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Cantas Gagal: A Revolutionary Program Uplifting Engineering Education

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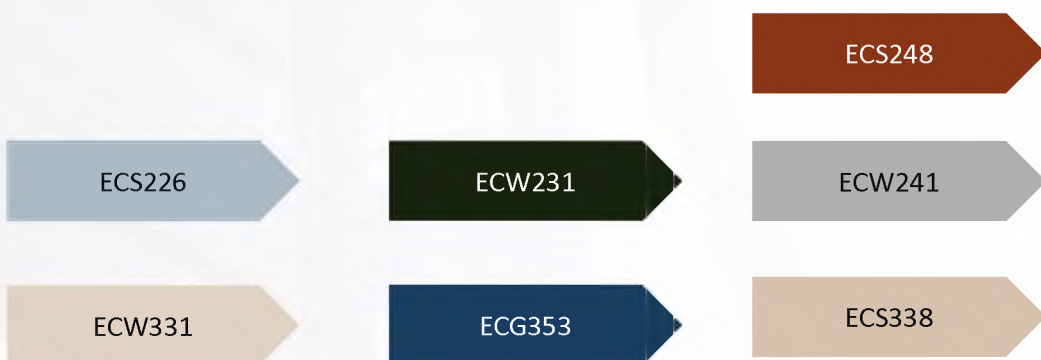
2023: In an era where academic achievement is paramount, educational institutions are constantly seeking innovative ways to enhance student learning and success. In line with this, a unique initiative known as the "Cantas Gagal" programme was launched in 2016 by former Programme Coordinator EC110 of the Civil Engineering Studies, Universiti Teknologi MARA, Cawangan Pulau Pinang.

The *Cantas Gagal* programme, aimed at strengthening students' understanding of their curriculum, was primarily designed to reduce the failure rates among diploma and bachelor's degree students in Civil Engineering, specifically in the EC110 and EC221 programmes.

This ground-breaking initiative brings together experienced lecturers and students to address subjects with high potential for failure or those that have previously shown unsatisfactory results. The ultimate goal is to enhance students' achievement of course outcomes (CO) and programme outcomes (PO).



In 2023, a total of seven subjects of diploma programme in engineering were incorporated into this beneficial workshop. The subjects included ECS248, ECS226, ECW231, ECW241, ECW331, ECG353, and ECS338. In addition, a special workshop was also conducted for the bachelor's degree programme. This workshop aimed to enhance knowledge for students who are weak in basic fundamentals, involving three different codes (ECS420, ECS521, and ECS522) in one workshop.



The success of the *Cantas Gagah* programme has been remarkable. All participating subjects witnessed a reduction in failure rates of less than 25% compared to the previous semester. The programme has proven to be a vital tool in helping students gain a deeper understanding of their subjects, allowing lecturers to provide more specific assistance tailored to the students' needs.



The *Cantas Gagah* programme is more than just an academic initiative; it's a testament to the power of collaborative learning and the importance of addressing educational challenges head-on. It serves as a beacon of hope for students struggling with their subjects and a model for other institutions to follow.

As we move forward, it's essential to continue supporting and expanding programmes like *Cantas Gagah*. ***The future of education lies in innovative solutions that not only address academic challenges but also foster an environment where every student can thrive.***
