

# MASTER OF RENEWABLE & SUSTAINABLE ENERGY

TEMPUS PROJECT  
ITALY, SPAIN, UK  
& PALESTINE  
Expected start: 1.09.2015  
Location: PPU



Fees: First batch is exempt from premiums.  
الدفعة الأولى من الطلبة معفاة من الأقساط

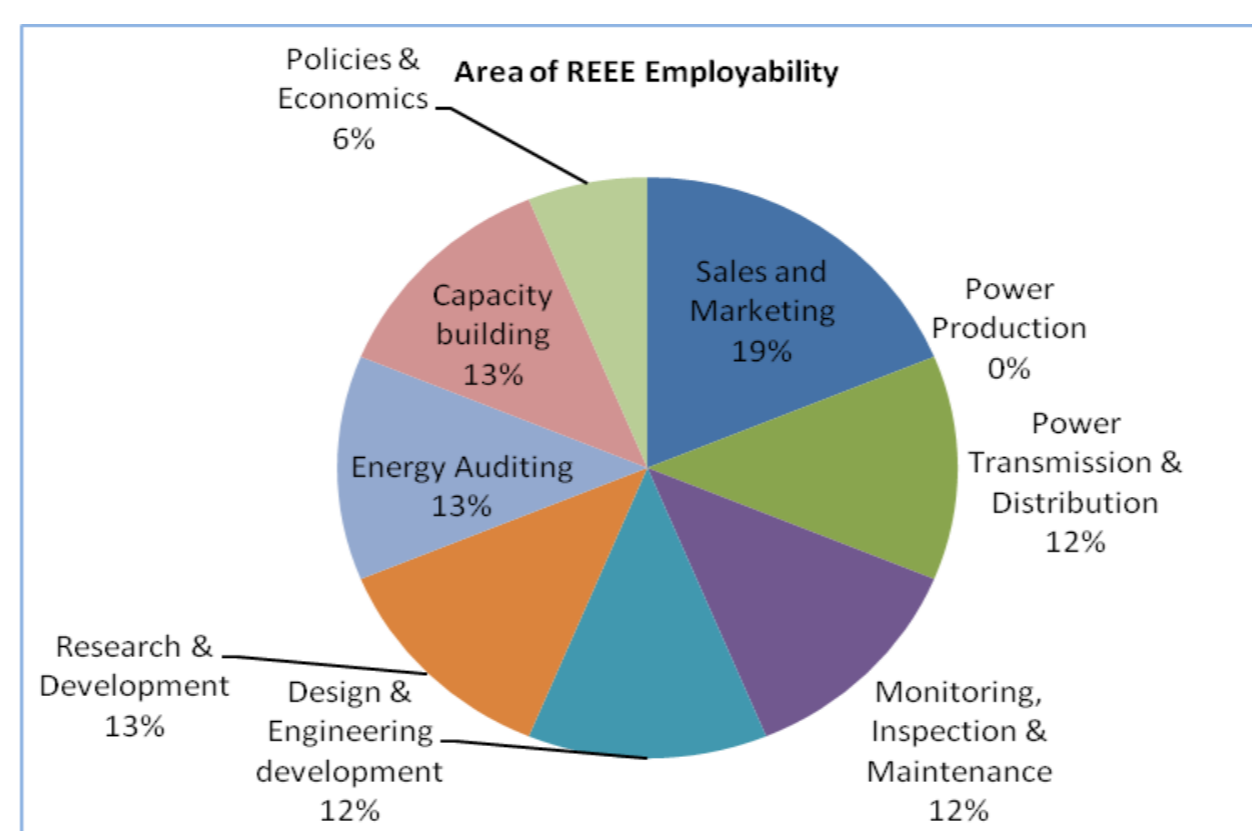
Tempus JAMILA

**JAMILA**  
Joint mAsTer of Mediterranean Initiatives on renewAbLe and sustainAble energy  
TEMPUS PROJECT  
544339-TEMPUS-1-2013-1-IT-TEMPUS-JPCR

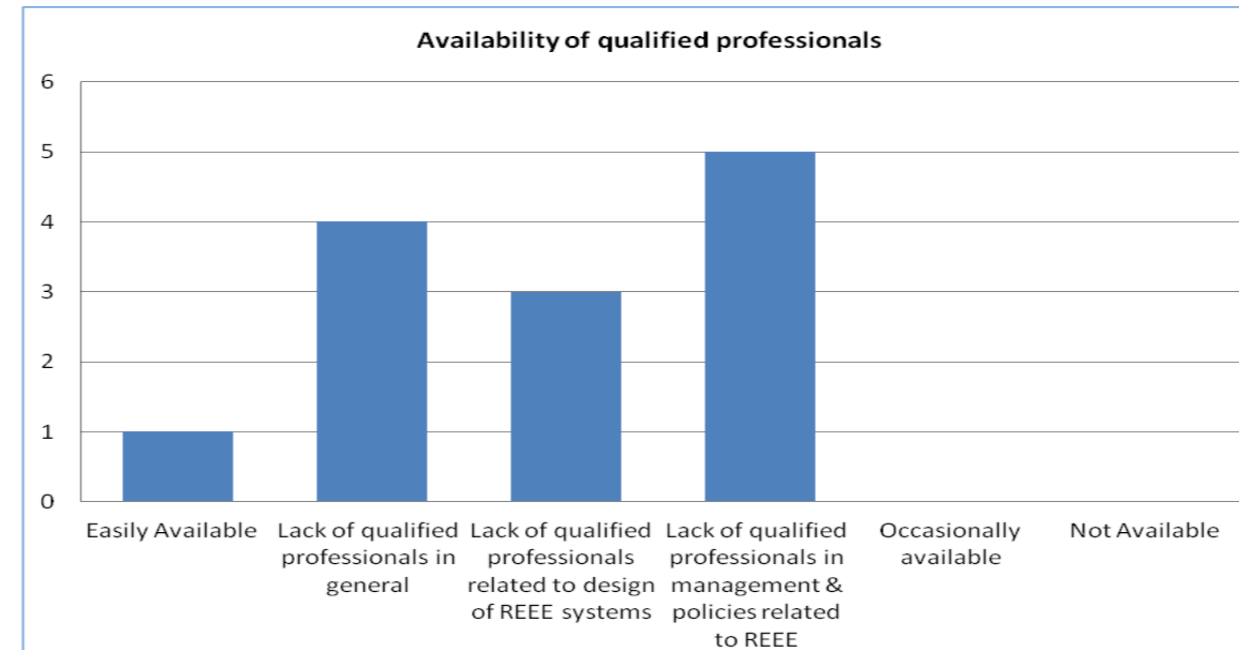
**Introduction**  
Joint master of Mediterranean initiatives on renewable and sustainable energy ( JAMILA) is a joint project between **8 universities from 5 Mediterranean countries with financial support of European Union (EU) under the umbrella of TEMPUS projects.** This project aims at establishing joint master program (curricula reform) in renewable electrical energy engineering ( REEE) that should serve the market needs of these countries to effectively utilizing the renewable energy resources and to help support the sustainability of these sources and local environment.

## Local Market Surveys

-Areas of Employability in Renewable energy

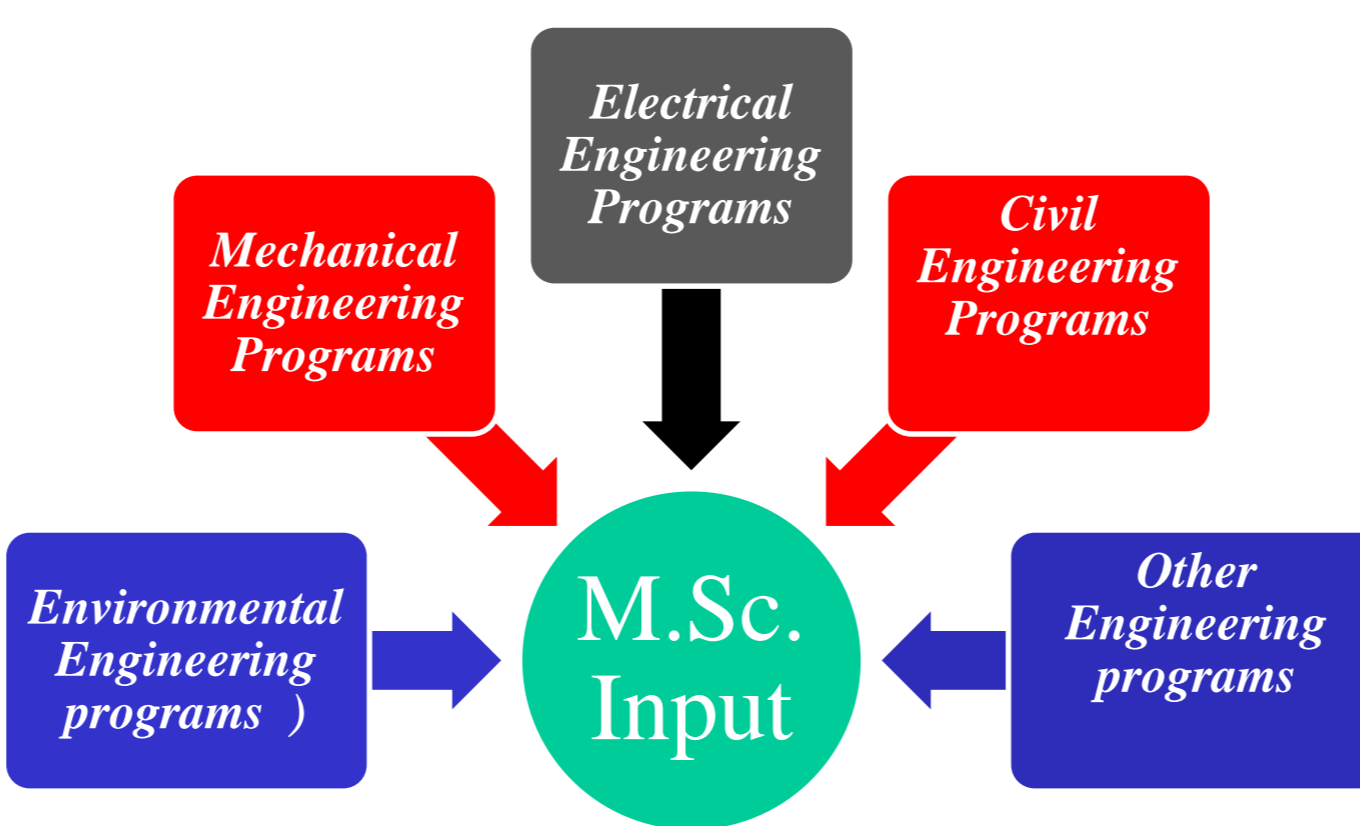


- Availability of Qualified personal in the field of RE



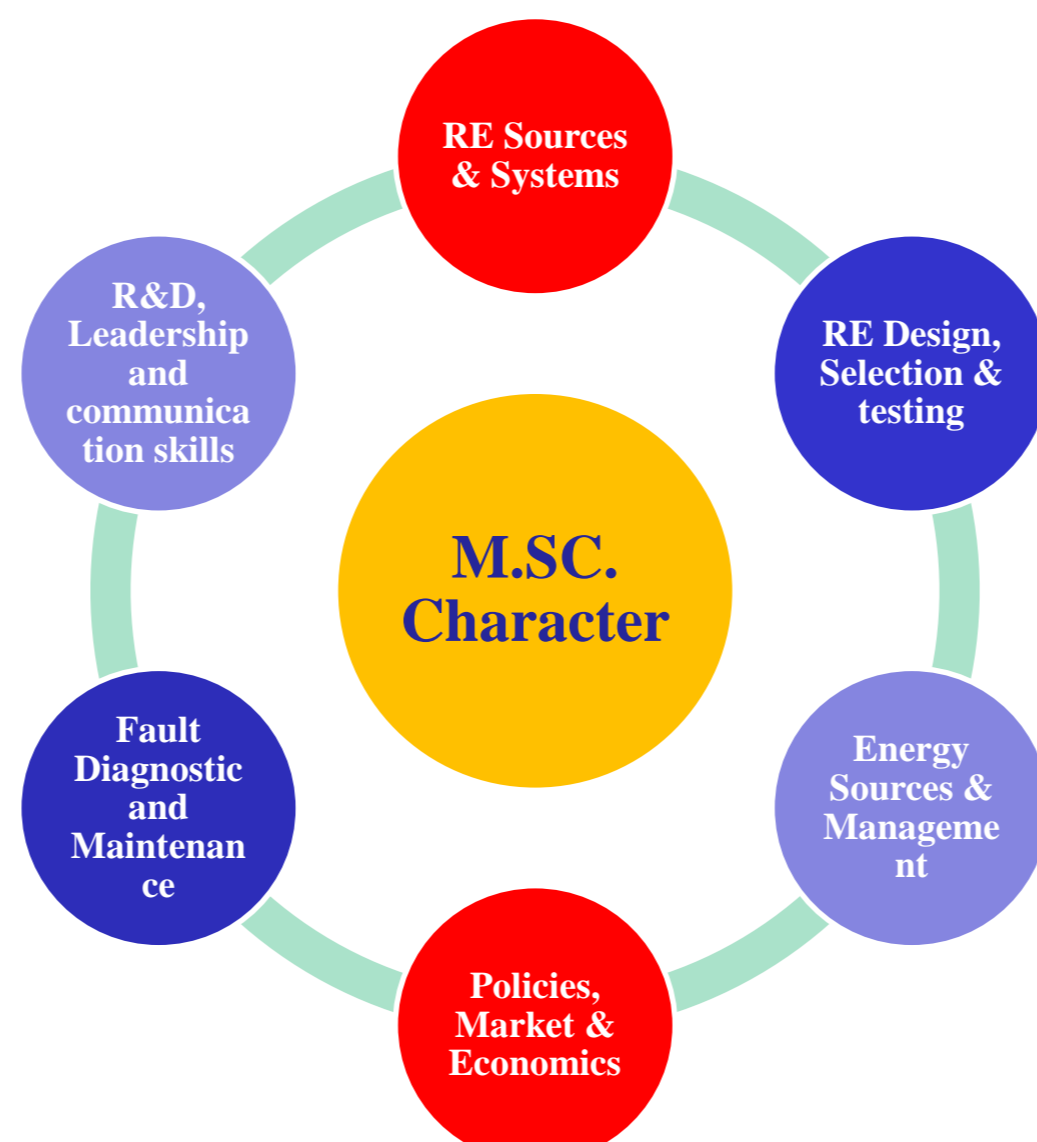
## Targeted Students ( Beneficiaries)

Bachelor of Engineering :



## Outcomes & Skills

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



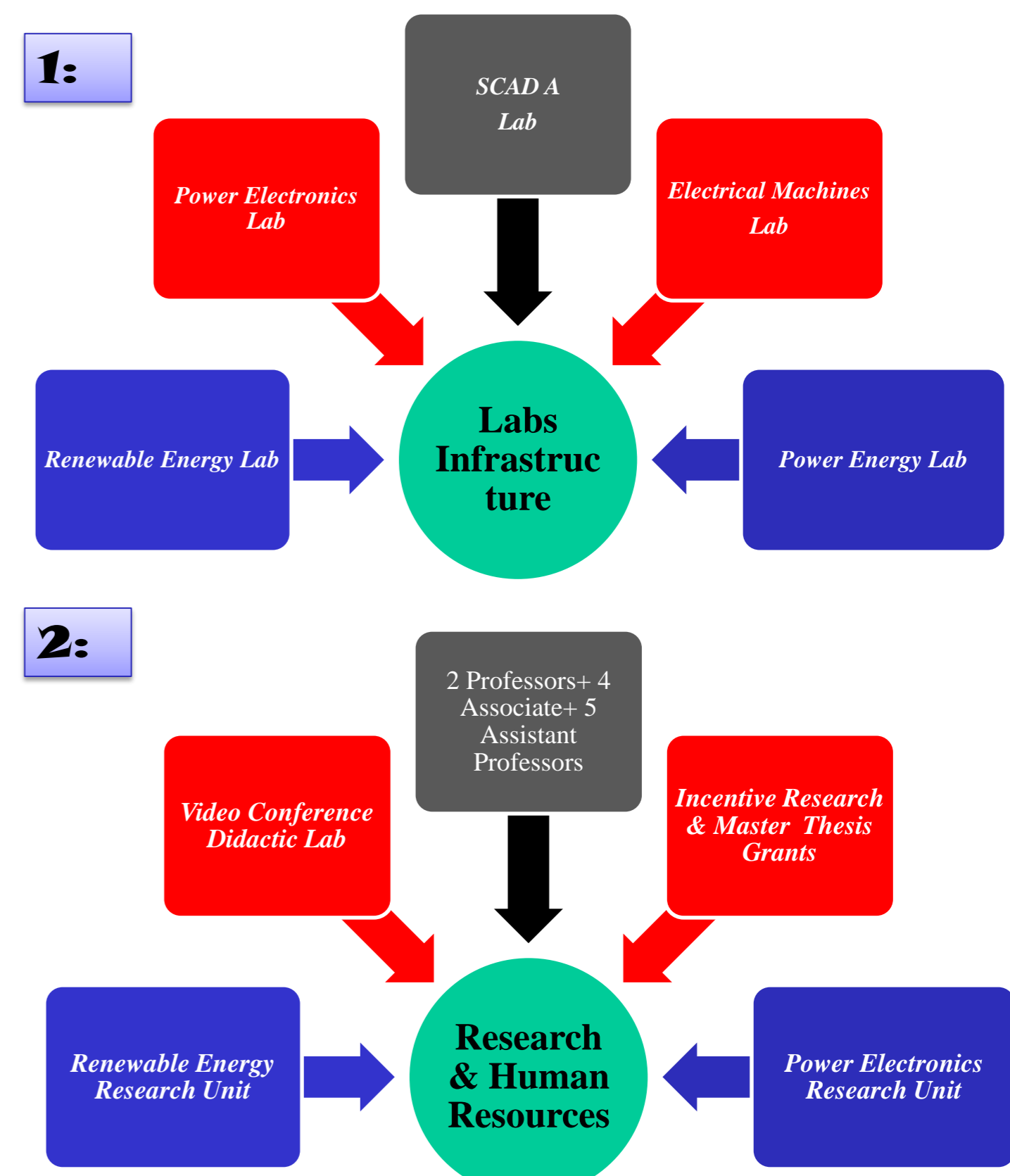
## M.Sc. Requirements:

- 1- Bachelor of Engineering with cumulative of **Very Good at least,**
- 2- **Very Good English,**
- 3- **Interview.**

## Knowledge & Skills...

Field of Knowledge	Knowledge Clustering	Proposed Courses to Cover the Required Knowledge
Renewable energy resources & systems including integrity with network	Renewable Energy	Renewable Energy Sources
		Solar Photovoltaic Systems
		Wind Energy Systems
		Fuel Cells Systems
		Energy Storage Techniques
		CSP- Concentrated Solar Power
		Environment & Sustainable Development
		Green Buildings
		Special Topics in Renewable Energy
		Master Thesis
Conventional electrical energy sources transmission & distribution	Electrical Energy	Industrial Electronics for RE
		Energy Auditing & Efficiency
		Energy Management
		Electrical Power Generation & distribution
		Smart Grids
		Power Systems Planning
		Power Systems Stability
		Software packages ,ETAP, Power World, Simulink, PLECS, PSIM, Retscreen
		Marketing Strategies
		Energy Policies & Economics
Energy policies, management, marketing & economics. Fault detection, rectification & maintenance	Interdisciplinary	Entrepreneurial for RE
		Project Management & Tendering
		Fault Diagnostics & System Maintenance
		Mathematical Simulation & Optimization
Leadership, research & communication skills		Research & Academic Activities
		Research Methodologies

## 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:

### Project Leader

Sapienza University of Rome, Italy-

### Partners

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.