



ERASMUS+ PROGRAMME

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Project Title:

**Development of Environmental Engineering Courses and Injection of Climate
Change Concept for Undergraduate Curriculum
(EGREEN)**

Final Conference of EGREEN Project

March 11, 2020

Muhammad Ali Bdair Auditorium/ Presidency Building

The University of Jordan

Amman, Jordan



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of the European Union

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Conference Summary

The final conference of Egreen Project was held by the University of Jordan under the patronage of H.E. Dr. Saleh Al-Kharabsheh, Minister of Environment, on March 11, 2020 at The university of Jordan campus.

The purpose of the conference was to facilitate the exchange of knowledge, experiences and best practices in the context of the water, energy and environment. In addition; to improve the collaboration and dialogue between universities and other sectors.

The conference was attended by high-ranking officials including the Minister of Environment, President of the University of Jordan, President of the Jordan University of Science and Technology, the Director of the National Erasmus+ office, and the representative of the EU Delegation in Jordan. In addition, the deans of different faculties were also present in the conference.

More than 100 registered participants (Appendix 1) attended the conference representing more than 39 entities, including governments, universities, companies, funding agencies, associations, media and non-governmental organizations.

The agenda (Appendix 2) included keynote speeches from highly ranked experts in the field of Environment, Water, and Energy (See Appendix 3 for presentations).

The conference evaluation (Appendix 4) indicates a very positive impact of the conference on different stakeholders

Many press releases (news release in UJ website and official media agencies, newspapers, media release in TV and Radio, and a recorded video of the opening ceremony) for the final conference were published (Appendix 5), before the conference to attract participants, during the conference, and after the conference to disseminate the information and conclusions. (See Appendix 6 for photos).

The Address by H.E. Minister of Environment

Your Excellency, President of the University of Jordan, Professor Dr. Abdul Karim Al-Qudah

His Excellency Mr. Omar Abu Eid, Representative of the European Union Delegation

Ladies and gentlemen, our students

Peace, mercy and blessings of God Almighty

Allow me at the outset to extend my thanks and appreciation to all those responsible for preparing the project and the studies resulting from it.

Dear participants

The sixth UN report published in 2019 indicated that more than 90% of the world's population is at risk of pollution, which causes the deaths of more than 9 million people annually. This report also indicates that a quarter of premature deaths and diseases in the world are related to environmental violations committed by humans, especially pollution caused by means of transportation and industrial production, and fuel used in heating, indicating that the increase in greenhouse gas emissions (warming) will increase the severity of droughts and storms, and unfortunately, The study indicates that the majority of deaths due to pollution, that is, about 92%, are in poor or middle-income countries. Pollution and the rapid deterioration of ecosystems and biological diversity affect and will negatively affect the global societal and economic system.

These numbers and statistics require us all to stand together and join efforts to reduce pollution and the rapid deterioration of ecosystems. From this platform, I encourage you, my children, students to participate and contribute actively. You are the future and your participation has several aspects, among which I mention your contribution to research and awareness, transfer of experiences and acquisition of environmental concepts such as green economy, conservation of ecosystems, biological diversity, waste management and many others.

Jordan has always been a pioneer and a leader in environmental action despite the many challenges that Jordan and the region faced in light of the unstable political situations and the accompanying increase in the population by about 20%, which constituted a burden on economic resources and an additional increasing pressure on infrastructure and limited natural resources.



Jordan also followed up on all the resulting international agreements, mechanisms and response strategies, and in relation to climate change, Jordan signed the ambitious Paris Agreement in 2016, which includes clauses in climate justice, bearing climate responsibility, and commitment and continuous international cooperation in achieving what benefits all countries of the world in mitigation efforts and efforts to adapt to the effects of climate change.

Jordan works in partnership with all government agencies, representatives of civil society, the private sector and even individuals, determined and willing to play a key role in this global effort. And that it is always a pioneer in adopting the universal values of development, human rights and sustainability and working as a model in implementing these values.

In the context of our tireless work on institutionalizing environmental work and countering the effects of climate change, we commend all those who participated in the work of your fruitful project aimed at developing environmental engineering courses and introducing the concept of climate change in the university curriculum for future generations, we consider universities as one of the most important primary partners for developing our future needs, it is home to leading research and there are various educational programs and seminars headed by experts, and it is the most appropriate place to understand climate change and reduce it and build a sustainable future.

Because environmental action and climate change in particular depends on scientific efforts, building experiences in this country is the basic building block for understanding and resisting the effects of climate change and building environmental solutions towards protecting our ecosystems. Always, experts are responsible for analyzing the extent of global warming, and the contribution of people to it. Researchers in other fields participate in highlighting the scale of the problem and discovering solutions, such as studying behaviors, changing social and economic structures, and finding the best way to connect with and educate societies.

We work in Jordan in harmony in all fields, from environmental awareness and rehabilitation of environmental systems and in the climate change file. The Ministry of Environment has issued legislation represented by the climate change system, which establishes and confirms the participation of all concerned parties within it at the national level.



Our need comes to integrate environmental needs and climate change in university curricula as it is the place that depends on exchanging ideas and creativity in creating solutions and it is one of the distinguishing features of the power of higher education, represented by open forums where diverse ideas are heard and discussed, so the university can start important talks on climate change.

We are confident that through you and through your cooperation and all representatives of the supporting bodies and other ministries, we will be able to achieve success stories in environmental action and climate change that will motivate us to repeat them.

In conclusion, I wish you success in achieving the desired goals in the production of future leaders who are able to implement climate change plans, including recommendations and wise decisions that lay the solid foundations for a fair and comprehensive response and achieve sustainable development and balance in all the elements necessary for the advancement of our societies and raising the services provided to the citizens living Within it.

Peace, mercy and blessings of God



List of Appendices

Appendix 1. Conference Participant List

Signed attendance sheet is available [online](#).

| | University/organization Name | Your Title | Your name | Your Position | Your email | Your mobile number |
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Appendix 2. Conference Agenda

Wednesday
March 11, 2020

| | |
|--|---|
| 09:00-10:00 | Registration of participants |
| Opening Session | |
| 10:00-10:45 | <ul style="list-style-type: none"> • Welcome by EGREEN Coordinator, Prof. Ahmed Al-Salaymeh, The University of Jordan, • Welcome by Prof. Ahmad Abu-El-Haija, Director of The National Erasmus+ office, • Welcome by Mr. Omar Abu Eid, EU Delegation in Jordan, • Welcome by H.E. Prof. Abdel-Karim Al-Qudah, President of The University of Jordan, • Welcome by H.E. Dr. Saleh Al-Kharabsheh, Minister of Environment |
| 10:45-11:00 | Coffee break and Group photo |
| Session 1 Keynote Presentations | |
| Chairman: Prof. Ahmed Al-Salaymeh, UJ | |
| 11:00-11:20 | Dr. Dureid Mahasneh, Chairman of EDAMA Association Water-Energy-Environment Triangle |
| 11:20-11:40 | Prof. Radwan Al-Weshah, Dean of Scientific Research at University of Jordan Flash Floods Risk and Climate Change in Jordan |
| 11:40-12:00 | Eng. Fadi Marji, Marji Group Feasibility of Solar Rooftop PV Projects in Jordan & the GCC |
| 12:00-12:20 | Prof. Suhil Kiwan, Jordan University of Science Technology Prospective of Renewable Energy in Jordan |
| 12:20-12:40 | Dr. Osama Ayadi, University of Jordan Toward a Green Campus at the University of Jordan |
| 12:40-13:00 | Break |
| Session 2 Keynote Presentations | |
| Chairman: Dr. Alaaldeen Al-Halhouli (GJU) | |
| 13:00-13:20 | Prof. Abbas Al-Omari, University of Jordan Nature Based Solutions for Domestic Water Reuse in Mediterranean Countries (NAWAMED Project) |
| 13:20-13:40 | Dr. Muna Hindiyeh, German Jordanian University Water Human Right: Case Study Water Disi Project/Jordan |
| 13:40-14:00 | Prof. Ahmed Al-Salaymeh, University of Jordan EGREEN Project Outcomes and Impact |
| 14:00-15:00 | Lunch and Networking |



Session 3

Project Implementation presentation by Partner universities in Jordan and Syria

Chairman: Prof. Omer Maaitah

| | |
|-------------|--|
| 15:00-15:15 | P1: The University of Jordan, by Prof. Ahmed Al-Salaymeh |
| 15:15-15:30 | P2: German Jordanian University by Dr. Muna Hindyeh |
| 15:30-15:45 | P3: Al Albayt University by Dr. Mo'ayyad Shawaqfah |
| 15:45-16:00 | P4: Al-Zaytoonah University of Jordan by Dr. Loai Dabbour |
| 16:00-16:15 | P5: Mutah University by Prof. Omer Maaitah |
| 16:15-16:30 | P6: Jordan University of Science and Technology by Prof. Fahmi Abu Al-Rub |
| 16:15-16:30 | Conclusions and Recommendations |



Appendix 3. Presentation from Keynote Speakers Slides

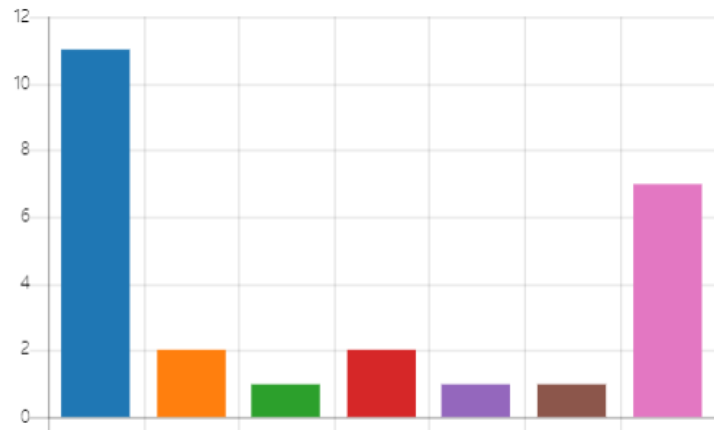
The presentations are available [online](#).

Appendix 4. Conference Evaluation

The following summarizes the main findings of the evaluation surveys:

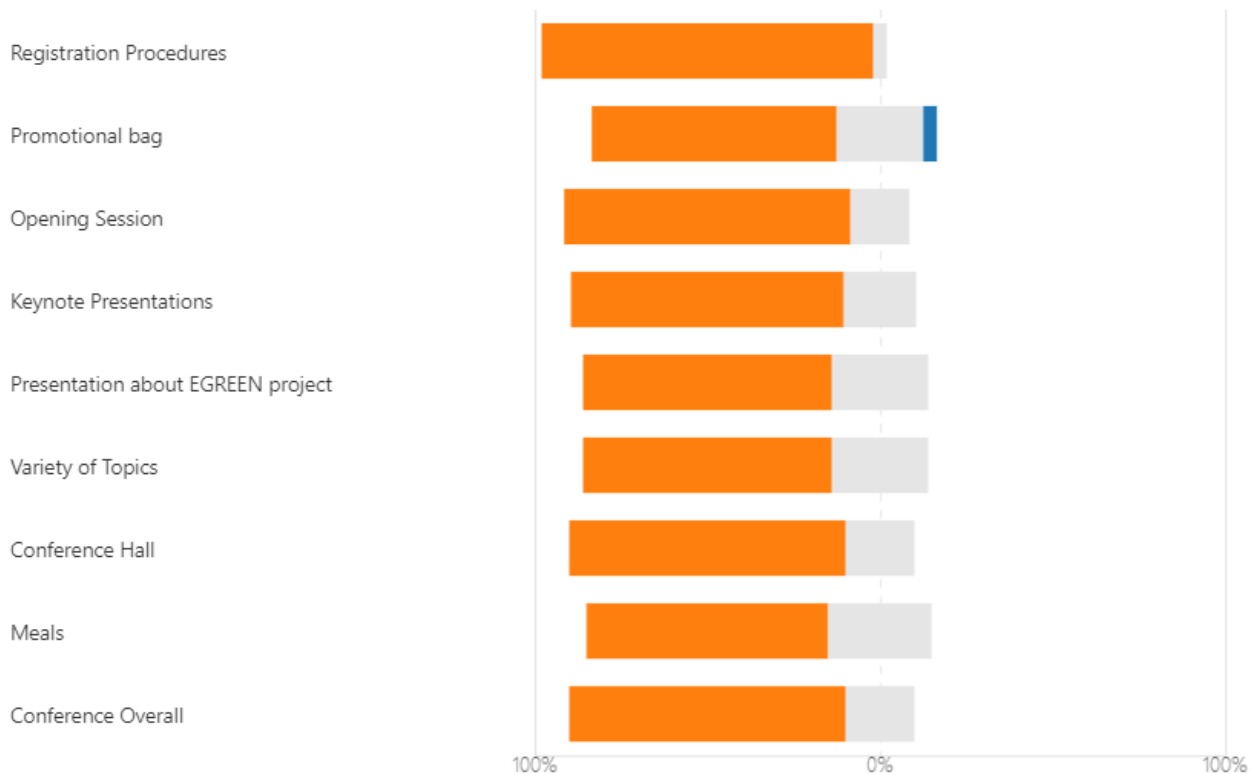
1. University/organization Name

| | |
|---|----|
| ● P1: The University of Jordan, UJ | 11 |
| ● P2: German Jordanian Universi... | 2 |
| ● P3: Al al-Bayt University (AABU) | 1 |
| ● P4: Al-Zaytoonah University of... | 2 |
| ● P5: Mutah University (Mutah) | 1 |
| ● P6: Jordan University of Scienc... | 1 |
| ● Other | 7 |



3. Please rate your level of satisfaction

■ Excellent
 ■ Satisfactory
 ■ Poor



4. What part of the conference was most valuable to you?

| | | |
|----|-----------|---|
| 1 | anonymous | The presentations |
| 2 | anonymous | Keynote presentations |
| 3 | anonymous | The part of water use techniques to adapt climate change |
| 4 | anonymous | energy part |
| 5 | anonymous | Opening Session and First Session |
| 6 | anonymous | floods and climate change |
| 7 | anonymous | First session |
| 8 | anonymous | all of it |
| 9 | anonymous | All parts |
| 10 | anonymous | All Presentations |
| 11 | anonymous | Jordan University Solar Project |
| 12 | anonymous | all |
| 13 | anonymous | session 2 water human right |
| 14 | anonymous | Conference Overall |
| 15 | anonymous | Suhail Kiwan, Renewable, integration of Energy, Environment and Water |
| 16 | anonymous | Renewable Energy & Climate Change in Jordan & Nature Based Solution for Domestic Water Reuse in Mediterranean Countries |
| 17 | anonymous | Keynote speeches |
| 18 | anonymous | All the sessions had been great and interesting |
| 19 | anonymous | The future challenges of energy and water |
| 20 | anonymous | All |

5. Did the conference cover material that will be useful in your work?



| | |
|---------|----|
| ● Yes | 23 |
| ● No | 0 |
| ● Maybe | 2 |



6. What presenters/speakers would you like to see next time?

| | | |
|----|-----------|--|
| 1 | anonymous | All of them |
| 2 | anonymous | Muna Hindiya |
| 3 | anonymous | suhil kiwan |
| 4 | anonymous | Dr.Duraïd Mahasneh. |
| 5 | anonymous | Presenters like Dr. Duried Mahasneh, Dr. Suhil Kiwan |
| 6 | anonymous | all of it |
| 7 | anonymous | Dr ahmed Alsalaymeh |
| 8 | anonymous | Dr. Suhail Kiwan |
| 9 | anonymous | Dr. Duried, Dr. Kiwan, Dr. Ayadi |
| 10 | anonymous | Renewable energy experts and specialists |
| 11 | anonymous | Dr.muna hindiyeh |
| 12 | anonymous | Sahil Kiwan |
| 13 | anonymous | All were excellent |
| 14 | anonymous | Dr.mahasneh, Dr.salaymeh, Dr.kiwan |

7. Additional comments?

| | | |
|----|-----------|--|
| 1 | anonymous | I have attended a lot of conferences, this one is the best so far in speakers and content. Thank you |
| 2 | anonymous | Thank you for your efforts |
| 3 | anonymous | Thanks To Dr.Ahmed Salaymeh on the Great Efforts |
| 4 | anonymous | I would like to participate as I teach environmental science and would like to improve it by incorporating climate change in cooperation with Egreen |
| 5 | anonymous | Great team and very well organized conference |
| 6 | anonymous | nothing |
| 7 | anonymous | Please keep it up. |
| 8 | anonymous | Thanks |
| 9 | anonymous | more students participation |
| 10 | anonymous | Perfect conference |
| 11 | anonymous | I want to get a certificate for attending this important conference because I want to apply for a scholarship to study for a master's degree in environmental engineering. This certificate is important to me. |
| 12 | anonymous | The idea is great, cooperation with educational institutes with international and private sector |
| 13 | anonymous | I prefer that the conference be held periodically , so that to always kept up to date for the latest scientific research and developments on topics related to climate change, renewable energy and recycling of water use to preserve the environment |
| 14 | anonymous | Thank you |
| 15 | anonymous | We would like to send the materials of the conference with best wishes and thanks for organizers |

Appendix 5. Conference media coverage

| | |
|--|--|
| <p>The News Agency: University of Jordan website</p> | |
| <p>Title: The closing conference of EGREEN project kicks off in Jordan tomorrow morning</p> | |
| <p>Date of publication: Tuesday, March 10, 2020</p> | |
| <p>The Link: http://ujnews2.ju.edu.jo/Lists/News/DispFormNews1.aspx?ID=10841</p> | |

| | |
|--|--|
| <p>The News Agency: Alwakaai Electronic newspaper</p> | |
| <p>Title: The closing conference of EGREEN project kicks off in Jordan tomorrow morning</p> | |
| <p>Date of publication: Tuesday, March 10, 2020</p> | |
| <p>The Link: http://www.alwakaai.com/post.php?id=370589</p> | |

| | |
|--|--|
| <p>The News Agency: University of Jordan website</p> | |
| <p>Title: The start of the closing conference of the EGREEN project in Jordan</p> | |
| <p>Date of publication: Wednesday, March 11, 2020</p> | |
| <p>The Link: http://ujnews.ju.edu.jo/Lists/News/DispFormNews1.aspx?ID=10846</p> | |

| |
|---|
| The News Agency: Petra News Agency website and Facebook page |
| Title: Environment Minister: Jordan is a pioneer for environmental action despite the challenges |
| Date of publication: Wednesday, March 11, 2020 |
| The Link: https://petra.gov.jo/Include/InnerPage.jsp?ID=130264&lang=ar&name=news&fbclid=IwAR18I-xhaaYs_mv96Y0jKO_JMSxtUUOa3rfrsuEaVqqNk9gv-vaWcfBPrlk https://www.facebook.com/petranews/photos/a.10150326010744049/10158006450229049/?type=3&theater |

| |
|--|
| The News Agency: Alrai Newspaper |
| Title: The start of the closing conference of the EGREEN project in Jordan |
| Date of publication: Wednesday, March 11, 2020 |
| The Link: http://alrai.com/article/10527590/ |

The News Agency:
Facebook page of the Ministry of Environment

Title:
Environment Minister: Jordan is a pioneer for environmental action despite the challenges

Date of publication:
Thursday, March 12, 2020

The Link:
<https://www.facebook.com/MoENVJo/photos/a.1620633301507574/2743216812582545/?type=3&theater>



The News Agency:
Almadenah news

Title:
Environment Minister: Jordan is a pioneer for environmental action despite the challenges

Date of publication:
Wednesday, March 11, 2020

The Link:
<https://www.almadenahnews.com/article/814168>



The News Agency:
Nayrouz news

Title:
Environment Minister: Jordan is a pioneer for environmental action despite the challenges

Date of publication:
Wednesday, March 11, 2020

The Link:
<https://www.nayrouz.com/post.php?id=144084>





| | |
|---|--|
| <p>85%D9%8A- %D9%84%D9%85%D8%B4%D8%B1%D9%88%D8% B9-egreen-%D9%81%D9%8A- %D8%A7%D9%84%D8%A3%D8%B1%D8%AF%D9% 86%D9%8A%D8%A9-.html</p> | |
|---|--|

Appendix 6. Photos

Photos are available [online](#)



