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ERASMUS+ VET PROGRAMME

INNOMED Project Number: 101092041

INNOMED:

Boosting Innovative Solar Energy Technologies and Applications in Mediterranean Countries Education

Final Conference Agenda

The University of Jordan, UJ

National University Collage of Technology,

NUCT

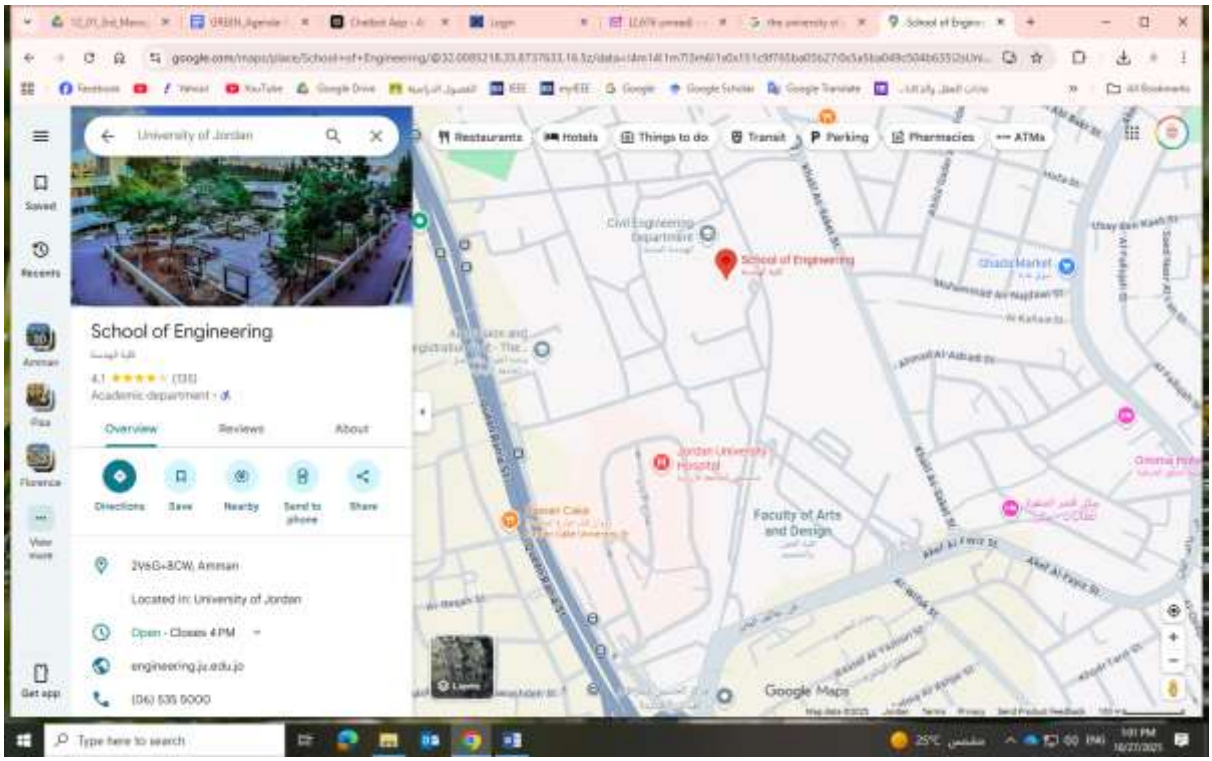
Amman, Jordan

December 2nd – 3rd, 2025

Tuesday- Wednesday

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

UJ meeting location



Zoom Link:

Google Maps Link:University of Jordan

Building: The Collage of Engineering

Contact Person: Eng. Rayan Al-Taweel

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	Day 1 **Tuesday, December 2nd, 2025** **9:00- 18:00**
9:00	**Arrival:Meeting Room: School of Engineering, University of Jordan, Saeed Al-Mufti Auditorium**
9:00 - 9:30	**Registration**
	Welcoming
09:30-10:15	• Verses from the Holy Quran • **Prof. Ahmed Al-Salaymeh**, Chairman of the Organizing Committee • **Prof. Menwer Attarakih**, Dean of the Faculty of Engineering • **H. E Ahmad Abu Alhija**, Director of the National Erasmus Plus Office • **German Embbesider or DAAD representative** • **H. E Prof. Mashhour AlRefai**, Secretary-General of the Supreme Council for Science and Technology • **H. E Pierre-Christophe Chtazisavas**, Head of the European Union Mission in Jordan • **H. E Prof. Saeb Khraisat**, Minister of Agriculture • **H. E Prof. Dr. Nathir Obeidat**, President of the University of Jordan
10:15-10:30	**Coffee Break and Group Photo**
	Keynote Speakers Session I Chairman: Prof. Ahmed Al-Salaymeh Rapporteur: Eng. Maram Al-Hijaj
10:30 – 10:50	**Prof. Martin Kaltschmitt, Director of Institute for Environmental technology and Energy industry (TUHH),** " Power from solar and wind - Enabler for a Global Hydrogen Energy System" **Germany**
10:50-11:10	**Prof. Antonio Ficarella, University of Salento**, "Energy Communities: resilience and sustainability", **Italy**
11:10 – 11:30	**Dr. Ali Abkar, CEO of AgriWatch**, "The AgroTec Project: Fostering Smart Agriculture through Vocational Training and Networking in Jordan and Palestine", **Netherlands**
	Session 2 **Panel Discussion: Future of Green Hydrogen** Chairman: Prof. Ahmed Al-Salaymeh Rapporteur: Eng. Maram Al-Hijaj
11:30 – 12:30	**Prof. Ahmed Al-Salaymeh,** Universty of Jordan**, Jordan** **Prof. Antonio Ficarella,** University of Salento**, Italy** **Prof. Martin Kaltschmitt,** Hamburg University of Technology**, Germany** **Eng. Yacoub Marar,** Minester of Energy and Mineral Resorces**, Jordan** **Eng. Hanna Zaghloul,** Kawar Energy Company**, Jordan**

	Prof. Abdelkader Outzourhit, Cadi Ayyad University**, Morocco** **Prof. Chakib Seladji,** Pan African University**, Alegria** • **Prof. Mohamed Fahmy,** AASTMT**, Egypt**
12:30 - 13:00	**Poster Session in Solar energy, Green hydrogen and AgroTec**
13:00-14:00	**Lunch Break**

SESSION 3-A

Chairman: Prof. Antonio Ficarella

Rapporteur: Dr. Walaa Al-Smadi

Time	Paper Title & Author	Country
14:00-14:10	1D metal–organic frameworks with exceptional stability for efficient adsorption and removal of Trimethoprim in pharmaceutical wastewater, **Reem Alzarda and Mohamed Abdellaha**	**UAE**
14:10-14:20	Engineering Green Hydrogen at Scale: a Holistic Modelling Framework Bridging Hydrogen Production, Storage and Transport via Pipelines, **Dr. Shubham Shubham**	**Italy**
14:20-14:30	Thermodynamic analysis and economic evaluation of an ammonia-based chemical energy storage system, **Prof. Antonio Ficarella**	**Italy**
14:30 – 14:40	Egyptian Locally Manufactured Green Hydrogen Production and Storage System, **Eng. Marwan A. Eldomiaty**	**Egypt**
14:40 – 14:50	Optimizing Renewable Hydrogen Production in Hassi R'Mel Algeria, Eng. **Amira Arif**	**Germany**
14:50 – 15:00	Exploring Green Hydrogen Potential in Sudan's Red Sea Region: Empowering Agriculture through Sustainable Fertilizer, **Wafa Taief**	**Algeria**
15:00-15:10	Techno-economic assessment of green hydrogen production from different sources of water, Case study Algeria, **Nadji Agadi**	**Algeria**
15:10-15:20	Optimizing Power Technologies for SWRO Desalination for Hydrogen Production in Mediterranean Algeria, **Eng. Amira Arif**	**Algeria**
15:20-15:30	Enhancing ICE Performance and Slashing Emissions with Green Hydrogen, **Prof. Aly Hassan**	**Egypt**
15:30-15:40	Scenario-Based Thermal and Optical Analysis of CdSe/CdS Quantum Dot Downshifting Layers for Enhanced Efficiency in Silicon Photovoltaic Modules Using ANSYS, **Maoz Maoz**	**Italy**

15:40-15:50	Techno-Economic Optimization of Green Hydrogen Production via Hybrid Renewable Energy Systems: Case Study Algeria, **Prof. Chakib SELADJI**	**Algeria**
15:50-16:00	Cleaner Air for a Sustainable Future through Smart Data Analysis of Air Quality in Ras Al Khaimah, **Prof. Ahmad Sakhrieh**	**UAE**
16:00-16:10	An Evaluation of the Economic and Technical Feasibility of Producing Hydrogen from Solar and Wind Energy in Mauritania: A Case Study of Nouakchott, **Oussama Mayah**	**Algeria**
16:10-16:25	**Coffee Break**	
	Graduate Student Session 4-A	
16:25-17:40	**T.B.D**	
17:40-18:00	**Closing and Heading to Hotel**	
20:00	**Dinner(T.B.D)**	

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Day 2
December 3rd, 2025
09:00 – 15:30

9:00	**Arrival and registration: Meeting Room: School of Engineering, University of Jordan, Saeed Al-Mufti Auditorium**

Session 5-A
Keynote Speakers Session
Chairman: Prof. Ahmed Al-Salaymeh

Rapporteur: Eng. Bilal Al-Salaymeh

9:30-9:40	Title: "T.B.D", **Prof. Osama Ayadi**, University of Jordan, **Jordan**
9:40–9:50	Title" "T.B.D", **Prof. Sofiane Amara,** University of Tlemcen**. Algeria**

Session 6-A
Chairman: Prof. Abdelfettah Barhdadi

Rapporteur: Dr. Walaa Al-Smadi

Time	Paper Title & Author	Country
9:50-10:05	Hybrid Threats and Critical Entity Resilience in the Era of Solar and Hydrogen Energy, **Alessandro Lazari**	**Italy**
10:05-10:20	Quantifying Hydrogen Pipeline Resilience: Probabilistic Fault Modeling for Safe Renewable Energy Infrastructure, **Elham Ebrahimi and Prof. Antonio Ficarella**	**Italy**
10:20-10:35	Resilience by Design in Local Renewable Energy Systems: The Case of Hydrogen Valleys, **Prof. Antonio Ficarella**	**Italy**
10:35-10:50	Outputs, impacts and institutional benefits of INNOMED Project: The case of Mohammed V University in Rabat, **Prof. Abdelfettah Barhdadi**	**Morocco**
10:50-11:05	An Evaluation of the Economic and Technical Feasibility of Producing Hydrogen from Solar and Wind Energy in Mauritania: A Case Study of Nouakchott, **Oussama Mayah**	**Algeria**

11:05-11:20	**Coffee Break**

Session 7-A
The Final Results, Impact and Sustainability for the INNOMED Project
Chairman: Prof. Abdelfettah Barhdadi

Rapporteur: Dr. Walaa Al-Smadi

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11:20-11:50	INNOMED Project in Progress and WP1, **by Dr. Antonio Ficarella (Unisalento) & Prof.Ahmed Al-Salaymeh (UJ)** **Action plan on the following tasks:** • T1.1 Kick-off Meeting and other Consortium Meetings • T1.3 Financial Management • T1.4 Reporting (Progress, Intermediate and Final Reports) ➢ ***Discuss the preparation for the final report documents*** ➢ ***Discuss the needed documents from each partner***
11:50-12:05	**WP 2: Establishing university-enterprise cooperation, by Eng. Bilal Al-Salaymeh, NUCT** **Action plan on the following task:** • T2.1 Establishing Solar Energy Network ➢ ***The final impact about the Network***
12:05-12:20	**WP 3: Baseline Study, by Prof. Ahmed Al-Salaymeh, UJ** **Action plan on the following tasks:** • T3.1 Technical Report • T3.2 Regulations • T3.3 Official Gathering ➢ ***The updates about the Jordanian scientific paper***
12:20-13:20	**Lunch Break**
Session 8-A **The Final Results, Impact and Sustainability for the INNOMED Project** Chairman: Prof. Abdelfettah Barhdadi Rapporteur: Dr. Walaa Al-Smadi	
13:20-13:50	**WP 4: Capacity Building by Dr. Abdelfettah BARHDADI, (UM5)** **Action plan on the following tasks:** • T4.1 Capacity Building Plan • T4.2 Developing Training Materials • T4.3 Training Workshops in Europe for staff ➢ ***The final impact and results and the numbers of the ToT***
13:50-14:05	**WP 5: Establishing the Solar Energy labs, by Dr. Martin Hauer, UBIK** **Action plan on the following tasks:** • T5.1 Lab design and equipment list • T5.2 Implementation of labs and prepare manuals ➢ ***The final lab installation results in the Mena Universities***
14:05-14:35	**WP6: Developing and piloting INNOMED Professional Diploma, by Dr. Demetris Marangis (UCY)**

	Action plan on the following tasks: • T6.1 Develop Diploma Study Plan • T6.2 Virtual Learning Portal • T6.3 Develop courses content • T6.4 Tuning Workshop • T6.5 Piloting and implementation of INNOMED Professional Diploma ➢ ***The final results and impact about the diploma implementation and the platform***
14:35-15:05	**WP 7: Quality and Impact Evaluation, by Dr. Neofytos Komninos, (NTUA)** **Action plan on the following tasks:** • T7.1 Quality Assurance and Evaluation Plan • T7.2 Quality Assurance Tools • T7.3 Impact Evaluation Reporting • T7.4 External Evaluation ➢ ***The final results and impact***
15:05-15:20	**WP 8: Dissemination and Exploitation, by Prof. Abdelkader Outzourhit, (UCA), and Maria Pia Romano (Salento)** **Action plan on the following tasks:** • T8.1 Dissemination and sustainability plan • T8.2 Project Website and Social Networks • T8.3 Printed and Electronic dissemination material • T8.4 Seminars, Workshops, and info days • T8.5 Tester course workshops • T8.6 Final Conference ➢ ***The final results and impact***
15:20:15:35	**Discussion, Closing and Heading to Hotel**
19:00	**Dinner(T.B.D)**