

# **i-CATS Mechanical Engineering Programme Prepares Graduates for a Wide Range of Careers**

**A**t the International College of Advanced Technology Sarawak (*i-CATS*), the Diploma in Mechanical Engineering programme has long been regarded as an all-important first step for aspiring engineers, leading to a wide range of careers.



*i-CATS East Campus  
Tabuan Jaya, Kuching*

As highlighted by Mr. Ting Kung Chuang, Head of the *i-CATS* School of Engineering, “the versatility of the Diploma in Mechanical Engineering programme allows graduates to venture into a variety of fields. The programme prepares graduates for exciting careers in sectors such as automotive, aerospace, biotechnology, electronics, energy conversion, environmental control, robotics and other manufacturing-based activities.” He also shared, “Prior to the completion of the programme, students are required to undergo a 4-month internship. This ensures that the students have the opportunity to learn directly from the industry and gain real-world work experience at world-class organizations.”

*Mr. Ting Kung Chuang  
Head of School  
School of Engineering*



Mr. Mohd Syafiq Salman, Head of the *i-CATS* Diploma in Mechanical Engineering programme added, “During the course of their studies, students take a wide range of subjects such as dynamics, manufacturing engineering and technology, materials engineering, solid mechanics, statics, and thermodynamics. In addition, they will develop effective oral, written and interpersonal communication skills as well as hone their critical thinking, decision-making and team building skills.”

*Mr. Mohd. Syafiq Salman  
Head of Programme (Mechanical)  
School of Engineering*



During their studies at *i-CATS*, mechanical engineering students also appreciate the importance of innovation and technological advances in fostering an environmentally sustainable society. In this respect, a major point of pride is the *i-CATS* Green Technology Laboratory which enables engineering students to acquire theoretical knowledge and practical skills in the study of hydro power technology, solar photovoltaic technology, wind turbine technology and various other sources of renewable energy. This enriches the mechanical engineering curriculum which covers the design, manufacture and maintenance of mechanical devices for industrial processes. It is this exposure to cutting-edge technologies during the two-and-a-half-year programme which gives *i-CATS* students the competitive edge as they prepare for careers in the field of mechanical engineering or further their studies at the degree-level.



**Green Technology Laboratory**



**Mechanical Workshop**



**Solid Mechanics Laboratory**

Over the years, the alumni of the Diploma in Mechanical Engineering programme have been a source of inspiration to current students in the mechanical engineering programme. For example, Abdul Rahman Julaihi, a graduate of the *i*-CATS Diploma in Mechanical Engineering programme (Class of 2014), is currently an Assistant Engineer of Mechanical, Electrical & Telecommunication at Universiti Teknologi MARA (UiTM), Kota Samarahan. A proud alumnus of *i*-CATS, he shared, “I consider my time in *i*-CATS as my most valuable experience. During my studies, I had the chance to sharpen my skills in my field of choice. There were many opportunities to improve my social and communication skills. For example, Project Management at *i*-CATS taught me many new aspects of Management and Communication; essential building blocks for the future!”



**Abdul Rahman Julaihi**  
Class of 2014



**Andriane Pigar Balan**  
Class of 2016

Another *i*-CATS graduate (Diploma in Mechanical Engineering: Class of 2016) Andriane Pigar Balan, is currently attached to the Mechanical Department at UBP Printing Sdn. Bhd., Miri. He highlighted that “Industrial attachment is the right platform where the students can gain work experience and transferable skills. This will make them more marketable”.

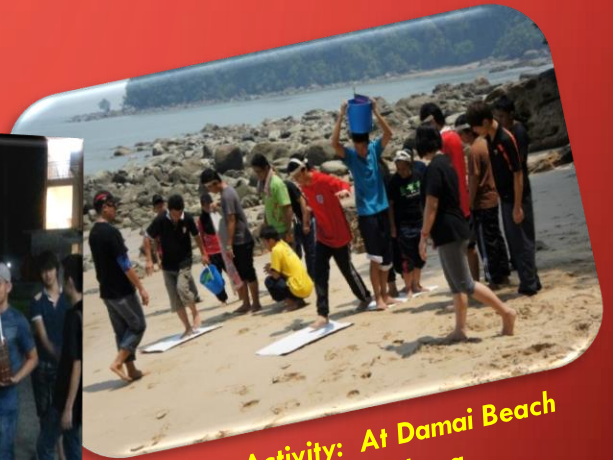
Indeed, *i*-CATS alumni are making their mark, contributing positively to the progress and vibrancy of the broad canvas of industry. Enrolment to the Diploma in Mechanical Engineering programme is now ongoing for the March 2017 session. Students who have completed SPM/SPMV with a minimum of three credits including Mathematics and one science/technical/vocational subject and a pass in English are eligible to enter the *i*-CATS Diploma in Mechanical Engineering programme. Applications will also be considered for those who have completed an MQA Accredited Certificate in Engineering/Technology programme (MQF Level 3) with a minimum Cumulative Grade Point Average of 2.0.



**Final Year Project Exhibition**



**Student Activity: BBQ**



**Student Activity: At Damai Beach Resort, Santubong**

For further information, you are invited to visit:

*i*-CATS West Campus  
Jalan Stampin Timur  
Kuching

or call 082-570888/451533.

Information can also be obtained from *i*-CATS's website:

[www.icats.edu.my](http://www.icats.edu.my)

