

9 **INDUSTRY, INNOVATION
AND INFRASTRUCTURE**



**SDG 9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE**



Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Muban Chombueng Rajabhat University supports faculty and staff in creating research and innovations to serve society.

1. High-Value Local Products from Biomolecular Bases: Transforming Agricultural Waste into Area-Based Innovation

Innovation, Technology, and Socially Engaged Research

From the innovation project: "High-Value Local Products from Biomolecular Bases: Transforming Agricultural Waste into Area-Based Innovation", this work focuses on creating high-value local products by utilizing agricultural waste through biomolecular approaches. It highlights the transformation of waste materials into innovative, regionally tailored solutions to promote sustainability and community development.

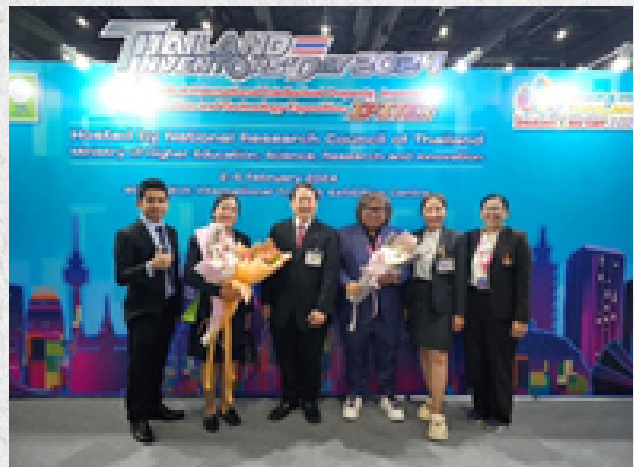




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2. Electrocardiogram Detection System for Preventing Ischemic Heart Disease in the Elderly Using AIoT Technology

This system integrates artificial intelligence of things (AIoT) technology to monitor and detect electrocardiogram (ECG) signals, aiming to prevent ischemic heart disease in elderly individuals. By leveraging advanced AI algorithms and IoT connectivity, the system provides real-time analysis and early warnings, enhancing proactive healthcare and reducing risks associated with heart disease.

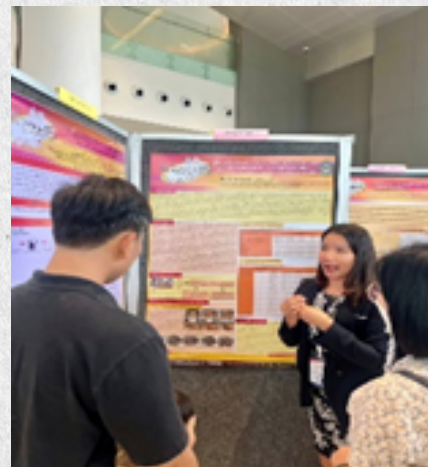




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3. Development of Growing Media for Leafy Vegetables Planting from Used Mushroom Culture

This project focuses on the innovative reuse of spent mushroom substrates (used mushroom culture) to develop growing media for cultivating leafy vegetables. By transforming agricultural waste into a nutrient-rich, sustainable planting medium, the initiative promotes circular agriculture, reduces waste, and supports eco-friendly vegetable production. The resulting growing media is evaluated for its effectiveness in plant growth, nutrient retention, and its potential as a sustainable alternative to traditional growing substrates.





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4. The Project for Developing Interactive Microlearning Media Innovations and the Application of Educational Technology to Enhance the Effectiveness of Learning Management

The Faculty of Industrial Technology organizes a project to enhance the effectiveness of learning management for digital-age teachers. This project leads to the development of digital media innovations and the application of educational technology to create diverse and relevant teaching methods. It also involves the creation of engaging media to stimulate learning for students. The project targets teachers and educational personnel in small schools and schools under the Office of the Basic Education Commission (OBEC) in Ratchaburi Province, as well as students, alumni, and interested individuals from the general public.

