

A student action based teaching and research collaboration in conceptualizing of mechatronics and robotics green applications

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NORWEGIAN CENTRE FOR
INTERNATIONAL COOPERATION
IN EDUCATION

The project supported by DIKU www.siu.no

The Norwegian Agency for International Cooperation and Quality Enhancement in Higher Education (DIKU, previous name SIU) is a Norwegian public sector agency that promotes international cooperation at all levels of education.

DIKU is located in Bergen, the 2nd largest city of Norway.

DIKU announces many supporting programs annually

The project goal:

- **Generating and increasing real student mobility for both sides.**

The operative goal

- **Finding a best match for student mobility for both side, in term of duration, study disciplines and course or student projects.**
- **Identify and try out the best option for the student mobility between LETI and OUC.**

Expected academic exchanges:

- **The project will generate teacher exchanges, identify and define a joint research topic for OUC and LETI teams.**

Expected results:

- Expected technical results will be interesting for further opening and testing of **alternative energy efficiency**, applied or used for example on OUC student car project competition.
- Expected academic exchanges will be **guest lectures given by LETI and OUC involved teachers** during their mutual visits and generating more student projects contributing to the topic conceptualizing and further testing.
- Expected student mobility
- Try out different options for student mobility, as very short term in **one week, short term one month or summer school, and long term as a semester or three months options** through the project stay.

Expected results relevant to project operation (work package WP)

WP1 (2019):

1 OUC student 3 days

WP2 (2019):

1 LETI student 3 days

WP3 (2020):

2 OUC students to LETI summer school 3 weeks

WP4 (2020):

2 LETI master preferably to OUC 3 months

All staff and teachers must target on and assist to these operations

Total budget for the project NOK 300 000,-

- **The project period lasts 31 December 2020 (2 years)**
- **Only supported direct costs, no wage no equipment**
- **Involved institutions own contributions in working hours**
- **Requirements for report and disseminations**
- **Need to involve in student mobility**
- **Need to balance gender equally**

Involved and contributed LETI colleagues

- Dr. Sentyabrev, Yuriy V. Dean, has a good overview over LETI competence and can direct resources coordinating for the collaboration process.
- Dr. Samokhvalov, D.V. is an active researcher in vector control techniques and many other fields.
- Dr. Weinmeister, A. V. has expertise in autonomous parking control systems and others as well.
- Dr. Fridrikh, Anastasia I. has a supportive role in the project.
- Ms. Kiseleva, Maria is LETI director of international exchanges and has a very good overview over LETI resources and helps further coordinating.

Involved and contributed OUC colleagues

- Professor Mihet, Nicolae Lucian is a professor of green energy management and has a very good overview over technology development in this field.
- Dr. Olav Aaker is a mechatronic engineer taking care of the project conceptualizing of energy efficiency of DC motor.
- Dr. Førrisdahl, Ole Kristian contributes his competence in thermodynamics and energy efficiency calculation.
- Dr. Blauhut, Daniela and Dr. Tolsby, June Merete Solberg, both are female colleagues in product and service design engineering and contribute their competence in practical design of energy efficiency of DC motor.
- Dr. Hong Wu, the responsible coordinator for the project

The main partner – Østfold University College

Budget, project progress, report, disseminating Norway

**The collaborating partner – St. Petersburg Electrotechnical University
"LETI"**

Actions and activities at LETI in Russia

The main partner responsible coordinator

Dr. Hong Wu, overall project action and activities

Reporting to DIKU www.siu.no

The collaborating partner responsible coordinator

Maria Kiseleva, Director, International Academic Mobility Office.

overall project actions at LETI in Russia

Facilitating and assisting project actions at LETI in Russia

How shall we activate this project so we conduct the project successfully and beneficially for both sides?

Questions? Comments?

Thanks!