



**Modernising Undergraduate Renewable Energy Education:  
EU Experience for Jordan  
MUREE  
TEMPUS project number 530332-TEMPUS-1-2012-1-JO-TEMPUS-JPCR  
TUG  
Graz, Austria  
3-5 February 2014  
Academic Visits Agenda**

**Attendees**

- Bilal Atieh, Hashemite University
- Hussein Majali, Mutah University
- Osama Saadeh, JUST
- Mohammad Salah; UoJ
- Annette Muetze and Klaus Krishan and other Members of the Department of Electrical Engineering and Information Technology at TU Graz.

**February 3, 2014**

11:00 – 12:00

Presentation of Electric Drives and Machines Institute

Presentation of the research and teaching facilities of the Electric Drives and Machines Institute, the courses the institute is responsible for, and the context these courses are taught in, Annette Muetze

12:00 – 12:30

Lunch Break

12:30 – 14:30

Presentations by Jordanian Partners

Proposed Electric Machines Drives course topics, Osama Saadeh

Research background, courses taught and methodology used, Hussein Al-Majali

14:30 – 15:00

Coffee Break

15:00 – 16:30

Presentations by Jordanian Partners

HU mechatronics engineering program and teaching methodology for the motor drive systems course, Mohammad Salah

The classical and modern ways of teaching, Osama Saadeh

**February 4, 2014**

09:00 – 10:30

Presentations by TUG/EAM – Courses Part 1

“Introduction to Electric Machines”, “Introduction to Electric Drives”, and “Electric Machines for Electric Drives”, Annette Muetze

“Electric Machines for Power Engineering” and “Analytic and Numerical Design of Electric Machines”, Johann Bacher

10:30 – 11:00

Coffee Break

11:00 – 12:30

Presentations by TUG/EAM – Courses Part 2

“Power Electronics”, “Electric Machines and Drives Laboratory”, and “Electric Drives and Machines Laboratory”, Klaus Krischan

12:30 – 13:30

Lunch

13:30 – 15:00

Presentations by TUG/EAM – Courses Part 3

“Control of Electric Drives and Machines” and “Modelling and Simulation of Electric Drive Systems and Machines, Roland Seebacher

“Introduction to Electrical Engineering, Laboratory”, Heinrich Eickhoff

15:00

Coffee Break

15:00 – 17:00

Sightseeing

### **February 5, 2014**

09:00 – 10:30

Presentations by TUG/EAM – Laboratories Part 1

Synchronous Machine, Johann Bacher

10:30 – 11:00

Coffee Break

11:00 – 12:30

Presentations by TUG/EAM – Laboratories Part 2

Switching Power Devices – Werner Konrad

12:30 – 13:30

Lunch

13:30 – 15:00

Presentations by TUG/EAM – Laboratories Part 3

Transformer – Stephan Dunkl and/or

Efficiency determination of induction machine,– Klaus Krischan

15:00

Coffee Break

15:30 – 16:00

Wrap up