

The Hong Kong University of Science and Technology

UG Course Syllabus for ELEC2991

Course Title: Industrial Experience (Electronic Engineering)

Course Code: ELEC2991

No. of Credits: 0

Any pre-/co-requisites: N/A

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Course Description

This course is designed to allow students to acquire a basic understanding and the skills of the practical aspects of the Electronic Engineering profession. During the internship, students must attach to a company in a study-related position for no less than 6 weeks. Each student will have an academic supervisor (as the primary supervisor) and an industry co-supervisor from the company, both of whom have the expertise to provide advice to the student. Students are expected to complete at least 6 weeks of full-time (or equivalent) industrial training. Prior to starting their placement, students must outline their expected learning outcomes and, upon completion, submit a report detailing their learning outcomes and achievements.

All ELEC/CPEG students will be automatically registered in a new zero-credit course, ELEC2991 Industrial Experience (Electronic Engineering)/CPEG1971 Industrial Experience (Computer Engineering), starting from the spring semester of their year 2. Enrollment in ELEC2991/CPEG1971 will continue until student has completed a full-time internship of at least 6 weeks (or a cumulative of 240 working hours) at a company, in a position relevant to the student's program of study. 6-month/1-year internship are also strongly encouraged. Some has joined the new CO-OP scheme to conduct industrial FYP in the same period. Exception allowed for internship at one or more companies over non-contiguous 6 week period (or a cumulative of 240 working hours within the same year). Part-time internship will only be considered under exceptional conditions and requires special approval. All students must also complete the USTSEEB Safety Training module. Students should approach ITC for training schedule or visit <https://egitc.hkust.edu.hk/> for details.

Enrollment in ELEC2991/CPEG1971 will continue until internship requirement is fulfilled. If students do not complete an internship by the end of Year 3 summer, they will be required to complete the industrial training modules set by the HKUST Industrial Training Center (ITC) in their final year.

Before starting an internship, students should apply for approval and submit their CV on the e-Advising System. Internship Experience Coordinator of ECE will check whether the internship position can provide an industrial exposure experience and is relevant to the students' program of study. A position at a company is generally approved as long as it is broadly related to the program, but a position at a university is generally considered to lack industrial exposure experience. A brief report together with supervisor feedback need to be submitted online upon completion of the internship.

Intended Learning Outcomes (ILOs)

By the end of this course, students should be able to:

- A. Have a good understanding and appreciation of the characteristics of an Electronic Engineering work environment, including employer expectations, management structure of a team, industrial standards and practices, trends, and common issues in Electronic Engineering.
- B. Carry out basic duties in an Electronic Engineering work environment.
- C. Exhibit good etiquette in the workplace.
- D. Work independently as well as in a team environment.
- E. Communicate effectively and efficiently with peers, supervisors, and possibly clients.

Assessment and Grading

This course will be assessed using criterion-referencing and grades will not be assigned using a curve. Detailed rubrics are provided below, outlining the criteria used for evaluation. During the training period, students should maintain a training journal to document their progress. The journal must include:

1. Location and Title of the Internship: Summarize where practical training took place and how the internship fits into the overall structure of the host organization.
2. Responsibilities: Describe the actual responsibilities undertaken during the internship.
3. Skills and Knowledge: Detail the skills and knowledge required to fulfill the work responsibilities and explain how these have evolved throughout the work experiences.
4. Outcome: Describe the placement experiences and major achievements with concrete examples.

Assessments and Grading Rubrics

Assessment Task	Contribution to Overall Course grade (%)	Due date
Final Report	100%	Upon Completion of Internship

* Assessment marks for individual assessed tasks will be released within two weeks of the due date.

Mapping of Course ILOs to Assessment Tasks

Specific assessment methods/tasks	% Weighting	Intended learning outcomes (ILO) to be assessed				
		A	B	C	D	E
1. Placement Report	100%	✓	✓	✓	✓	✓
2. Placement Questionnaire (Optional item)	0%		✓	✓	✓	✓

Final Grade Descriptors:

[As appropriate to the course and aligned with university standards]

Grades	Short Description	Elaboration on subject grading description
P	Pass	Has threshold knowledge of core subject matter, potential to achieve key professional skills, and the ability to make basic judgments. Benefits from the course and has the potential to develop in the discipline.
F	Fail	Demonstrates insufficient understanding of the subject matter and lacks the necessary problem-solving skills. Shows limited

		ability to think critically or analytically and exhibits minimal effort towards achieving learning goals. Does not meet the threshold requirements for professional practice or development in the discipline.
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Course AI Policy

The course allows the use of generative artificial intelligence tools to complete assessment tasks.

Communication and Feedback

Assessment marks for individual assessed tasks will be communicated via Canvas within two weeks of submission. Feedback on assignments will include [specific details, e.g., strengths, areas for improvement]. Students who have further questions about the feedback including marks should consult the instructor within five working days after the feedback is received.

Resubmission Policy

Resubmitting work or reassessment opportunities within 2 weeks are allowed.

Required Texts and Materials

N/A

Academic Integrity

Students are expected to adhere to the university's academic integrity policy. Students are expected to uphold HKUST's Academic Honor Code and to maintain the highest standards of academic integrity. The University has zero tolerance of academic misconduct. Please refer to [Academic Integrity | HKUST – Academic Registry](#) for the University's definition of plagiarism and ways to avoid cheating and plagiarism.

[Optional] Additional Resources

Internship job online platforms.

<https://ece.hkust.edu.hk/programs/internshipprogramelec2991>

https://career.hkust.edu.hk/web/page.php?section=find_a_job

<https://seng.hkust.edu.hk/iei/opportunities-for-students>

<https://www.jijis.org.hk/>

<https://ece.hkust.edu.hk/students/careers>