University Centre Colchester (UCC)

Staff Profile

The content below, and the accompanying profile image, will be used for the purpose of documenting your work at UCC, as well as promoting UCC's academic provision. This includes, but is not limited to, print (such as leaflets and prospectuses) and digital fora (such as on the College's website), as well as by external organisations authorised by UCC.

The College will retain and use the information and image(s) for the purpose(s) outlined above for the period you are an employee of Colchester Institute.

Name:	Philip W M Cheung
Job title/role:	Lecturer in Information Technology
Subjects taught/administrative responsibilities:	Philip teaches the following modules: Cisco Networking Academy courses, IT Infrastructure, Penetration Testing, Secure System, Advanced Server Technology, Computer Architecture, Programming. He is a member of the UCC research committee.
Qualifications and Membership of Professional bodies: (At degree level: subject and level only; no dates required).	BSc (Hons) Electronic Engineering, University of Essex MSc Computing, University of Sunderland PGCE, Colchester Institute
Experience in Education: (where you studied/ have taught/ have worked)	While working as the Manager of the Toshiba Electronics Design Centre in Hong Kong (1986-95), Philip started to work as a part-time lecturer for the Open University of Hong Kong. In 1995 he was appointed as Senior lecturer to the Vocational Training Council in Hong Kong, a post he held until 2008. In 2009 he joined the University of Essex before taking up his present appointment in 2012 at the University Centre Colchester.
Biography and personal interests: (50-75 words) NB: As part of your profile page, UCC may wish to record a short video interview with you for inclusion on the website.	Philip's expertise is in electronic and IT system development, especially in cloud based E-commerce and Internet of Things framework. The recent focus is on the security aspects of Internet of Things systems, in particular the research of security protocols and features for low power, low resources internet of things devices and servers. In his leisure time, Philip enjoys hiking, travelling as well as cooking.
Professional practice / research interests: NB: If you wish to do so, please submit separately up to three examples of your work, which you would be happy to see published on your UCC staff webpage. This may include past conference papers, links to publications (if not included in this section), filmed/recorded performances, or visual images.	Philip's current research project is focused on cyber security penetration test training platform. The aim of the research is to development a cost effective and secured platform for cyber security penetration test practices and training. The platform is to support the teaching of cyber security modules for degree courses and higher-level apprenticeship, as well as for the research and development of penetration test applications.
Link to personal (professional) website: (where applicable)	Conference papers M. Rahman, W. Cheung. *Cloud Computing, Security Issues and Potential Solution by Using ICMetrics or Biometrics Based Encryption*. ACEC-2013, Zurich, October 2013. S. Ehsan, A. Clack, W. Cheung, A. Bais, B. Menzat, N. Kanwal, K. McDonald-Maier. *Memory-Efficient Design Strategy for a*

Publications/consultancy/knowledge
transfer:
(where applicable)

Current projects: (where applicable)

Information controller: Ashley McMullin, Ashley.mcmullin@colchester.ac.uk