

CONTROL FOR GREEN MECHATRONICS (GREEM)

INTERNATIONAL MASTER

A SPECIALITY OF "CONTROL & ROBOTICS" OF THE FRENCH MINISTRY OF HIGHER EDUCATION & RESEARCH

www.greem-ubfc.fr ; <http://gradschool.eiphi.univ-bfc.fr/> ; www.ubfc.fr

Besançon France, October 20, 2018

Object: Information

To students: M1 and M2 GREEM

Courses title: Siemens Mechatronic Systems Certification Program (SMSCP), level-2

Duration and timetable: 3ECTS, see timetable on ENT

Place: see timetable on ENT

By: Dr. Eng. JEAN BOSCO BYIRINGIRO, DIRECTOR OF SIEMENS TRAINING CENTRE AND SENIOR LECTURER AT DKUT UNIVERSITY IN KENYA

Bio:



Dr. Eng. Jean Bosco Byiringiro (Ph.D, Reg. Eng.) is Director of Siemens Training Centre (<https://siemens.dkut.ac.ke/>) and Senior Lecturer in the School of Engineering at Dedan Kimathi University of Technology (DKUT) in Kenya.

Dr. Jean Bosco is registered as Professional Mechanical Engineer by Engineers Board of Kenya (EBK) and certified as Mechatronics Systems Professional (Designer) by Siemens AG. Germany. His education background is:

- Ph.D, Mechanical Engineering, area of specialization is Micro/Nano Fabrication, Yeungnam University, South Korea, 2012.
- MSc. Mechatronic Engineering, Jomo Kenya University of Agriculture and Technology, Kenya, 2009.
- BSc. Electro-Mechanical Engineering, Kigali Institute of Science and Technology, Rwanda 2005.
- Professional Certificate of Secondary Education, Option Electro-Mechanical, ETO-Muhima, Rwanda 2000.

Dr. Jean Bosco has over 18 years of both industry and teaching experience. He supervised research/innovation projects at PhD, MSc and BSc levels and published a considerable number of books and papers in peer reviewed journals.

Indicative outline of the courses:

The unit prepares the students to the level-2 SIEMENS certification. An indicative outline is presented below:

- Course 1: Process control technologies
- Course 2: Introduction to Totally Integrated Automation
- Course 3: Automation systems
- Course 4: Motor control
- Course 5: Mechanics and machine elements
- Course 6: Manufacturing processes