AeU’s evolving computer technology

COMPUTER technology as one of the most competitive industries in the country is generating for nearly two-thirds of the 1.3 million jobs demanded by Science & Technology (S&T) or ICT-dependent industries. Even with high salaries associated with ICT professionals, the local industry can only cover around 30 per cent of professionals and skilled workers supply.

Catching the industrial needs, Asia e University (AeU) offers a unique Work-based Learning (WBL) programme – Bachelor of Technology (Information Technology) with Honours or BTech (IT) (Hons) that substantiate marks for doing jobs as its core assessment.

The B Tech (IT) is suitable for working students or professionals who are interested in studying less theory and more practical about IT technical skills and knowledge.

The School of Information and Communication Technology (SICT) formulates an integrated curriculum for the programme to enhance learner’s knowledge and skills to understand and manage technology and technological changes particularly in IT.

The programme aims to produce well-versed graduates with a balance of technical expertise, critical awareness as well as the ability and desire to continue learning while progress through their professional career. This programme open new opportunity for potential students to further study by utilising their current job and working experiences through WBL pedagogy.

As such, BTech (IT) is most ideal for working students as it is designed to recognise and match the learning outcome of the course to the work experience and the activities or output resulted from the workplace.

There are many graduates from diploma certificates who are already in the industry involving in various areas of IT. The BTech (IT) specialisations have been designed in consultation with industry representatives and are supported by active research at the University.

Students in this programme will benefit from the collaboration that has been established between AeU and major ICT players in various technologies ranging from computer system, e-learning, software development and telecommunications.

Students will have the opportunity to develop skills in analysis, design, implementation and evaluation of many aspects of IT technology using new and established techniques and software tools.

Based on their field of interest, student is free to choose one out of four specialisations offered by the programme: Computer Network Security, Web and Mobile Computing, Service-Oriented Architecture (SOA), and Software Development. These emerging fields in ICT are the essentials elements to produce graduates who are capable of managing large scale communication networks and security, build mobile applications for IPAD and Android-based devices, cloud computing and other areas.

Students are required to produce three IT prototypes in the projects that would ensure the ability in the technical knowledge and its application for business uses. BTech (IT) course is conducted using relevant project-based learning methods with strong emphasis on the practical components for students to practice and experience.

The assignments given to the students are rather flexible in such way that it is designed towards the nature of the work.

BTech seeks to develop graduates who are proficient with technical skills and knowledge related to computing technology, ability to demonstrate mastery of skills in solving the IT technical problems and issues, as well as exhibiting the ability to identify and communicate the technological requirements and problem solving methods to the stakeholders.

During final year, students will undertake a project working either through the University or a local industry or company.

All of this ensures that as a graduate you are well prepared for employment and research in your selected specialisation. Often students have work lined up for them when they finish their degree, enabled by the networking opportunities and work experience that the project provides. Graduates will have good employment prospects or the opportunity to complete their Master within one year of the BTech and from there move into a PhD. Admissions for BTech (IT) programme can be applied through the conventional normal entry path or open entry paths. For normal entry path, candidates should have an A’ Level / STPM / Diploma or equivalent.

Developing graduates with technical skills, computing knowledge and solving ability

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