

Decision of Institutional Certified Evaluation and Accreditation

National Institute of Technology, Ibaraki College complies with the Standards for the Establishment of Colleges of Technology and other relevant laws and regulations, and meets the Standards for Evaluation and Accreditation of Colleges of Technology set by NIAD-UE.

Good practices identified by the review committee include:

- Introducing problem-based learning (PBL) in all associate course experiments as an educational method to foster creativity. For example, students are instructed to design parts that would have a major impact on the experiment results, to create original mechanisms in group work producing robots, to be creative in evaluation methods for set goals, and to determine the structure of unknown specimens through various analysis methods, going through the logical process of determining structures through group debate,
- The Exercise in Systems Engineering course as a special experiment program for diploma course first-year students (involving teams comprised of students from four courses) and the Experiment course for diploma course second-year students (involving teams comprised of students from four courses for all themes), enabling students with different technical knowledge to communicate with each other in conducting project experiments; and the Information Transmission Project-based Experiment course in which the students plan and produce radio programs using recording and editing equipment, and are evaluated by professional radio station staff. These initiatives have been effective in fostering creativity,
- An extremely high employment rate (number of students employed/number of students seeking employment after graduation) for both the associate and diploma courses, with students employed in the manufacturing industry, information/communications industry, and other employment befitting of the engineers the college aims to educate; and an extremely high rate of students advancing to higher education (number of students advancing to higher education/number of students wishing to advance to higher education) for both the associate and diploma courses, with students advancing to engineering universities or graduate schools that are related to the students' associate/diploma courses,
- The FY2010 initiative to expand engineering design education by providing lectures to enhance the engineering design skills of all teaching staff, performing faculty development (FD) activities that explain the importance of engineering design

education or educational methods that equip students with engineering design abilities, *etc.* This initiative has achieved results in enhancing the quality of education, and

- Implementing the “Manufacturing Education Navigator Project” comprised of the “Internship Navigator Project” and “Manufacturing Engineer Training Course” programs. In the “Internship Navigator Project,” experienced engineers seek out new local companies willing to accept interns, conducting meetings with the companies beforehand and providing instructions and other guidance for the students’ practical training. The “Manufacturing Engineer Training Course” welcomes local corporate engineers each year to give lectures to fourth-year students before job hunting, talking about successful and unsuccessful cases in choosing jobs, the engineering spirit, and other aspects based on their own experience. These initiatives have achieved results.

Areas for improvement identified by the review committee include:

- Insufficient details of the evaluation results in disclosed annual plans/achievement reports. Departments submit annual plans and subsequent achievement reports to the Committee on Mid-term Plan, which then reviews the achievement levels of each item. The Committee on Self-Evaluation then evaluates the achievement reports, and the comprehensive self-evaluation results regarding overall college activities are then disclosed on the website and in publications. Despite these efforts, the evaluation results in disclosed annual plans/achievement reports are insufficient.

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