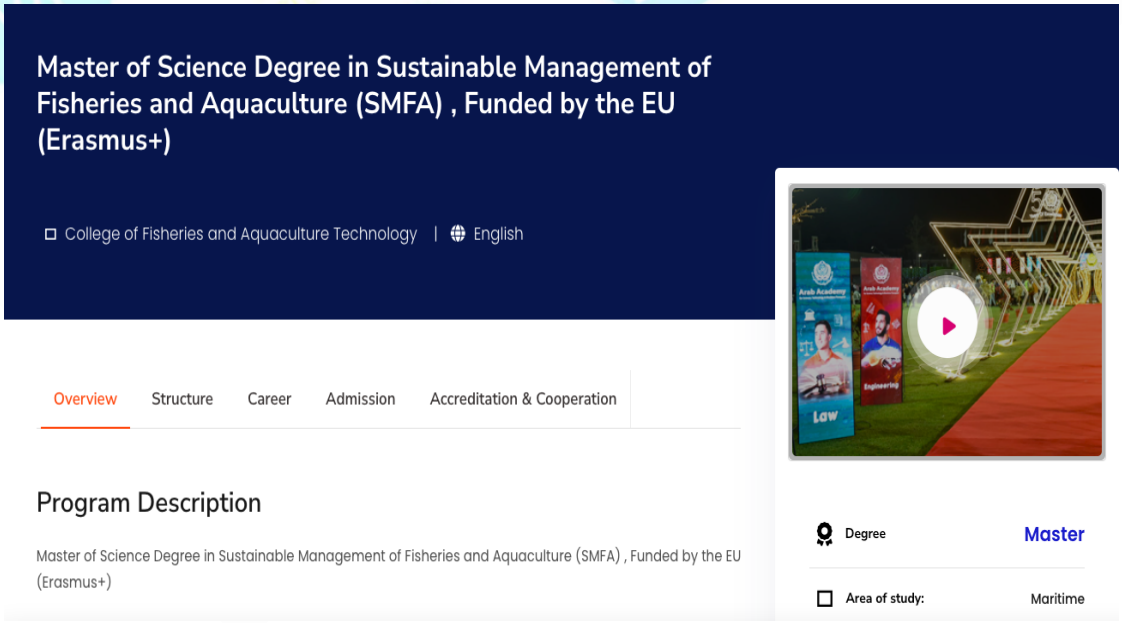
17.4.2 Education for SDGs Specific Courses on Sustainability

2024–2025

During the 2024–2025 academic year, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) continued to integrate sustainability into its academic programmes through undergraduate and postgraduate education. Its academic offerings address a range of sustainable development challenges, including renewable energy, environmental protection, climate change, sustainable resource management, responsible supply chains, and sustainable economic development. Through specialised courses and degree programmes across different disciplines, AASTMT provides students with opportunities to develop theoretical knowledge, analytical skills, and practical competencies relevant to the United Nations Sustainable Development Goals (SDGs). In addition, the Academy's participation in international curriculum development initiatives supports the continued integration of sustainability into higher education. These efforts reflect AASTMT's commitment to preparing graduates with the knowledge and skills needed to contribute to environmental, economic, and social sustainability.

Master of Science in Sustainable Management of Fisheries and Aquaculture

AASTMT's College of Fisheries and Aquaculture Technology offers a Master of Science in Sustainable Management of Fisheries and Aquaculture (SMFA), developed through the EU-funded Erasmus+ FishAqu project. The four-term programme includes Sustainable Fisheries Management (SMFA 606), Fishery Analysis and Stock Assessment (SMFA 602), Aquaculture Systems and Engineering (SMFA 604), and Aquaculture Nutrition and Production (SMFA 605). These courses address the responsible management of fisheries resources, assessment of aquatic stocks, aquaculture production systems, and environmental considerations associated with fish production. The programme integrates sustainability into postgraduate education by providing students with specialized knowledge relevant to marine resource conservation and sustainable aquaculture practices.



Master of Science in Sustainable Management of Fisheries and Aquaculture

Curriculum Development for the Sustainable Blue Economy Study toward the achievement of Ocean Decade in Tunisia, Egypt, and Jordan / BLUE-ERA

AASTMT participates in the Erasmus+ funded BLUE-ERA project, which runs from November 2023 to October 2026 and brings together nine universities from Europe and the Southern Mediterranean region. The project aims to establish a new master's degree in Sustainable Blue Economy in Tunisia, Egypt, and Jordan, focusing on the sustainable use of marine resources, environmental protection, and employment opportunities in maritime-related sectors. Its activities include developing and modernizing academic curricula, introducing core and elective modules, establishing interconnected laboratories, and providing fieldwork, training, and capacity-building opportunities for students and academic staff. The project also seeks to strengthen cooperation between universities and the labour market to improve graduate employability and support the long-term continuation of the programme. Through curriculum development and practical training, BLUE-ERA contributes to AASTMT's efforts to integrate sustainable development into higher education. BLUE-ERA is presented as an ongoing curriculum development initiative rather than an established academic programme currently offered by AASTMT.

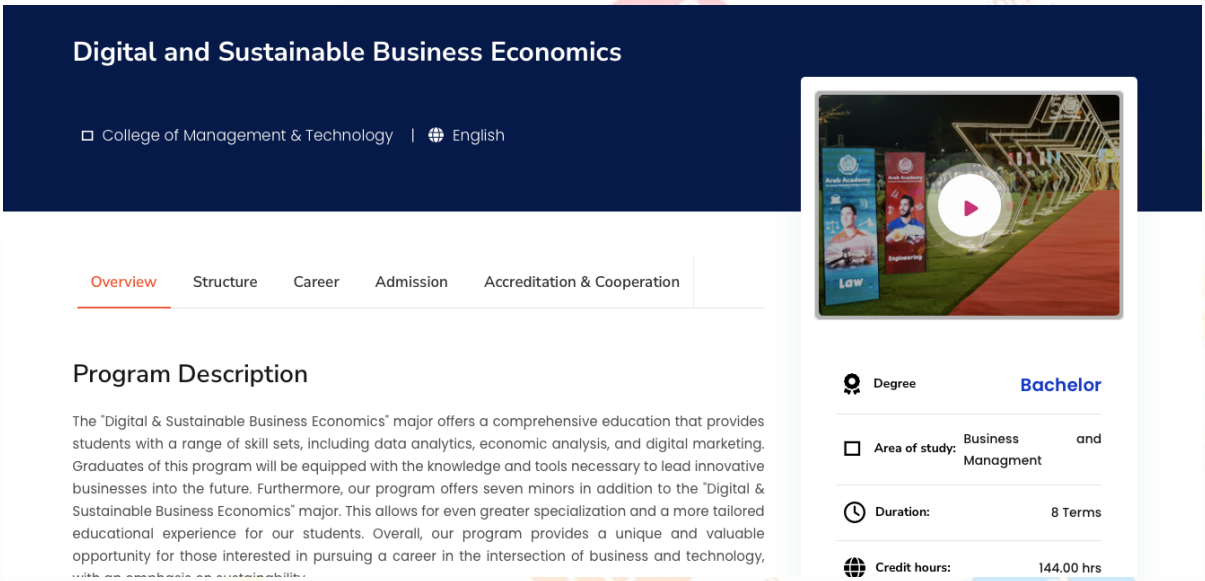


Curriculum Development for the Sustainable Blue Economy Study toward the achievement of Ocean Decade in Tunisia, Egypt, and Jordan / BLUE-ERA

Digital & Sustainable Business Economics

AASTMT offers a B.Sc. in Digital & Sustainable Business Economics that integrates sustainability principles with digital innovation and economic studies. The programme focuses on sustainable economic development, responsible business practices, and the role of digital technologies in addressing contemporary economic challenges. It aims to equip

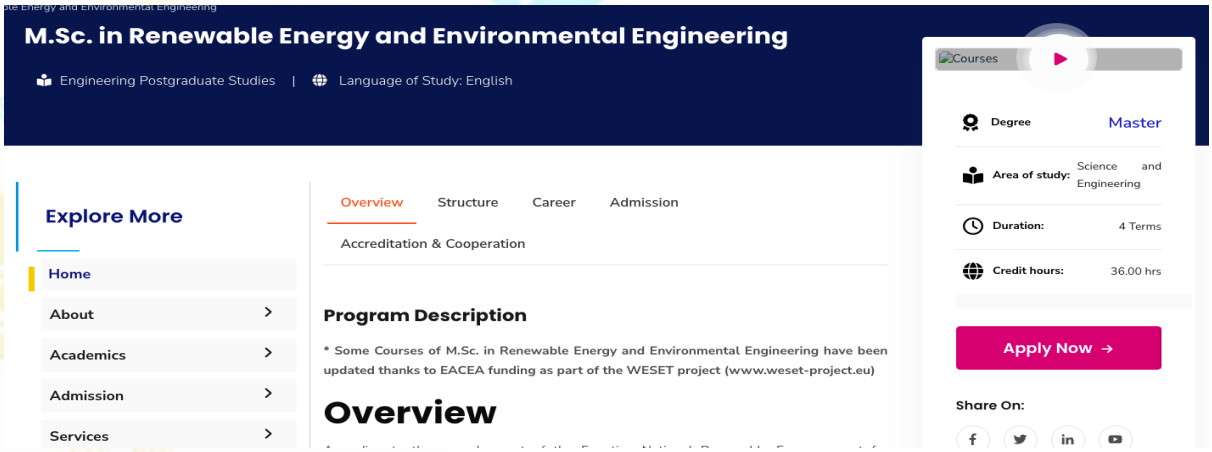
students with analytical and managerial skills to assess economic, environmental, and social considerations in business decision-making, preparing graduates to contribute to sustainable business development and responsible economic growth.



Digital & Sustainable Business Economics

M.Sc. in Renewable Energy and Environmental Engineering

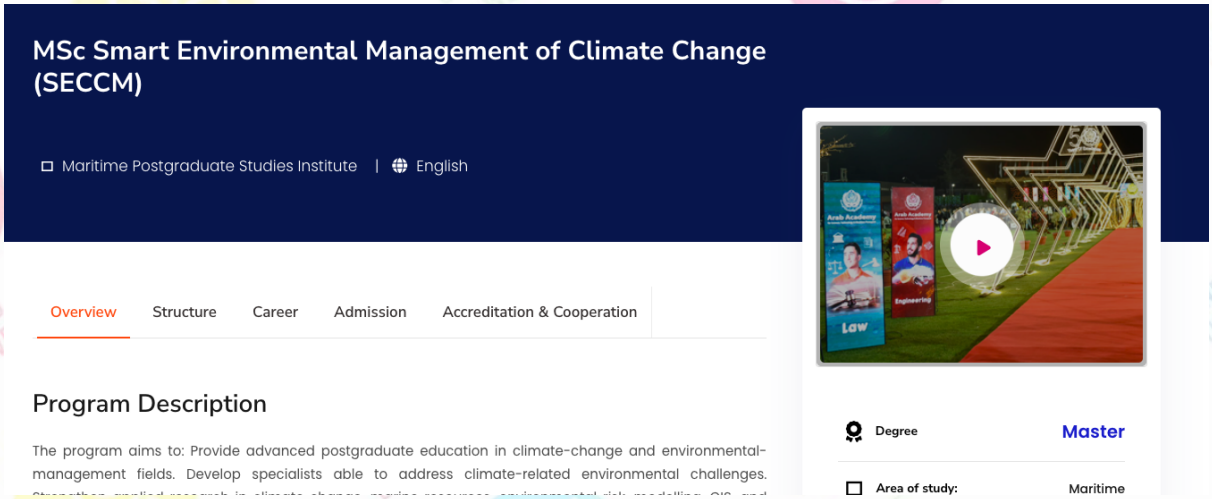
AASTMT offers an M.Sc. in Renewable Energy and Environmental Engineering that integrates renewable energy technologies, environmental assessment, and sustainable engineering practices. The programme provides students with theoretical knowledge and practical skills to evaluate renewable energy systems, assess environmental impacts, and develop sustainable engineering solutions. It aims to prepare graduates to contribute to cleaner energy production, improved environmental performance, and sustainable development.



M.Sc. in Renewable Energy and Environmental Engineering

MSc Smart Environmental Management of Climate Change (SECCM)

The Arab Academy for Science, Technology and Maritime Transport (AASTMT), through its Maritime Postgraduate Studies Institute, offers the Master of Science in Smart Environmental Management of Climate Change (SECCM). The programme provides advanced postgraduate education in climate change and environmental management through a multidisciplinary approach combining environmental sciences, climate assessment, environmental risk management, and applied research. It equips students with the knowledge and practical skills to assess climate-related environmental challenges, analyse impacts on marine and coastal systems, and apply tools such as Geographic Information Systems (GIS), remote sensing, and environmental modelling. The programme also develops competencies in climate adaptation, mitigation, and sustainability planning, preparing graduates for professional and research roles in environmental, maritime, coastal, and climate-related sectors.



MSc Smart Environmental Management of Climate Change (SECCM)