



## The ADAPTM partnership

- University of Catania
- Klaipeda University
- Euro-Mediterranean University
- Arab Academy for Science, technology and Maritime Transport
- Alexandria University
- South Valley University
- Suez Canal University
- National Observatory of Athens



[This project has been funded with support from the European Commission. This communication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein]

# ADAPTM



Co-funded by the Erasmus+ Programme of the European Union

## Handout

### Climate Change Management Through Adaptation and Mitigation

#### THE OFFICIAL NEWSLETTER OF THE ADAPTM PROJECT

#### Editorial

ADAPTM (Climate Change Management Trough Adaptation and Mitigation) is a 3 year Erasmus+ Capacity Building project in the Field of Higher Education aiming at designing and implementing the interdisciplinary Master Degree study programme “Smart Environmental Management of Climate Change” (SECCM) for Egypt and involving universities from Italy, Lithuania, Slovenia, Greece and Egypt, but also other stakeholders interested in the implementation of the MSc.

The Master Course has been officially accredited by the National Committee of Basic Science and is going to start at Alexandria University in October 2019. The project is supporting Egyptian partners to integrate emerging technologies in environment change management in a competence-based education system, according to the European standards for quality of education and the Bologna process. The Project has been recognized relevant to the national situation and priorities related to environmental studies and climate, crucial for the Ministry of Environment and the national Plan of Development: Egypt 2030.

## PROJECT's ACHIEVED OBJECTIVES

- **ADAPTM has promoted the design and implementation of a Master degree study programme curriculum, integrated with the European education and research systems, enhancing the application of international standards of academic knowledge**
- **ADAPTM has enabled the official accreditation and implementation of the SECCM Master study programme, which starts in Alexandria University on the 26<sup>th</sup> of October, 2019.**
- **ADAPTM has contributed to involve researchers and practitioners into communication. Their joint participation in the educational process and research was established and training activities dedicated to academic staff of EG universities were organized and implemented by EU Partners.**

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### PROJECT ACTIVITIES and RESULTS

## Master SECCM

One of the most important objective of the project was the design and development of a Master Degree Program in Egypt. Two years of intense activities were necessary to prepare the Master proposal and go through all bureaucratic and assessment processes for its official accreditation. In particular, following activities of the first year, Partners were engaged in:

- The development of Courses' Specifications explicitly devoted to definition of Course data, aims, intended learning outcomes, contents, teaching and learning methods, student assessment, list of textbooks and references.
- The identification of qualified teachers form EG Universities, which have been identified for each subject to be taught
- The opening of calls for mobility aimed at selecting both EU students and academic staff to study courses and to teach at EG Universities.
- The completion of the SECCM accreditation process by Alexandria University.
- The beginning of the accreditation processes for the other Egyptian Universities.
- The launch of the MSc at Alexandria University.

# SECCM Accreditation

  
 جمهورية مصر العربية  
 وزارة التعليم العالي والبحث العلمي  
 الوزير

**قرار وزاري**  
 رقم ٢٠١٩/٨/٢٤ بتاريخ ٢٠١٩/٨/٢٤  
 بشأن إجراء تعديل بالأوضاع الداخلية لكلية العلوم  
 جامعة الاسكندرية (مرحلة الدراسات العليا)  
 بنظام الساعات المعتمدة

**وزير التعليم العالي والبحث العلمي ورئيس المجلس الأعلى للجامعات**  
 • بعد الاطلاع على القانون رقم (٤٩) لسنة ١٩٧٢ في شأن تنظيم الجامعات والقوانين المعدلة له.  
 • وعلى قرار رئيس الجمهورية رقم (٨٠٩) لسنة ١٩٧٥ بإصدار اللائحة التنفيذية لقانون تنظيم الجامعات والقرارات المعدلة له.  
 • وعلى القرار الوزاري رقم (٧٥١) بتاريخ ٢٠١٢/٣/٢٢ بشأن إصدار اللائحة الداخلية لكلية العلوم جامعة الاسكندرية (مرحلة الدراسات العليا) بنظام الساعات المعتمدة والقرارات المعدلة له.  
 • وعلى موافقة مجلس جامعة الاسكندرية بجلسته بتاريخ ٢٠١٩/٨/٢٧ / ٢٠١٩/٨/٢٧ .  
 • وعلى موافقة السيد الأستاذ الدكتور رئيس لجنة قطاع العلوم الاساسية بتاريخ ٢٠١٩/٧/١٨ بالتفويض الممنوح لسابته من لجنة قطاع العلوم الاساسية.  
 • وعلى قرار المجلس الأعلى للجامعات بجلسته بتاريخ ٢٠١٩/٨/٢٤ بالتفويض .  
 • وعلى موافقة هيئة مكتب المجلس الاعلى للجامعات بتاريخ ٢٠١٩/٨/٢٢ .

**قرار**  
**(المادة الاولى)**

يستبدل بنص المادة (١) من اللائحة الداخلية لكلية العلوم جامعة الاسكندرية (مرحلة الدراسات العليا) بنظام الساعات المعتمدة والصادرة بالقرار الوزاري رقم (٧٥١) بتاريخ ٢٠١٢/٣/٢٢ بالنص التالي : -  
 مادة (١) : تمنح جامعة الاسكندرية الشهادات والدرجات العلمية التالية بناء على اقتراح مجلس كلية العلوم

١ - الدبلوم المهني  
 ٢ - الدبلوم التخصصي (M.sc)  
 ٣ - درجة الماجستير في العلوم (M.sc)  
 ٤ - درجة الماجستير الخاصة في العلوم في (بيولوجيا الاعصاب) باللغة الفرنسية بنظام التعليم الالكتروني بالاشتراك مع كلية العلوم للعلاقات الدولية بجامعة بورجو ٢ بفرنسا (Bordeaux 2) وبالتعاون مع الوكالة الفرنسية للجامعات (AUF)  
 ٥ - درجة الماجستير " يورو متوسطية في علوم الاعصاب والتكنولوجيا الحيوية " مشروع الشراكة الاوروبية isis Tempus  
 ٦ - درجة الماجستير " يورو متوسطية في الادارة الذكية للتغيرات المناخية " مشروع الشراكة الاوروبية AdapTM-Erasmus  
 ٧ - درجة دكتوراه الفلسفة في العلوم (Ph. D)  
 ٨ - درجة دكتوراه في العلوم (D. sc.)

**(المادة الثانية)**  
 على جميع الجهات المختصة تنفيذ هذا القرار .

وزير التعليم العالي والبحث العلمي  
 ورئيس المجلس الأعلى للجامعات  
  
 (د.أ/ خالد عبد الغفار)



Arab Republic of Egypt  
Ministry of Higher Education  
The Minister

## Ministerial Resolution

No.4144 dated 18/09/2019

Regarding the procedure of amending the bylaws of the Faculty of Science, Alexandria University (postgraduate Studies stage) on credit hours system

Minister of Higher Education and Scientific Research and Chairman of the Supreme Council of Universities  
After reviewing

- Law No.49/1972 on the organization of universities and its executive regulations

- Presidential Decree No.809/1975 upon the executive regulations for Law of Universities and its amended Resolutions;

- Ministerial Resolution No.751 on 22 Mar. 2012, on issuing the bylaws of the Faculty of Science, Alexandria University (postgraduate Studies stage) on credit hours system and its amended Resolutions;

- The approval of Alexandria University Council upon its session on 19 Mar., 27 Aug 2019
- The approval of Prof. Dr. vice president of Committee of Basic Sciences Sector on 18 Jul. 2019 by the authorization given to him by the Committee of Basic Sciences Sector.
- The Resolution of the Supreme Council of Universities upon session dated 24 Aug. 2019.
- The Approval of the Bureau of Supreme Council of Universities dated 12 Sep. 2019

Decided:

### First Article:

Replace the text of the article (1) of the bylaws of the Faculty of Science, Alexandria University (postgraduate Studies stage) on credit hours system issued by Ministerial Decree No. 751 on 22 Mar. 2012 with the following:

**Article 1:** Alexandria University awards the following Certificates and degrees upon the proposal of the Faculty of Science Council

- 1- Profession Diploma
- 2- Specialization Diploma (M.sc)
- 3- Master's Degree of Science (M.sc)
- 4- Master's Degree in Science in (Neurobiology) in French language in the E-learning system in partnership with the Faculty of Science for International Relations, Bordeaux University 2, France (Bordeaux 2) in cooperation with the Francophone University Agency (Auf).
- 5- Master's Degree in "Euro-Mediterranean Neuroscience and Biotechnology" European Partnership Project isis Tempus.
- 6- Master's Degree in "Euro-Mediterranean Smart Climate Change Management" European Partnership Project AdapTM-Erasmus.
- 7- Doctorate degree in Science Philosophy (Ph.D)
- 8- Doctorate degree in Science (D.sc.)

### Article (2):

All competent authorities shall implement this resolution.

Minister of Higher Education, Scientific Research and the head of the Bureau of Supreme Council of Universities:  
Prof. Dr. Khaled Abdelghafar (signed)

True copy of the original  
Official in charge (signed)

Governmental Seal Affixed  
Arab Republic of Egypt  
Ministry of Higher Education  
Office of the Minister

## Ministerial Decree (and translation)

# SECCM Activation

October 26<sup>th</sup>, the Master starts at Alexandria University!



## SECCM Brochure

### Open Days

On 15<sup>th</sup> and 16<sup>th</sup> of September 2019, Open Days were organized at Faculty of Sciences, Alexandria University, Alexandria, Egypt. Adaptm Project's representative in AU have presented the new competence-based Master Degree curriculum SECCM-“Smart Environmental Management of Climate Change” to the potential students.

## Double Degree

The University of Catania has also activated the Master SECCM-“Smart Environment and Climate Change Management” for the 2019/2020 academic year. This implied the possibility to finalize the **SECCM agreements** between UNICT and other Egyptian Universities, aimed at acknowledging the SECCM as Double Degree. This would increase the impact and sustainability of the project.

# Staff and student mobility

Calls for staff and student mobility were opened at European Universities.

Six students from Klaipeda University and seven students from University of Catania were selected for a 4-weeks study period to EG HEIs. The first group of student will join the Course of “Environmental Risk Assessment and Management” at Alexandria University in November 2019.

Twelve academic staff members were selected by the University of Catania, Klaipeda University and Euro-Mediterranean University. Visiting teachers are going to start their mobility in November 2019, starting from Alexandria University. Academic staff will teach together with EG academic staff thus sharing knowledge and expertise.

Also Egyptian students will have the opportunity to spend time abroad to further their learning and improve their employment prospects. In particular, the AdapTM Project could support a mobility period of 2-weeks in Europe for up to forty-five students from Alexandria University, Arab Academy of Maritime Transport, Suez Canal University and South Valley University. All students will travel during the last year of the Project.

The mobility experience will not only equip students with new skills and learning specific to their area of study. Participants improve their foreign language skills during their time abroad which also will be properly recognised towards their final qualifications, according to principles underlying the EU support of the Bologna Process.

**AdapTM**  
Climate Change Management  
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## CALL FOR STUDENT MOBILITY

within the Erasmus+ Capacity-Building in the Field of Higher Education Project  
“Climate Change Management through Mitigation and Adaptation” (AdapTM)  
No. 2017 – 2965 / 001 – 001

This call is for student mobility, which is funded by Erasmus+ Programme of the European Union under the Capacity-Building in the field of Higher Education and will be implemented in the framework of the AdapTM project – Climate Change Management through Mitigation and Adaptation. The AdapTM project aims to modernize, internationalize and increase access to higher education, address the challenges facing Egyptian higher education institutions and systems, increase cooperation with the EU and promote people to people contacts, intercultural awareness, and understanding.

The project enables students up to 5 mobilities for study for 4 weeks in the Partner Country, Egypt (Alexandria, Ismailia, Qena). Selected students will join one specific study programme, the “Smart Environment and Climate Change Management (SECCM)” run simultaneously at four Egyptian Higher Education Institutions (Arab Academy of Science, Technology and Maritime Transport, Alexandria University, Suez Canal University and South Valley University). The mobility will create opportunities for connection between students from the EU and Egypt, it will enable students a study experience in a different social and cultural environment, including the acquisition of theoretical and practical knowledge and skills in the fields covered by the SECCM study programme in English language.

Candidates who will go on mobility in the first semester will have the possibility to attend one of the following SECCM courses, which shall be ranked by the in the provided Application Form (see Annex 1) from the most to the least preferred:

- 1) Climate Change (9 ECTS),
- 2) Meteorology and Climate Observation (9 ECTS),
- 3) Marine Resources and Sustainability (6 ECTS) and
- 4) Environment Risk Assessment and Management (6 ECTS),

while the candidates that will go on mobility in the second semester will have the possibility choose and attend one of the following SECCM courses:

- 1) Climate Change Management (6 ECTS),
- 2) Numerical Modelling and Tools (9 ECTS),
- 3) GIS and Remote Sensing (9 ECTS) and
- 4) Research Methodology and Ethics (6 ECTS).

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## CALL FOR STAFF MOBILITY

within the Erasmus+ Capacity-Building in the Field of Higher Education Project  
“Climate Change Management through Mitigation and Adaptation” (AdapTM)  
No. 2017 – 2965 / 001 – 001

This call is for staff mobility, which is funded by Erasmus+ Programme of the European Union under the Capacity-Building in the field of Higher Education and will be implemented in the framework of the AdapTM project – Climate Change Management through Mitigation and Adaptation. The AdapTM project aims to modernize, internationalize and increase access to higher education, address the challenges facing Egyptian higher education institutions and systems, increase cooperation with the EU and promote people to people contacts, intercultural awareness, and understanding.

The project enables students up to 4 mobilities for teaching for 2 weeks in the Partner Country, Egypt (Alexandria, Ismailia, Qena). Selected staff will teach at a new study programme, the “Smart Environment and Climate Change Management (SECCM)” run simultaneously at four Egyptian Higher Education Institutions (Arab Academy of Science, Technology and Maritime Transport, Alexandria University, Suez Canal University and South Valley University). The mobility will contribute to cooperation between the EU and the Partner Country, knowledge exchange and quality monitoring, to acquire experience and skills in the development of curricula for the new SECCM study programme as well it will offer teaching opportunities in an international environment.

Preference will be given to teaching staff who can teach in the following courses:

- 1) Climate Change (9 ECTS),
- 2) Meteorology and Climate Observation (9 ECTS),
- 3) Marine Resources and Sustainability (6 ECTS),
- 4) Environment Risk Assessment and Management (6 ECTS),
- 5) Climate Change Management (6 ECTS),
- 6) Numerical Modelling and Tools (9 ECTS),
- 7) GIS and Remote Sensing (9 ECTS) and
- 8) Research Methodology and Ethics (6 ECTS).

# ADAPTM Events

## First year meeting in ALEXANDRIA

12-13 December 2018

At the end of November 2018, all partners met for the First Year meeting at the Arab Academy for Science and Technology and Maritime Transport (Egypt). Reporting project activities and documentation together with enhancement of SECCM course content and activities to be delivered within work packages have been the main focus of the discussion.



The ADAPTM Partners at the First Year Meeting in Alexandria (at Arab Academy for Science and Technology and Maritime Transport)

## One-and-a-half year meeting in KLAIPEDA

28-30 April 2019

At the end of April 2019, all partners met for the One-and-a-half Year meeting at Klaipėda University (Lithuania). The mid-term period reporting and presentation of technical report and state of the art of deliverables have been the main focus of the discussion.



The ADAPTM Partners at the One-and-a-half year meeting at Klaipėda University

## Internal meeting in HURGHADA

19-22 August 2019



EG Partners gathered for an internal meeting to discuss:

- the programme accreditation follow-up
- the Project implementation report
- local project's management issues
- purchasing of equipment and lab establishment

## Internal meeting in ATHENS/KLAIPEDA

22-23 Nov 2018

23-24-27 Sept 2019



EU and Partner Countries delegates attending the internal meeting organized during the NOA training week



EU and Partner Countries delegates attending the internal meeting organized during the Klaipėda training week

## Bilateral e-Meetings

August 2019

Bilateral e-meetings have been organized between the Project Coordinator's team and each Partner in order to discuss in details the state of Projects' activities and related outcomes. In particular, the accreditation and activation procedures for the MSc, deadlines for dissemination activities, the status of scientific publications, reporting duties and equipment purchasing have been examined, also in the light of recommendations received by EACEA and aimed to improve the Project implementation.

# ADAPTM Training weeks

To continue the process of capacity building among the partnership, two training weeks have been organized in Athens (Greece) and in Klaipėda (Lithuania) with the participation of staff members from all Universities involved in the AdapTM Project.

## Training week in ATHENS

19-22 November 2018

The Training Week was held at the National Observatory of Athens; Kapodistrian University of Athens with the objective of training staff (teaching staff) from Egyptian Universities in innovation for Environment Change Management. Also European Partners participated in activities, working jointly on the integration of the insights from the training into the content of the new enhanced syllabi.



The Lecturer while introducing the “Urban climate change-Adaptation and mitigation” course



AdapTM Partners attending the Training week in innovation for Environment Change Management organized by NOA

Lecture courses conducted during the training week are listed below:

- *Meteorological monitoring (networks of ground stations/satellite data and tools)*
- *Climate modelling and applications*
- *Numerical Weather Prediction & Applications*
- *Urban climate change – Adaption and mitigation*
- *Climate impacts and adaptation strategies*



## Training week in KLAIPEDA

24-26 September 2019

The Training Week was held at Klaipėda University with the objective of providing staff (teaching staff) from Egyptian Universities with training on how to apply technologies in Environment Change Management. European Partners participated in activities as well.



The Lecturer while talking about “SAT application in Marine Research”



Adaptm Partners during the visit at the Lithuanian Sea Museum organized by KU

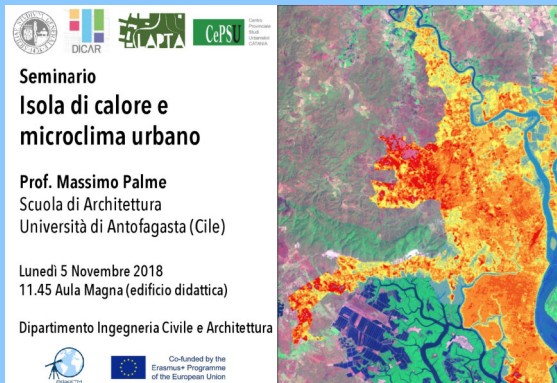
Lecture courses conducted during the training week concerned various topics among which:

- *Seascape: concept, definitions and use in multidisciplinary research*
- *Coastal processes: Natural driver's vs Anthropogenic*
- *Climate Changes in the SE Baltic Sea*
- *Land cover use and change as an indicator of changing environment: Curonian Spit case*
- *SAT application in Marine Research*

Moreover, special sessions during the training week agenda were devoted to improve the training of academic staff in the use of Collaboration Platform (with specific regard to students workflow), to enhance Communication and branding - practical recommendations for the project communication strategy, and to discuss on challenges for HEIs for internationalisation and quality.

# Other events

## Lectures/Info workshop at UNICT



**Seminario**  
**Isola di calore e microclima urbano**

**Prof. Massimo Palme**  
 Scuola di Architettura  
 Università di Antofagasta (Cile)

Lunedì 5 Novembre 2018  
 11.45 Aula Magna (edificio didattica)

Dipartimento Ingegneria Civile e Architettura

Co-funded by the Erasmus+ Programme of the European Union



**Urban climate models for urban planning**

**Massimo Palme**, Catholic University of the North (Chile)  
 Building Performance Simulation in Urban Context: shadows, ventilation, urban heat island and other effects

**Riccardo Privitera, Daniele La Rosa**, DICAR, University of Catania  
 A green infrastructure strategy for reducing seismic vulnerability and enhancing energy efficiency in urban contexts

**Vincenzo Costanzo**, DIEEI, University of Catania  
 Reliability of building energy simulations in urban areas: the role of weather data morphing

**Giampiero Evola**, DIEEI, University of Catania  
 Modelling outdoor thermal comfort and energy demand in urban canyons

**Francesco Nocera**, DICAR, University of Catania  
 Urban Microclimate and Energy Use Modeling Methods and Tools

**Rosaria Volpe**, DIEEI, University of Catania  
 An agent-based model for the energy distribution in urban areas under different operating scenarios

Lunedì 22 Luglio 2019 - ore 10.00  
 Aula IS (Edificio 4)  
 Dipartimento Ingegneria Civile e Architettura

Co-funded by the Erasmus+ Programme of the European Union

5 November 2018  
 Heat Island and urban microclimate

22 July 2019  
 Urban climate models for urban planning



22 October 2018  
 The Adaptm coordinator presenting the Project during EURASIA - information workshop organized by the University of Catania

## Info workshop at SVU

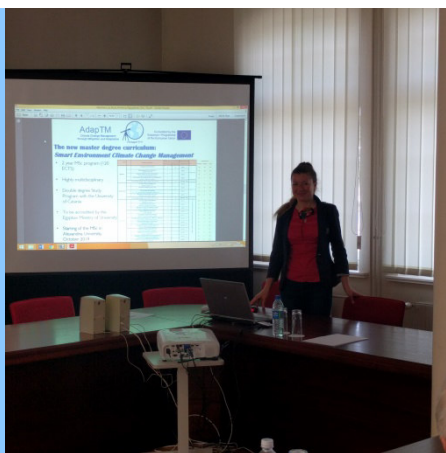
21-22 August 2019  
 Representatives from South Valley University presented the project objectives and outcomes while staff members from Arab Academy for opened the discussion with “National Institute of Oceanography & Fisheries” delegates to get feedback about the project activities and the Master Course.



## Erasmus+ International week at KU

6-10 May 2019

Partners from Klaipeda University presented the project objectives and outcomes during the 6th Erasmus+ International Week at Klaipeda University. The event was directed to the teaching and administrative staff, dealing with international cooperation, exchange programmes and international students.



## 11<sup>th</sup> INU STUDY DAY

Naples 14 December 2018

UNICT academic staff members published the scientific article “Improving research and education in climate change management by international networking in Mediterranean areas – the AdapTM project” in “Urbanistica Informazioni” scientific journal, which was also discussed during the 11th INU Study Day 2018 “Interruptions, intersections, sharing and overlappings. New perspectives for the territory” International Conference.

## Information workshops

### Information Workshops will be held at Alexandria University

On 19<sup>th</sup> of October and 26<sup>th</sup> of October students and stakeholders will be invited to attend two Information workshops. The Adaptm Project and its main results – among which the accreditation and starting of the SECCM-“Smart Environmental Management of Climate Change”- will be presented to the audience. Various organization belonging to the Environmental Management sector will participate. The opportunity to establish a network interdisciplinary of qualified specialists will enhance the sustainability of the Project.

## Representatives of our Egyptian partners joined *the Projects Café* in Alexandria!

All the projects from North Egypt were required to participate to enhance their visibility and promote for their results. Part of the event agenda has been left for free communication and bi-lateral meetings with interested teams in a café'-like setup where attendees could freely walk and talk to projects' teams about their experience from proposal submission to success.



### Next steps

#### *Second year meeting at Suez Canal University (Ismailia, 7-9 December 2019)*

First outcomes from the starting of the SECCM Master in Alexandria will be discussed. Deliverables of the Projects and related work packages under management will be presented with active contribution from all Partners.

#### **Starting of the Master Course at AASTMT, SCU, SVU**

By February 2020, the SECCM MSc in Environmental management for Climate Change will be activated in all EG Universities.

#### **Starting of mobility of Egyptian students and mobility of European visiting teachers**

By the end of the Project (October 2020), the mobility of teachers and students will be completed.

### ADAPTM Involved Stakeholders

*Some Research centres/organizations will support the Project by offering short practical training for selected students, internship and joint researches, teaching activities and thesis supervision*

\_New and Renewable Energy Authority (NREA), Nasr City, Cairo

\_ National Institute of Oceanography & Fisheries, Alexandria

\_Centre for Environment and Development for the Arab Region and Europe (CEDARE)

\_Blue Power Company

\_Lithuanian Sea Museum

\_Klaipeda Science and Technology Park

\_National Institute for Biology, Piran

*Others have been involved as interested stakeholders in the promotion of the SECCM Master, among which:*

\_Alexandria Mineral Oils Company

\_Alexandria Specialty Petroleum Products Company

The Egyptian Ethylene and Derivatives Company

Find out more about the ADAPTM Project at [adaptm.eu/wordpress/](http://adaptm.eu/wordpress/)

And follow us on Facebook @adaptmproject

Like the page!

