

**【Name of project】**(Adopted year: FY2011, Type B-1)

Japan-US Advanced Collaborative Education Program (JUACEP)

**【Aim of project, Ideals for Global Human Resources on project】**

To provide top-level international research-based education for master's course students in Engineering, to stimulate Japanese students and broaden their English ability and scope through co-study and co-work with overseas students in a multi-cultural environment.

**【Summary of project】**

To carry out joint education with the University of Michigan and University of California Los Angeles (UCLA).

Exchange students and faculty to promote collaborative research and develop a global educational program that will lead to a joint graduate school in the future.

## Forming the University Network with Quality Assurance

Nagoya is called the "hub of Japanese technology." Nagoya University takes this advantage to provide hands-on research education by working closely with local but global industrial companies. The official agreement between NU and the Michigan universities allows credit exchange and transfer that ensures the quality of the program.



〈Orientation in Nagoya〉

〈With friends at UM〉



### Short (Summer) Exchange Course (2 - 3 months)

**Outbound:** Master's course students visit University of Michigan (UM) or UCLA as research scholars with a J1 visa. Four credits are given by Nagoya University.

**Inbound:** Graduate students at UM/UCLA come to Nagoya University and carry out independent research along with auditing several lectures. Nagoya University gives a maximum of three credits, which are counted as graduation credits for the participants from the University of Michigan.

### Medium & Long-Term Exchange Courses (6 - 12 months)

**Outbound:** Students carry out research that leads to publication in scientific journals and presentations at academic conferences. They have opportunities to use state-of-the-art equipment and facilities at the American universities along with auditing several lectures. Nagoya University gives 2 to 6 credits.

**Inbound:** Students participate in NU's research groups and carry out researches. A maximum of three credits are given by Nagoya University.

## Contents of the Programs, Preparation for the Start of the Programs

〈Hands-on course and Research presentation〉 **FY2015**



**Outbound:** 5 graduate students visited the UM/UCLA for 2 months. Also, 11 students participated in the medium course (6 months). Some students have presented their results through the program at academic conferences.

**Inbound:** 23 students from the UM/UCLA joined the 3 month-course. The program consisted of research internships, several lectures on automotive and production engineering, and an automobile plant tour.

**Faculty exchange:** Prof. Kurabayashi at University of Michigan stayed in Nagoya for 1 month and educated Nagoya University students. Faculty and staff at Nagoya University, UM, and UCLA had meetings and successfully agreed that we continue this JUACEP program next year (after the end of the funding).

## Student-Mobility

**Outbound:** As planned, total 176 NU Graduate School of Engineering students have visited the American universities through student exchange and workshops.

**Inbound:** As planned, total 70 students from American universities have visited at Nagoya University.

	2011	2012	2013	2014	2015
Outbound	37	50	51	22	16
Inbound	0	10	18	19	23

## Promotion of Student Mobility Environment

**Outbound:** The coordinators (faculty at the American universities) support the visiting students to maximize their productivity. An English course is offered for Nagoya students to increase their English proficiency.

**Inbound:** Nagoya University provides all kinds of support, including university dormitories, counseling, Japanese classes, and careful mentoring by the hosting professors, teaching assistants, and the JUACEP team.



〈Program information session at UCLA〉

## Internationalization of the University, Information Disclosure and Publication of Outcome

**Program PR:** JUACEP are lively publicized on the homepage at <http://www.juacep.engg.nagoya-u.ac.jp>.

**Publication and presentation:** Several students have presented/will present their achievements through the program at academic conferences. Some have published/are preparing journal papers.