

Bachelor of Engineering (Hons) Total Quality Engineering aims to equip students with analytical, technical, managerial, and behavioural skills / knowledge in aspects of contemporary quality and reliability engineering, product safety, health and environmental compliance, and related technologies in order to prepare them to play key professional role in the global manufacturing industry amidst increasing and evolving QRHSE challenges. Students will acquire a broad understanding of the concepts, techniques and tools in the subject domain to enable them to identify and tackle diverse problems with effective use of contemporary technology and solutions in the quality engineering and related aspects.

Programme Intended Learning Outcomes:

Upon successful completion of this Programme, students should be able to:

- Demonstrate multi-disciplinary knowledge and skills in the engineering design, methodologies, analysis and improvement of a manufacturing system in the areas of customer interface, product design, process design and control, supply management, and product assurance and compliance to meet the requirements of health, safety and environmental regulations;
- Apply the principles, analytical skills, computational techniques, modelling tools, experimental practices in the subject domain of the Total Quality Engineering and related aspects;
- Demonstrate required problem solving ability and skills in quality and reliability engineering, and product safety, health and environmental compliance to cope with the dynamic nature of the global manufacturing industry;
- Design, develop, implement and improve total quality engineering systems that integrates people, material, information and equipment.
- Meet the required levels and standards perceived by the potential employers with experience acquired through practical hands-on projects and exposure to industry during their studies;
- Have substantial exposure to real-life working environment in industries if the students opt for industrial internship (cooperative education scheme);
- Develop the attitude of life time learning and take part in continuing education opportunities;
- Meet the core competency requirements for corporate membership of professional bodies, such as the Hong Kong Institute of Engineers (HKIE), American Society for Quality (USA), and Chartered Quality Institute (UK).