



## Drone Operation Basics: A Collaborative STEM Initiative by UNISEL and IEM

By

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On 9 November 2025, Ir Ts Sukhairul Nizam Abdul Razak, representing the Engineering Education Technical Division (E2TD), IEM, collaborated with the Faculty of Engineering and Life Sciences (FELS), UNISEL, to deliver the inaugural Introduction to Drone Operation for Beginners program. This initiative marked a significant milestone in promoting STEM (Science, Technology, Engineering, and Mathematics) education through engaging, hands-on learning experiences.

The short course was designed to ignite interest in drone technology among school students, educators, parents, and the general public. Through a one-hour theory session, participants gained foundational knowledge on drone operation, flight control, safety procedures, and various real-world applications of drone technology. The program commenced with an inspiring opening and welcoming address by the Program Director, Ts. Dr. Siti Birkha Mohd Ali.



Welcoming speech by Program Director Ts. Dr. Siti Birkha

Excitement peaked during the interactive hands-on session and the much-anticipated Drone Piloting Battle, where participants had the opportunity to operate and fly drones. The competition, held over two rounds, showcased the participants' technical abilities as they navigated a series of obstacles within a set time.



Student flying the drone

A total of 24 enthusiastic students from various schools across Selangor participated, including Sekolah Rendah Al-Islam Keramat, SAMT Tengku Ampuan Jemaah, SMK Sijangkang Jaya, SJKC Sungai Buloh, Sekolah Rendah Islam Hira' Klang, and SMK Seri Desa.



Participants consisting of students, teachers, and parents

During the event, Ir Ts Sukhairul Nizam also shared insights with engineering students and lecturers about IEM and the advantages of becoming a member. Following this engagement,

UNISEL expressed interest in future collaborations with IEM to jointly organise initiatives that further support and promote STEM education.



Ir.Ts. Sukhairul with engineering students and lecturers from UNISEL