

Train of Trainers Workshop UNIROMA1

January 14th - 18th, 2019

Author(s)	Gabriella Calderari		
Organisation name(s)	Sapienza University of Rome		
WP Number	WP2		
Task Number	2.3		
WP Leader	P7 LU		
Due date of delivery		Project month	
Submission date		Project month	
Total number of pages	16		

Project Coordinator

Prof. DI Dr. techn Wolfgang Streicher,

University of Innsbruck (UIBK)

Technikerstrasse 13 | 6020 Innsbruck, Austria

Tel: +43 (0) 512-507-63650 | Mob: +43 (0) 676-872-565 320 | Fax: +43 (0) 512-507 36902

Email: wolfgang.streicher@uibk.ac.at

Project website: HEBA website



Review Table

Version	Date of Submission	Quality check		Technical check	
		Reviewer	Date	Reviewer	Date
V01	March 2019				



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

Contents

TRAIN OF TRAINERS WORKSHOP UNIROMA1.....	1
REVIEW TABLE	2

ERASMUS PLUS Programme–HEBA Project Number: 585740-EPP-1-2017-1-AT-EPPKA2-CBHE-JP

DISCLAIMER: *This project has been funded with support from the European Commission. This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.*

1 Overview about Participants and Lecturers

In Table 1, the participants of all different Jordanian, Egyptian and Lebanon Partner Universities are listed.

Table 1: Participants from Jordanian, Egyptian, Lebanon and Cyprus Partner Universities

	UNIVERSITY	NAME	SURNAME
1	HU	Haitham	Mahmoud
2	HU	Abdullah	Elfar
3	HU	Mohamed	Daowd
4	AASTMT	Nancy	Mostafa Abdelmoneim
5	AASTMT	Bakr Mohamed Ibrahim	Gomaa
6	UJ	Ahmed	Al-Salaymeh
7	UJ	Mohammad	Hamdan
8	UJ	Osama	M. Abuzeid
9	AUB	Kamel	Ghali
10	AUB	Mohamad	Ahmad
11	AUB	Joseph	Zeaiter
12	AUB	Hassan	Harajli
13	JUST	Prof. Suhil	Kiwan
14	JUST	Ahmad	Abuelrub
15	LU	Nazih	El Moubayed
16	LU	Hassan	Shraim

2 Agenda of the Workshop Days

Location: Faculty of Engineering, Sapienza University of Rome

HEBA Train-the-Trainers-Workshop (preliminary program)

TIMELINE AND CONTENTS:

Date	Time	Content
Mon. 14/01/2019	10:00 – 13:00	<p><i>“Introduction to Green Manufacturing”</i></p> <p>Policies and legal framework</p> <p><i>[Gabriella Calderari -Researcher, HEBA local Coordinator]</i></p>
	13:00 – 14:00	Free time for Lunch
	14:00 – 17:30	<p><i>“Energy Efficiency and Energy Management”</i></p> <p>Introduction to the Energy Efficiency and Energy Management, Energy Audit, Steps of the Energy diagnosis, Energy Performance Indicators (EnPI), Energy Manager.</p> <p><i>[Fabrizio Bonacina - Consultant on Energy Efficiency and Sustainable Productive Process]</i></p>
Tue. 15/01/2019	10:00 – 13:00	<p><i>“Legal Framework and Business”</i></p> <p>Economic Analysis and Life Cycle Costing</p> <p><i>[Guido Mattei- International Business and EU project evaluator]</i></p>
	13:00 – 14:00	Free time for Lunch

ERASMUS PLUS Programme–HEBA Project Number: 585740-EPP-1-2017-1-AT-EPPKA2-CBHE-JP

DISCLAIMER: This project has been funded with support from the European Commission. This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

	14:00 – 17:30	<p><i>“Green Technologies and solutions”</i></p> <p>Energy improving solutions in lighting system, Insulation <i>[Katuscia Cipri, Professor of Wind and Geothermal Energy]</i></p>
Wed. 16/01/2019	10:00 – 13:00	<p><i>“Green Technologies and solutions”</i></p> <p>Introduction to Cogeneration and tri-generation <i>[Paolo Venturini- Professor of Cogeneration and Trigeneration plants]</i></p>
	13:00 – 14:00	Free time for Lunch
	14:00 – 17:30	<p><i>“Green Technologies and solutions”</i></p> <p>Cogeneration plants, Chilled water system and Compressed Air system: real cases. <i>[Maurizio Paolini – Energy Manager at LFoundry S.r.l.]</i></p>
Thu. 17/01/2019	11:00 – 13:00	<p>Elaboration of course content</p> <p>Open discussion <i>[Gabriella Calderari, Katuscia Cipri]</i></p>
	13:00 – 14:00	Free time for Lunch
	14:00 – 17:30	

		<p><i>“Water and production footprint”</i></p> <p>Analysis of Industry processes and identification of Energy gaps</p> <p><i>[Fabrizio Bonacina - Consultant on Energy Efficiency and Sustainable Productive Process]</i></p>
<p>Fri. 18/01/2019</p>	<p>10:00 – 13:00</p>	<p>h.9:00 Meeting point: Termini Station, Main entrance hall, in front of “Nike” shop</p> <p>Technical Visit to</p> <p>CONI – Comitato Olimpico Nazionale Italiano</p> <p>Technical solutions for energy efficiency in a sporting compound</p> <p><i>[Federico Marca, Energy Manager at CONI]</i></p>

3 Training Material

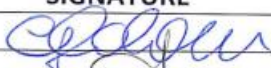
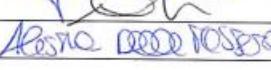
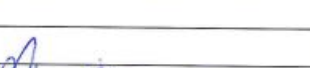

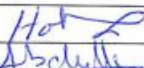
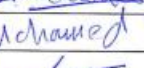


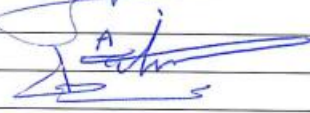


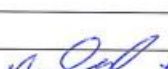
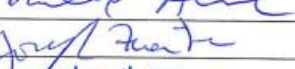

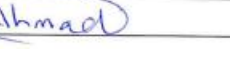
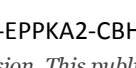
All presentations delivered and discussed during the workshop week have been uploaded on UIBK server at disposal of all the partners

4 Participants List

All participants had to fill a participants list in order to prove their attendance. The signed list is shown below.

PARTICIPANTS LIST

January 14th, 2019



	UNIVERSITY	NAME	SURNAME	SIGNATURE
1	UNIROMA1	Gabriella	Calderari	
2	UNIROMA1	Katiuscia	Cipri	
3	UNIROMA1	Alessia	Dalla Massara	
4	UNIROMA1	Paolo	Venturini	
5	LFoundry S.r.l.	Maurizio	Paolini	
6	UNIROMA1	Fabrizio	Bonacina	
7	GMCO SPRL	Guido	Mattei	
8	HU	Haitham	Mohahmoud	
9	HU	Abdullah	Elfar	
10	HU	Mohamed	Daowd	
11	AASTMT	Nancy	Mostafa Abdelmoneim	
12	AASTMT	Bakr Mohamed Ibrahim	Gomaa	
13	UJ	Ahmed	Al-Salaymeh	
14	UJ	Mohammad	Hamdan	
15	UJ	Osama	Ayadi	
16	UJ	Osama	M. Abuzeid	
17	UJ	Kholoud	Kholoud Hassouneh	
18	AUB	Kamel	Ghali	
19	AUB	Mohamad	Ahmad	
20	AUB	Joseph	Zeaiter	
21	AUB	Hassan	Harajli	
22	JUST	Prof. Suhil	Kiwan	
23	JUST	Ahmad	Abu-Elrub	

ERASMUS PLUS Programme–HEBA Project Number: 585740-EPP-1-2017-1-AT-EPPKA2-CBHE-JP

DISCLAIMER: This project has been funded with support from the European Commission. This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



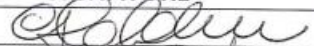
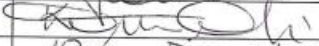

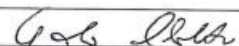

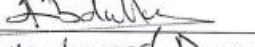
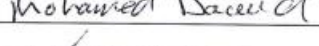
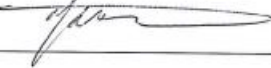







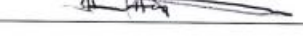
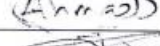

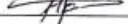
Co-funded by the
Erasmus+ Programme
of the European Union

24	LU	Nazih	El Moubayed	
25	LU	Hassan	Shraim	



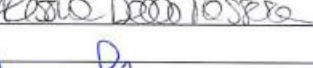
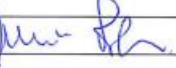
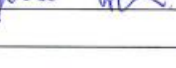


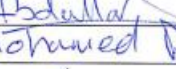
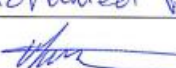





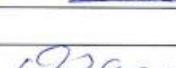
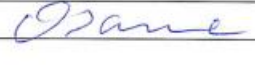



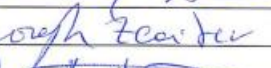
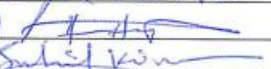
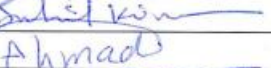
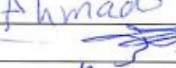

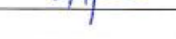
ERASMUS PLUS Programme–HEBA Project Number: 585740-EPP-1-2017-1-AT-EPPKA2-CBHE-JP

DISCLAIMER: *This project has been funded with support from the European Commission. This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.*

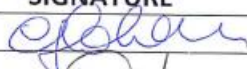
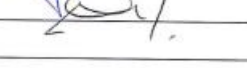


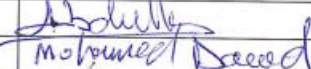
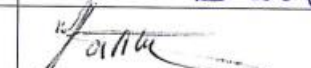


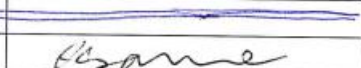
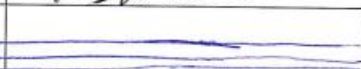
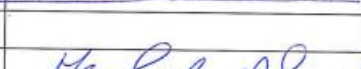

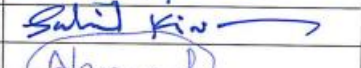
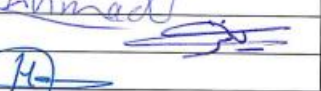






January 15th, 2019

	UNIVERSITY	NAME	SURNAME	SIGNATURE
1	UNIROMA1	Gabriella	Calderari	
2	UNIROMA1	Katiuscia	Cipri	
3	UNIROMA1	Alessia	Dalla Massara	
4	UNIROMA1	Paolo	Venturini	
5	LFoundry S.r.l.	Maurizio	Paolini	
6	UNIROMA1	Fabrizio	Bonacina	
7	GMCO SPRL	Guido	Mattei	
8	HU	Haitham	Mohahmoud	
9	HU	Abdullah	Elfar	
10	HU	Mohamed	Daowd	
11	AASTMT	Nancy	Mostafa Abdelmoneim	
12	AASTMT	Bakr Mohamed Ibrahim	Gomaa	
13	UJ	Ahmed	Al-Salaymeh	
14	UJ	Mohammad	Hamdan	
15	UJ	Osama	Ayadi	
16	UJ	Osama	M. Abuzeid	
17	UJ	Kholoud	Hassouneh	
18	AUB	Kamel	Ghali	
19	AUB	Mohamad	Ahmad	
20	AUB	Joseph	Zeaiter	
21	AUB	Hassan	Harajli	
22	JUST	Prof. Suhil	Kiwan	
23	JUST	Ahmad	Abu-Elrub	
24	LU	Nazih	El Moubayed	
25	LU	Hassan	Shraim	

January 16th, 2019

	UNIVERSITY	NAME	SURNAME	SIGNATURE
1	UNIROMA1	Gabriella	Calderari	
2	UNIROMA1	Katiuscia	Cipri	
3	UNIROMA1	Alessia	Dalla Massara	
4	UNIROMA1	Paolo	Venturini	
5	LFoundry S.r.l.	Maurizio	Paolini	
6	UNIROMA1	Fabrizio	Bonacina	
7	GMCO SPRL	Guido	Mattei	
8	HU	Haitham	Mohahmoud	
9	HU	Abdullah	Elfar	
10	HU	Mohamed	Daowd	
11	AASTMT	Nancy	Mostafa Abdelmoneim	
12	AASTMT	Bakr Mohamed Ibrahim	Gomaa	
13	UJ	Ahmed	Al-Salaymeh	
14	UJ	Mohammad	Hamdan	
15	UJ	Osama	Ayadi	
16	UJ	Osama	M. Abuzeid	
17	UJ	Kholoud	Hassouneh	
18	AUB	Kamel	Ghali	
19	AUB	Mohamad	Ahmad	
20	AUB	Joseph	Zeaiter	
21	AUB	Hassan	Harajli	
22	JUST	Prof. Suhil	Kiwan	
23	JUST	Ahmad	Abu-Elrub	
24	LU	Nazih	El Moubayed	
25	LU	Hassan	Shraim	

January 17th, 2019

	UNIVERSITY	NAME	SURNAME	SIGNATURE
1	UNIROMA1	Gabriella	Calderari	
2	UNIROMA1	Katiuscia	Cipri	
3	UNIROMA1	Alessia	Dalla Massara	
4	UNIROMA1	Paolo	Venturini	
5	LFoundry S.r.l.	Maurizio	Paolini	
6	UNIROMA1	Fabrizio	Bonacina	
7	GMCO SPRL	Guido	Mattei	
8	HU	Haitham	Mohahmoud	
9	HU	Abdullah	Elfar	
10	HU	Mohamed	Daowd	
11	AASTMT	Nancy	Mostafa Abdelmoneim	
12	AASTMT	Bakr Mohamed Ibrahim	Gomaa	
13	UJ	Ahmed	Al-Salaymeh	
14	UJ	Mohammad	Hamdan	
15	UJ	Osama	Ayadi	
16	UJ	Osama	M. Abuzeid	
17	UJ	Kholoud	Hassouneh	
18	AUB	Kamel	Ghali	
19	AUB	Mohamad	Ahmad	
20	AUB	Joseph	Zeaiter	
21	AUB	Hassan	Harajli	
22	JUST	Prof. Suhil	Kiwan	
23	JUST	Ahmad	Abu-Elrub	
24	LU	Nazih	El Moubayed	
25	LU	Hassan	Shraim	

January 18th, 2019

	UNIVERSITY	NAME	SURNAME	SIGNATURE
1	UNIROMA1	Gabriella	Calderari	
2	UNIROMA1	Katiuscia	Cipri	
3	UNIROMA1	Alessia	Dalla Massara	
4	UNIROMA1	Paolo	Venturini	
5	LFoundry S.r.l.	Maurizio	Paolini	
6	UNIROMA1	Fabrizio	Bonacina	
7	GMCO SPRL	Guido	Mattei	
8	HU	Haitham	Mohahmoud	
9	HU	Abdullah	Elfar	
10	HU	Mohamed	Daowd	
11	AASTMT	Nancy	Mostafa Abdelmoneim	
12	AASTMT	Bakr Mohamed Ibrahim	Gomaa	
13	UJ	Ahmed	Al-Salaymeh	
14	UJ	Mohammad	Hamdan	
15	UJ	Osama	Ayadi	
16	UJ	Osama	M. Abuzeid	
17	UJ	Kholoud	Hassouneh	
18	AUB	Kamel	Ghali	
19	AUB	Mohamad	Ahmad	
20	AUB	Joseph	Zeaiter	
21	AUB	Hassan	Harajli	
22	JUST	Prof. Suhil	Kiwan	
23	JUST	Ahmad	Abu-Elrub	
24	LU	Nazih	El Moubayed	
25	LU	Hassan	Shraim	

5 5 – Pictures of the TOT

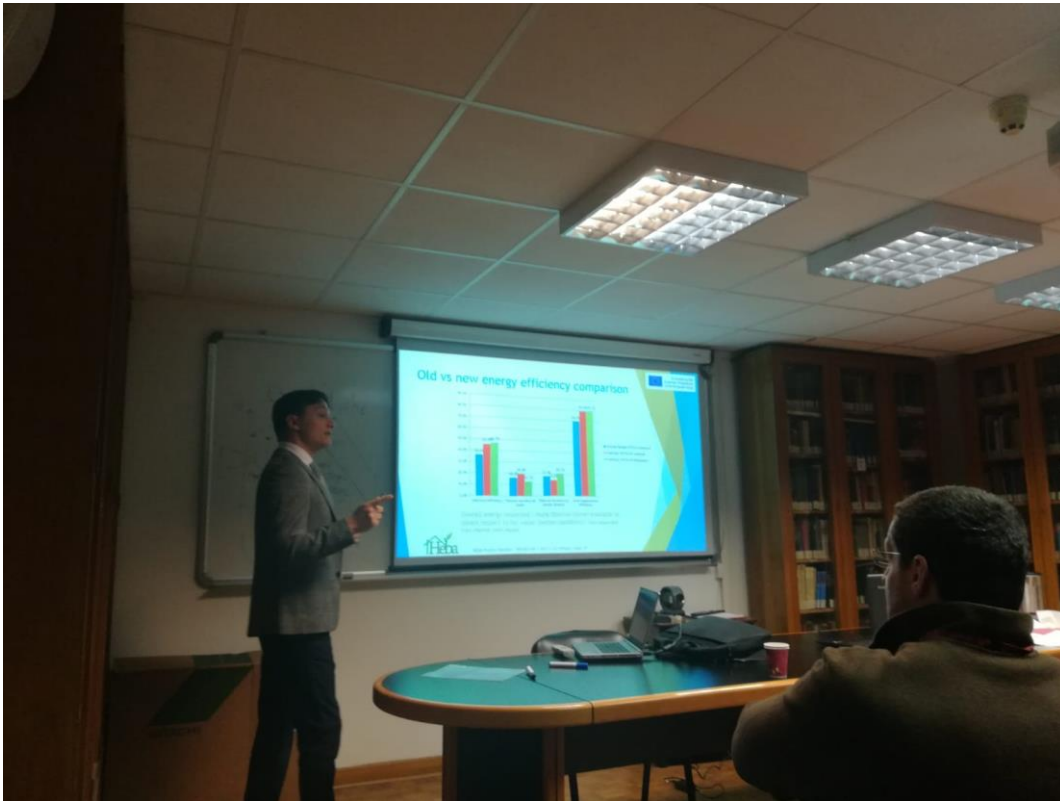


Fig. 1 Dr. Maurizio Paolini delivering a presentation about *Green Technologies and solutions*



Fig. 2 Technical visit at CONI – Comitato Olimpico Nazionale Italiano



Fig. 3 Technical visit at CONI – Comitato Olimpico Nazionale Italiano - Meeting with the Energy Manager



Fig. 4 and 5 - TOT Participants group pictures

