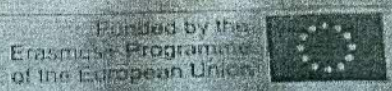
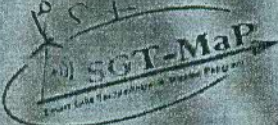


د/ مبراهيم

٢٠١٨/١١/١٩

وإدارة ٥٥٨٢

٢٠١٨/١١/١٩



Aswan University
Faculty of Engineering

٢٠١٨/١١/١٩

٢٠١٨/١١/١٩

السيد الأستاذ الدكتور / عميد كلية الهندسة - جامعة جنوب الوادي

تحية طيبة وبعد ...

في ضوء تفعيل ربط البحث العلمي بالمجتمع الصناعي وذلك من خلال مشروع "تكنولوجيا الشبكة الذكية - برنامج الماجستير ((Smart Grid Technology - A Master Program (SGT-MAP) Erasmus Mundus)) وهذا المشروع هو نوع من التعاون بين جامعة أسوان ومؤسسة إيراسموس موندوس

والهدف من هذا المشروع هو المساهمة في زيادة الوعي بتكنولوجيا الشبكة الذكية من خلال برنامجي تعدي يهدف إلى تعزيز الروابط بين المؤسسات والمؤسسات التعليمية عن طريق إنشاء برنامج ماجستير في مجال تكنولوجيا الشبكات الذكية.

يسرنا ان نعلن عن البرنامج التدريبي عن تطبيقات الالكترونيات الصناعية في مجال الشبكات الذكية والذي سوف يقوم به الأستاذ الدكتور / خالد احمد بجامعة ستراتكلايد وذلك خلال ثلاث ايام وباقي التفاصيل في المرفق

ولسيادتكم جزيل الشكر والتقدير ...

عميد الكلية

الباحث الرئيسي للمشروع

أ.د. لؤي سعد الدين بصرت

أ.د. محمد عبد العزيز مهلل عرابي

للإعلان والتعميم
أ.د. مبراهيم

2018/11/19 10:49



Aswan Power Electronics Center (APEARC)
Faculty of Engineering, Aswan University
Aswan, Egypt



Professional Training Course:
Power Electronics for Smart Grid Technologies Topologies, Converters, Modelling, and Applications
APEARC, Faculty of Engineering, Aswan University

9 - 11 December 2018
10:00 AM. - 05:00 PM

Aim

To develop an understanding of the planning, design, analysis, simulation and control of a range of power electronics converters used for smart grid technologies.

Training Course Description

The training course will be divided to two parts. The first part studies in general the role of power electronics converter technologies, their operation, control and interactions with AC systems. The traditional thyristor-based converter is introduced with basic 6-pulse rectifiers and analysed on a typical large system with the main control loops. The interactions with AC systems through controls and harmonics are analysed. The modern VSC converters are introduced using basic self-commutating converter principles. The VSC controls are presented in a rotating DQ coordinate frame and interaction with AC is explored. Also, in the first part, the course analyses the latest modular multilevel converter topologies including modelling, and control. The course is supported with live simulation on SIMULINK models.

Who should Attend?

This course is intended for practicing engineers, graduate students, and researchers in smart grid technologies and power electronics, who are interested in smart grid technologies and control as well as developing an in depth understanding of the modern tools available for the analysis of transient events in the network.

Timetable

	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-17:00
Day 1 9/12/2018	Lecture 1	Lecture 2	Lunch break	Lecture 3	Lecture 4	SIMULINK tutorial
Day 2 10/12/2018	Lecture 5	Lecture 6	Lunch break	Lecture 7	Lecture 8	Assignment 1
Day 3 11/12/2018	Lecture 9	Lecture 10	Lunch break	Lecture 11	Lecture 12	Assignment 2

Please bring your LAPTOP with MATLAB software installed!

For more information please visit: www.sgt-map.eu

SGT-MaP Partners



Funded by the
Erasmus+ Programme
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Professional Training Course:

Power Electronics for Smart Grid Technologies Topologies, Converters, Modelling, and Applications

APEARC, Faculty of Engineering
Aswan University, Aswan, Egypt

9 - 11 December 2018
10:00 AM. - 05:00 PM

Course Content

- Introduction to power electronics applications in smart grid.
- Thyristor properties.
- Line commutated 6-pulse converter.
- LCC inverter controller.
- IGBT switches.
- Single phase and 3-phase 2-level VSC converter, modelling and simulation.
- 3-level neutral-point clamped VSC converter.
- PWM converter control.
- Multilevel H-bridge converters.
- VSC converter modelling and vector control.
- VSC design and sizing of major components.
- Half bridge MMC modelling and control.
- VSC under fault conditions.

Registration Fee

University Staff/Ass. Staff	250 EGP
Engineer	500 EGP

Attendee who attend the three days and pass the exam will receive a certificate from Strathclyde University, United Kingdom.

** All attendee will receive a certificate of attendance from APEARC, faculty of Engineering, Aswan University

*** Registration fee will include all coffee breaks and snacks.

**** Extra 150 L.E should be paid to attend the dinner (Optional).

For registration please contact Dr. Omar Abdel-Rahim.

maximum Number of attendees is 40 people!

Instructor/tutor Dr Khaled H. Ahmed
University of Strathclyde, UK

Dr Ahmed is a Senior Lecturer (Associate Professor) in power electronics at the University of Strathclyde, Glasgow, UK. He has over 15 years of research experience in power electronics, renewable energy integration, solar energy systems, off-shore wind energy, smart grids, DC/DC converters and HVDC. He has won funding of £1.8 million as Primary and Co-Investigator on projects funded by EPSRC, the EU, the British Council, the Royal Society, and industry. He has extensive experience of working with industry. Dr Ahmed has published over 90 technical papers in refereed journals and conferences, 1 book, 1 book chapter, and a patent (PCT/GB2017/051364). Total citations of 2856 and h-index of 22. Two of his journal papers are rated in the top 1% of those cited in the academic field of Engineering (Web of Science, June 2013). He is a senior member of IEEE, IET member and Chartered Engineer.

Contact: Dr. Omar Abdelrahim
Mobile: 01157741005

SGT-MaP Partners



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