

National Training Workshops at the Design Phase

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Title of Deliverable: National Training Workshops at the Design Phase

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Nature of the Deliverable: Training

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Project Funding

Project Full Title: **Developing an Interdisciplinary Minor in Climate Change and Sustainability Policy**

Project Acronym: **CLIMASP**

Project number: **543879 TEMPUS-1-2013-1-GR-TEMPUS-JPCR**

EC Programme: **TEMPUS**

Agreement number: **JPCR (2013-2013-5043/001-001)**

Start date: **1st December, 2013**

Duration: **3 years**

Budget: **1 246 635 €**

Executive Summary

In this WP3, The CLIMASP teacher training was delivered at the period of the design phase. Its main purpose was to provide the needed capacity to university teaching staff in order to turn them ready to get involved in the course revision process. The first national training workshops were planned to be carried during February 2014. However, due to the late kick-off of the project, training sessions were postponed one a month later. Participation in the national teacher training sessions ranged from 25 to 45 participants in the three target countries. In total, 75 university teaching staff were trained together with 16 staff from administration. Besides these number, during the 1st national training workshops a number of external stakeholders were invited and took part, ranged from 10-15 in the three target countries.

Objectives of the workshop

The key objectives for the national training workshops (NTWs) are the following:

1. Discuss the processes and practices for the stakeholders' involvement in the CLIMASP program.
2. Review the instruments to be used for the stakeholders' involvement in the construction of competences required to the CLIMASP program.
3. Plan the stakeholders' involvement in each partner country.
4. Brainstorming on the initial mapping of courses directly and/or indirectly related to the CLIMASP program.
5. Review the specifications for the purchase of equipment and plan the establishment of the Centers of Integrative and Interdisciplinary Studies with the ICT labs in each partner country university institution (Egypt, Jordan & Lebanon).

Target group

The target group for the NTW is staff functioning as design teams and other involved staff from at least three disciplines, who are going to form the working groups (WGs) in each of the three strands of the CLIMASP program. The three strands include Climate Change, Environment and Society, Climate Change, Economics and Public Policy, and Climate Change, Science and Technology. Additionally key stakeholders from relevant sectors will be invited, such as:

- university (key administrators, expert staff in the field of sustainability and climate change, student representatives, alumni representatives);
- public sector (policymakers and experts with responsibilities and interests in climate change, especially from concerned ministries, rural development, tourism, agriculture, fishery, community and social development, etc.);
- the private sector (trade unions, professional associations, tour companies, etc.);
- NGOs and community-based organisations working with the key sectors to be affected by climate change.

Expected outcomes

The key expected outcomes from the NTWs are the following:

An Action Plan in each partner country university which will consist of the following:

- the stakeholders' involvement in the CLIMASP project along all its phases;
- the qualitative (e.g. focus group interviews) and the quantitative (e.g. semi-structured questionnaires) instruments to be used for mapping the required CLIMASP minor programs competences;
- the detailed plan for data collection;
- the formulation of the design teams and WG teams in each participating university institutions;
- the catalogue of the proposed courses that will be revised and/or developed for the CLIMASP minor programs;

- the plan for the purchase of equipment and the establishment of the Centers of Integrative and Interdisciplinary Studies with the ICT labs in each partner country university institution (Egypt, Jordan & Lebanon).



CLIMASP partners and stakeholders at the 1st national training workshop in Egypt, Heliopolis University of Sustainable Development

2.1. Agenda of the 1st National training workshop

Day 1 – 1 March 2014	
9:00-9:30	Registration
9:30-10:00	Welcome note and introduction to the CLIMASP project Dr. Omar Ramzy
10:00-11:00	Establishing a basis of knowledge in sustainability themes. Climate change threats and opportunities and common causes of climate change and international efforts to combat it. Mr. Helmy Abouleish
11:00-11:30	Coffee Break
11:30-12:00	Egyptian Business Women Association’s role Dr. Amany Asfour
12:00-12:30	Education For Employment Foundation’s role Mr. Theo Wilson
12:30-13:30	Lunch Break
13:30-14:00	Synergies between mitigation (low carbon development) and adaptation (climate resilience) to address climate change Dr. ElSayed Sabry Mansour
14:00-14:30	Mapping courses of Sues Canal University Dr. Nehal Lotfy
14:30-15:00	Mapping courses of Port Said University Dr. Enas El Sheikh
15:00-15:30	Mapping courses of Aswan University Dr. Usama Mahalel

15:30-16:00	Split participants into small groups to be prepared for the second day activities
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Day 2 – 2 March 2014

9:30-12:00	Applying the methods for infusing sustainability themes in the diversified courses - Discussion of the impacts of climate change on the sectors of groups' expertise Mr. Omar Eldahan
12:00-12:30	Coffee Break
12:30-13:30	Lunch Break
13:30-16:00	Stakeholders feedback and open discussion per group Three groups each group will focus on reviewing potential courses under the three concentration areas of CLIMASP: Group 1: Climate Change, Environment and Society. Group 2: Climate Change, Economics and Public Policy. Group 3: Climate Change, Science and Technology

Day 3 – 3 March 2014	
9:30-11:00	Practical exercise for all participants to experiment in designing an interdisciplinary minor in climate change; plus embedding climate change principles in the identified courses under the three concentration areas Moderated by Dr. Omar Ramzy and Mr. Omar Eldahan
11:00-11:30	Coffee Break
11:30-12:30	Mapping courses of Heliopolis University – Business and Economics Faculty Dr. Omar Ramzy
12:30-13:30	Lunch Break
13:30-15:00	Designing the qualitative and quantitative instruments to be used for mapping the required CLIMASP minor programs competences; discussing the detailed plan for data collection. Also, research topics will be proposed in relation to the CLIMASP and research teams will be formulated with the help of Dr. Clemens Mader
15:00-16:00	Briefing on post workshop activities Mr Omar Eldahan

2.1. List of participants 1st National training workshop

Institution	Project partners and stakeholders			
Heliopolis University for Sustainable Development	1	Dr. Omar Ramzy	22	Afdal Farid
	2	Omar Eldahan	23	Yassin Elsherif
	3	Magda Mohamed Gharib	24	Eslam Mohamed
Suez Canal University	4	Dr. Nehal Khalil	25	Dr. Salah A. Shata
	5	Dr. Atef .M.Kamel	26	Mervat Abdel Aziz Nasr
	6	Dr.Khalid El-sayed		
Aswan University	7	Dr. Mohamed Shelel	27	Dr. Ahmed M.El.Otify
	8	Dr. Abdel Aziz Tantawy	28	Dr. Adel Abd El-Faheem
	9	Dr. Waleed Abdel Fadeel	29	Dr. Usama A. Mahald
	10	Dr. Ashraf Emam Abdel Rady		
Port Said University	11	Mostafa Aly Hussien	30	Magdy Bahgat
	12	Prof.Enas Elsheikh	31	Amal ElArabawy Mahady
	13	Ass.prof.Mahmoud Mohasseb		
Cairo University	14	Rasha Ahmed Bahir	32	Reem Ahmed Bahir
	15	Omar Mohamed Shafik	33	Assem Mohammed Shafik
Egyptian Business Women Association	16	Dr.Amany Asfour		
EFE /Egypt	17	Theo Wilson		
EPEA	18	Dr. Andreas Hofmann-Dally		
FOADA	19	Mohamed El-Medany	34	Ahmed Taha
Advisor UN	20	Dr. Tarek El Baz		

Leuphana University of Lüneburg	21	Dr. Clemens Mader	35	Marlene Mader
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2.1. Minutes of the 1st National training workshop

The Structure of the NTW

The 1st NTW in Egypt was held in Heliopolis University for Sustainable Development from the 1st to the 3rd of March, 2014. The organizers identified and invited potential stakeholders from all around Egypt as well as participants from Leuphana University. Different activities were held on each day (see program above) focusing on bringing a unified plan for the CLIMASP project.

The first day focused on enhancing the participants' understanding of the challenges of climate change, the causes of climate change, and the potential solutions. Furthermore, concepts and discussions were introduced to the participants regarding the programme preparing them for the discussions in the following days. On the second day, the participants were split into three different groups based on the three focuses: Science and Technology, Environment and Social Sciences, and Economics and Public Policy. The groups were then challenged to write their about the challenges that they face from climate change directly, the indirect challenges, the ways to face these challenges, and their recommendations (See appendix: A). Then, these were presented, discussed and considered within the context of the CLIMASP programme. The day ended with an open discussion about the future of the programme and the different ideas of the participants regarding its implementation. On the third day, everything came together as a plan for formulated for the implementation of the CLIMASP degree and a stakeholder questionnaire was drafted with the help of Dr. Clemens and Marlene Mader (see appendix: B).

The CLIMASP Minor

At the end of the NTW, an outline for the formulation of a CLIMASP degree was established. While there was some concern regarding the high requirement of it being around 60 ECTS, it was agreed that this amount could be achieved in a minor. This would be done by splitting courses into the three different focuses of Science and Technology, Environment and Social Sciences, and Economics and Public Policy with the addition of a 10 ECTS internship/practical training. The student enrolled in the minor must pick no less than 8.5 ECTS in each focus. The student is then free to take courses in any of the three focuses up to a limit of 33 ECTS which will be counted towards the CLIMASP. In other words, any increase above 33 ECTS in a single discipline will not be calculated as part of the minor. This is to allow sufficient flexibility for the universities as the existing structure is very rigid and will cause great resistance for such an interdisciplinary minor. With this, the majority of the courses taken by the student will be courses that already count towards his overall major degree, reoriented to address climate change, while still offering an interdisciplinary perspective on the challenges of climate change.

The CLIMASP Diploma

Some of the partner universities complained that creating an interdisciplinary programme could prove to be impossible for certain faculties. This is due to a lack of following a true credit hour system, a rigid university structure, resistance by staff,

etc. Thus, it was established that for the universities that cannot establish a minor, they must establish a diploma accredited by the Euro-pass. And, for those universities that do establish a minor, they would also be required to offer a diploma along-side it. However, the structure would be slightly different. The diploma would also require a 10 ECTS internship/practical application. It would also require a total of 60 ECTS in total. However it will differ in the distribution as per the focuses. In order to achieve the diploma, students must achieve AT LEAST 16 ECTS in each of the three focuses. If a student who has achieved the CLIMASP minor wishes to take the diploma, he/she must complete the minimum requirements of 16 ECTS per focus in order to receive it.

The Center of Interdisciplinary Studies

The courses however, must be approved and accredited by the Center for Interdisciplinary Studies (CIS). Any reoriented course must be revised and approved by this center, which may have participants from partner universities or from other national or international partners. When a revised (or newly created) course is approved by the center, it can be offered to all students studying in the university at the time provided that they have taken the necessary pre-requisites. This will also be the primary center that will hold the ICT lab and will offer the CLIMASP diploma.

Feedback from the Participants

In order to receive feedback from the participants, the organizers prepared the following questionnaire with questions being asked on a 4-Level Likert scale:

- Q1: The NTW was well Organized
- Q2: The Presenters were well prepared and knowledgeable about the topics
- Q3: We were encouraged to engage directly in the workshop and the activities
- Q4: The food and catering services were suitable for the event
- Q5: My concerns and questions regarding CLIMASP were all addressed
- Q6: The NTW was a success
- Q7: We came out with a clear plan and vision for the future of the project
- Q8: I look forward to attending the next regional/national training workshops in CLIMASP

The results of the questionnaire are seen in figure:1:

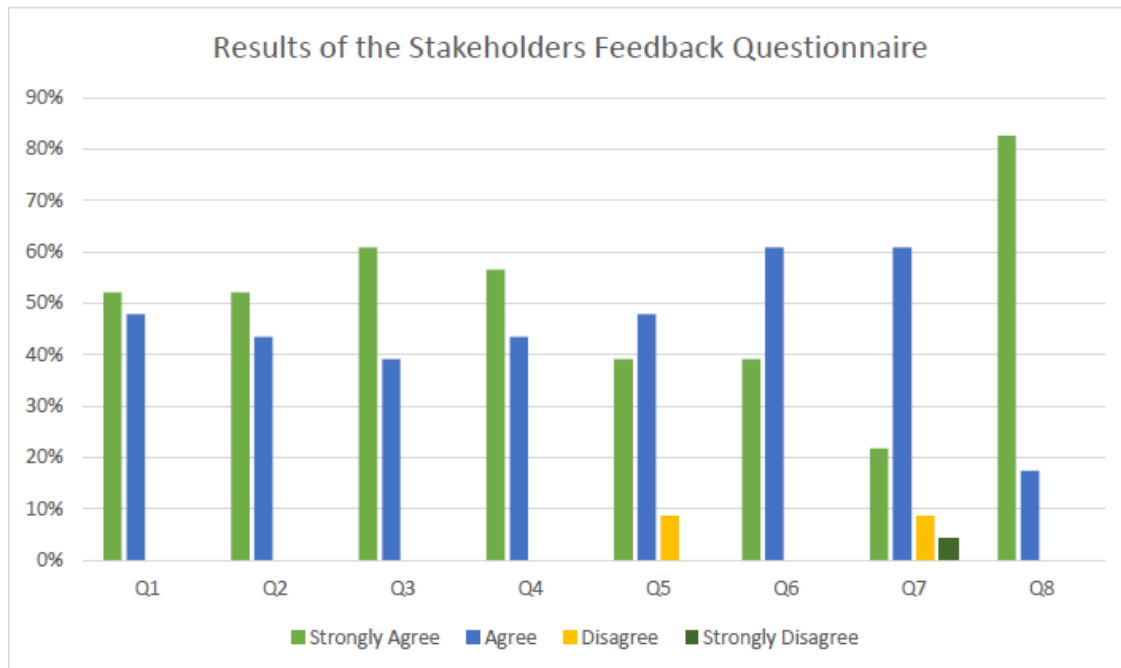


Figure 1: Results of Stakeholder Feedback Questionnaire

As it can be seen, the participants all agreed that the NTW was well organized, the presenters were well prepared, they were encouraged to participate, the food was suitable, they look forward to the next NTW, that this NTW was overall a success. However, there was some slight disagreement regarding whether or not there was a clear plan for the future with only around 21% strongly agreeing and 10% in disagreement. However, it is still clear that the a majority agrees that they have a clear plan and that the NTW was an overwhelming success.

1st National training workshop, Jordan

The first national training workshop in Jordan took place at the University of Jordan from 19-20 March 2014, within the framework of the design phase of the CLIMASP project.

During the design phase of the project the input and integration of different stakeholders is of importance. In order to be able to plan courses for the CLIMASP minor programme, key stakeholders will be identified and their perspectives about anticipated impacts of climate change will be considered when identifying relevant competences students should gain to be able to tackle climate change at the regional level.

The first national training workshop invites a variety of stakeholders in the field of climate change issues with the aim to identify key sectors to be affected and the actions each country might propose in order to mitigate or adapt to such impacts. In order to bridge the potential gap between academic knowledge and societal and

economic needs, a close cooperation between lecturers and stakeholders in the CLIMASP programme is desired.

A design team will be set up at each partner university to guide the process.

Objectives of the workshop

The key objectives for the national training workshops (NTWs) are the following:

- Discuss the processes and practices for the stakeholders' involvement in the CLIMASP program.
- Review the instruments to be used for the stakeholders' involvement in the construction of competences required to the CLIMASP program.
- Plan the stakeholders' involvement in each partner country.
- Brainstorming on the initial mapping of courses directly and/or indirectly related to the CLIMAP program.
- Review the specifications for the purchase of equipment and plan the establishment of the Centers of Integrative and Interdisciplinary Studies with the ICT labs in each partner country university institution (Egypt, Jordan & Lebanon).

Target group

The target group for the NTW is staff functioning as design teams and other involved staff from at least three disciplines, who are going to form the working groups (WGs) in each of the three strands of the CLIMASP program. The three strands include Climate Change, Environment and Society, Climate Change, Economics and Public Policy, and Climate Change, Science and Technology.

Additionally key stakeholders from relevant sectors will be invited, such as:

- university (key administrators, expert staff in the field of sustainability and climate change, student representatives, alumni representatives);
- public sector (policymakers and experts with responsibilities and interests in climate change, especially from concerned ministries, rural development, tourism, agriculture, fishery, community and social development, etc.);
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Expected outcomes

The key expected outcomes from the NTWs are the following:

An Action Plan in each partner country university which will consist of the following:

- the stakeholders' involvement in the CLIMASP project along all its phases;
- the qualitative (e.g. focus group interviews) and the quantitative (e.g. semi-structured questionnaires) instruments to be used for mapping the required CLIMASP minor programs competences;
- the detailed plan for data collection;

- the formulation of the design teams and WG teams in each participating university institutions;
- the catalogue of the proposed courses that will be revised and/or developed for the CLMASP minor programs;
- the plan for the purchase of equipment and the establishment of the Centers of Integrative and Interdisciplinary Studies with the ICT labs in each partner country university institution (Egypt, Jordan & Lebanon).



CLMASP partners and stakeholders at the 1st national training workshop in Jordan, University of Jordan

2.1. Agenda of the 1st National training workshop

Day 1 – 19 March 2014	
9:00-9:30	Registration
9:30-10:00	Welcome and Introduction Prof. Ahmed Al-Salaymeh, CLIMASP Project Coordinator in Jordan Prof. Khaled Al-Fawares, Dean of Scientific Research Prof. Ahmad Abu-El-Haija , Director, National Tempus Office H.E Dr. Taher Al-Shakhshier, Minister of Environment.
10:00-10:30	Coffee Break
10:30-10:45	“Development of Interdisciplinary Minor Programmes on Climate Change and Sustainability Policy- CLIMASP” project Prof. Ahmed Al-Salaymeh (UOJ)
10:45-11:00	Integrating Sustainability into Higher Education Curricula Prof. Theodora De Baz (HU)
11:00- 11:15	Climate Change Policy in Jordan Dr. Ahmad Abd Al-Fattah
11:15- 11:30	Strengthening Stakeholders Engagement for CLIMASP Curriculum Development Dr. Jwan Ibbini (HU)
11:30- 14:00	Open Discussion and Feedback from Stakeholders Moderators: Dr. Ibrahim Al Oqily (HU) Ms. Marlene Mader (ULG) Dr. Bushra Mahadin (AUM)
14:00-15:00	Lunch
15:00- 17:00	Meeting for CLIMASP Staff

Day 2 – 20 March 2014	
9:30-10:00	Leuphana Approach in Sustainability <ul style="list-style-type: none"> • Dr. Simon Burandt (ULG)
10:00-10:30	Panel Discussion: Identifying Climate Change Threats Opportunities at National Level Panelist: <ul style="list-style-type: none"> • Mrs. Hala Zawati (EDAMA) • Eng. Ahmad Al-Kofahi (JES) • Dr. Fares Khoury (AUM)
10:30- 11:00	Coffee Break
11:00- 13:00	Focus Group and CLIMASP Courses Mapping “Three Thematic Groups”: <ul style="list-style-type: none"> ➤ Climate Change Adaptation: Moderators: <ul style="list-style-type: none"> • Dr. Fares Khouri (AUM) • Dr. Lubna Tahtamouni (HU) • Miss Sana’a Al-Aqqad (UOJ) ➤ Climate Change Mitigation: Moderators:

	<ul style="list-style-type: none"> • Prof. Ahmed Al-Salaymeh (UOJ) • Dr. Jwan Ibbini (HU) • Dr. Asal Haddad (AUM) ➤ Cross- Cutting Intervention: <p>Moderators:</p> <ul style="list-style-type: none"> • Prof. Theodora De Baz (HU) • Dr. Khawla Sbitan (UOJ) • Miss. Nancy Refai (AUM)
13:00- 14:00	Outcomes For The Thematic Groups
14:00- 15:00	Lunch

2.1. List of participants 1st National training workshop

Institution	Project partners			
University of Jordan	1	Prof. Ahmed Al-Salaymeh	22	Dr. Hala Al-Shawa
	2	Dr. Ahmad Abu-Yaghi	23	Dr. Abdelnabi Fardous
	3	Dr. Khawla Sbitan	24	Miss Sana'a Al-Aqqad
	4	Dr. Nidaa Zaqzouq	25	Mrs. Asma Smadi
	5	Prof. Ali Badran	26	Eng. Fedaa Al-Qasem
	6	Dr. Nehaya AlKarablieh	27	Miss Hanan Al-Slaymeh
Hashemite University	7	Dr. Theodora De Baz	28	Dr. Ahmad Qablan
	8	Dr. Lubna Tahtamouni	29	Dr. Ibrahim Obeidat
	9	Dr. Saed Sabah	30	Dr. Jwan Ibbini
	10	Dr. Ibrahim Al-Oqily	31	Dr. Sami Ashhab
	11	Dr. Osama Qalawi	32	Dr. Salim Najmeh
	12	Dr. Ahmed Awaked		
American University of Madaba	13	Dr. Fares Khoury	33	Dr. Nancy Refai
	14	Dr. Luai Jraisat	34	Dr. Assal Haddad
	15	Dr. Bushra Mahadin	35	Dr. Ghada Al-Bandak
Jerash Private University	16	Dr. Ghaith Jaradat	36	Dr. Mohammad Al-Hawari
	17	Dr. Mohammad Brak	37	Dr. Mu'ad Al-Kiyyam
	18	Dr. Joudy Al-Bataineh	38	Dr. Hani Hamad
	19	Dr. Ali Al-Sharafat	39	Dr. Abdullah Al- Badarneh
Jordan Environment Society	20	Eng. Majida Naser	40	Batool AbuHazeem
Leuphana University of Lüneburg	21	Dr. Simon Burandt	41	Marlene Mader

Institution	Stakeholders	
Ministry of Health	1	Dr. Mahmoud Darweesh
	2	Loay Salim Ibrahim
	3	Abdullah Heyasat
Ministry of Environment	4	Dr. Ahmad Abdellftah
	5	Dr. Indira Al-Dahabi
Water Authority	6	Nisreen El-Banna
EDAMA	7	Nadine Katkhuda

NCARE	8	Dr. Luna Al-Hadidi
	9	Mohammad Ali Mudaber
Jordan Engineers Association	10	Dr. Mohammad Yacoub Khawaj
Bladna association	11	Ali Mustafa Ali.
Arabtech Jordan	12	Shada El-Sharif.
RSS	13	Yazan Khrais.
Royal Administration for Environmental Protection	14	Nevin Yassin Dabbas.
National Academy of Environment	15	Abdul Karim Al-Jabaren.
Ramah Farmers Association	16	Bilal Farhan

2.1. Minutes of the 1st National training workshop

Topics discussed:

1. Introduction about the CLIMASP project: Objectives, stages, expected outcomes, budget, and importance.
2. The importance of stakeholders' engagement in the CLIMASP project.
3. Climate change in Jordan: Policy, strategies, laws, financing, stakeholders' responsibilities and involvement, the role of education institute and the media
4. The role of higher education institutes in sustainable development
5. Mapping of the courses to be included in the CIMASP minor program according to:
 - a. CLIMASP project guidelines
 - b. Higher education institutes regulations
 - c. Stakeholders' recommendations about students' competencies.

Conclusions and workshop outcomes

1. A survey was distributed among participating stakeholders to be filled in. Around (55) surveys were distributed and collected.
2. More stakeholders were identified and it was agreed upon that these stakeholders should be approached.
3. Each partner (University or NGO) has the responsibility of distributing 40 surveys among stakeholders to be filled in and completed before April 15th, 2014.
4. The media should be more involved in Climate change: who are the stakeholders, who are the vulnerable groups, what are the threats of climate change in Jordan, what has been done so far and what is needed more.
5. Partners' representatives were divided into three groups to discuss the courses to be included in CLIMASP minor program:
 - a. Group 1: Climate Change, Environment and Society;
 - b. Group 2: Climate Change, Economics and Public Policy; and
 - c. Group 3: Climate Change, Science and Technology.
6. Three models were suggested on how to design the program (course mapping) according to the CLMASP project and Jordan universities' regulations.

- a. Model I: all the students share two core courses, and the remaining courses are picked for the student's study plan.

Internship (6 credit hours (CR))		
<i>Climate Change, Environment and Society</i>	<i>Climate Change, Economics and Public Policy</i>	<i>Climate Change, Science and Technology</i>
Course 1	Course 1	Course 1
Course 2	Course 2	Course 2
.....
.....
Course 10	Course 10	Course 10
2 courses (3 CR each; 6 CR)	2 courses (3 CR each; 6 CR)	2 courses (3 CR each; 6 CR)
Core courses for all students: 2 basic courses (6 CR)		
Total: 30 CR		

- b. Model II: the courses are almost the same for all students

Internship 3CR		
Project 3 CR		
<i>Climate Change, Environment and Society</i>	<i>Climate Change, Economics and Public Policy</i>	<i>Climate Change, Science and Technology</i>
Energy and environment	Business law	Social ethics
Bio ethics	Principles of risk management	Marketing communication
Introduction to civil engineering	Corporate environment management	Contemporary issues in marketing
Introduction to ecosystems	Disaster and environment managment	Cultural development
X	Introduction to Economics	Science and Society
X	X	Crisis communication
3 courses out of 4 (3 CR each; 9 CR)	3 courses (3 CR each; 9 CR)	3 courses out of 6 (3 CR each; 9 CR)
Total: 33 CR		

- c. Model III: 8-12 courses (24-36 CR) are to be picked from the student's study plan, 3- 5 courses from the university elective courses, and 5-7 courses from the department courses.

Note: All of the courses are either dealing with climate change in their present format or should be re-oriented.

7. It was decided that the project coordinator from each university should pay a visit to the university's administration to discuss the three models and decided which model best fit the university regulations. In addition, there will be a meeting between the coordinators and a representative from the ministry of Higher Education and the Ministry of Environment.

Follow-up meetings:

1. Intra-University meetings:
Faculty members of each university from the different disciplines to map the course.
Either bi-weekly or monthly.
2. Inter-University meetings:
The project coordinator and three faculty members from each university to meet faculty members from other universities to discuss the suggested program plan.
Monthly
3. Regional workshop:
Faculty members from the different partners.
September or October. Amman, Jordan.

1st National training workshop, Lebanon

The first national training workshop in Lebanon took place at Notre Dame University Louaize from 17-18 March 2014, within the framework of the design phase of the CLIMASP project.

During the design phase of the project the input and integration of different stakeholders is of importance. In order to be able to plan courses for the CLIMASP minor programme, key stakeholders will be identified and their perspectives about anticipated impacts of climate change will be considered when identifying relevant competences students should gain to be able to tackle climate change at the regional level.

The first national training workshop invites a variety of stakeholders in the field of climate change issues with the aim to identify key sectors to be affected and the actions each country might propose in order to mitigate or adapt to such impacts. In order to bridge the potential gap between academic knowledge and societal and

economic needs, a close cooperation between lecturers and stakeholders in the CLIMASP programme is desired.

A design team will be set up at each partner university to guide the process.

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Additionally key stakeholders from relevant sectors will be invited, such as:

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2.1. Agenda of the 1st National training workshop

Day 1 – 17 March 2014	
9:30-10:00	Registration
10:00-10:30	Welcome and Introduction <ul style="list-style-type: none"> • Dr. Nancy Kanbar, CLIMASP Project Coordinator at NDU-Louaize • Dr. Aref Alsoufi, National Erasmus+ Office • Dr. Ghazi Asmar, Assistant Vice President for Research and Graduate Studies • Dr. Antoine Farhat, Interim Vice President for Academic Affairs
10:30-11:00	Session 1: Role of Government and Civil Society Moderator: Dr. Tanos G. Hage <ul style="list-style-type: none"> • Dr. Michel Afram, Director, Lebanese Agriculture Research Institute (LARI) • Dr. Ziad El Sayegh, CEO, Civic Influence Hub (CIH)
11:00-11:30	Coffee Break
11:30- 12:30	Session 2: Workshop for engaging stakeholders in climate change programs Moderator: Dr. Aravella Zachariou, Frederick University, Cyprus
12:30-14:00	Lunch Break
14:00- 16:00	Session 3: Climate Change from different perspectives Moderator: Dr. Talal Salem <ul style="list-style-type: none"> • Dr. Tanos G. Hage, Faculty of Natural And Applied Sciences, NDU-Louaize • Dr. Georges Labaki, Faculty of Law and Political Science, NDU-Louaize • Dr. Elsy Ibrahim, Faculty of Engineering, NDU-Louaize • Eng. Pierre El Haddad, Save Energy Plant Trees (S.E.P.T.), Faculty of Business Administration and Economics, NDU-Louaize • Dr. Jose Manuel Madrigal, School of Architecture & Interior Design, LAU • Dr Mohammad S. Al-Zein, School of Arts and Sciences , LAU • Dr. Mahmoud Wazne, School of Engineering, LAU • Dr. Nada Khoury, School of Architecture and Design, LAU

Day 2 – 18 March 2014	
10:00-10:15	Planning the multi-stakeholders engagement in the CLIMASP project Dr. Nancy Kanbar, Dr. Aravella Zachariou
10:15-11:00	Session 4: What is the purpose? <ul style="list-style-type: none"> • Give the rationale why stakeholder engagement is critical to the CLIMASP project • Identify what would be the implications of the stakeholder engagement
11:00-11:30	Coffee Break
11:30- 12:30	Session 5: Who to engage? <ul style="list-style-type: none"> • Create a list of relevant to CLIMASP stakeholders • Develop a framework for carrying a Stakeholder Analysis
12:30- 14:00	Lunch Break
14:00-15:00	Session 6: How to engage? <ul style="list-style-type: none"> • Choose a suitable method for encouraging stakeholders' engagement • Plan stakeholder engagement, including time, tasks and responsibilities, risks, etc.
15:00-16:00	Session 7: Assess the engagement process <ul style="list-style-type: none"> • Develop a framework for monitoring and assessing stakeholders' engagement
16:00	Closing session

2.1. List of participants 1st National training workshop

Institution	Project partners		
Notre Dame University	1	Dr. Nancy Kanbar	National CLIMASP coordinator
	2	Dr. Ghazi Asmar	Assistant Vice President for Research and Graduate Studies
	3	Dr. Antoine Farhat	Interim Vice President for Academic Affairs
	4	Dr. Talal Salem	Faculty of Engineering
	5	Dr. Sophia Ghanime	Faculty of Engineering
	6	Dr. Elsy Ibrahim	Faculty of Engineering
	7	Dr. Tanos G. Hage	Faculty of Natural And Applied Sciences
	8	Dr. George Labaki	Faculty of Law and Political Science
	9	Eng. Pierre El Haddad	Save Energy Plant Trees (S.E.P.T.), Faculty of Business Administration and Economics,
Lebanese American University	10	Dr. Jean Chatila	School of Engineering
	11	Dr. Mahmoud Wazne	School of Engineering
	12	Dr Mohammad S. Al-Zein	School of Arts and Sciences
	13	Dr. Jose Manuel Madrigal	School of Architecture and Design
	14	Dr. Nada Houry	School of Architecture and Design
Frederick	15	Dr. Aravella Zachariou	

University, Cyprus			
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Institution	Stakeholders		
National Erasmus+ Office	16	Dr. Aref Alsoufi	
	17	Dr. Amer Helwani	
Lebanese Agriculture Research Institute	18	Dr. Michel Afram	Director
Civic Influence Hub	19	Dr. Ziad El Sayegh	CEO
Representative from the Ministry of Environment of Lebanon			
Other faculty members joined from NDU to attend different sessions			
Students from NDU joined at different sessions			

2.1. Minutes of the 1st National training workshop

A national training workshop on the development of an interdisciplinary program on climate change and sustainability policy was organized by the Notre Dame University-Louaize (NDU) on 17 and 18 March in Zouk Mosbeh, Lebanon. The workshop was prepared by the CLIMAtE change and Sustainability Policy (CLIMASP) team working on the CLIMASP project which is funded under the EU Tempus programme. The CLIMASP project involves 16 partners from 6 countries: Greece, Cyprus, Germany, Lebanon, Egypt and Jordan.

The University of Crete is the project coordinating institution; it has been awarded a grant of over one million euros to implement this three-year project (2013-2016). The CLIMASP project involves 16 partners from the above countries. The two partners from Lebanon are: the Notre Dame University-Louaize and the Lebanese American University.

The main objective of the project is to train university teaching staff and key administrators for interdisciplinary collaboration in developing educational programs related to climate change and sustainable practices that are responsive to the society's needs. Specifically, it aims to integrate and implement the CLIMASP program as an integral part to existing undergraduate academic degrees in disciplines such as education, applied sciences, engineering, economics/business, political and social sciences.

The workshop involved university staff and other key stakeholders (mainly students, NGOs, government and research institutions) to discuss the processes and practices for the stakeholders' involvement in the CLIMASP program and to identify and analyze the barriers and drivers of stakeholders' inputs to interdisciplinary curriculum development. The workshop aims to promote the interdisciplinary nature of the climate change issue.

The networking event brought together industry professionals with researchers, academics and civic society to reinforce mutually beneficial partnerships through a

dialogue among stakeholders in different thematic areas of expertise. Participants shared their knowledge, explored links between climate change research in the different academic disciplines, as well as developed an understanding of how research and curriculum improvement could create synergies that help addressing societal challenges in Lebanon and in the region. This is vital to social development, as well as economic and environmental sustainability.

Welcome and introduction session

Dr. Nancy Kanbar

The workshop started with a welcome note by Dr. Nancy Kanbar, institutional coordinator of the CLIMASP project at NDU. A brief introduction about the project, its objectives, partners, components, work packages and main outcomes were presented.

Dr. Aref Al-Soufi

Dr. Aref Al-Soufi (National Erasmus+ Office) gave an overview of the different projects funded by the National Erasmus+ Office in Lebanon. CLIMASP is one of 12 projects selected last year involving partners from Lebanon following the 6th call for proposals which was the last call under Tempus IV. These involved 12 institutions of higher education from Lebanon in addition to 5 partners and two ministries. The projects covered a wide range of fields like students' services, distance learning, climate change, applied health sciences, tuning, teaching and research environment, institutional management and internationalisation, employability, traffic engineering, organ donation and transplantation, open source software development, and Mediterranean agriculture. Dr. Al Soufi indicated that NDU is involved in 4 of these projects and the LAU is involved in 2 projects.

Dr. Al Soufi mentioned that CLIMASP is relevant to higher education in Lebanon since it responds to societal needs. As part of the Mediterranean region, Lebanon is suffering in different ways from the consequences of the climate change. It needs to construct sustainable practices to protect its environment. The project contributes to the capacity building of the two universities involved: NDU and LAU. The establishment of an international network of CLIMASP Studies could have an impact beyond the consortium involved in the project. Dr. Al Soufi indicated that CLIMASP slightly complements the RUCAS project which addressed sustainability across the curriculum and which was led by the same EU coordinator (University of Crete).

Dr. Al Soufi seized the opportunity to reconfirm the commitment of the EU to the modernization of higher education. The EU believes more than ever in the role that the university can play in the development of societies, in its economic growth and in fighting unemployment. This is clearly reflected by the introduction of the new Erasmus+ programme. Also, he showed the support of his office to the CLIMASP project and to the launching of this workshop. He also gave the participants some advices to run the project.

Dr. Ghazi Asmar

As Assistant Vice President for Research and Graduate Studies at NDU, Dr. Asmar welcomed the participants. He explained that NDU is currently seeking accreditation and therefore establishing such programmes that are responsive to the society's needs

is much needed and timely. He gave an overview of the main projects that NDU is currently involved in.

Dr. Antoine Farhat

As Interim Vice President for Academic Affairs at NDU, Dr. Farhat welcomed the participants and talked about the importance of increasing awareness towards climate change as it is affecting each individual. He explained that the project will have an impact at the institutional level and at the national level as well.

Session 1: Role of government and civil society

This session was moderated by Dr. Tanos G. Hage who introduced the two speakers: Dr. Michel Afram, Director, Lebanese Agriculture Research Institute (LARI) and Dr. Ziad El Sayegh, CEO, Civic Influence Hub (CIH).

Dr. Michel Afram

Dr. Afram introduced the Lebanese Agricultural Research Institute (LARI). He explained the science of climate change and its adverse consequences on humans and the environment. He mentioned that we live in a changing world. After globalization and the changing environment and climate, we are now also facing a food crisis and financial or economic crisis. These changes are affecting our lives in many different ways. Food security will continue to be the major challenge for the international community. He also explained that most countries in the dry areas are facing increasing water scarcity. The Middle East is among the world's most water scarce regions. Future projections of population growth indicate a further decrease in per capita water resources. In the Middle East and North Africa, for example, current per capita renewable water resources (1100 m³/year) are projected to drop to 550 m³ per year by 2050, which will trigger a higher water withdrawal rate with both ecological and human livelihood implications. He emphasized the fragility of the ecosystems in the dry areas. With climate change, it is expected that water resources will be negatively affected and drought will intensify in the region. Thus, he commanded all the partner institutions for starting the CLIMASP project.

Dr. Ziad El Sayegh

As the CEO for the Civic Influence Hub (CIH), Dr. El Sayegh explains that CIH is a pressure group established in 2012 trying to be a catalyst of a dynamic of change, working to build a new vision for Lebanon. Sustainable socio - economic policies, efficient operating system and good governance, participatory approach in the decision-making process are key issues for CIH. He indicated that the strategic choices for CIH are focused into three dimensions:

- Operating System: Respect of the Constitution / Laws Implementation / Good Governance
- Economic Policies: Water / Electricity/ Transportation / Gas & Oil
- Social Policies: Pension / Social Protection Policies / Refugees
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Dr. El Sayegh explained that all economic indicators are warnings of a looming crisis. Thus, there is an urgent need for new socio-economic policy approaches in Lebanon. He explained the philosophy of the “Federative Economy” put forward by the CIH as one of the most solid approaches that will help establish a system of social cohesion

enhanced on the basis of shared economic prosperity. It will strengthen commonalities among Lebanese, and will foster areas where cooperation in the public sector, private sector, and civil society can occur. This will help restore the link between the state and the public and emphasize the importance of moving from politics to policies. These policies aim at meeting the population needs through engaging civil society to put forward positive initiatives and adopt a sense of accountability. Other objectives of the federative economy were highlighted: launching a public-private-citizen partnership, establishing regulatory standards to promote competition and investment, ensuring regulated administrative decentralization, and providing common grounds for citizens on the basis of shared values. As such, the federative economy offers the promise of cooperation between policymakers, the private sector, and civil society, based on the principle of common public interests. CIH works towards the mobilization of creative, scientific, technical, legal, financial, administrative, and supervisory skills to develop comprehensive policies and ensure their sustainable implementation. Examples include: job creation policies, social protection mechanisms, investments in education, health care, and social security.

Dr. El Sayegh showed a short video about the first CIH national initiative “BLUE Gold”, a five-year water sector management plan in Lebanon. According to this plan, water is seen as a right and a national wealth (and not as a good). BLUE Gold was launched in December 2013. From the water perspective, Dr. El Sayegh explained the importance of the CLIMASP project. He indicated that water is the most essential resource for life. With the increased pressures on ecosystems and natural resources, water resources management is becoming one of the most important challenges facing the world. The demand for water resources of sufficient quantity and quality for human consumption, sanitation, agricultural irrigation, and manufacturing will continue to intensify as population increase and as global urbanization, industrialization, and commercial development accelerate. In Lebanon, water resources are under stress due to the growing problems facing the sector at all levels such as: legislative, administrative, technical and financial. As such, the sustainable development and improvement of the water sector in Lebanon should be considered as a national priority. Projects such as Blue Gold and CLIMASP should be developed collaboratively involving all concerned stakeholders. Dr. El Sayegh was open to discussions that followed his presentation. Also, he offered any needed help for the partner institutions to implement the CLIMASP project. CIH can help in various ways; mainly in developing and supervising capstone courses that are required for students enrolled in the CLIMASP minor.

Session 2: Workshop for engaging stakeholders in climate change programs

Dr. Aravella Zachariou

Dr. Zachariou (from Frederick University, Cyprus) dedicated her presentation about planning the multi-stakeholders engagement in the CLIMASP project. This part of the workshop was attended by all the stakeholders that were invited to participate (students, faculty members, staff, governmental bodies, NGOs, etc). Essentially, Dr. Zachariou explained the key steps and actions needed for the multi-stakeholders engagement in CLIMASP.

- Step 1: What is the purpose?
- Step 2: Who to engage?
- Step 3: How to engage?

- Step 4: Assess the engagement process

Session 3: Climate change from different perspectives

Moderator: Dr. Talal Salem

- Dr. Tanos G. Hage, Faculty of Natural And Applied Sciences, NDU-Louaize
- Dr. Georges Labaki, Faculty of Law and Political Science, NDU-Louaize
- Dr. Elsy Ibrahim, Faculty of Engineering, NDU-Louaize
- Eng. Pierre El Haddad, Save Energy Plant Trees (S.E.P.T.), Faculty of Business Administration and Economics, NDU-Louaize
- Dr. Jose Manuel Madrigal, School of Architecture & Interior Design, LAU
- Dr Mohammad S. Al-Zein, School of Arts and Sciences , LAU
- Dr. Mahmoud Wazne, School of Engineering, LAU
- Dr. Nada Khoury, School of Architecture and Design, LAU

During the afternoon session of the first workshop-day, the participants were offered presentations from faculty members from the different disciplines (education, economic, engineering, environment, health) in the two partner universities: NDU and LAU. Each presenter explained the content of his / her course and then discussed how the course modules he has prepared will reflect the CLIMASP aims and how the course discipline can connect with other courses in different faculties.

During this session, faculty members reflected on the cross-referencing of courses and the needs to be covered by different academic disciplines. Many questions were raised; such as: Why a student of engineering studying climate change in his/her domain, could take as an option a course from another faculty like economics and social sciences? What kind of competences engineers need from a social sciences perspective? These questions were examined the next day of the workshop.

This session concludes with an agreement on:

- The observed and anticipated impacts of climate change on the identified key sectors to be affected and the actions Lebanese might propose in order to mitigate or adapt to such impacts and,
- The competences needed to tackle climate change.
- The need to use a variety of participatory methods to stimulate experiential learning (mapping and feedback) and stakeholders active engagement on how climate change could affect or is affecting the key sectors Lebanon.

Session 4: What is the purpose?

- Give the rationale why stakeholder engagement is critical to the CLIMASP project
- Identify what would be the implications of the stakeholder engagement

In this session, the presenters (Dr. Kanbar and Dr. Zachariou) explained the purpose of stakeholders' engagement. In essence, they highlighted the efforts that are undertaken from an organization, a researcher, a company etc., to understand and involve stakeholders in its activities and decisions. The efforts that are undertaken for

establishing partnerships and networks with all the interested parties and individuals in order to:

- Gather information and spot trends that may impact the activities,
- Improve transparency and build trust of individuals or groups whose support is critical to an organizations' long-term,
- Establish innovation and organizations' long-term success,
- Spark organizational change needed to meet new challenges and opportunities.

Session 5: Who to engage?

- Create a list of relevant to CLIMASP stakeholders
- Develop a framework for carrying a Stakeholder Analysis

In this session, faculty members identified the relevant CLIMASP stakeholders. Different categories were identified, mainly:

- Universities (key administrators, expert staff in the field of sustainability and climate change, student representatives, alumni representatives);
- Public sector (policymakers and experts with responsibilities and interests in climate change, especially from concerned ministries, rural development, tourism, agriculture, fishery, community and social development, etc.);
- Private sector (trade unions, professional associations, tour companies, etc.);
- NGOs and community-based organizations working with the key sectors to be affected by climate change.

A framework was developed to carry stakeholder analysis. The framework revolved around the three questions below:

- What are the roles to be played by the stakeholders in the different phases of the project?
- What are the perceived barriers and drivers?
- What are the risks if they are not engaged?

Session 6: How to engage?

- Choose a suitable method for encouraging stakeholders' engagement
- Plan stakeholder engagement, including time, tasks and responsibilities, risks, etc.

After creating a list of whom are the stakeholders to engage in CLIMASP, workshop participants brainstormed on the best method to encourage stakeholders' active engagement; such as interviews, focus groups, survey questionnaires, web, etc. Also, they thought of the phase of the project at which the engagement will take place and what activities should be acquired to ensure an efficient stakeholders' engagement. In this session, workshop participants defined the competences that students enrolled in CLIMASP minor would need, they thought of the implementation of the CLIMASP program, including the accreditation and authorization of the minor within their own institution. Also, they examined the changes to institutionalize and disseminate the results of the project.

Session 7: Assess the engagement process

The purpose of the last session is to develop a framework for monitoring and assessing the stakeholders' engagement process. After listing the questions of how to assess the engagement of the stakeholders, the participants in the workshop described the activities that ensure and assess the stakeholders' engagement in each phase of the project.

Closing session

The workshop succeeded in promoting the CLIMASP project and in highlighting the interdisciplinary nature of the climate change challenge. The different brain-storming sessions were successful in:

- Identifying climate change threats and opportunities at the country level, taking also into consideration the identified sectors in the kick-off meeting in Athens.
- Spotting competences that are required to prepare university graduates from various faculties to tackle climate change in Lebanon.
- Examining the impacts of climate change on the sectors of the expertise of the different workshop participants – for example, agriculture, trade, fishery, tourism, water resources, etc.
- Discussing an updated list of the relevant courses related to CLIMASP in each partner institution, based on the initial mapping of the courses that was done prior to the workshop.
- Planning response measures to climate change impacts at the community and national levels.
- Suggesting national policies, strategies and laws that support climate change adaptation.

Photos from the workshop sessions



Opening Session. From left to right: Dr. Nancy Kanbar (CLIMASP project coordinator , NDU), Dr. Aref Al-Soufi (National Erasmus+ office), Dr. Ghazi Asmar (Assistant Vice President for Research and Graduate Studies, NDU), Dr. Antoine Farhat (Interim Vice President for Academic Affairs, NDU)



A group of students filling in questionnaires



Faculty members from NDU and LAU identifying competences required for CLIMASP minor



Participants planning the multi-stakeholders engagement in the CLIMASP project