

TAR University College In the Limelight

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TAR UC

Cultivating a research culture

TUNKU Abdul Rahman University College (TAR UC) provides a top quality academic experience for passionate and curious individuals who are keen to dive into the scientific realm.

The programmes under the Faculty of Applied Sciences cover a wide range of disciplines involving biology, chemistry, applied physics, food science, sports and exercise sciences.

Potential students have the opportunity to learn in an enabling learning environment supported by facilities and highly qualified researchers with an aim to cultivate a highly engaging educational research culture.

Associate Professor Dr Lim Teck Hock from the Department of Physical Science is a proponent of a strong research culture even among undergraduates.

He is confident of TAR UC's state-of-the-art facilities, which he believes are more than capable of simulating realistic scientific research conditions that will help students get used to industry-specific research practices in applied sciences.

Lim is the principal investigator in a research project funded by the Fundamental Research Grant Scheme provided by the Education Ministry and an elected Fellow Council Member of the Institute of Materials Malaysia for the 2018-2019 term.

His research, an investigation on core-shell nanoparticle's potential in photothermal treatment of melanoma cancer in collaboration with Universiti Putra Malaysia, University Malaya and the University of Tokyo, has the potential to revolutionise future cancer treatment procedures.

He said the research has progressed smoothly due to the facilities at TAR UC.

"The chemical synthesis lab at TAR UC was helpful for synthesising, purifying and characterising nanoparticles using the latest addition of equipment, including an Anton Paar Monowave Synthesiser and Particle Sizer," he said.

With such facilities and equip-

ment available in campus, Lim sees no reason why TAR UC science students cannot gain additional practical knowledge during their studies, adding that he always shares his experience as a researcher to enrich students' learning.

"I also allocate mini projects to our Bachelor's Degree final-year students so that they can experience first-hand what it means to conduct an actual research through application of their skills and knowledge. I am also adopting a research team culture, where students can learn to work as a team in a collaborative research setting managed with industry-standard project management tools. This is to prepare them for eventual research projects that may involve multiple parties in their future careers."

SPM leavers can opt to take the 18-month A-Level route or the one-year TAR UC Foundation in Science programme, where both options will lead them to the three-year Bachelor of Science (Hons) in Analytical Chemistry, Bachelor of Science (Hons) in Bioscience with Chemistry or Bachelor of Science (Hons) in Applied Physics.

Those who opt for the two-year Diploma route instead will be eligible for credit transfer up to Year 2 in relevant Bachelor's Degree programmes upon completion of their Diploma.

Bachelor's Degree Year 2 students will also have the option to study under the Dual Award programme with Campbell University in United States. Under this arrangement, students who opt for Dual Award programme will undergo additional assessments which upon successful completion will receive two degrees, from TAR UC and Campbell University respectively.

To find out more, visit TAR UC's Open Day happening until April 14 at the Kuala Lumpur Main Campus or all campuses nationwide in Penang, Perak, Johor, Pahang and Sabah. You can also visit their booths at major education fairs.

For more information, visit www.tarc.edu.my.



Associate Professor Dr Lim Teck Hock conducting his experiments in TAR UC's state-of-the-art chemical synthesis laboratory.

