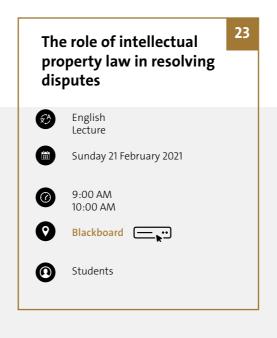




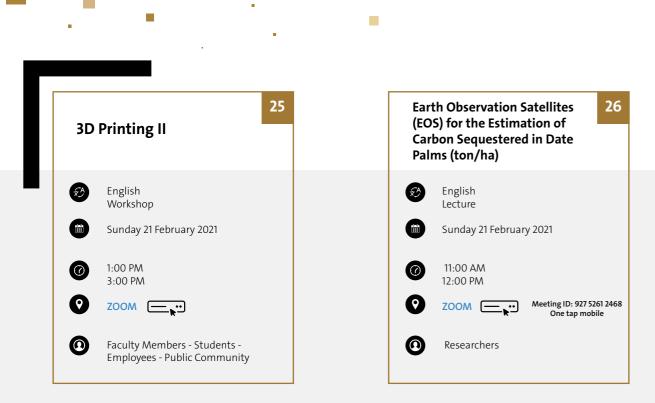


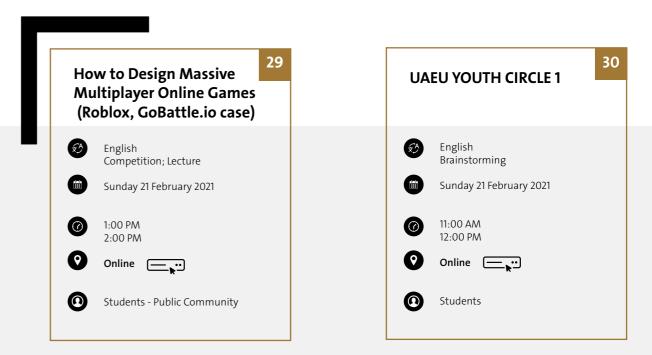


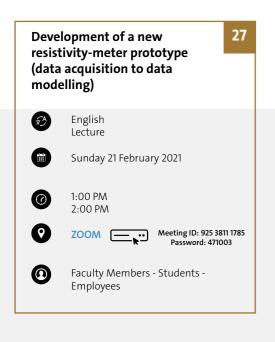


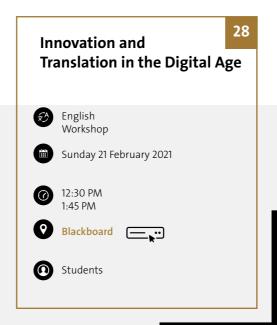










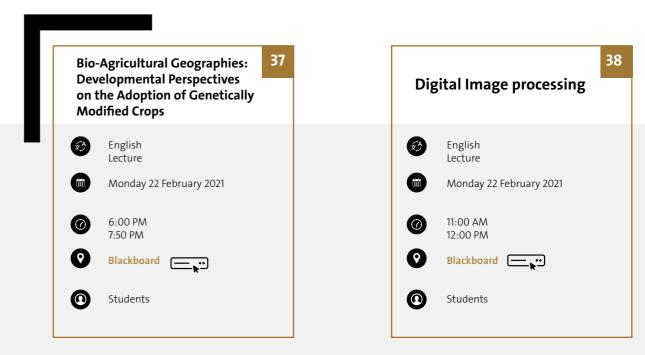




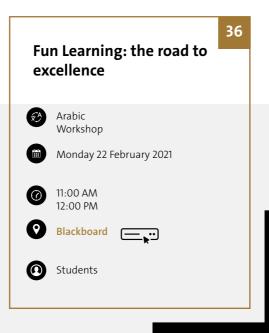


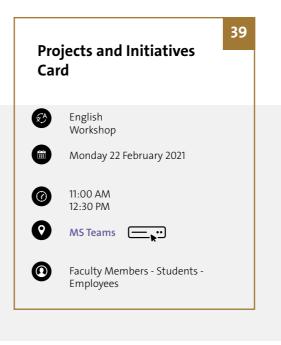








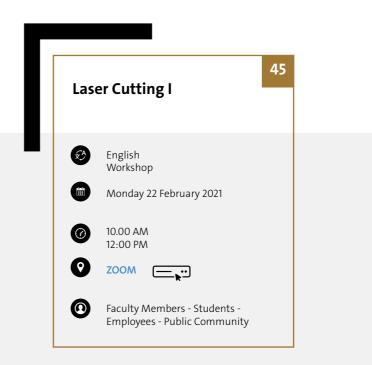


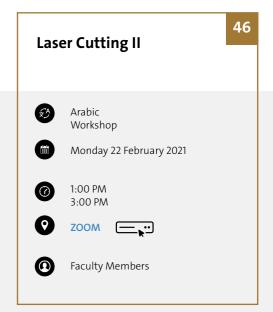


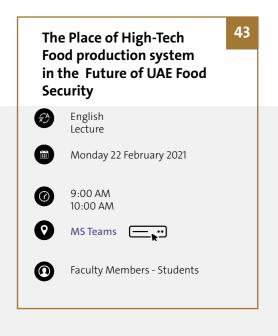


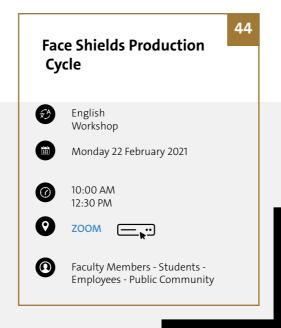


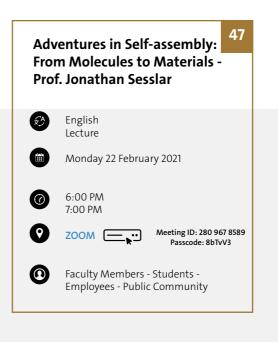


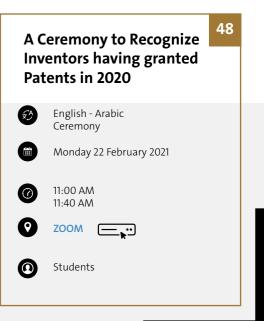






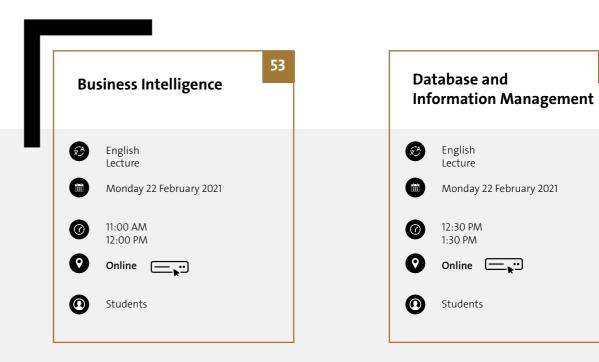


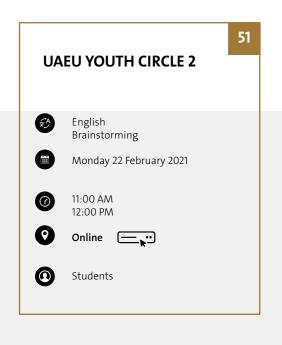


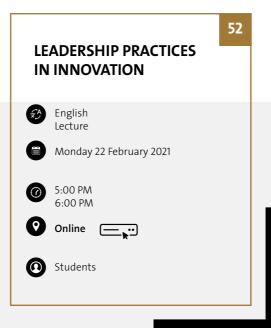




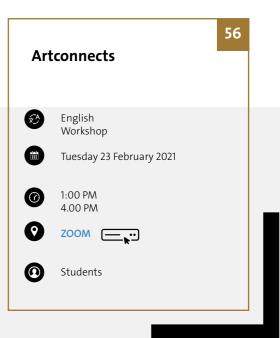


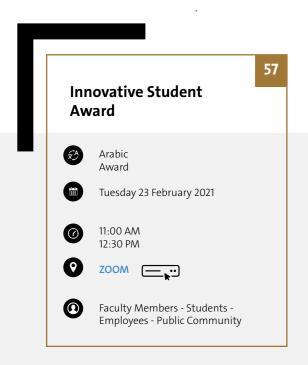




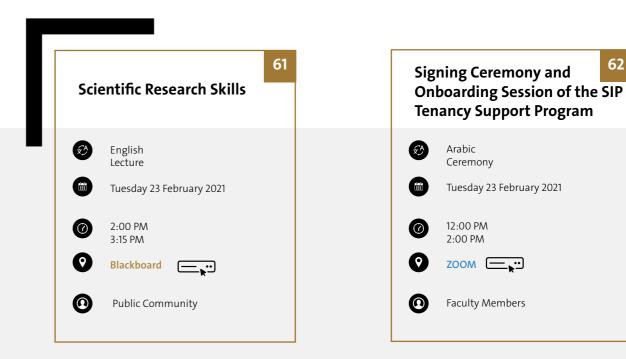


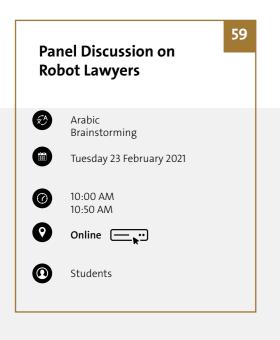


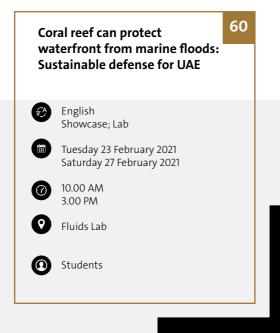


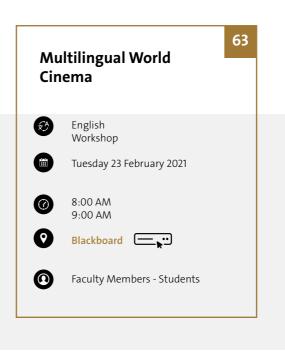


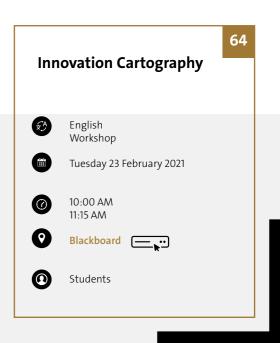


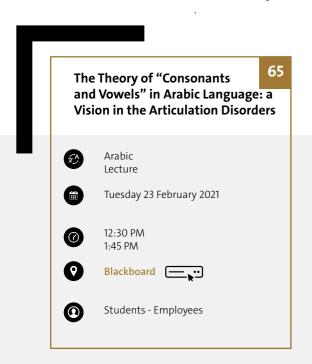




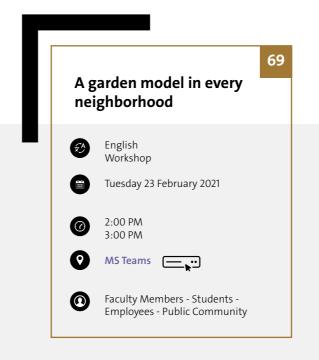


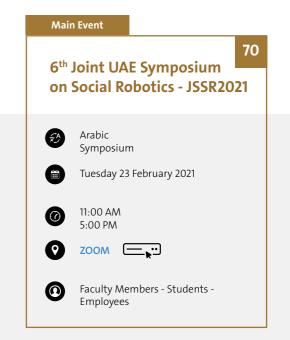




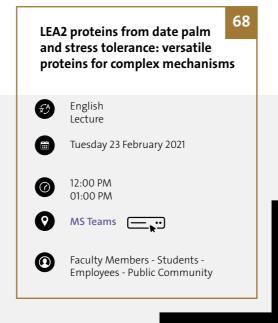






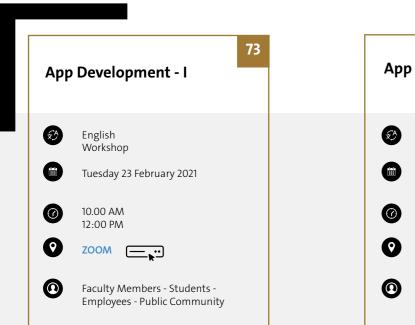




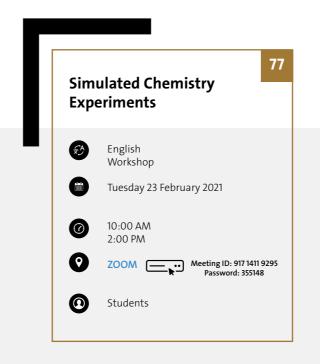






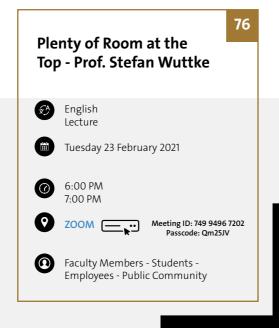




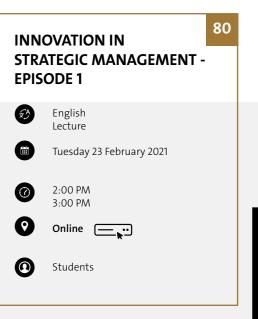




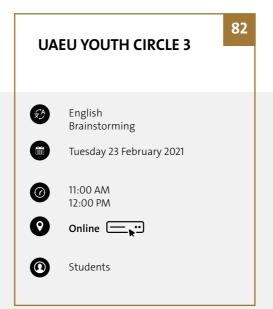


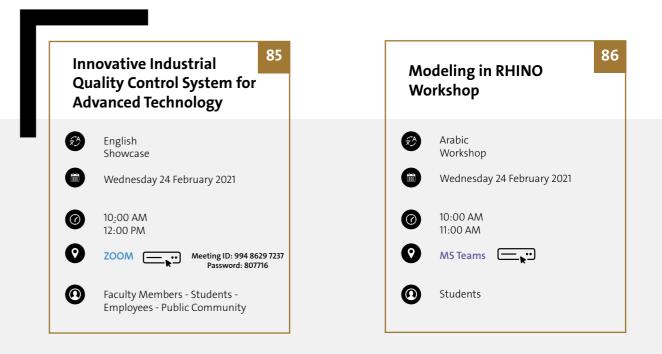








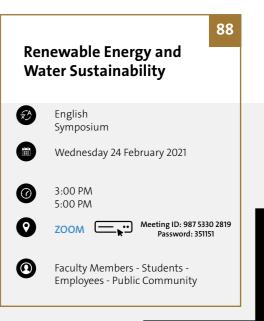


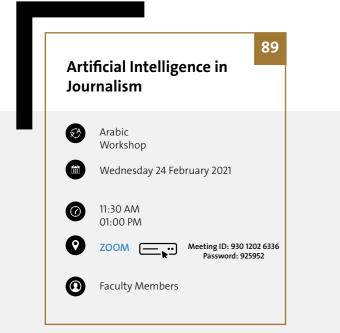


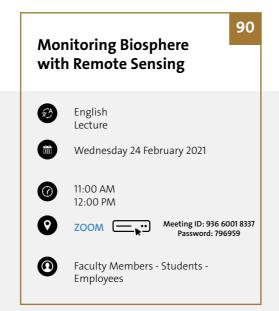


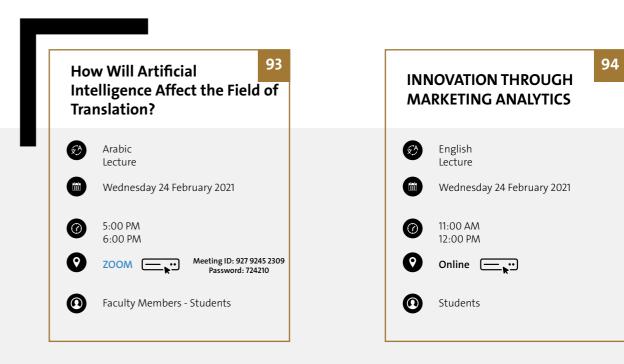


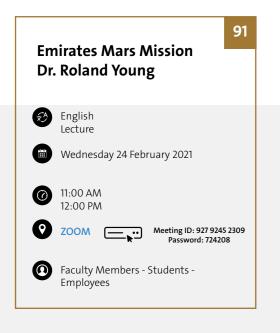


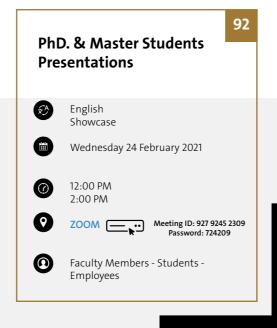


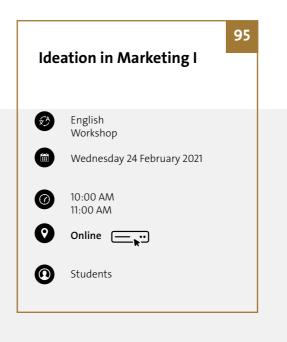


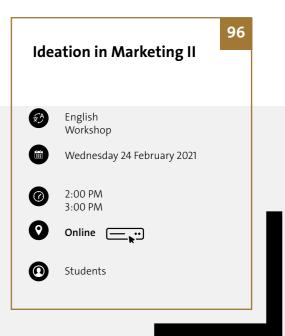


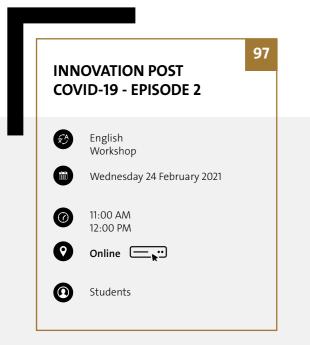






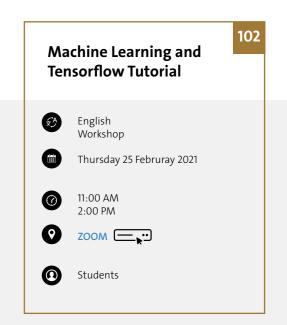


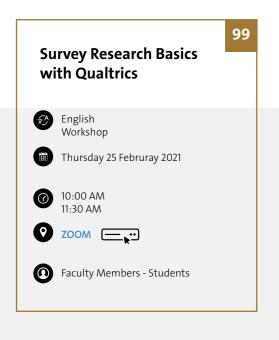


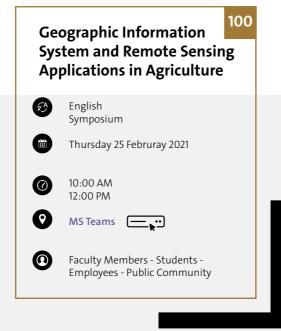




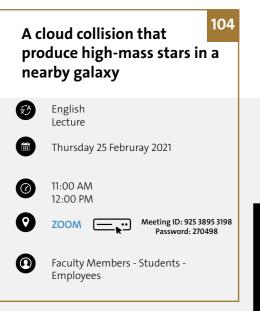


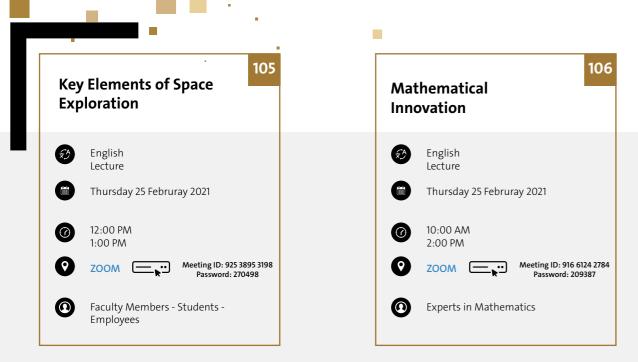


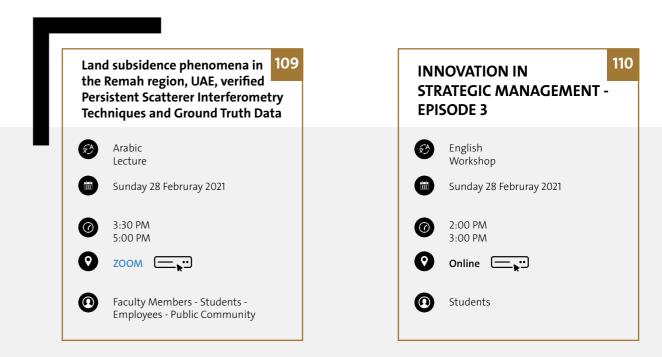


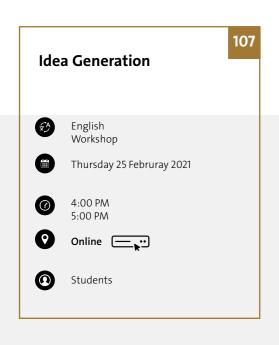


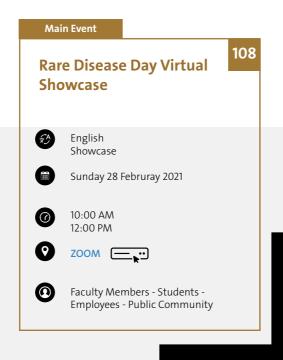




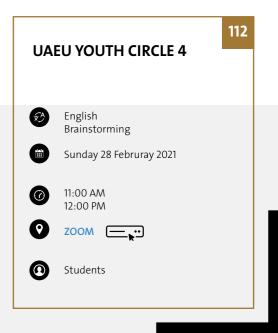














When innovation becomes the hope for a better tomorrow











