



OKSHE – UNIMAS – SIT

Global Problem – Based Learning Programme 2021

PROPOSAL PRESENTATION & DISCUSSION

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Shifting the Face-to-face (F2F)
version to Visual version
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INTRODUCTION – What is GPBL

- 1) **Global Problem Based Learning (GPBL)** is a **summer school programmed** between SIT and UNIMAS leveraging on international physical and virtual mobility.
- 2) SIT Students will be exposed to **Malaysian (Sarawak) heritage and culture** while **working together with UNIMAS students** to **solve engineering related** problem faced by local communities.
- 3) In expanding the strategic collaboration with local authorities to encourage ecotourism as a main income activity, UNIMAS propose a collaboration with Old Kuching Smart Heritage (OKSHe).
- 4) 2021 GPBL, UNIMAS propose to align the project with UN SDG (持続可能な開発目標) 9,11 and 17.



INTRODUCTION – What is GPBL



INTRODUCTION – UNIMAS Bird's view





United Nations
Educational, Scientific and
Cultural Organization

INTRODUCTION – What is OKSHe

OLD
KUCHING
smart heritage

- 1) Old Kuching Smart Heritage (OKSHe) is established as one of the strategic actions in the Sarawak Digital Economy Framework 2018-2020.
- 2) The vision is to **fulfill UNESCO requirement** and certify Old Kuching as smart heritage city.
- 3) These can be achieved by enabling:

Smart Heritage Infrastructure,

Smart Community and Innovation

Socio-Economy and Financial Sustainability

Prominence and Inclusivity

Strategic Management and Good Governance



**OLD
KUCHING
SMART
HERITAGE**



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INTRODUCTION – OKSHe Location

OLD
KUCHING
smart heritage





United Nations
Educational, Scientific and
Cultural Organization

INTRODUCTION – OKSHe Location

OLD
KUCHING
smart heritage





TENTATIVE DATE/DURATION/ TARGET AUDIENCE

PROPOSED TENTATIVE DATE

25th– 30th July 2021

DURATION

6 days

TARGET AUDIENCE

20 UNIMAS students

20 SIT students

OKSHe community

UNIMAS/SIT Lecturers

*Possibility to extend to partners/ international staff

OBJECTIVES – UNIMAS-SIT-OKSHe GPBL

- **Engaging international partners adapting the Concept Society 5.0 as aspired by Japan** with OKSHE as the main player to attract more international students to Kuching as the pot of culture and diversity.
- **Initiate a smart collaboration between UNIMAS-SIT and OKSHE** in organising effective programme in instilling active community participation in the OKSHE edutourism program as **Global Citizen**.
- As education are more flexible and fluid through internet connection, **universities will remain relevant as higher education provider by being one of the main hub to cultivate the Global Citizen culture** where **international members and local members proactively move towards a similar goals** through **business unusual** as the students progress in their academic endeavor.
- **Increase OKSHE and UNIMAS-SIT visibility** through the exposure of our unique cultural diversity, activities and Kuching city heritage to the international participants.

EXPECTED OUTCOMES

1

The UNIMAS and SIT participants will **increase their awareness and knowledge on local history, tradition and culture by applying engineering knowledge** to help and boost the local community by the programme exposure to OKSHe.

2

The programs will enhance the GPBL of UNIMAS-SIT by **exposing students to real life problem** which will be beneficial not only for students' experience but the local community – in this case, the OKSHE Community and Edutourism operators.

3

By doing this the **students learn about the similarities/differences of local problem between our cultures.** The program will expand UNIMAS-SIT GPBL audience into the bigger international platform since the program is planned to be held once a year.

4

OKSHE edutourism operators will be **exposed and experienced in receiving and managing international programs.** The program will be a strategic platform to expose the community (i.e. operators) who will actively participate in the program, especially for their mentality and infrastructure preparation in providing tourism package to international inbound edutourism market.

**UNIMAS – SIT – OKSHE
Virtual GPbl Programme 2021**

Proposed Tentative

SUGGESTION



Face-to-face Version

Virtual Version

Day	Programme
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Day 1
25 July
Morning

A. Virtual Opening and Welcoming Ceremony

- A virtual platform will be created to accommodate online participation in the virtual ceremony
- Introduction of UNIMAS and SIT to OKSHe

B. OKSHE International Workshop

1. Introducing OKSHE, Kuching & Sarawak



2. Experience the Penambang (例えるなら日本の和船) Ride Programme



Kisah Bot Penambang Kuching Yang Teguh Berkhidmat Hingga Ke Hari Ini, Kredit: InterAsia



Details in the next slide

Day 1

25 July

Morning

Experience the Penambang Ride Programme

1. The participants will be given a brief history and explanation on penambang by the instructors.
2. At the end of the programme, the participants will get to view the surrounding of the penambang trail and Sarawak River sunset tour.
3. The virtual tour will be done via recording/video footage of riding the penambang.



Day 1
25 July

Afternoon

Crash-course on Computational-aid Engineering (CAE) tools.

Proposed lecture

- 1) Hanafusa Sensei → 360 Fusion
- 2) Ir. Dr Danial → Boat design and fluid mechanics

Expected outcomes:

- Students learn about the **real community effort** of Sarawak culture from OKSHe. This will expose students to engage local community wherever they are stationed in the future.
- Students will be exposed how to **engage and build relationship with locals** to manage real-live community problems from inter-organisation activities.
- Learn the application of CAE to solve and evaluate engineering problem

Day 2

26 July

Morning

A. Grouping SIT-UNIMAS students – Suggestion 5 groups?

Proposed platform: Zoom (provided by SIT)

Proposed organization for 1 group:

1 UNIMAS postgrade student for each group

2 UNIMAS students

2 SIT students

1 UNIMAS/SIT advisor for each group

Concept virtual classroom 8:30am – 5:00pm (Japan: 9:30am – 6:00pm)

Day 2
26 July

Afternoon

B. Brainstorming on engineering problem

Propose idea:

Improve the stability of the Panambang boat to help people with disability (障碍者) or the elderly (高齢者) ride the boat safely

Panambang乗り心地



船が揺れるため、この動画のように漕がなくても障碍者の姿勢を保つのに苦戦する



Day 2
26 July

Afternoon

B. Brainstorming on engineering problem

Propose idea:

Improve the stability of the Panambang boat to help people with disability (障碍者) or the elderly (高齡者) ride the boat safely

Problem statement

- 1) How to get in and get out of boat safely?
- 2) How can the people disability can seat comfortably in boat?

Limitations:

The traditional outlook of the boat must be maintained.

Assignment:

Propose a design to the boat or the seating in the boat to help stabilized and make the boat safe for people with disability or the elderly.

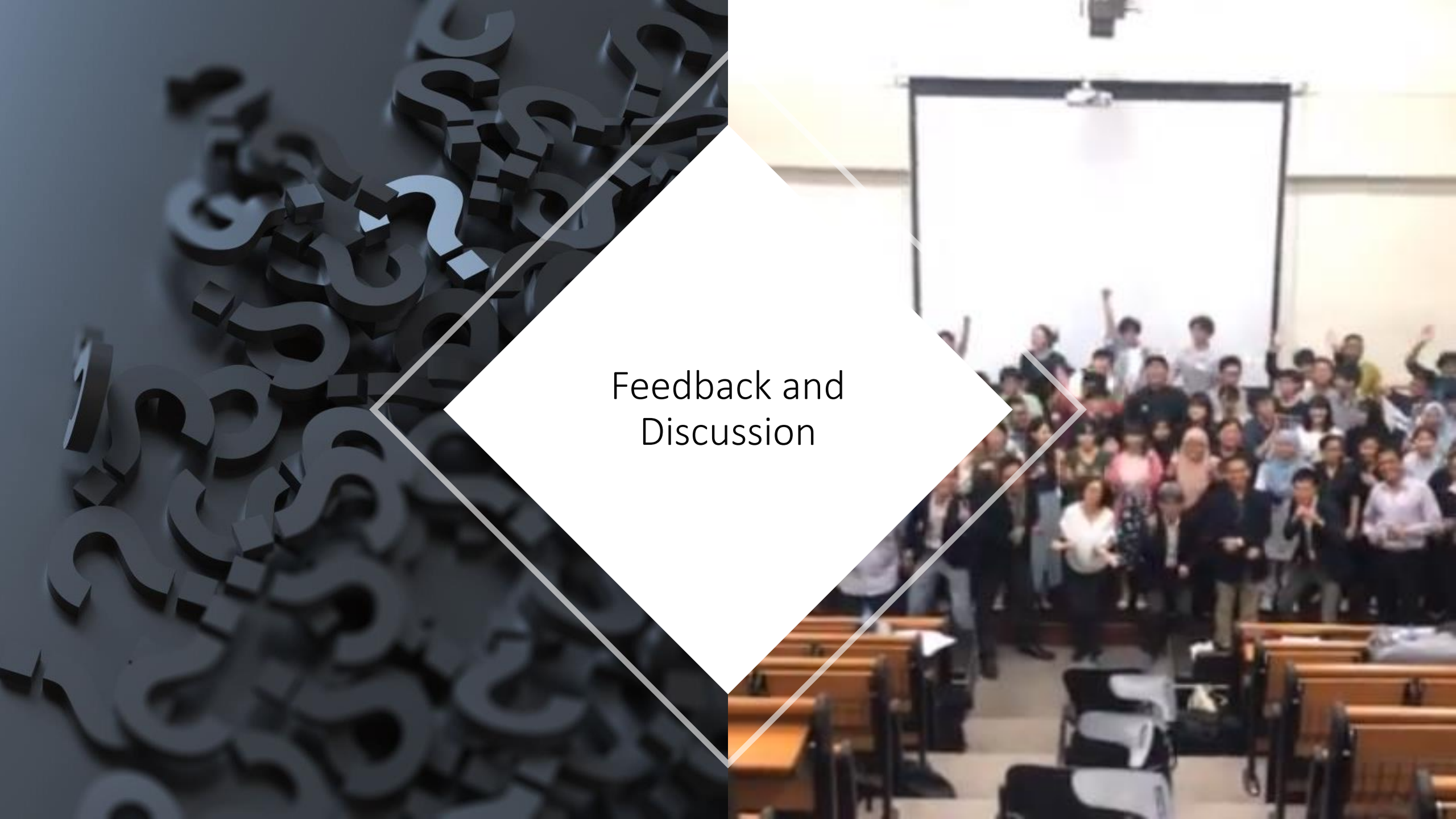
Expected outcomes:

- Students learn how to **localised and contextualized the problem** before students translate it to the engineering concept
- Students learn how to **organised a functional group** for solving engineering problems.

<p>Day 3 27 July</p>	<p>Group Activity: Continue with project</p> <p>Break time: 11:00am to 1:00pm (Japan: 12:00am to 2:00pm)</p>
<p>Day 4 28 July</p>	<p>Group Activity: Continue with project</p> <p>Break time: 11:00am to 1:00pm (Japan: 12:00am to 2:00pm)</p>
<p>Day 5 29 July</p>	<p>Group Activity: Continue with project</p> <p>Break time: 11:00am to 1:00pm (Japan: 12:00am to 2:00pm)</p>
<p>Day 6 30 July</p>	<p>Final Presentation Virtual attendee: UNIMAS-SIT lecturers, OKSHe Operators/Community</p> <p>Virtual Closing Ceremony Virtual attendee: UNIMAS-SIT lecturers, OKSHe Operators/Community Best Project Award</p> <p>Expected outcomes:</p> <ul style="list-style-type: none"> • Students learn how to deliver/transfer knowledge to clients and appeal non-engineering community their proposed ideas. This is and exposure to real-live working engagements. • Community is exposed to the potential of internalisation of local product through business unusual – virtual mobility. • Universities can benefit from the impactful international collaboration through virtual mobility of global student programmes.

Expected Outcomes or Spillover

- Engaging international partners adapting the Concept Society 5.0 as aspired by Japan with I.R. 4.0 to bridge research potential that can include and benefit the local society directly.
- To use the outcome of this GPBL Platform as the fundamental blueprint for expansion of the project.



Feedback and
Discussion