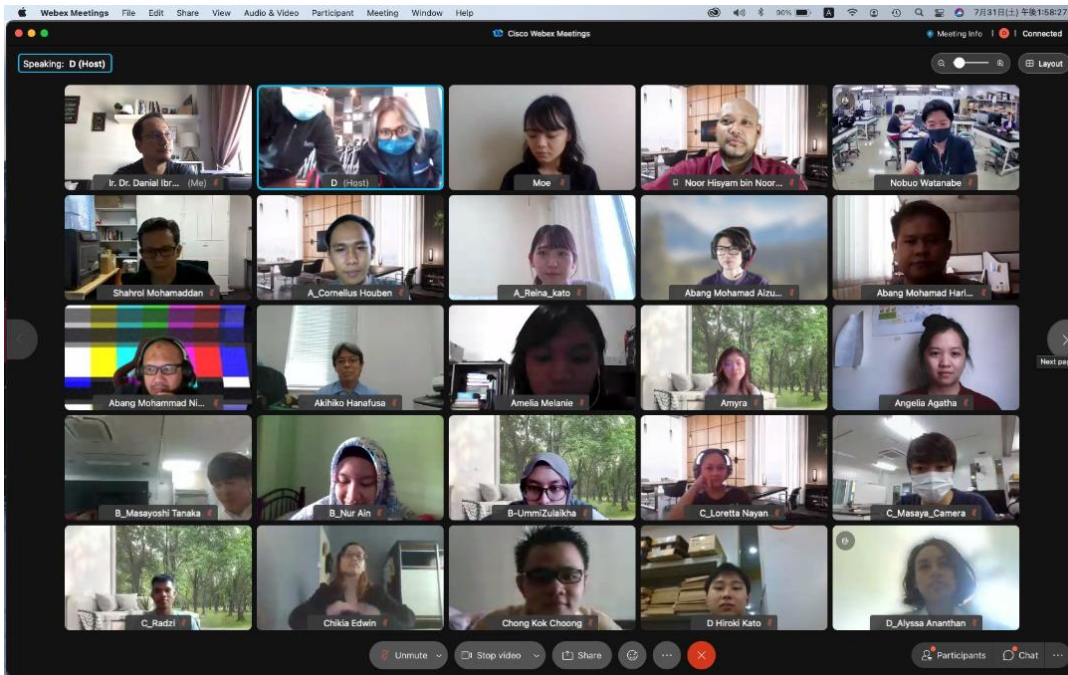


gPBL at Dept of Engineering UNIMAS in Malaysia

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
Jul26 ~Jul31,2021	Japan	University Malaysia Sarawak	<ul style="list-style-type: none"> •Department of Bioscience and Engineering •Systems Engineering and Science •Undergraduate 2nd grade •Undergraduate 4th grade •Master 1st grade 	(SIT) Students 10, Professor 4 (University Malaysia Sarawak) Students 20, Professor 1	WATANABE Nobuo (Department of Bioscience & Engineering) HANAFUSA Akihiko (Department of Bioscience & Engineering) SHAHROL bin mohammad (Department of Bioscience & Engineering) TAKAGI Motoki (Department of Bioscience & Engineering)



The gPBL (global problem-based learning) program was held through online from 26th to 31st July 2021 as part of the collaborative practical lecture among Shibaura Institute of Technology (SIT), Saitama, Japan, Faculty of Engineering, Universiti Malaysia Sarawak (UNIMAS), and Old Kuching Smart Heritage (OKSHe) program. From SIT side, 10 students including 2 Bachelor students and 8 Master students attended this program. And from UNIMAS side, 20 students including 6 Master students and 14 Bachelor students have participated in this program. Through this program, new design of barrier free for disabled peoples with wheelchair was presented to improve traditional boat on the Kuching River known as “Perahu Tambang” in Malaysian language. Such study theme contains the duty to preserve traditional boat shape with similar outside look as part of the heritage preserving idea from Old Kuching Heritage. The students discussed through online and design their solution idea using 3D CAD. Besides, the simulation was also performed and simple manufacturing using 3D-printer was conducted in SIT Campus. Such activity included competition concerning Engineering skills, ideas, and efforts. Individual student was evaluated on their active communication attitude, teamwork, and effort. In addition to such evaluation parameters, Master students was required to show their leadership ability. During their final presentation, local boat operators joined and discussed with the participants. This gPBL event was successfully completed.

