Local Market Surveys

- Areas of Employability in Renewable Energy

Targeted Students (Beneficiaries)
Bachelor of Engineering:

Environmental Engineering Programs

M.Sc. Input

- Renewable & Sustainable Energy

Knowledge & Skills...

<table>
<thead>
<tr>
<th>Field of Knowledge</th>
<th>Required Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewable Energy Sources</td>
<td>Solar Photovoltaic Systems</td>
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<tr>
<td>Smart Grids</td>
<td>Wind Energy Systems</td>
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<tr>
<td>Energy Management</td>
<td>Fuel Cells Systems</td>
</tr>
<tr>
<td>Power Systems Planning</td>
<td>Energy Storage Techniques</td>
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<tr>
<td>Power Systems Stability</td>
<td>CSP: Concentrated Solar Power</td>
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<tr>
<td>Software packages, ETAP, Power World, Simulink, Ples, PSIM, Retscreen</td>
<td>Environment &amp; Sustainable Development</td>
</tr>
<tr>
<td>Renewable energy sources &amp; systems including energy EU regulations</td>
<td>Green Buildings</td>
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<tr>
<td>Renewable energy sources &amp; systems including energy with network</td>
<td>Special Topics in Renewable Energy</td>
</tr>
</tbody>
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Outcomes & Skills

The graduated M.Sc. Students Should have the following Skills:

1. Very Good English
2. Very Good English
3. Interview

M.Sc. Requirements:

1. Bachelor of Engineering with cumulative of Very Good at least.

Existing Facilities:

Master Plan

1. Four courses each with 9 credit hours including master thesis of 6 hours.
2. In addition to study tours & summer courses conducted abroad, and fully covered by JAMILA project.

Partners

The universities participated in this project are:

- Sapienza University of Rome, Italy
- Northumbria University, UK
- University of Cadiz, Spain
- Palestine Polytechnic University, PS Al-Quds University, Alexandria University, Egypt
- Ain Shams University, Egypt
- Suez University, Egypt

Main Objectives

1. To train high quality professionals in the field of renewable and sustainable energy technologies, coming from different first degree backgrounds such as engineering, architecture, economics and environment;
2. To contribute to answer the labor market demand of high level professionals in REEE field.
3. To improve the employability of graduates of this MSc Course at the national and the international level;
4. To improve the mobility of students at PPU through short educational visits to EU universities and summer courses;
5. To offer a M.Sc. Program based on Local Market Needs with a solid research aspect & problem based learning.