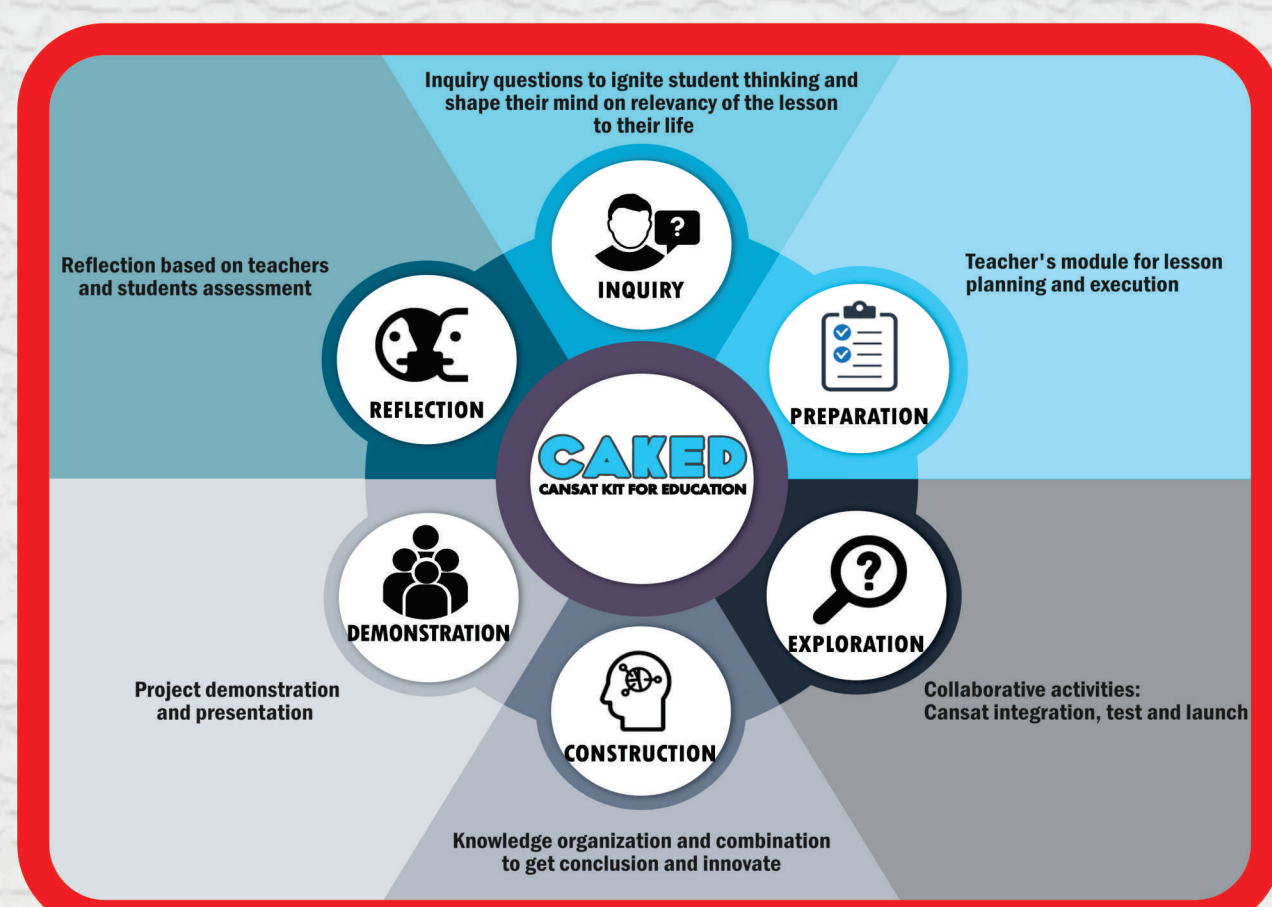




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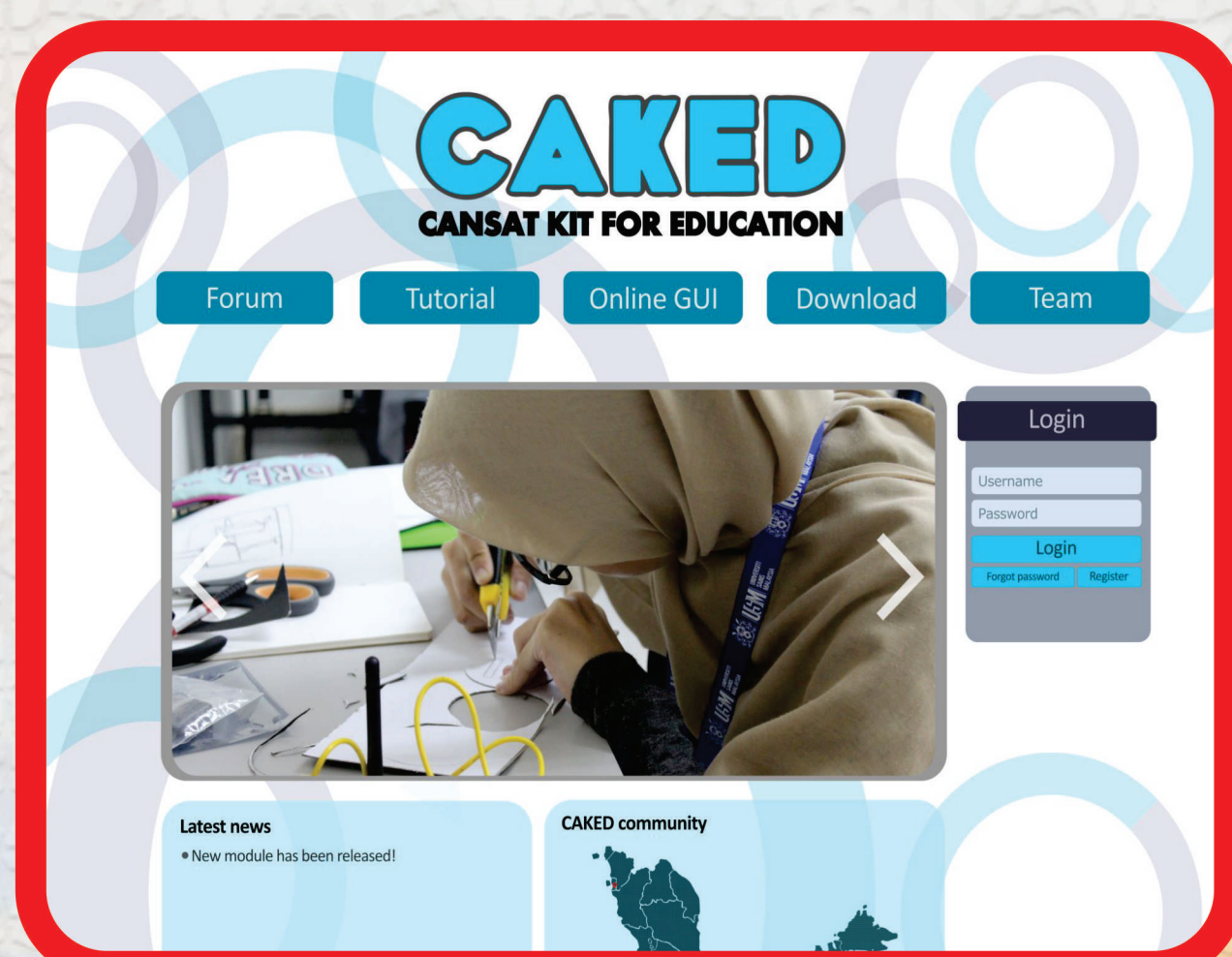
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Innovative Cansat Kit for Education (i-CaKEd)



Introduction

- i-CaKEd is first developed in Malaysia to aid teaching and learning in STREAM education based on Aerospace Technology towards the Fourth Industrial Revolution.

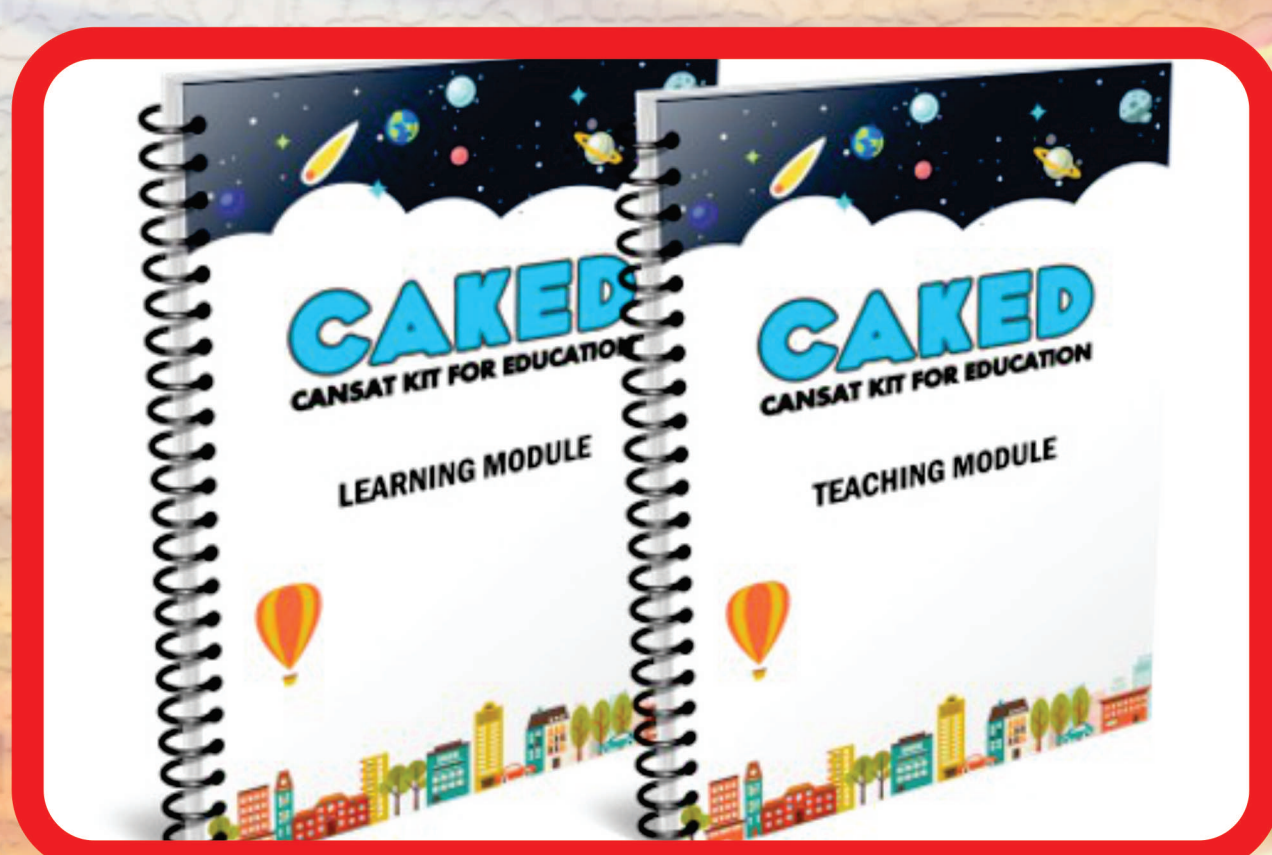


Problem statement:

- Lack of interest from secondary school student in STREAM
- School do not have teaching and learning module using aerospace technology to develop a 21st-Century skill for secondary school student.

Novelty and Inventiveness

- Space technology-based teaching and learning module embedded with activities to develop 21st- century skill for the secondary school student.
- Implement IoT module, web-based data harvesting and sharing, and community networking for a global learning experience.

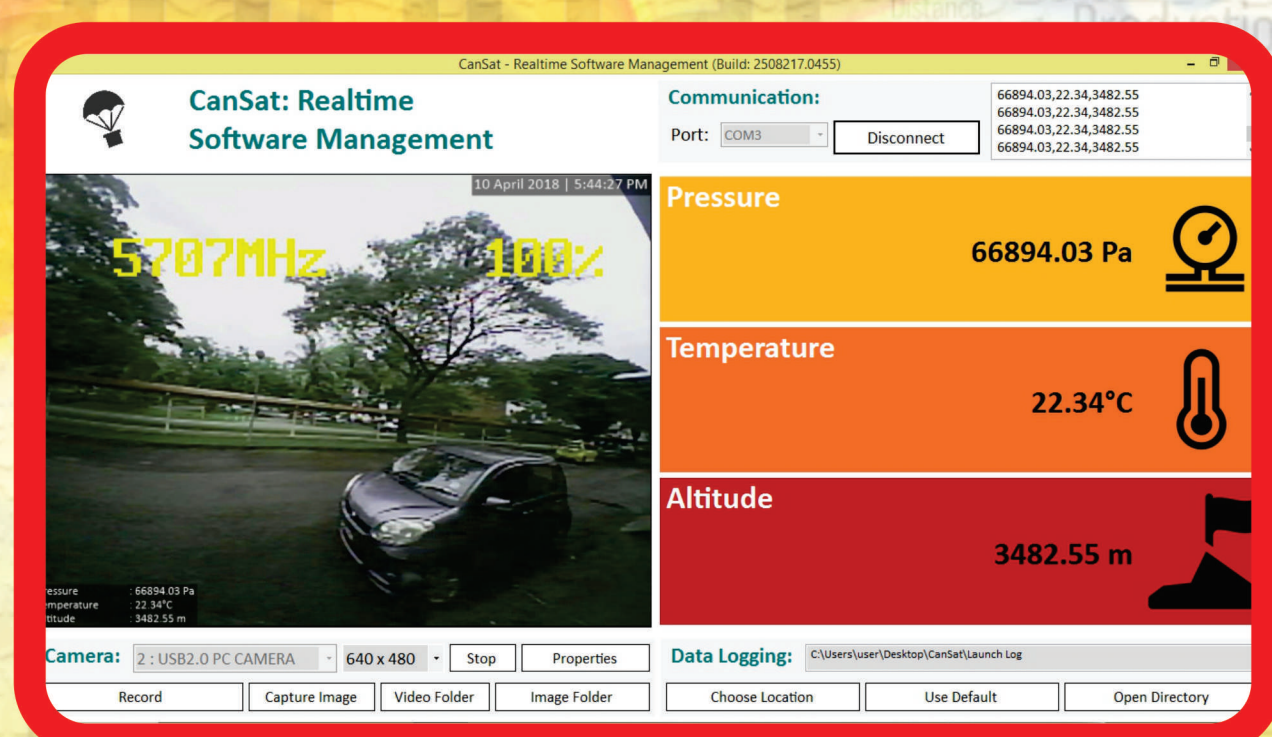


Intellectual Property Status

- Copyright protection (No: LY2018001863)

Usefulness and Application

- CanSat module integration, test and launch for hands-on collaborative project-based learning activities
- Interactive teacher's guide to strengthening student's understanding of STREAM
- Offline and Online GUI for web-based data storage for CanSat launch.
- A website for CaKEd community building to encourage knowledge sharing and transfer.
- Graphical programming environment



Status of Invention

- Technology Readiness Level 6 - Prototype for demonstration.

Market and Commercial Potential

- Secondary school world wide, STEM Training Centre, Hobbyist

Potential Partners

- Malaysia Space Agency, Ministry of Education

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