

## 7. INDUSTRIAL CENTRE TRAINING

It is of utmost importance for students to have a chance to develop hands-on experience in various engineering domains in order to prepare for pursuing a career in the engineering profession. Industrial Centre (IC) Training is a practical training element in this curriculum to serve this purpose.

During Semester 1, Semester 2 and Summer Term of Year 1, students will undergo practical training in the Industrial Centre. First-year training is composed of two subjects, namely Engineering Communications and Fundamentals (IC2105) and Industrial Centre Training I for EIE (IC2111). IC2105 will be scheduled to Semester 1 and Semester 2 while IC2111 will be scheduled to the Summer Term. In the Summer Term of Year 2, students will undergo Industrial Centre Training II (IC367) in the Industrial Centre. IC2105 carries 4 training credits, IC2111 carries 5 training credits and IC367 carries 4 training credits. They are graded in the normal manner from A+ to F and will be counted in the evaluation of the Grade Point Average (GPA). However, they will not be counted towards the credit requirement of the award or the evaluation of the Weighted GPA. Students must pass all Industrial Centre subjects in order to be considered for the BEng award. The IC training will be graded at the end of the Summer Terms of Year 1 and Year 2. If the assessment of an Industrial Centre Training, which is completed in a particular academic year, cannot be done in time for the grade to be reported in the particular year, the grade will be reported during Semester One of the following academic year.

### 7.1 Contents of Industrial Centre Training

Industrial Centre (IC) Training comprises three subjects: IC2105, IC2111 and IC367. The detailed syllabus of these subjects can be found in the syllabi section in this booklet. In Year 1, IC Training covers engineering drawing, the use of computer aided design tools in electronic and mechanical engineering environments, the use of scientific computation tool, industrial safety and practice in electronic and information engineering. IC Training in Year 1 provides a comprehensive set of training in disciplines relevant for the development of a professional engineer in Electronic and Information Engineering.

Industrial Centre Training II (IC367) basically takes the form of an engineering project, with three to six students in a team working under the guidance of staff members from Industrial Centre or from the Department. Typically, the team is charged with the task to complete an electronic or information engineering project from scratch. This will include market research, idea presentation and finish with a working prototype that can enable further development into manufacturing. Students will gain experience,

awareness and practice in a full-time industrial like environment for development in professional attributes and technical competence in handling engineering project. This will include innovation and creativity, team work, proto-type building, engineering document preparation, planning and presentation.

## 7.2 Assessment of Industrial Centre Training

The assessment method of Industrial Centre Training is based on 100% continuous assessment. Technology training module will be assessed on completion of that module. The components of assessment for technology training modules are workshop report, competency in practical work and the result of an appreciation test. For drawing and industrial safety classes, components of the assessment are assignments and tests. At the end of the training course, a training log book will be submitted by the student for assessment. The training log book summarizes the work undertaken by the student in technology training modules and includes an overall appraisal of the training programme.

To complete the Industrial Centre Training successfully, students must demonstrate good professional attributes including responsible attitude in training, excellent attendance with active learning, exercising best practice and care in equipment and tools while observing all safety codes. Detail of assessment scheme is available from Industrial Centre. If a student fails in a module, he/she will be required to repeat that module, normally during the summer.