



ERASMUS+ PROGRAMME
Project Number: 573927-EPP-1-2016-1-JO-EPPKA2-CBHE-JP

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

**Agenda
of
The sixth Steering Committee Meeting
and Training Workshops**

**The University of Jordan
Amman-Jordan**

December 17-20, 2018



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<p style="text-align: center;">Day 1 Tuesday, December 18, 2018 STC meeting</p>	
8:30-09:00	Registration
09:00-09:30	<p>Welcoming Presentation on the progress of EGREEN Project by the General Coordinator of the Project, Prof. Ahmed Al-Salaymeh</p> <ul style="list-style-type: none"> ✓ Status of Work packages ✓ Strategy for implementation
<p>Session (1-A) Chaired by Prof. Martin Kaltschmitt (TUHH)</p>	
9:30-10:00	<p>WP3: Development of Study Plan and Curricula Action plan by Prof. Salman Ajib (OWL-UAS)</p> <ul style="list-style-type: none"> ✓ Presenting the final outline for the 13 courses including ECTS component ✓ Plan for Detailed Design of Pilot Courses ✓ Pilot courses implementation ✓ Accreditation of New Curricula ✓ Establishment of Environmental labs ✓ Monitoring and Feedback Methodology and Reports (Quality plan)
10:00-10:30	<p>WP4: Development of Online Content and Competencies by Dr. Eduardo Cardoso (UCP)</p> <ul style="list-style-type: none"> ✓ EGREEN e- Learning Environment ✓ Adopted teaching methodologies ✓ Piloting phase ✓ Next training workshop
10:30-11:00	<p>WP5: Capacity Building by Prof. Martin Kaltschmitt (TUHH)</p> <ul style="list-style-type: none"> ✓ Development a Capacity Building Programme ✓ Plan for Academic Visits to EU Partners ✓ Plan for Students Visits to EU Partners ✓ Plan for EU visits to Jordan/Syria ✓ Plan for local Training Workshops in environment in Jordan and Syria
<p>Session (1-B)</p>	
9:30-11:00	<p>ToT Session, Title: Water Related Courses Prof. Joachim Fettig (HS-OWL)</p>
11:00-11:30	Coffee Break + Group Photo
<p>Session (2-A) Chaired by Prof. Salman Ajib</p>	
11:30-12:00	<p>WP1: Networking by Prof. Fahmi Abu Al-Rub (JUST)</p> <ul style="list-style-type: none"> ✓ Final list of members



	<ul style="list-style-type: none"> ✓ Action plan to enhance networking benefits and engage Stakeholders
12:00-12:30	<p>WP7: Dissemination and Sustainability by Prof. Adnan Ghata (ABU) & Eng. Eman (ZUJ)</p> <ul style="list-style-type: none"> ✓ Conducted activities ✓ Action plan to implement next activities ✓ Next issue of newsletter ✓ Project website
12:30-13:00	<p>WP6: Monitoring and Evaluation by Prof. Alaaldeen Al-Halhouli (GJU)</p> <ul style="list-style-type: none"> ✓ Evaluation surveys for the conducted training workshops ✓ Quality and impact survey for piloting phase ✓ Quality tools (checklist) to review produced teaching material ✓ External Evaluation ✓ Prepare and submit Progress reports
Session (2-B)	
11:30-13:00	<p>ToT Session, Title: Environmental Monitoring Systems Prof. Burkhard Wrenger (HS-OWL)</p>
13:00-13:30	Snack Break
Session (3-A) Chaired by Prof. Burkhard Wrenger (HS-OWL)	
13:30-13:50	<p>Cluster 1: Water Resources Engineering including non-conventional water recourses By Dr. Mo'ayyad Shawaqfah (AABU), Prof. Adnan Ghata (ABU) (Arabic Version) Prof. Joachim Fettig (HS-OWL), Dr. Paulo Baptista (P&B)</p>
13:50-14:00	Discussion
14:00-14:20	<p>Cluster 2: Water and Wastewater Treatment including Bio-Techniques for Waste Water Treatment Dr. Mo'ayyad Shawaqfah (AABU) and Prof. Adnan Ghata (ABU) (Arabic Version) Prof. Martin Oldenburg (HS-OWL)</p>
14:20-14:30	Discussion
14:30-14:50	<p>Cluster 6.a: Introduction to Environment and Climate Change Dr. Mo'ayyad Shawaqfah (AABU) and Prof. Moussa Samara (Arabic version) Prof. Martin Kaltschmitt (TUHH), Dr. Eduardo Luís Cardoso (UCP), Prof. Klaus Maßmeyer (HS-OWL)</p> <p>Cluster 6.c: Environmental Monitoring Systems (New Course) AU (English version+ Arabic version) Dr. Eduardo Luís Cardoso (UCP), Prof. Burkhard Wrenger (HS-OWL), Prof. Klaus Maßmeyer (HS-OWL)</p>
14:50-15:00	Discussion



Session (3-B)

13:30-15:00	TOT Session, Title: Energy Efficient Buildings – Passive measures in different climates Prof. Wolfgang Streicher (UIBK)
15:00-15:30	Coffee break

Session (4-A)

Chaired by Prof. Joachim Fettig (HS-OWL)

15:30-15:50	Cluster 4: Air Pollution and Air Quality Management Prof. Moussa Samara (English version+ Arabic version) Prof. Klaus Maßmeyer (HS-OWL)
15:50-16:00	Discussion
16:00-16:20	Cluster 5: Environmental engineering and sustainable development Prof. Moussa Samara (English version+ Arabic version) Prof. Martin Kaltschmitt (TUHH)
16:20-16:30	Discussion
16:30-16:50	Cluster 12: Waste Resource Management including Solid Waste Management Dr. Rasin Zakieh (ABU) for English and Arabic versions Prof. Martin Kaltschmitt (TUHH)
16:50-17:00	Discussion

Session (4-B)

15:30-17:00	TOT Session, Title: Thermal building simulation Dr. Martin Hauer (UIBK)
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Session (5-A)

17:00-18:00	TOT Session, Title: ELearning in the Egreen Project Trainer: Dr. Eduardo Cardoso (UCP) and Dr. Paula Castro (UCP)
18:30	Dinner



Day 2 Wednesday, December 19, 2018 STC meeting	
Second Day Session (1-A) Chaired by Prof. Wolfgang Streicher (UIBK)	
9:30-9:50	Cluster 3: Design of Sustainable Buildings including Energy efficient building services Dr. Loui Dabbour (ZUJ) (English version), and Prof. Adnan Ghata (ABU) (Arabic Version) Prof. Wolfgang Streicher (UIBK)
9:50-10:00	Discussion
10:00-10:20	Cluster 7: Energy Resources and Engineering and Energy conversion Technologies Prof. Mohammad Hamdan (UJ) and Prof. Moussa Al-Samara (TU) (Arabic version) Prof. Martin Kaltschmitt (TUHH), Prof. Wolfgang Streicher (UIBK)
10:20-10:30	Discussion
10:30-10:50	Cluster 8: Design of Renewable Energy Systems Prof. Suhil Kiwan (JUST) and Prof. Chehadeh Moussa (ABU) (Arabic version) Prof. Martin Kaltschmitt (TUHH), Prof. Wolfgang Streicher (UIBK), Prof. Salman Ajib (HS-OWL), Dr. Eduardo Luís Cardoso (UCP)
10:50-11:00	Discussion
11:00-11:20	Coffee Break
Second Day Session (2-A) Chaired by Prof. Alaaldeen Al-Halhouli (GJU)	
11:20-11:40	Cluster 9: Heating Ventilating and Air Conditioning Systems including solar energy driven system Dr. Mohammad Majali (MUTAH), Prof. Moussa Al-Samara (TU), Dr. Osama Ayadi (UJ) Prof. Wolfgang Streicher (UIBK), Prof. Salman Ajib (HS-OWL)
11:40-11:50	Discussion
11:50-12:10	Cluster 10: Power and Refrigeration Cycles Eng. Eman Abdelhafez (ZUJ) and AU (Arabic version) Prof. Salman Ajib (HS-OWL), Prof. Wolfgang Streicher (UIBK)
12:10-12:20	Discussion
12:20-12:40	Cluster 11: Modelling and simulation of power plant cycles (new) Dr. Mohammad Majali (MUTAH) via Skype and AU (Arabic version) Prof. Salman Ajib (HS-OWL)
12:40-12:50	Discussion
13:00-13:30	Snack Break



Session (3-A)

Chaired by Prof. Suhil Kiwan (JUST)

Project Implementation presentation by Partner universities in Jordan and Syria (each university 10 min) covering the following topics

- ✓ EGREEN team
- ✓ Achievements in Networking
- ✓ Achievement in WP3 (Role in development process, Final list of courses, Accreditation letter, offered courses next semester and number of enrolled students)
- ✓ Equipment procurement, installation place and usage (supported with photos)
- ✓ Conducted dissemination activities
- ✓ Conducted Quality activities (Submitted progress reports)
- ✓ Pre and post

13:30-13:40	❖ P1: The University of Jordan, by Prof. Ahmed Al-Salaymeh
13:40-13:50	❖ P2: German Jordanian University by Alaaldeen Al-Halhoul
13:50-14:00	❖ P3: Al Albayt University by Dr. Mo'ayyad Shawaqfah
14:00-14:10	❖ P4: Al-Zaytoonah University of Jordan by Dr. Loai Dabbour
14:10-14:20	❖ P5: Mutah University by Prof. Omer Nawaf Maaitah
14:20-14:40	❖ P6: Jordan University of Science and Technology, by Prof. Fahmi Abu Al-Rub
14:40-14:50	❖ P7: Al-Baath University, by Prof. Adnan Ghata
14:50-15:00	❖ P8: University of Aleppo, by Prof. Khalaf Alabdullah
15:00-15:10	❖ P9: Tishreen University, by Prof. Moussa Al-Samara

Session (3-B)

13:30-15:10	TOT Session, Title: Wind Offshore Prof. Martin Kaltschmitt (TUHH)
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15:10-15:30	Coffee Break
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Session (4-A)

Chaired by Prof. Ahmed Al-Salaymeh

15:30-17:00	Conclusions and action plan for project
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Session (4-B)

15:30-17:00	TOT Session, Title: Biogas Prof. Martin Kaltschmitt (TUHH)
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18:00	Dinner
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Day 3 Thursday, December 20, 2018 Train of Trainer workshop	
Session (1)	
9:00-10:00	TOT Session, Title: Solar Thermal Systems Trainer: Prof. Wolfgang Streicher
10:00-10:15	Coffee Break
Session (2)	
10:15-12:00	TOT Session, Title: Heat Pump Systems Trainer: Prof. Wolfgang Streicher