PROGRAM OBJECTIVES

- Serve the life-long learning needs of the UAE's space science sector and develop students' attitude to acquire further learning experiences in this area.
- Provide efficient and productive educational environment to carry out fundamental and applied research to deal with national and international space science challenges.
- Strengthen the collaboration between UAE University and the national, regional and international stakeholders in the space sector.
- Enrich the community and industry with quality technical assistance and highly qualified national manpower to lead the national space development plans.

PROGRAM DESCRIPTION

A fully accredited multidisciplinary MSc Space Science Program is being offered by the College of Science (COS) in collaboration with College of Engineering (COE), College of Humanities & Social Science (CHSS) and College of IT (CIT) at UAEU, and with the support of National Space Science and Technology Center (NSSTC). The primary objective of this program is to serve as a thorough and effective academic exposure of Space Sciences and Technology for the students.

UAEU كلية العلوم College of Science | جامعة الإمارات العربية المتحدة United Arab Emirates University

UAEU المركز الوطني لعلوم وتكنولوجيا الفضاء The National Space Scince and Technology Center | جامعة الإمارات العربية المتحدة United Arab Emirates University

MSc IN SPACE SCIENCE

AT UAE UNIVERSITY

GET READY FOR SPACE.....

MORE INFORMATION

MSCSPACESCIENCE@UAEU.AC.AE

HTTP://WWW.UAEU.AC.AE

+971 3 713 6336 (DEPARTMENT OF PHYSICS)

+971 3 713 4049 (NSSTC)

Supported by

وكالة الإمارات للفضاء UAE SPACE AGENCY

هيئة تنظيم الاتصالات TRA TELECOMMUNICATIONS REGULATORY AUTHORITY

ictfund

نوابغ الفضاء العرب

PROGRAM RATIONALE

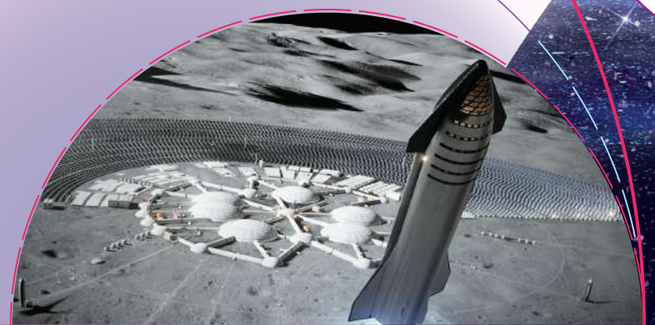
The UAE University has designed and developed this first-of-a-kind program in alignment with UAE's national vision for space exploration with an aim to produce graduates academically trained in specialized space-related areas and well-prepared to play key roles in UAE's emerging space sector, the development of which, is a high priority for UAE's future.

PROGRAM DETAILS

- Compulsory courses: 18 Credit Hours
- Elective courses: 6 Credit Hours
- MSc thesis: 6 Credit Hours
- Total: 30 Credit Hours
- Fees: AED 2000 per credit hour
- Admission criteria:
    - BSc in a Physical Science/Technology discipline
    - General Physics I, General Physics II, Calculus I, Calculus II (or equivalent)
    - 3.0 GPA (overall)
    - 3.0 GPA (science & technology courses)
    - IELTS: 6.0

SALIENT FEATURES

- Contemporary and multidisciplinary curriculum.
- Highly-qualified and seasoned faculty.
- State-of-the-art facilities at NSSTC: Satellite AIT, In-Situ Resource Utilization (ISRU) lab, GNSS lab, Space Electronics lab, Radio Observatory & Ground Station.
- Practical training & Hands-on experience with high-profile NSSTC projects: The 813 satellite, GNSSaS, ISRU project, Radio Astronomy & Space Science, Space Situational Awareness project and many more.
- Scholarship opportunities.



PROGRAM CURRICULUM

CORE COURSES

- Spacecraft Systems
- Spacecraft Dynamics & Control
- Remote Sensing for Terrestrial & Planetary Surfaces
- Digital Image Processing for Remote Sensing
- Space Physics
- Astronomy & Astrophysics

ELECTIVE COURSES

- GIS for Planetary surfaces
- Planetary Sciences
- Planetary Atmospheres
- Space Science Instrumentation
- Selected Topics In Space Science
- Computation & Data Science

OTHER COMPONENTS

- MSc Research Thesis
- Summer Internship
- Group Projects
- Research & Development Experience

LEARNING OUTCOMES

- Develop thorough understanding and professional skills by making use of appropriate literature and research resources.
- Evaluate complex inter-disciplinary challenges to be resolved through space science and technology.
- Formulate and carry forward space science research and development by applying scientific principles in Space Sciences.
- Create innovative Space Systems solutions through mission-specific projects.
- Compose scientific results in the form of research publications, presentations, thesis and reports.
- Design solutions to multi-faceted space science problems both systematically and analytically as part of a diverse team.

CAREER PROSPECTS

- UAE Space Agency - UAE
- Muhammad Bin Rashid Space Centre - UAE
- National Space Science & Technology Centre - UAE
- Space Research Centres at UAE-based Universities
- International Space Research Centres & Institutes