

High level rEnewaBle and energy efficiency mAster courses

DESCRIPTION: Energy Efficiency (EE) and increased used of Renewable Energies (RE) are the key elements to achieve the EU 2050 goals. The HEBA project aims to ensure that the universities in Egypt, Lebanon and Jordan can offer a high quality education compatible with European standards that meets the market needs of the emerging knowledge-based society by strengthening EE+RE teaching.

The main objective of HEBA is to reform and improve existing master programs in EE+RE on single technologies and energy systems level in building and industrial sectors and improving/establishing Centers of EE+RE Technologies in the partner countries cooperating with each other.

The centers will train postgraduate (PG) and undergraduate (UG) students on EE+RE methodologies and technologies for different sectors and will contribute to guidelines for best practice for the efficient use of energy and renewable energies in a joint collaboration between EU and partner universities. The former will transfer EU best practices, experiences and methodologies according to the Bologna process to support the development and diffusion of an innovative experience in technical higher education in the partner institutions supporting the capacity and knowledge building in EE+RE Technologies.

Outputs of HEBA in the partner universities will be

- * adapted curricula
- * at least 12 new or improves existing courses and lecture books/e-learning tools for PG and UG students on EE + RE
- * 6 1-week train-the-trainers courses for the future lecturers (min. 70) of the participating EU universities
- * 12 Master thesis of students from partner universities at participating EU universities
- * Establish/improving laboratories of "EE+RE" Technologies (EEREL center)
- * Contribution to guidelines for practice for EE+RE in industry and buildings

HEBA will thus contribute to an increase of the local competences on EE+RE that will promote curriculum reform and leave a longer-term legacy for Egypt, Lebanon and Jordan universities.

Coordinator: UNIVERSITAET INNSBRUCK

Technikerstrasse 13

Innsbruck 6020,AT

Internet site address :

Partner	American University of Beirut	LB
Partner	ARAB ACADEMY FOR SCIENCE, TECHNOLOGY AND MARITIME TRANSPORT	EG
Partner	HELWAN UNIVERSITY	EG
Partner	JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY	JO
Partner	TECHNISCHE UNIVERSITAET HAMBURG-HARBURG	DE
Partner	UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	IT
Partner	UNIVERSITE LIBANAISE	LB
Partner	UNIVERSITY OF CYPRUS	CY
Partner	UNIVERSITY OF JORDAN	JO

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