DELIVERABLE 6.3
1st IREEDER Dissemination Day Minutes

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LIST OF CHANGES

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1.0	October 6, 2022	Initial draft	Ziyad Altarawneh (MU)
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3.0	October 9, 2022	Editing and final approval	Saud Althunibat (AHU)

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1. INTRODUCTION

1.1 Summary

This document outlines the minutes of the IREEDER project's third dissemination workshop, which was conducted on October 5, 2022, at Mutah University (MU). This workshop's agenda is organized into four major sections: the opening ceremony, the Renewable energy session, the Internet of Things session, and the Cyber security session. Following that was the closing session, which was followed by the lunch break. The partners will be identified by their abbreviated names throughout this document, as follows:

Partner	Acronym	Country
Al-Hussein Bin Talal University	AHU	Jordan
Mutah University	MU	Jordan
Università degli Studi di Trento	UNITN	Italy
Instituto de Telecomunicações	IT	Portugal
Universidade De Vigo	UVIGO	Spain
Isra University	IU	Jordan
The University of Patras	UPATRAS	Greece
Philadelphia University	PU	Jordan
Tafila Technical University	TTU	Jordan
University of Central Lancashire Cyprus	UCLAN	Cyprus

The workshop has been held at MU in 5 Oct 2022 from 8:00 am to 14:00 with a total number of attendees exceeds 90 participants.

1.2 Structure of the Document

The present document is organized as follows:
- The current section describes the summary and the structure of the document
- Section 2 provides a description of minutes of the opening ceremony.
- Section 3 provides a description of the renewable energy session.
- Section 4 provides a description of the Internet of things session.
- Section 5 provides a description of the cyber security session.

2. THE OPENING CEREMONY

Date:	5 October 2022
Location:	The main auditorium Hall, The Deanship of Students Affairs- Mutah University, Karak, Jordan

Time	Topic	Presenter (s)
08:00-09:00	Registration	
09:00-10:00	**Opening Ceremony** National Anthem, Quran Verses	
	Welcome Message	Prof. Arafat Awajan MU President
	Welcome Message	Prof. Mohammad Sarayreh – MU Dean of Faculty of Engineering
	IREEDER Project Overview	Dr. Saud Althunibat - AHU Project Coordinator
	JO Partners Message	Prof. Mohammed Bani Younis (PU)
	EU Partners Message	Dr. Marios Raspopoulos (UCLAN)
10:00-10:30	Coffee Break	

2.1 Welcome Message (09.00am – 09.10am)

Prof. Marawn Al-Mousa, the vice president of Mutah University, gave a short message where he welcomed all the participants in the meeting.

2.2 Welcome Message (09.10am – 09.20am)

Prof. Mohammad Sarayreh - (MU), Dean of the Faculty of Engineering, delivered a brief message in which he welcomed all attendees and discussed MU's position in the IREEDER project, and an overview of the Faculty of Engineering and its different activities.

2.3 IREEDER Project Overview (09.20am – 09.40am)

Dr. Saud Althunibat, the Project Manager, provided a summary of the IREEDER endeavor. During his presentation, he mentioned that the primary impetus behind the project was the necessity of incorporating the most recent technological advancements in electrical engineering into undergraduate programs in order to provide students with the appropriate skills for the job market. In addition, he discussed the necessity of the labor market to strengthen the abilities of newly graduated engineers by instructing them in the fundamentals and training them on various educational platforms. He also went into detail on the construction of the project consortium as well as the meticulous partner selection process. He proceeded to go over the various work packages and outline the primary responsibilities that were associated with each work package. He gave a brief about the different outcomes and results of IREEDER project.

2.4   JO Partners Message (09.40am – 09.50am)

On behalf of JO Partners, Prof. Mohammed Bani Younis (PU) delivered a brief speech in which he highlighted the improvements made possible by implementing the IREEDER into the electrical engineering curricula and provided some statistics regarding the advantages and effects of establishing the IREEDER Remote Access Lab at Jordanian institutions.

2.5   EU Partners Message (09.50am -10.00am)

Dr. Marios Raspopoulos (UCLAN), on behalf of EU partners, gave a short message in which he highlighted the established collaboration between JO and EU partners during the IREEDER project lifetime and also covered the impacts of the develop RE, IoT and Cs courses and the established labs at Jordanian institutions.

3. SESSION I: RENEWABLE ENERGY

	Session I: Renewable Energy Session Coordinator: Dr. Ziyad Almajali-MU	
10:30-11:30	Overview of IREEDER Course: Introduction to Renewable Energy	Prof. Andreas Kazantzidis (UPAT)
	Overview of IREEDER lab: Renewable Energy Laboratory at MU	Dr Ziyad Almajali (MU)
	Renewable Energy Market in Jordan	Dr Ahmad Salah (AHU)
	Required skills in fresh engineers for renewable energy sector	Dr. Eyad Maitah (TTU)

Dr. Ziyad Al Majali (MU) has started the session by giving a brief about the speakers and their topics. The following shows in detail all the topics in the first session:

3.1 Overview of IREEDER Course: Introduction to Renewable Energy (RE) (10.30am – 10.45am)

Prof. Andreas Kazantzidis (UPAT) gave and overview about the outcomes of the IREEDER related to RE part. This is in addition to a description of the theoretical and practical materials that have been proposed as an outcome from this project.

3.2 Overview of the IREEDER lab: Renewable Energy Laboratory at MU (10.45am – 11.00am)

Dr. Ziyad Al Majali (MU), presented the manual of the practical part from the MU-RE laboratory. He described the structure of the lab and its components, the procedures and the experiments in this laboratory.

3.3 Renewable Energy Market in Jordan (11.15am-11.30am)

Dr Ahmad Salah (AHU) presented the needs for the RE market in Jordan and summarized his experience in the field. Also, he gave an overview of the business of RE in Jordan and the open chance of our students in this field.

3.4 Required skills in fresh engineers for renewable energy sector (11.15am-11.30am)

Dr. Eyad Maitah (TTU) presented the required skills for fresh engineers to be able to join the RE field. He went in deep to provide some resources and courses that can be directed by fresh engineers.

4. SESSION II: INTERNET OF THINGS

	Session II : Internet of Things Session Coordinator: Prof. Mohammed Bani Younis -PU	
11:30 – 12:30	Overview of IREEDER Course: Introduction to Internet of Things	Dr. Marios Raspopoulos (UCLAN)
	Overview of IREEDER lab: Internet of Things Laboratory at AHU	Dr. Moath Alsafasfeh (AHU)
	IoT Market in Jordan	Prof. Ahmad Aljaafreh (TTU)
	Required skills in fresh engineers for IoT sector	Eng. Sultan Alrushdan (PU)

Prof. Mohammed Baniyounis (PU) has chaired the Internet of Things session where he started by giving a brief about the different talks and the speakers and their topics. The following shows in detail all the topics in the second session:

4.1 Overview of IREEDER Course: Introduction to Internet of Things (11.30am – 11.45am)

Dr. Marios Raspopoulos (UCLAN) gave an overview about the teaching materials of Internet of Things that have been developed in IREEDER project. He showed the course structure, the course objectives and the course outline as well.

4.2 Overview of IREEDER lab: Internet of Things Laboratory at AHU (11.45am – 12.00pm)

Dr. Moath Alsafasfeh (AHU), presented the manual of the practical part from the AHU-IoT laboratory. First, he described the equipment installed at the IoT lab established at AHU, and then he described the remote access procedure and the experiments list.

4.3   IoT Market in Jordan (12.00pm-12.15pm)

Prof. Ahmad Aljaafreh (TTU) presented the needs for the IoT market in Jordan and summarized the different business and startups of IoT in different fields in Jordan.

4.4   Required skills in fresh engineers for IoT sector (12.15pm – 12.30pm)

Eng. Sultan Alrushdan (PU) presented a talk regarding the different skills that should be possessed by an engineer to be able work in the different fields of IoT including hardware skills, software skills, and communications skills.

5. SESSION II: CYBER SECURITY

	Session III: Cyber Security Session Coordinator: Dr. Moath Alsafasfeh (AHU)	
12:30 – 13:30	Overview of IREEDER Course: Introduction to Cyber Security	Dr. Felipe Gil Castenira (UVIGO)
	Overview of IREEDER lab: Cyber Security Laboratory at TTU	Dr. Zeyad Aloudat (TTU)
	Remote access of Cyber Security lab	Dr. Bilal Alqudah (AHU)
	Cyber security market in Jordan	Dr. Hassan Alrefai (PU)

Dr. Moath Alsafasfeh (AHU) chaired the Cyber Security session. He started by exploring the main cyber security related outcomes of the IREEDER project. He mentioned some statistics regarding the course enrollment and training activities. He also gave a brief about the speakers and their topics. The following shows in detail all the topics in the third session:

5.1   Overview of IREEDER Course: Introduction to Cyber Security (CS) (12.30pm – 12.45pm)

Dr. Felipe Gil Castenira (UVIGO) explored the cyber security course that has been developed by IREEDER project including the lecture notes, presentation slides, and the e-learning module.

5.2   Overview of IREEDER lab: Cyber Security Laboratory at TTU (12.45pm – 13.00pm)

Dr. Zeyad Aloudat (TTU) explored the cyber security lab established at TTU within the framework of IREEDER project. He described the main equipment purchased and their functionalities. Also, he explored the the training manual and the experiment list that have been prepared by the project.

5.3   Remote access of Cyber Security lab (13.00pm-13.15pm)

Dr. Bilal Alqudah (AHU) presented the main features of the cyber security laboratory. Specifically, he focused on the remote access feature in the installed equipment, and how it can be used by students in different institutions.

5.4   Cyber security market in Jordan (13.15pm-13.30pm)

Dr. Hassan Alrefai (PU) presented the needs for the CS market in Jordan. He also explored the different investments in the field of cyber security in Jordan. He also told a couple of success stories in the field of cyber security.

6. CLOSURE

The project manger Dr. Althunibat – AHU and Dr. Ziyad Al tarawneh the MU representative invited the attendees to the lunch break before wishing all of them safe flights back home.