

CASE

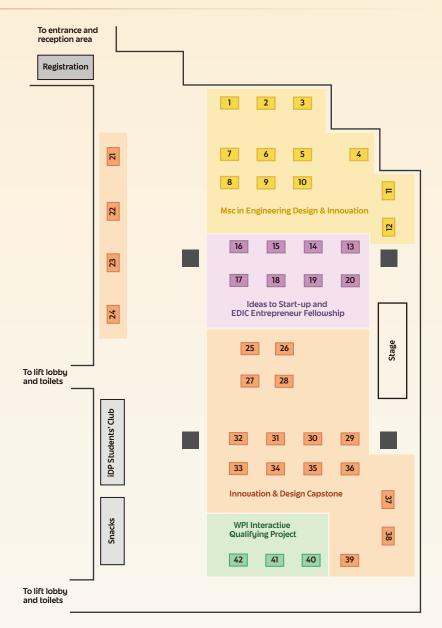
College of Design and Engineering

16 April 2025

5pm to 8pm

Block E7 Level 3 15 Kent Ridge Crescent. Singapore 119276

# Layout of Exhibits



### **Msc in Engineering Design & Innovation**

- 01. V-Safe: safer insulin pen needle handling
- 02. CareLink
- 03. PostureCare
- 04. Playstic
- 05. Al-based smart ordering and recommendation system for craft beer
- 06. Cookease

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- 07. NECO: odourless household composter08. Smart pet wheelchair09. Learning in the field10. SmoScope: smarter vision, faster rescues
- 11. Be You Tiful: an online exhibition on the theme of appearance anxiety
- 12. Moody: your driving emotional companion

#### Ideas to Start-up and EDIC Entrepreneur Fellowship

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### **Innovation & Design Capstone**

- 21. Power monitoring board for Autonomous Underwater Vehicle 4.5
- 22. Galassia-5 CubeSat radiation monitoring payload
- 23. NUS Mars Rover Science module
- 24. NUS Formula SAE R25e
- 25. SafeCut: a safe and effective way to completely excise gastrointestinal lesions endoscopically
- 26. Endoscopic grasper for minimally invasive bariatric surgery
- 27. EyeWonder: revolutionising contact lenses handling for myopic children
- 28. ProteX: ergonomic support for lightweight radiation protection
- 29. iVESA: intelligent virtual reality eye screening assistant

#### WPI Interactive Qualifying Project

- 40. A shifting PERSPECTIVE: broadening the mental wellness landscape of Singapore's youth through art
- 41. Investigating mental health in Singapore: a research study on mental well-being to improve upon the existing stART program

- 30. LightAVERS: a novel approach to objective photophobia measurement
- 31. Tunable hydrogel for ex vivo preservation of tumour explants
- 32. Novel non-invasive fetal oximetry monitoring device
- 33. Al Doctor: single player VR simulation for code blue emergency in nursing education
- 34. Al simulated patient for dentistry student communication training in VR
- 35. ThermoFace: thermo-vibratory on-face haptic display for enhanced VR immersion
- 36. Growth optimisation of cyanobacteria
- 37. Re-designing economy class seats for low-cost carriers
- 38. Designing the ultimate anti-snoring pillow
- 39. Indoor search using swarm of drones
- 42. Reframing stress: a mixed-methods study of the stART program's impact on youth mental health

# **Engineering Design and Innovation Centre**

The Engineering Design and Innovation Centre (EDIC) was established in 2009 to provide a holistic design and engineering education to students, as well as to support industry partners to innovate and address complex challenges. It offers the Innovation & Design Programme (*iDP*) for undergraduate students and the Master of Science in Engineering Design & Innovation (MSc EDI) for postgraduate students.

The *i*DP is EDIC's flagship undergraduate programme that aims to train graduates with an entrepreneurial mindset who understand innovation and are able to apply their knowledge and skills to solve problems or design new products, services, and experiences. In the *i*DP, students from different disciplines learn various tools and processes for ideation and design by working together on hands-on projects that have real-world impact. Student who are keen on entrepreneurship are encouraged to further develop their projects for commercialisation.

The MSc EDI is designed for professionals who already have working knowledge in their own respective disciplines. It trains students to work together, making the most of their creativity and passion to solve societal challenges as they learn to cultivate an entrepreneurial mindset, develop understanding of technology-based design and innovation strategies, and apply design thinking and product design methodologies to develop innovative solutions.

## **Contact Us**

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https://cde.nus.edu.sg/edic/

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