



ImpactXchange 2024

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Broad | SDG Innovation for a Sustainable Campus

- ❖ Problem Statement: Team must pick a sustainable point of interest related to their university
- ❖ Interest must align with one of more SDGs
- ❖ Goal: Create a software solution that addresses the chosen point of interest
- ❖ Solution
 - Must be applicable to the University but can be scalable to other institutions
 - Must be software based
- ❖ Feasibility and Impact
- ❖ 4 - 5 members
- ❖ Create a software prototype for your solution

Topic	Strengths	Weaknesses	Opportunities	Threats
<p>Broad: Find a sustainable related point of interest at their university that relates to any SDG</p>	<ul style="list-style-type: none">● Wide array of choices to pick from, easier for students to pick their area of interest● Students are already familiar with the environment	<ul style="list-style-type: none">● Too many choices can sometimes be confusing.	<ul style="list-style-type: none">● Student can come up with actionable solutions that the uni can implement● Gives the students more creative freedom.	<ul style="list-style-type: none">● Potential for the solution to be too idealistic.● Potential to introduce a lot of scope creep

Medium-Level | Topics Related to Local Companies and Firms

Phase 1:

- ❖ Introduction to the hackathon
- ❖ Local companies will present
 - Students complete further Research on the company if need
- ❖ Identify a sustainability challenge (in groups of 4-5), or shortfall associated with the company

Phase 2:

- ❖ Select an identified challenge (cannot be your own!)
- ❖ Create a software application, product, or tool to help solve, or improve this issue
 - Prepare justifications for how this will solve or improve the issue at hand
- ❖ Present your solution and reasoning to the company and class

Topic	Strengths	Weaknesses	Opportunities	Threats
<p>A local company presents their business/ and or products, and Malaysian students perform additional research on the company if needed. With this they can identify a sustainability related issue. Other groups then pick one of the suggested ideas (a twist on how topics were developed in software and innovation class), they don't work on the issues they identified .</p>	<ul style="list-style-type: none"> ● Local companies will be used, thus it relates to issues that could impact the students day to day life. ● This could also make the students more passionate about the challenge, ad they could feel they are improving their community ● Working on real issues, helps students with critical analysis (and improves skills at identifying issues and possible shortcomings of IT products or softwares) 	<ul style="list-style-type: none"> ● Insular point of view, may would not facilitate looking at issues from a non Malaysian viewpoint 	<ul style="list-style-type: none"> ● possibly build connections for employment post graduation with local companies and organizations ● Ability to contribute to positive sustainable change in their community 	<ul style="list-style-type: none"> ● Some companies may sugar coat any areas where they are lacking in sustainability, thus more research would be needed to be conducted by the students. Companies with transparent data online to be used by students for research purposes should be selected.

Aim: Collaborative Problem-Solving Across Borders

Collaboration:

- Form mixed teams of partner university students and Malaysian students.
- Teams discuss similarities between the partner country's challenge and a related challenge in Malaysia to find common grounds to use for a solution.

Objectives:

- Facilitating international collaboration among students.
- Identify common challenges across different countries.
- Develop innovative solutions that can be applied globally.
- Encourage intercultural exposure and cultural learning



Topic	Strengths	Weaknesses	Opportunities	Threats
<p>Students from a partner university would come up with a presentation about a challenge related to their country. They would then have to team up with the Malaysian students to focus on that challenge and see how it relates to a similar challenge that Malaysia is facing. The mixed teams would then have to come up with a solution that would try to combine every similar aspect or see how every different country/ culture/ mentality tackles that issue and get inspired by the strength of those differences to find a viable solution.</p>	<ul style="list-style-type: none"> - International Collaboration: Encourages students from different cultural and academic backgrounds to work together, fostering a global perspective. - Networking: Builds connections between students and faculties which can lead to future opportunities. - Educational Value: Offers a hands-on learning experience that complements theoretical knowledge. 	<ul style="list-style-type: none"> - Availability of fundings 	<ul style="list-style-type: none"> - Innovation and Creativity: Provides a platform for innovative ideas that can lead to breakthrough solutions for global challenges. - Cross-Cultural Learning: Enhances understanding and appreciation of different cultures, potentially leading to more culturally sensitive solutions. 	<ul style="list-style-type: none"> - Difficulty coordinating between different ideas and mindsets and cultural differences that might be foreign or not apply to others