



Master Programme
 Smart Environmental Management of
Climate Change
 "SECCM"



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AdapTM
 Climate Change Management
 through Mitigation and Adaptation



Co-funded by the
 Erasmus+ Programme
 of the European Union
www.adaptm.eu



Smart Environmental Management of

Climate Change

"SECCM" *Project Master*

Cooperation

SECCM is a Master Degree program; the result of cooperation between 4 Egyptian Universities and 4 European universities and institutions in the framework of Erasmus+ funded project "Climate Change Management through Adaptation and Mitigation - AdapTM" (2017-2020). The cooperatively designed program benefits from an international and interdisciplinary perspective, European framework of recognition and wide network of involved professors.

Egyptian Partners	European Partners
Alexandria University	University of Catania, Italy
Arab Academy for Science and Technology and Maritime Transport	University of Klaipėda, Lithuania
Suez Canal University	Euro-Mediterranean University, Slovenia
South Valley University	National Observatory of Athens, Greece

Program outline

SECCM is a unique and interdisciplinary program combines the different approaches of natural and applied sciences to study climate change, its causes and effects and how to deal with and adapt to them.

The program prepares high-level graduates with the required knowledge and skills to work in different governmental and private institutions and organizations associated with local, regional and international efforts to deal with climate change, which is considered as one of the greatest current challenges for modern societies.

Program vision

The aim of SECCM is to be a pioneer program in preparing professionals to manage climate change in the local, regional and international environmental, research and industrial sectors.

Program mission

The Faculty of Science - Alexandria University seeks to qualify the graduates of SECCM to compete at the local and regional levels. By creating a suitable university environment, the graduate, who is ethically, scientifically and professionally distinguished in this field, will be able to serve the society and its institutions closely linked to sustainable development plans.

Stakeholders

- Ministries and government institutions (Ministry of Environment - Ministry of Irrigation and Water Resources - Egyptian Environmental Affairs Agency - Remote Sensing Authority - ...).
- Consulting companies that carry out EIA studies, develop, implement and monitor climate change mitigation and adaptation projects.
- Non-governmental and international and regional organizations participating in the assessment, mitigation and adaptation of climate change impacts.
- Industrial companies and research centers.

Admission requirements

Hold a B.Sc. in Science, Engineering or Agriculture with a minimum CGPA 2.333 (Good)

Program structure

SECCM is designed to comply with the Bologna Declaration and according to the demands of the Strategic Framework for European Cooperation in Education and Training (ET 2020).

2 years (4 semesters, 120 ECTS)

The student should complete 60 ECTS core courses in the first two semesters, 30 ECTS elective courses in the third semester, and 30 ECTS for the M.Sc. thesis in the fourth semester.

Semester 1 (30 ECTS core courses)	Semester 3 (to select 30 ECTS elective courses)
<ul style="list-style-type: none"> • Introduction to Climate Change • Meteorology and Climate Observation • Marine Resources and sustainability • Environment Risk Assessment and Management 	<ul style="list-style-type: none"> • Climate and Ocean Modeling • Climate Smart Agriculture • Nanotechnology and Climate Change • Sustainable Blue Economy • Coral Reefs and Climate Change • Energy Efficiency Management in Maritime Industry • Environmental Impact Assessment • Integrated Coastal Zone Management • Climate Change and Biodiversity • Global Environmental Governance • Strategic Planning and Project Management • Quality and Safety Management Systems • Climate Change effects on Coastal Dynamics • Adaptation Strategies to Climate Change for Hydraulic Risk Prevention in Coastal Areas • Climate Change Policy of the EU • Adaptation and Mitigation to Climate Change in Spatial Planning
Semester 2 (30 ECTS core courses)	
<ul style="list-style-type: none"> • Climate Change Management • Numerical Modeling and tools • GIS and Remote Sensing • Research Methodology and Ethics 	
Semester 4	
<ul style="list-style-type: none"> • 30 ECTS for the M.Sc. thesis 	

Language

English is the medium of instruction. All students are expected to demonstrate and acceptable of English proficiency both in oral and written communication skills.

Contact person

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▲ **5 selected students will have the opportunity to be fully funded to travel to Europe**

"Italy, Lithuania, or Slovenia"

for 14 days for theoretical, practical and field work.