

Keynote Speaker

Dr Eric Liu

Vocational Training Council, Hong Kong

Dr. Eric Liu has recently been appointed as Deputy Executive Director of the Vocational Training Council (VTC). He is primarily responsible for VTC's policy issue on dual-track training and overseeing the strategic development of Engineering and Design disciplines. He is also committed to develop strategic collaboration with local industry partners on vocational and professional education and training (VPET).



Dr. Eric Liu graduated from The University of Hong Kong with a Bachelor of Science degree in Industrial Engineering and received his Doctor of Education degree from the University of Technology, Sydney, Australia. He is a Chartered Engineer and has extensive experience in engineering and IT areas. In the past years, he had served The IET Hong Kong as Chairman of the Manufacturing and Industrial Engineering Section and he was also the Founding Chair of Hong Kong ACM SIGGRAPH Professional Chapter.

Dr. Eric Liu joined the VTC in 1994 and has since held a number of positions including Head of Department of Multimedia and Internet Technology of IVE (Tsing Yi), Vice Principal (Academic) of Hong Kong Design Institute, Principal of IVE (Tuen Mun) and Principal of IVE (Tsing Yi). Currently, he is committed to lead the VTC's strategic initiative of promoting STEM Education and applying Augmented Reality / Virtual Reality technology for learning and teaching.

Plenary Session Delivering an Inspiring STEM Education: A Vocational and Professional Education and Training (VPET) Perspective

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The Vocational Training Council (VTC) is the largest Vocational and Professional Education and Training (VPET) provider in Hong Kong and offers a whole spectrum of programmes in addressing the industry manpower needs of professionals and para-professionals across industries, and with a prominent presence in STEM and continuous nurturing of young talents through its Applied Science (AS), Engineering (ENG) and Information Technology (IT) Disciplines in the last 35 years.

Promotion and enhancing STEM Education is one of the VTC's new strategic initiatives to cope with the rapid economic, scientific and technological developments in Hong Kong and the region. Under this initiative, VTC STEM Education Centre is recently established in 3 campuses across Hong Kong to provide a collaborative interface between the key stakeholders – VPET students and teachers, students and teachers in local secondary schools, and industry partners and professionals – to deliver an inspiring STEM education with the following features:

- (i) Fostering innovative learning of STEM subjects through technology enhanced learning with original development of virtual reality/augmented reality and other e-learning packages;
- (ii) Enhancing professional development of STEM teachers in VPET institutes and local schools including interactive facilitation of cross-disciplinary STEM projects and workshops;
- (iii) Arousing students' interests in STEM through hands-on and minds-on participation in structured workshop and experience with signatory STEM projects and competitions as a drive for innovation;
- (iv) Partnering with industry professionals in the promotion to the young talents of the latest and imminent technology developments across STEM industry sectors; and
- (v) Collaborating with international institutional partners in STEM workshops and projects in mutual advancement of both technological and pedagogical development of STEM learning.

In realizing these aims, VTC STEM Education Centre is supported by a dedicated design of facility and equipment in its signatory zoning including Mathematics and Science Corner, STEM Activity Workshop, VR/AR Learning Zone and Engineering and Technology Zone. More highlights about the development and implementation of the events and collaborations at the Centre will be covered in this presentation in details.