

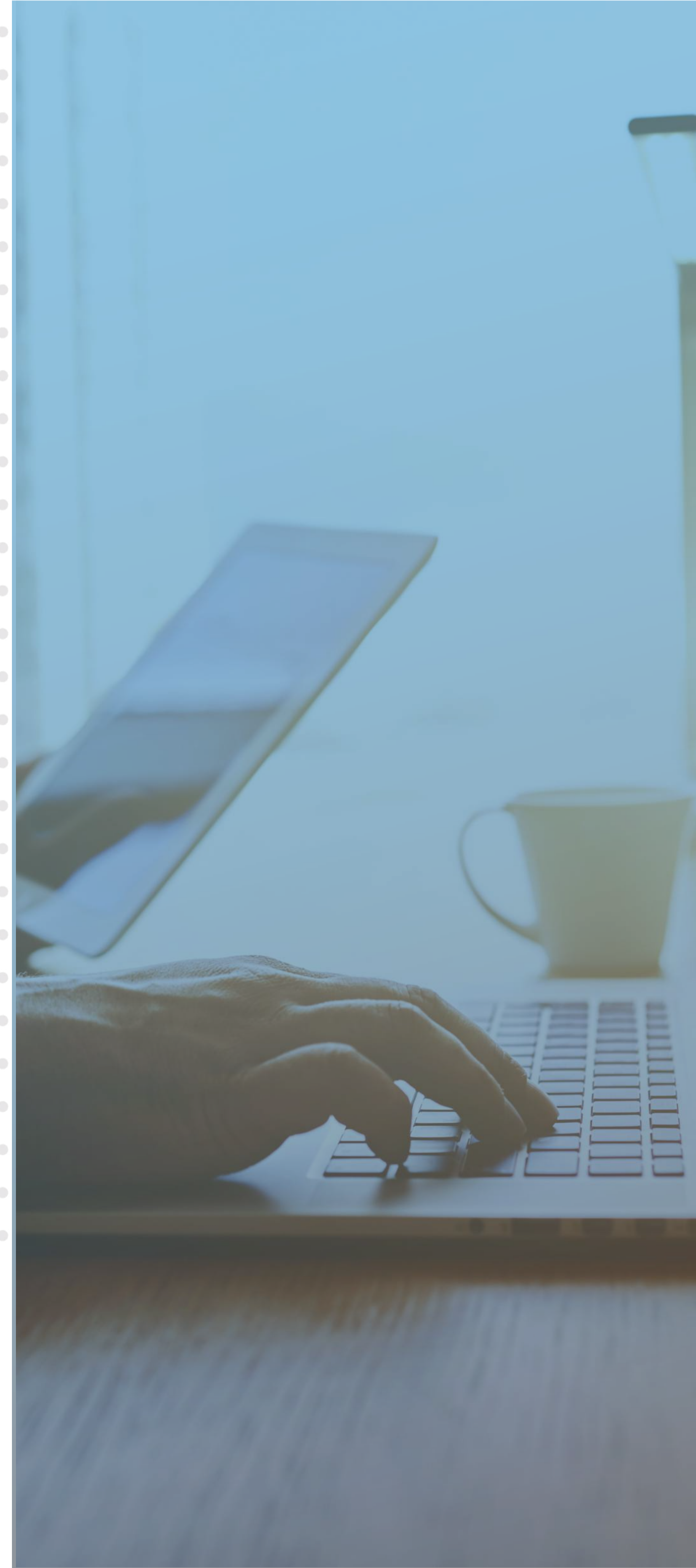


EMIRATES SCIENTISTS COUNCIL GUIDE



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COUNCIL OVERVIEW

The Emirates Scientists Council aims to create an environment conducive to innovation and scientific research in the country and raise the impact of scientific research by representing the scientific community nationally and internationally, attracting and building a generation of scientists in various scientific fields, and stimulating cooperation among research institutions in all sectors (government, private and higher education).

The Council was established in 2016 with an aim to transform the UAE from a knowledge consumer to a knowledge producer. It came at an important stage of the UAE's development process, shifting the focus to the development of a knowledge-based economy, and the enablement of a post-oil economy. The focus reflects the vision of the UAE's leadership in building a better tomorrow for all the people in the UAE.

TO fulfil its mandate, the Council provides scientific to the government and proposes policies and strategies in various scientific fields. The Council meets at least four times annually, and the Department of Science and Technology Policies and Programs at the Ministry of Industry and Advanced Technology performs its general secretariat duties.

COUNCIL OBJECTIVES



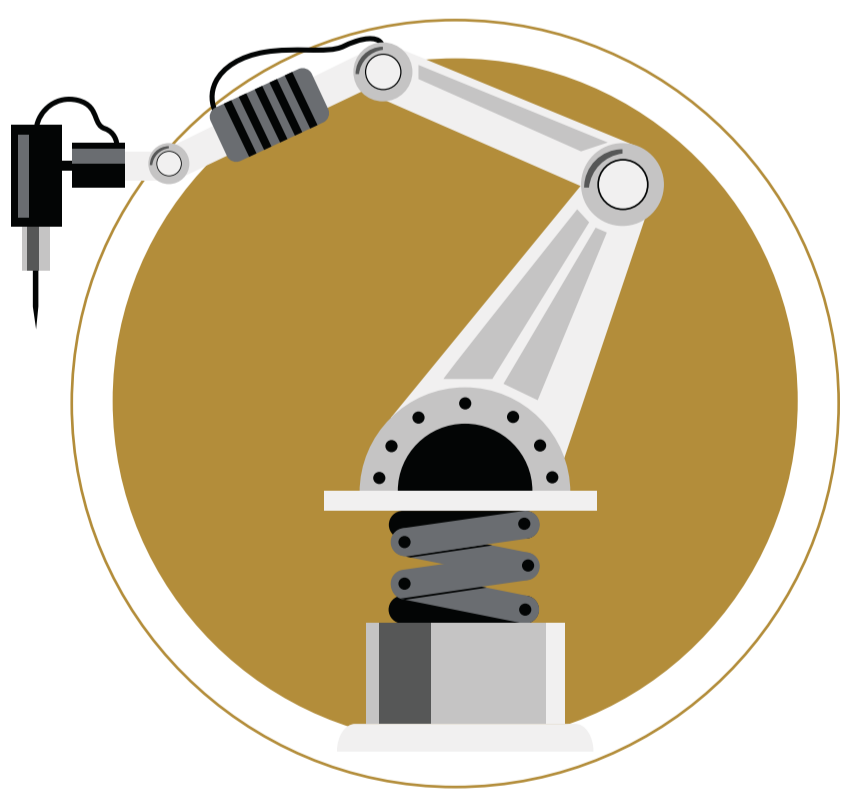
The Spirit of Exploration

- Create a stimulating environment for scientific research for the sustainable development of the science & technology, ecosystem and the research & development sector in the country
- Promote the culture of science and R&D, and inspire the next generation of scientists in the UAE



Scientists for the Future of UAE

- Foster the generation of Emirati scientists, researchers, scholars and specialized experts through knowledge transfer programs
- Strengthen relations and create new channels of cooperation with international scientific, technical and research institutions



Knowledge-intensive Industries

- Bridging the efforts in the fields of science and technology towards unlocking the knowledge-based economy by empowering industries.
- Create a harmonious and supportive environment that enables knowledge transfer and knowledge intensive production through robust channels between government, private sector and academia

COUNCIL MEMBERS



Her Excellency Sarah Bint Yousef Al Amiri Minister of State for Advanced Technology

Council Chairwoman

Her Excellency Sarah bint Yousef Al Amiri is the UAE Minister of State for Advanced Technology and Chairwoman of the UAE Space Agency.

In her role as Minister of State for Advanced Technology, her Excellency spearheads the UAE Ministry of Industry and Advanced Technology's efforts to empower the adoption of Fourth Industrial Revolution technologies and promote research and development in the advanced science and technology sector, in order to create new industries that drive the shift towards a knowledge economy. This, in turn, contributes to the overall mandate of the Ministry to strengthen the UAE's industrial base, ensure in-country value, and raise the competitiveness of local industries.

As Chairwoman of the Space Agency, Her Excellency is responsible to oversee the Agency's mandate of guiding the space sector, ensuring its contribution to the national economy and to the UAE's sustainable development. Her Excellency is also the Chairwoman of the Emirates Scientists Council, Chairwoman of the Fourth Industrial Revolution Council, Chairwoman of the Dubai Future Academy Board of Trustees, and Deputy Project Manager and Science Lead of the Emirates Mars Mission (Hope) at the Mohammed bin Rashid Space Centre (MBRSC).

Previously, Her Excellency was the Head of R&D at MBRSC, where she established the Centre's knowledge management, strategic research and product assurance functionalities. She was also involved in DubaiSat-1 and DubaiSat-2, and in the establishment of the KhalifaSat program.

In 2014, Her Excellency was tasked with and led the establishment of the Advanced Aerial Systems Program, where she championed development efforts on a prototype High Altitude Pseudo-Satellite. The project resulted in a successful 24-hour flight of the unmanned vehicle, which recorded the highest altitude of any aircraft over UAE airspace.

In 2015, the World Economic Forum honoured Her Excellency as one of its 50 Young Scientists for her contributions to science, technology and engineering. H.E. Sarah Al Amiri holds a Bachelor's and a Master's degree in Computer Engineering from the American University of Sharjah.

COUNCIL MEMBERS



Dr. Arif Sultan Al Hammadi

Dr. Arif Sultan Al Hammadi is currently serving in Khalifa University of Science Technology as the Executive Vice President and Chairman of the Khalifa Innovation Center (KIC).

Dr. Al Hammadi have served in a number of positions in the past such as the Director of Etisalat University College and the Executive Director of Higher Education at the Abu Dhabi Education Council and the Chairman of Emirates College of Advanced Education and the UAE Chair of the IEEE computer society chapter.

Dr. Arif is a holder of a PhD Degree in Telecommunications which he obtained from the Queen Mary, University of London (2000 and a holder of a Bachelor Degree in Telecommunications Engineering with Honors from Khalifa University (Etisalat College of Engineering) - UAE (1994).



Professor Ghaleb Alhadrami Al Breiki

Professor Ghaleb Alhadrami Albreiki has resumed the role of the Vice Chancellor of the United Arab Emirates University (UAEU) by the end of 2019. In addition, he has been appointed as the Deputy Vice Chancellor for Academic Affairs (Provost) from August 2016 to Jan 2021.

Prof. Ghaleb held the position of Deputy Vice Chancellor for Research and Graduate Studies and Deputy Vice Chancellor for Student Affairs and Registration from 2014 to 2016.

He served as the Dean of the College of Food and Agriculture, UAEU from 2007 till 2014. Besides, he held the post of the Vice Dean for 3 years, the Assistant Dean for Research for 6 years, and Chair of the Animal Production Department from 1994 to 1998.

Prof. Ghaleb joined the Executive Committee for Education and Human Resources Council since February 2020. He is also a member of the Board of Trustees of the National Space Science and Technology Center since 2020.

He has been the Secretary General of the Date Palm Friends Society since 2019, a member of the UAEU Expo 2020 Dubai Advisory Board Council since 2016, and a member of the Emirates Scientists Council since 2016.



Professor Alawi Al Sheikh Ali

Alawi Alsheikh-Ali is an Emirati physician-scientist and currently serves as the Deputy Director General of the Dubai Health Authority. He is a Professor of Cardiovascular Medicine and member of the Board of Trustees at the Mohammed Bin Rashid University of Medicine and Health Sciences where he was previously the Founding Dean of the College of Medicine and University Provost. A consultant cardiac electrophysiologist, he was part of the team that established the first comprehensive cardiac arrhythmia service in the UAE at Sheikh Khalifa Medical City where he served as Section Head of Electrophysiology and Chair of the Cardiac Sciences Institute.

Professor Alsheikh-Ali holds a master of science in applied physiology from Boston University, and a master of science in clinical research and a Doctor of Medicine from Tufts University. He completed his clinical residency and fellowships in internal medicine, cardiovascular disease and clinical cardiac electrophysiology at Tufts Medical Center in Boston leading to triple certification from the American Board of Medical Specialties.

COUNCIL MEMBERS



Professor Sehamuddin Galadari

Prof. Sehamuddin Galadari is currently the Senior Vice Provost of Research, Managing Director of the Research Institute, and Professor of Biology at New York University Abu Dhabi (NYUAD). Prior to joining NYUAD, during a career spanning more than 27 years, Prof. Sehamuddin was the Vice Provost for Research and Graduate Studies at UAE University, and before that Associate Dean for Research and Graduate Studies at the College of Medicine and Health Sciences (CMHS), UAE University.

Prof. Sehamuddin obtained his PhD in Biochemistry in 1991 from Imperial College London, UK. He is a Fellow of the Royal Society of Biology (FRSB) and the Royal Society of Public Health (FRSPH) UK, and was elected as a Fellow of the Islamic World Academy of Sciences (FIAS) in 2016.

His research interest revolves around apoptosis, autophagy, programmed cell death and cancer biology, and he has published over 70 manuscripts in international peer reviewed journals, and has supervised a number of PhD students and post-doctoral fellows. He has contributed significantly to biomedical research in the UAE.



Professor Lourdes Vega

Prof. Lourdes F. Vega is a Full Professor in Chemical Engineering and Director of the Research and Innovation Center on CO₂ and hydrogen (RICH Center) at Khalifa University in Abu Dhabi, United Arab Emirates (UAE). She has developed her career between academia and industry, with academic positions in the USA, Spain and the UAE. On the industrial side, she was the General Director of MATGAS, R&D Director of Carbueros Metálicos, Technology Director of Air Products and Chemicals and Founder and CEO of Alya Technology & Innovation (Alyatech).

In addition to her role at Khalifa University, she is an Independent Member of the Board of Directors of the companies ERCROS, SA, and Canal de Isabel II, SA, in Spain. She also serves as the Coordinator of the Scientific Committee designing the strategic plan for the newly created National Center for Research in Energy Storage, (Cáceres, Spain), as well as a Member of the Scientific Board of the EPSRC "Frontier Engineering" Centre for Nature Inspired Engineering (CNIE), in London, UK and of the Catalan Institute for Energy Research (IREC), in Barcelona, Spain. She is the Editor in Chief of the Journal of Molecular Liquids. Prof. Vega is also the President of the Association of the Spanish Scientists and Researchers in the UAE (ACIEAU).

Prof. Vega obtained her Ph.D. in Physics from the University of Seville, Spain (1992), in collaboration with the Chemical Engineering Department, University of Southern California, USA



Dr. Ahmed Al Mheiri

Dr. Ahmed Al Mheiri is a researcher in theoretical physics and a specialist in the field of black holes. He pursued his postdoctoral studies at Stanford University until 2017 and is now completing his postdoctoral studies as a member of the Institute for Advanced Study in Princeton, NJ.

He received his bachelor's degree in physical engineering from the University of Toronto in Canada in 2008 and his master's and doctorate degrees from the University of California, Santa Barbara in the United States of America in 2014.



COUNCIL MANDATE



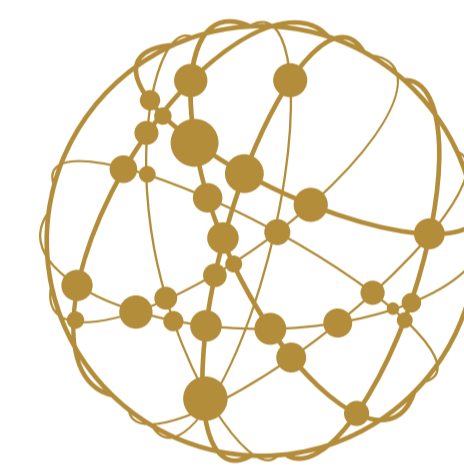
Propose policies aiming to create an environment conducive to innovation and scientific research.



Provide scientific advisory to the UAE Cabinet



Promote and encourage scientific research in various scientific fields.



Build strategic partnerships with local and global entities to activate their contribution in the fields of scientific research.



Support developing and attracting a generation of scientists in various scientific fields.

Advisory Boards

In its third cycle, the organizational structure of the council consists of its members headed by Her Excellency Sarah bint Yousef Al Amiri, Minister of State for Advanced Technology, and three advisory boards to support and advise the council members in the fields of health and medical sciences, natural sciences and engineering and technology.

Health and Medical Sciences



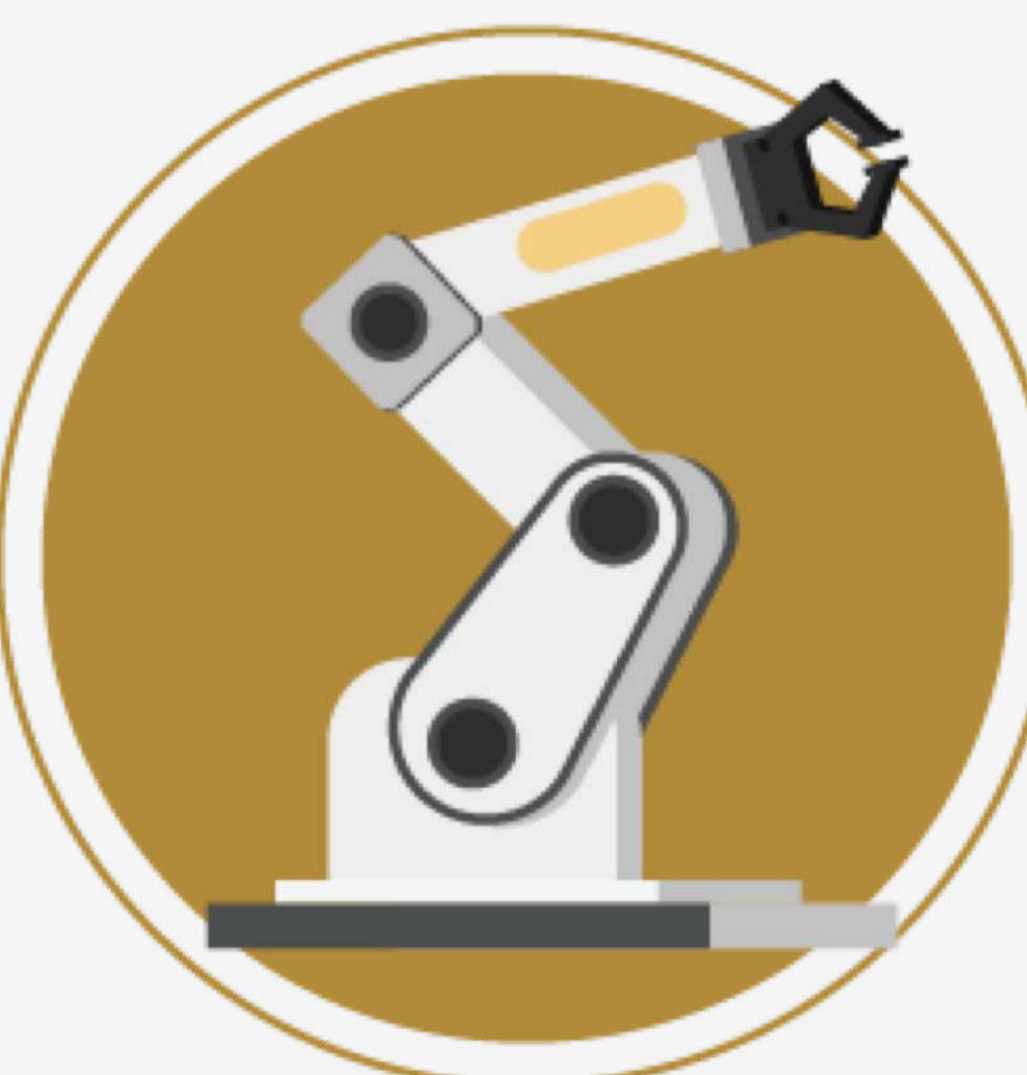
- Dr. Alawi Al Sheikh Ali / Head of Committee
- Dr. Ahmad Abou Tayoun
- Dr. Habiba Al Safar
- Dr. Qutayba Al Heialy
- Dr. Tom Loney
- Dr. Stefan Duplessis
- Dr. Murat Tuzcu
- Dr. Mohammed Al Marri
- Dr. Ahmed Al Marzouqi

Natural Sciences



- Dr. Sehamuddin Galadari/ Head of Committee
- Dr. Ahmed Al Mheiri
- Dr. Afaf Kamal El-Din
- Dr. John Burt
- Dr. Piergiorgio Percipalle
- Dr. Nader Masmoudi
- Dr. Panche Naumov
- Dr. Sajid Maqsood

Engineering and Technology



- Dr. Lourdes Vega/ Head of Committee
- Dr. Linda Zou
- Dr. Ehab El-Saadani
- Dr. Mohammed Al Marzouqi
- Dr. Sulaiman Al Zuhair
- Dr. Rashid Abu Al-Rub
- Dr. Aaasha Al Nuaimi
- Dr. Jamal Abdullah