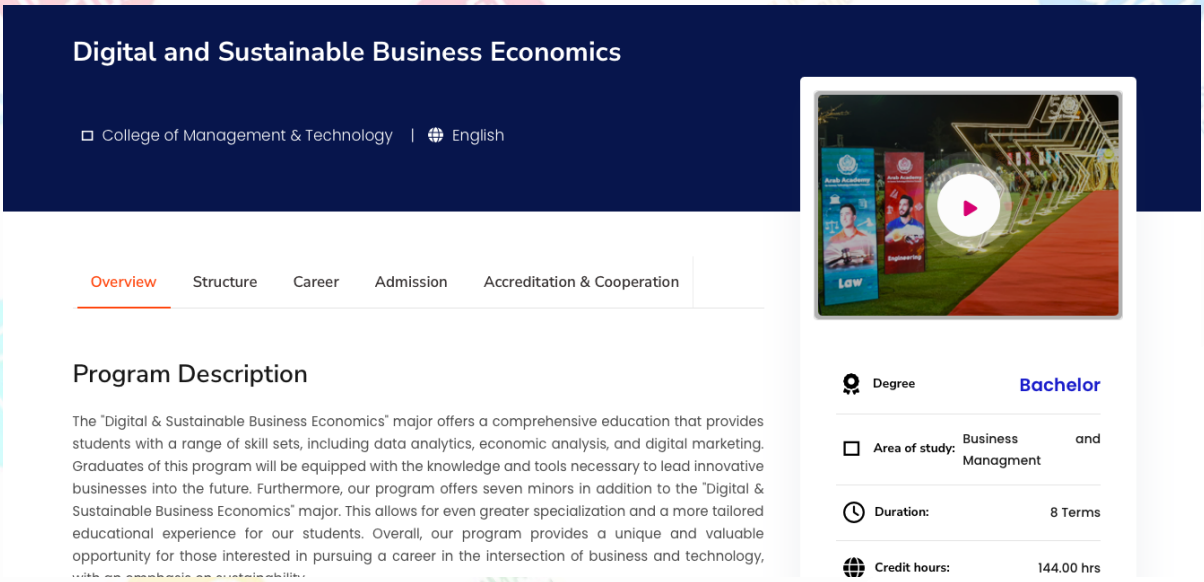
17.4.2 Education for SDGs Specific Courses on Sustainability

2023–2024

AASTMT maintains a strong commitment to embedding sustainability within its academic pathways by providing a selection of dedicated courses and learning options that directly engage with SDG-related themes. These offerings give students structured opportunities to explore sustainability concepts, understand global challenges, and develop practical competencies connected to environmental and socio-economic issues. Alongside classroom learning, the university encourages participation in sustainability-oriented projects and experiential activities, ensuring that students gain a well-rounded perspective on sustainable development. This integrated approach reflects AASTMT's ongoing effort to prepare graduates who can actively contribute to advancing the SDGs in their professional and community roles.

B.Sc. in Digital & Sustainable Business Economics

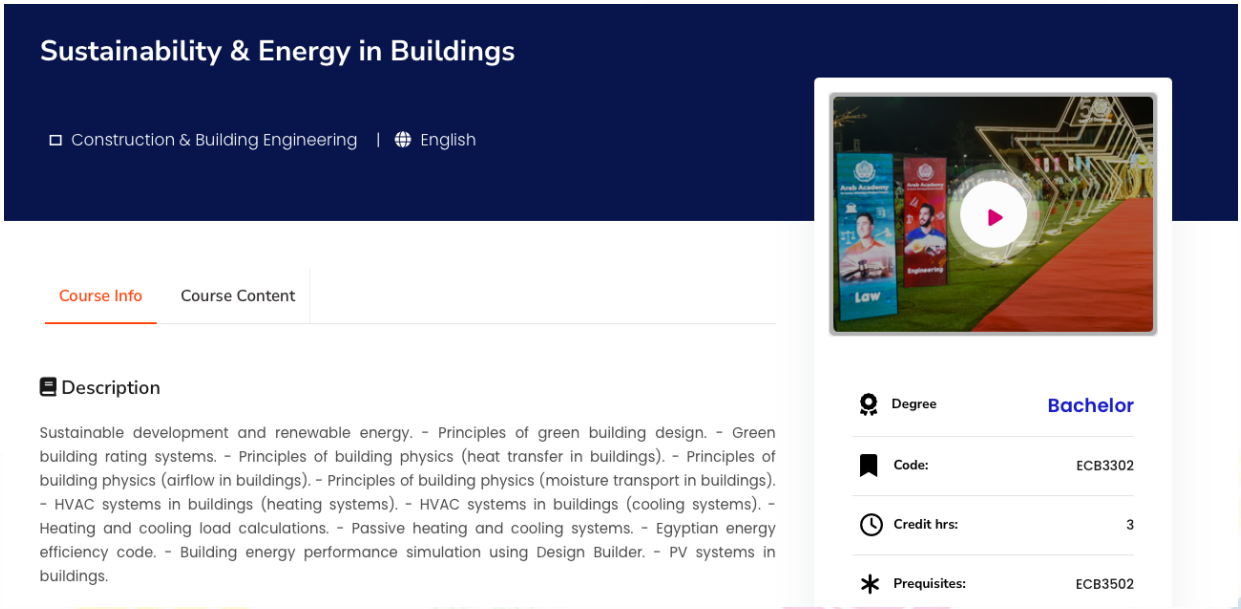
This undergraduate major introduces students to contemporary approaches in sustainable economic development, integrating environmental considerations with digital innovation. The program equips learners with the analytical and managerial skills necessary to support responsible economic growth while addressing evolving sustainability challenges.



B.Sc. in Digital & Sustainable Business Economics on AASTMT webpage

Sustainability & Energy in Buildings (ECB3302)

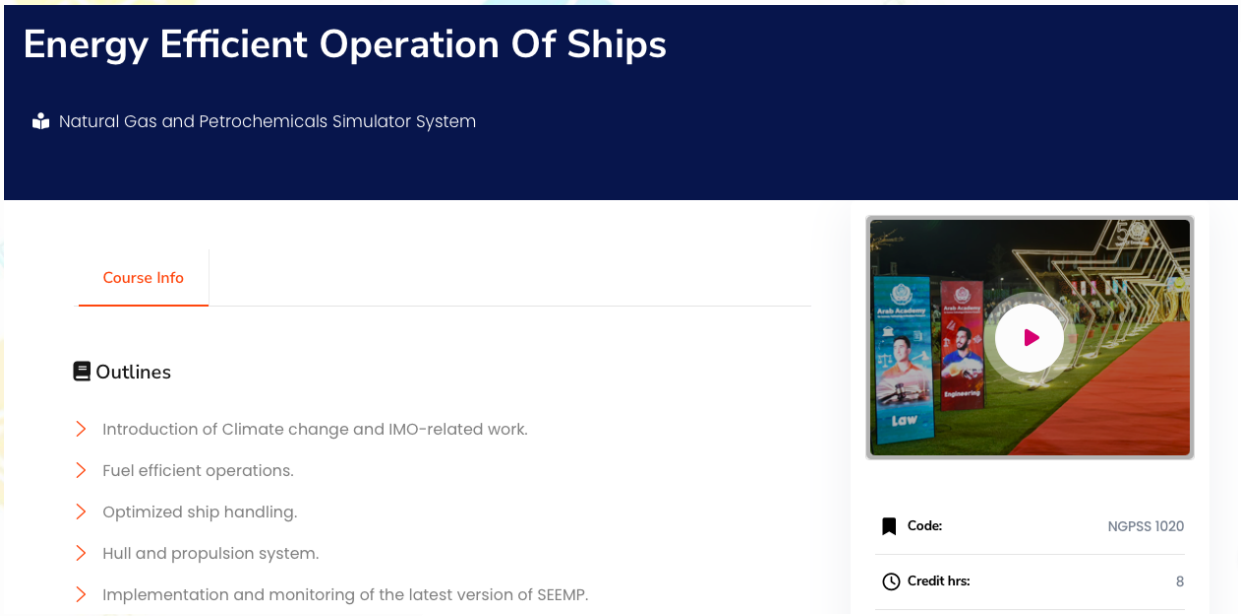
This course provides students with an in-depth exploration of sustainable building practices, focusing on energy-efficient design, renewable energy integration, and performance assessment of building systems. It enables learners to understand how engineering decisions influence environmental outcomes and supports the development of practical skills in green construction.



Sustainability & Energy in Buildings on AASTMT webpage

Energy Efficient Operation of Ships (NGPSS 1020)

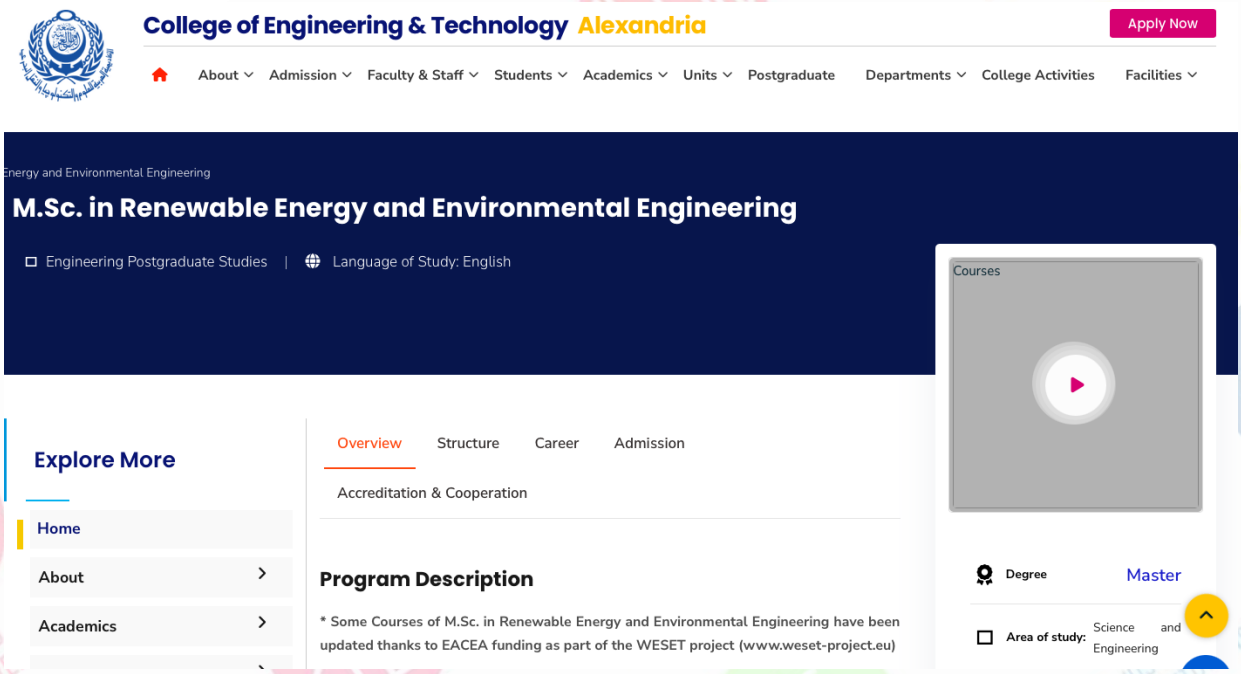
In line with AASTMT's emphasis on embedding sustainability principles within its educational pathways, this course enhances learners' capacity to apply environmentally conscious practices in maritime operations. *Energy Efficient Operation of Ships* (NGPSS 1020) provides a structured understanding of the environmental implications of ship performance, highlighting fuel-efficient strategies, emissions reduction, and alignment with international climate-related standards. Through its focus on greenhouse gas impacts, SEEMP implementation, and key energy-performance indicators such as EEDI, EEXI, and CII, the course offers a comprehensive learning experience that prepares students to address contemporary sustainability challenges in the maritime sector.



Energy Efficient Operation of Ships on AASTMT webpage

M.Sc. in Renewable Energy and Environmental Engineering

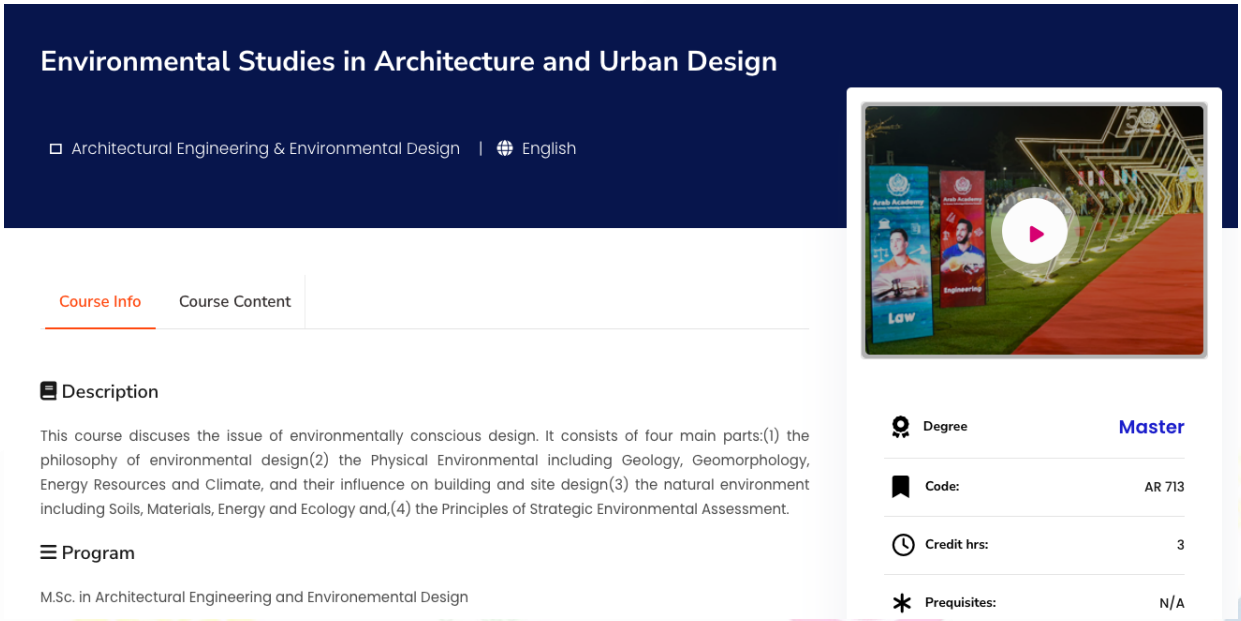
This postgraduate program offers comprehensive academic training in renewable energy technologies, environmental assessment, and sustainable engineering solutions. By combining theoretical foundations with applied methodologies, the program prepares graduates to analyze and design systems that support cleaner energy production and improved environmental performance.



M.Sc. in Renewable Energy and Environmental Engineering on AASTMT webpage

Environmental Studies in Architecture and Urban Design (AR713)

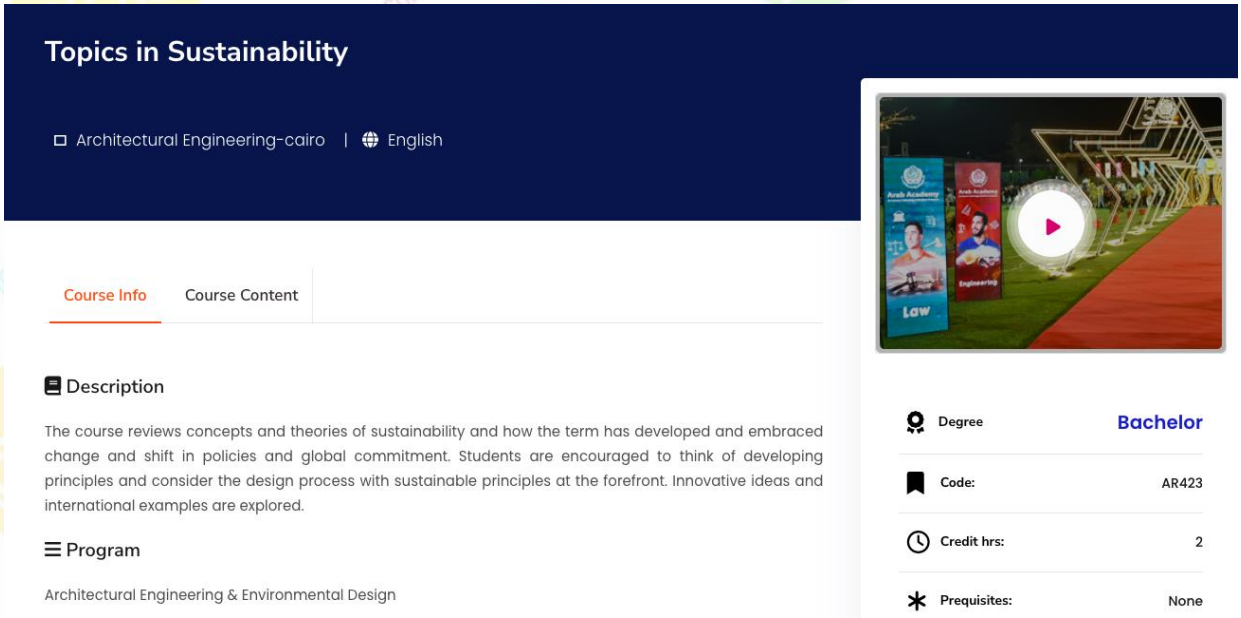
This postgraduate course, offered within the M.Sc. in Architectural Engineering and Environmental Design, examines environmentally conscious architecture and the relationship between natural and built environments. Students explore ecological design principles, environmental assessment methods, and sustainability-focused planning approaches. By emphasizing resource efficiency, environmental performance, and responsible urban development, the course provides a dedicated academic pathway that strengthens learners' abilities to integrate sustainability considerations into architectural and urban design decisions. In doing so, it contributes to expanding the range of sustainability-oriented courses within the university's formal curriculum.



ar713 on AASTMT webpage

Topics in Sustainability (AR423)

This undergraduate course offers a structured introduction to sustainability concepts, contemporary environmental challenges, and practical approaches to responsible development. It exposes students to established sustainability frameworks, environmental evaluation tools, and principles of responsible design. Through its multidisciplinary approach, the course encourages analytical thinking and problem-solving related to environmental and socio-economic issues. As a focused academic offering, it broadens students' access to sustainability-related learning within the curriculum and supports the development of competencies aligned with global sustainability priorities.



AR423 on AASTMT webpage

MSc in Euro-Mediterranean Environmental and Climate Systems Management (SECCM)

The postgraduate program in Euro-Mediterranean Environmental and Climate Systems Management provides an advanced, multidisciplinary curriculum focused on understanding and responding to climate challenges. The program combines scientific knowledge with applied tools to analyze climate drivers, assess environmental impacts, and support adaptation and mitigation strategies. Graduates acquire practical and analytical capabilities that prepare them for careers in environmental governance, research institutions, and climate-related industries. Delivered in collaboration with international partner universities, the program equips learners to address environmental challenges across Egypt, the wider Arab region, and Europe, making it one of the most distinctive climate-focused master's pathways in the region.

Master of Smart Environmental and Climate Change Management (SECCM) on AASTMT webpage