

Implementation Report on gPBL Course with the Faculty of Engineering, Universiti Malaysia Sarawak (UNIMAS)

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2025/08/11 ~2025/08/25	Malaysia	University Malaysia Sarawak	<ul style="list-style-type: none"> • Department of Bioscience and Engineering, Systems Engineering and Science • Undergraduate 3rd grade, Undergraduate 2nd grade, Undergraduate 4th grade, Master 1st grade, Master 2nd grade 	(SIT) Students 19, Student Staff 2, Professor 3, Staff 1 (University Malaysia Sarawak) Students 10, Student Staff 2, Professor 8, Staff 10	SHAHROL BIN MOHAMADDAN (Innovative Global Program), WATANABE Nobuo (Department of Bioscience & Engineering), TAKAYAMA Yuzo (Department of Bioscience & Engineering)



Image1 Scenes from the performance competition of the manufactured vehicle

This year's gPBL class theme, titled ECO-MOVE-Challenge, focused on building a vehicle using over 50% environmentally friendly recycled parts from an SDGs perspective. At the outset, students from our university and the Faculty of Engineering at UNIMAS University were divided into five mixed teams (each team consisting of four Japanese and two Malaysian students). After receiving their mission, each team engaged in brainstorming, design using 3D CAD, interim presentations, prototyping using 3D printers, design validation through static analysis, and assembly and improvement work using commercially purchased parts. The final presentation session featured PowerPoint slide presentations followed by Q&A. This was followed by a performance competition event for the prototypes.



Image2 Students presenting their final outcome (Scene of Final presentation)

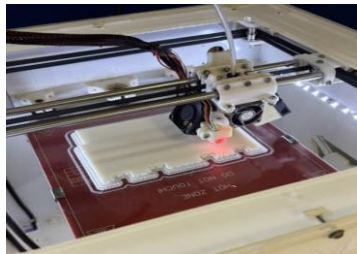


Image3 Scene of parts production using a 3D printer



Image4 Additional scene of final presentation