



PANIMALAR ENGINEERING COLLEGE

An Autonomous institution | Approved by AICTE | Affiliated to Anna University

Varadharajapuram, Poonamallee, Chennai- 600 123

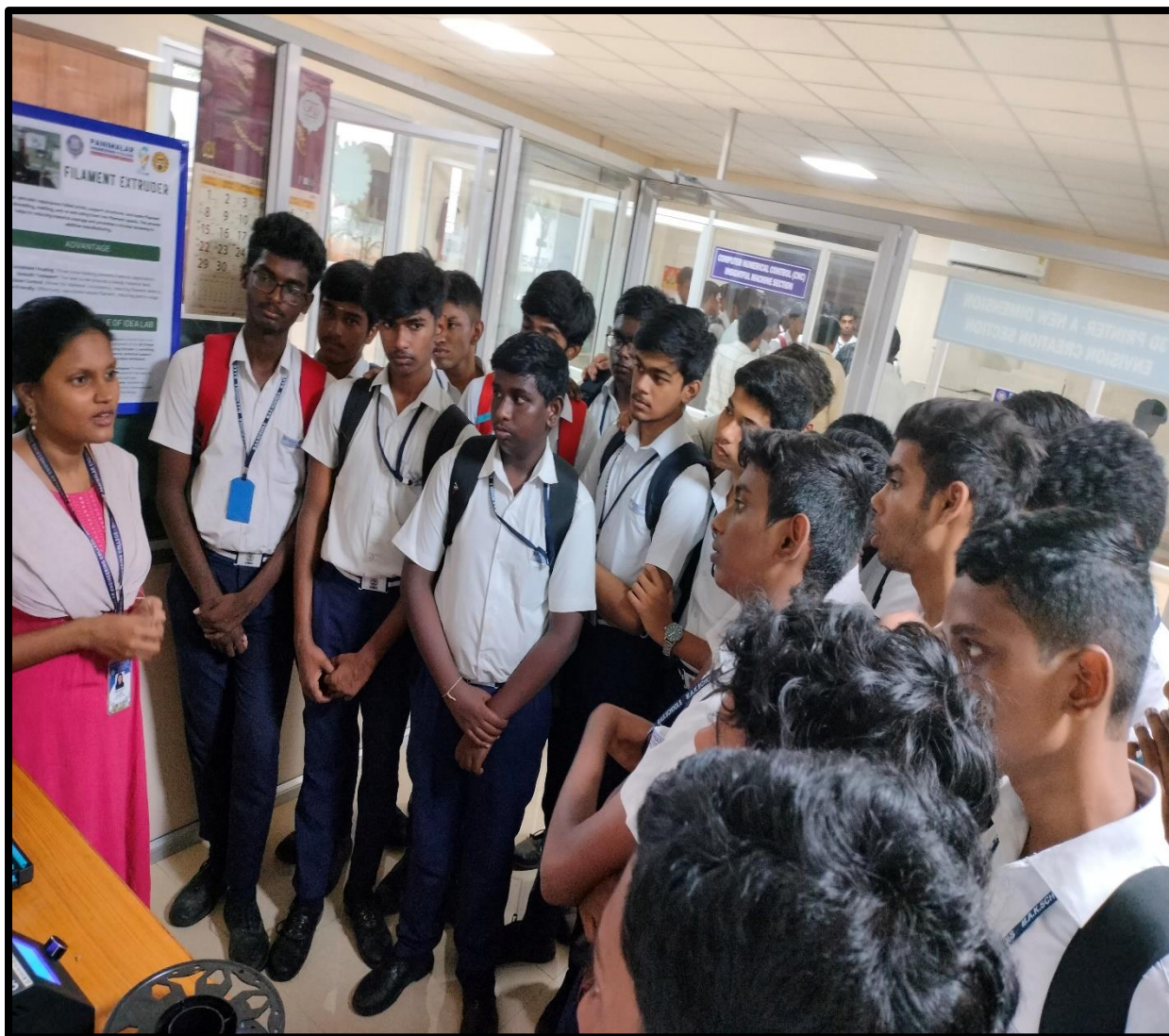
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NATIONAL SERVICE SCHEME

IDEA to Innovation: School Outreach Program
11-08-2025 & 12-08-2025

IDEA to Innovation School Outreach Program-2025



Panimalar Engineering College organized a two-day outreach program titled 'IDEA to Innovation' on 11th & 12th August 2025, aimed at fostering scientific curiosity and innovation among school students. The event was conducted at the college premises in Nazarethpet, Poonamallee, Tamil Nadu, and provided students with hands-on experience in emerging technologies such as robotics, drones, 3D printing, Machinery and basic electronics and electrical engineering. The program served as a bridge between theoretical learning and real-world applications, inspiring young minds to think creatively and explore engineering innovations.



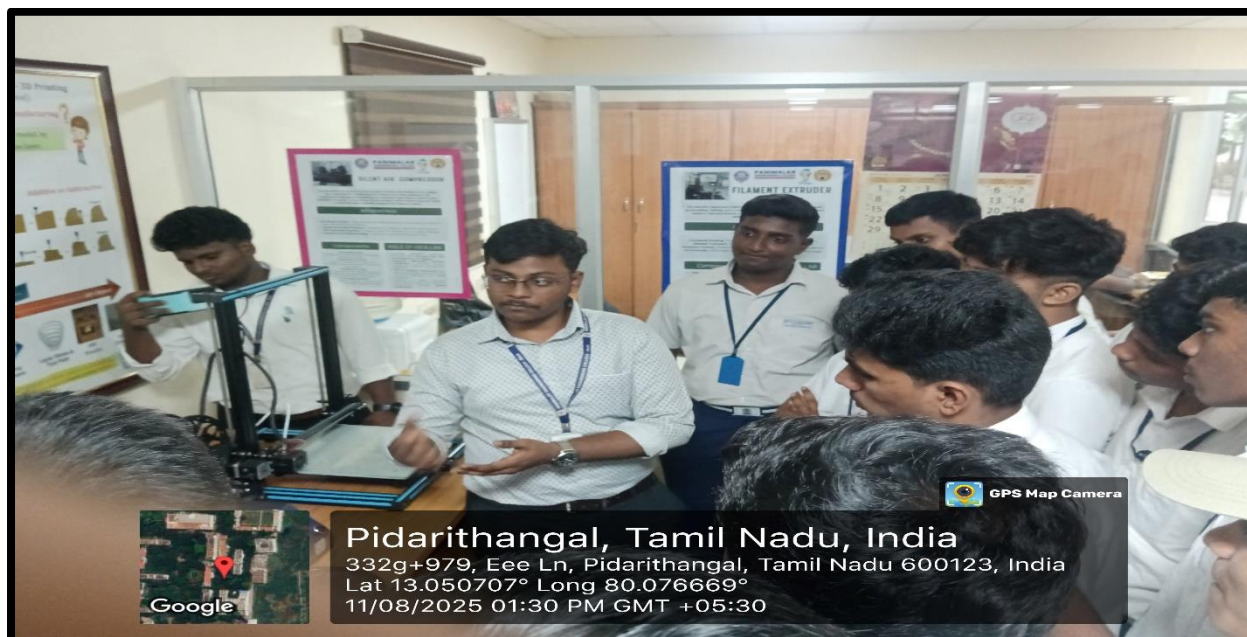
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Participants gaining insights into 3D printing and filament extrusion technologies. The session emphasized additive manufacturing and its importance in prototyping.



Students attentively participating in the workshop on Basic Electronics and Robotics, held at the Centre of Excellence for Robotics, where they explored real-world applications of circuit design and embedded systems.



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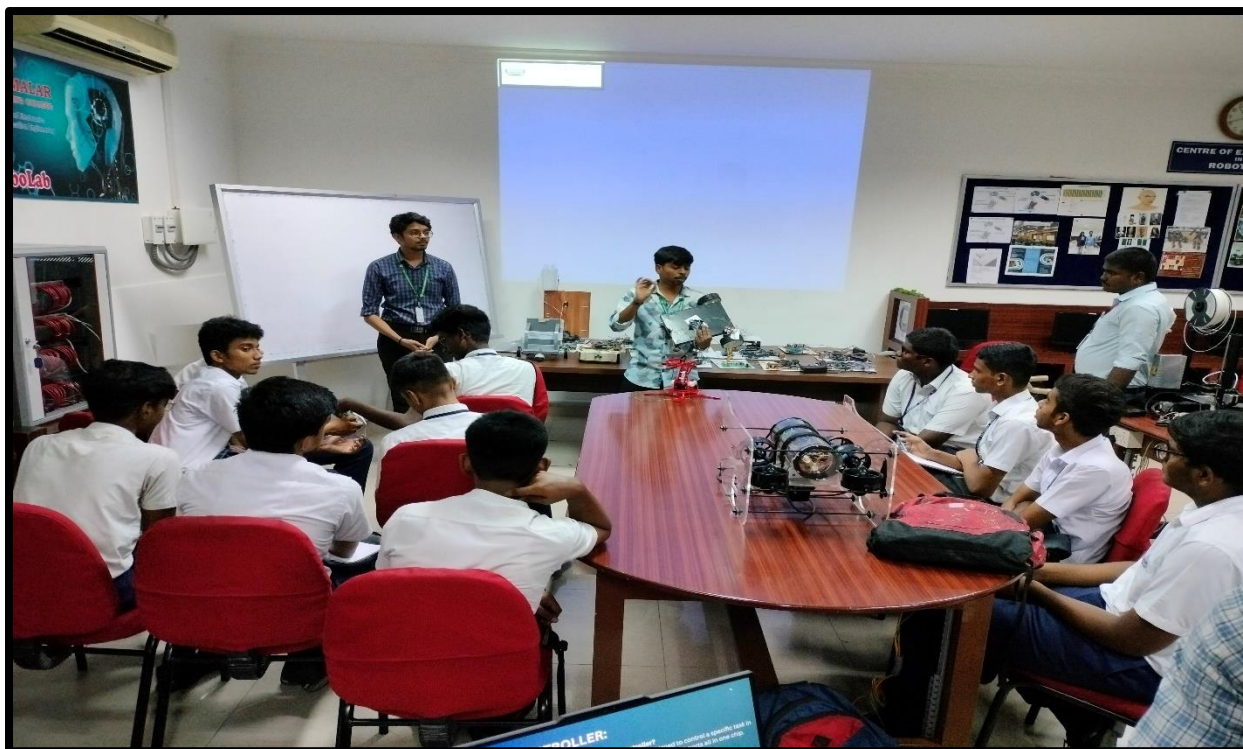
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NATIONAL SERVICE SCHEME *IDEA to Innovation: School Outreach Program* **11-08-2025 & 12-08-2025**



School students had the opportunity of one to one interaction with an expert in the Drones lab.



Students of our institution explaining the enthusiastic school students about the technology behind robotic vehicles.



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Demonstration of circuit assembly, motor control, and basic automation concepts to students.



Demonstration of principle of electrical vehicles to school students.



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The real-time demonstration of surface grinding machine which is used to produce smooth and flat surfaces on metal work pieces.



A demonstration on drone technology conducted at the Aviator Drone Services Lab, where students learned the principles of flight control and drone mechanics.



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Demonstration of laser cutting machine which uses a high-powered laser beam to cut or engrave materials such as wood, acrylic, or metal with precision. School students got insight on how this technology is widely used in fabrication, prototyping, and design applications for creating intricate shapes and models.