

# IMPACT ORIENTED INTERDISCIPLINARY RESEARCH (IIRG) 2022

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FRONTIERS OF THE NATURAL WORLD RESEARCH CLUSTER OFFICE

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[www.um.edu.my](http://www.um.edu.my)





UNIVERSITI  
MALAYA

# RESEARCH CLUSTER AREAS NICHE & THRUST

To be the preferred partner in research & champions in leading interdisciplinary research.  
To focus on research areas with promising performances & experts-ready with critical mass (Niche) and emerging areas (Thrust).


## NICHE AREAS


Cultural, Heritage and Civilization 

Behavioral Studies 

Cancer 

Active Ageing 

Nature-inspired Technology (Drug Discovery) 


Energy 


Materials 





## THRUST AREAS


 Education for the Future


 Smart Society

 Innovative Health

 Mental Well-Being

 Lifestyle Diseases

 Curiosity-driven Fundamental Research

 IR4.0

 Water & Environment

 Sustainable living

**“To develop impactful research projects that address real world issues relevant to the **society** and **industry** It is at these interfaces between different disciplines that **creativity** and **innovation thrive**”**

# INTERDISCIPLINARY

a mode of research by teams or individuals that integrates information, data, techniques, tools, perspectives, concepts and/or theories from TWO or more disciplines or bodies of specialized knowledge to advance fundamental understanding or to solve problems whose solutions are beyond the scope of a single discipline or area of research practice.\*

\*Source: [https://www.nsf.gov/od/oia/additional\\_resources/interdisciplinary\\_research/definition.jsp](https://www.nsf.gov/od/oia/additional_resources/interdisciplinary_research/definition.jsp)

## AIMS

STRENGTHEN NICHE &  
NURTURE THRUST AREAS



ENCOURAGE  
INTERDISCIPLINARY  
RESEARCH

DRIVE IMPACT  
ORIENTED RESEARCH



# SPECIFIC CRITERIA

## NO OF WORK PACKAGES

$\geq 3$  researchers must come from at least  
2 different disciplines &  
2 different faculties

## ELIGIBILITY AS PL/WPL

- Lecturers
- Senior Lecturers
- Associate Professors

## MAXIMUM CEILING/ PROGRAMME

**RM 300,000**

## DURATION

**24 MONTHS**

**APPLICATION FORM**
**UNIVERSITI MALAYA IMPACT-ORIENTED INTERDISCIPLINARY  
RESEARCH GRANT PROGRAMME (IIRG)  
CYCLE 5/2022**
*[Incomplete Form will be rejected]*

PROGRAMME LEADER (PL)	
PROGRAMME TITLE	
NEXT APPOINTED LEADER	

**B. RESEARCH BACKGROUND** (Includes background and purpose: a clear and concise description of the research topic. Include a summary of the literature – citing only seminal, significant, and compelling sources – to provide the context for your project and discuss what others have discovered and accomplished, the purpose of your research, describe the “so what?”; why the project matters, describe the potential short- and long-term impact of the project, who will benefit, directly and indirectly) (max. 300 words)

**C. TARGET NATIONAL/ INTERNATIONAL ISSUE** (What is the national/international issue to be addressed? How do you know that this is an issue? Why is it important to address this issue?)

**D. PROPOSED SOLUTION** (What is your solution? / How do you propose to address this issue? What is the significance of the solution? Explain how your proposed solution will address the issue in the immediate, short or long term)

**A. NICHE/ THRUST AREA** [Please tick (v) only **ONE (1)** Niche **OR** Thrust area]

RESEARCH CLUSTER	NICHE AREAS		THRUST AREAS	
Frontiers of the Natural World	Nature-Inspired Technology (Driving Drug Discovery)	( )	Curiosity-Driven Fundamental Research	( )
Health & Well Being	Active Aging	( )	Innovative Health	( )
	Cancer	( )	Lifestyle Diseases	( )
			Mental Well-Being	( )
Innovative Industry & Sustainability Science	Energy	( )	IR4.0	( )
	Materials	( )	Water & Environment	( )
			Sustainable Living	( )
Social Advancement & Happiness	Behavioural Studies	( )	Education for the Future	( )
	Cultural, Heritage and Civilization	( )	Smart Society	( )

**E. INTERDISCIPLINARITY** (Describe the interdisciplinary nature of your programme. How do the different disciplines combine to solve the problem) (max. 300 words)

**F. QUALITY OF RESEARCHERS**

i. UM Research Team Track Record

No.	Name	Faculty	H-Index	Citations	No. of Publications**	Role/ Contribution
1.						
2.						
3.						

\*\* For the past 3 years and **MUST** be relevant to the proposed programme

ii. External Collaborator and Stakeholders (**MUST be relevant to the proposed programme**)

No.	Institution	Name of Researcher	Role/ Contribution
1.			
2.			
3.			

**G. STAKEHOLDER ENGAGEMENT**

G1. Describe who your stakeholders are, how you have engaged and the extent that you have engaged with them.

G2. Roles & contributions of stakeholders in this programme.



# ACADEMIC VS. NON ACADEMIC OUTPUT

## H. TARGETED RESEARCH OUTPUT (Please select at least 1 (ONE) from each category)

### i. ACADEMIC OUTPUT

No.	Details	Output
1.	WoS	
2.	Book(s) / Chapters in book (Research book published by international renowned Publisher and those in the MAPIM List will be counted)	
3.	Scopus/ Peer-reviewed journal articles (Only for non-science which are listed under MySite & ESCI)	
4.	Policy papers	
5.	IPR / Copyright	
6.	Human Capital Development (PhD/ Masters)	

### ii. NON-ACADEMIC OUTPUT

No.	Details	Output
1.	Videos (Live action videos - a recording of either still or moving objects)	
2.	Media Articles	
3.	Website	
4.	Website/Blog/Social Media	
5.	Software / Applications	
6.	Societal Engagement	
7.	Others: Please specify and seek clarification from Research Cluster Office for acceptable non-academic output	

Select at least  
**ONE (1)** from  
each category

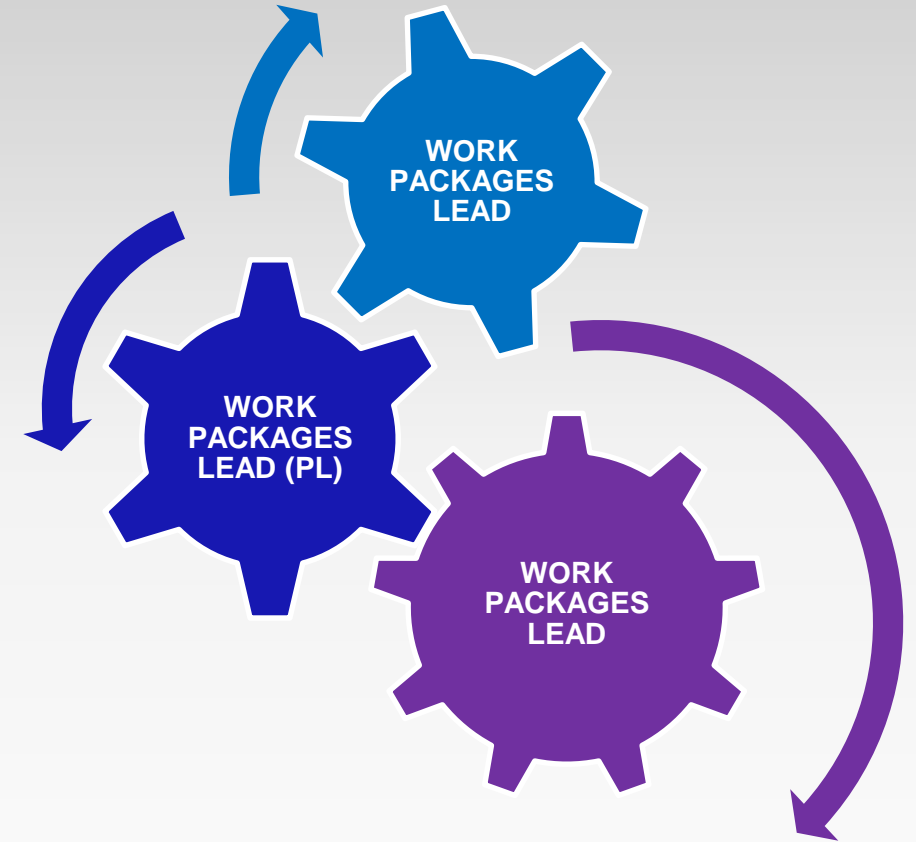


# WORK PACKAGES

(e) Methodology:

## 1. Description of Work Package

Programme Title:		
Programme Leader:		
Work Package 1 Lead:	Work Package 2 Lead:	Work Package 3 Lead:
Description:	Description:	Description:



**Internal Members and External Collaborator (s)**

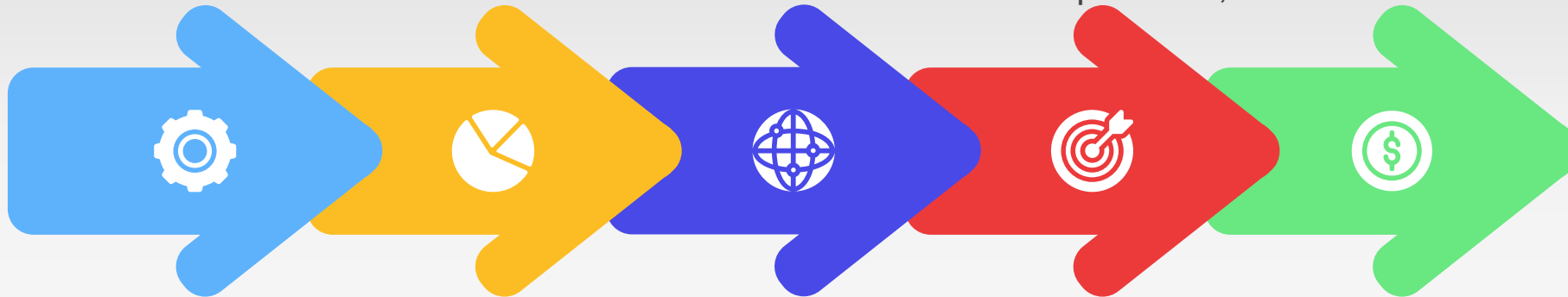
# PATHWAY TO IMPACT

## Activities

Research, engagements,  
facilities, etc

## Outcomes

Changes affected – new/change in  
policy, new companies, improved  
methods/ products, etc



**Social  
Economic  
Environmental**

## Input

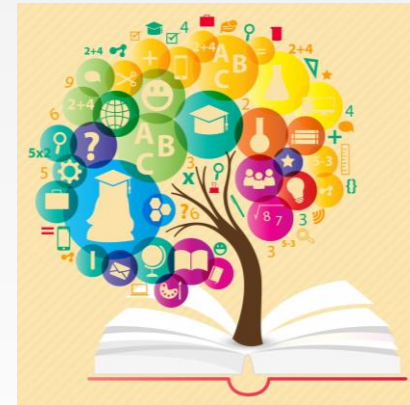
Proposals  
Programmes/projects, etc.

## Outputs

Project deliverables -  
publications, IP, patents,  
policy briefings, etc

## Impact

Measureable change that  
occurs – lower unemployment,  
increased quality of life,  
reduced accidents



**Narration.  
Tell your  
story**

# Researcher



## IMPACT NARRATIVE

What could my  
research change



Whom could my  
research benefit



How do I make this happen



# Routes to Impact

**Dissemination of my research**

**Co-production**

**Engaging key stakeholders**

**Involving possible end users**

*My research itself is shaped and developed*

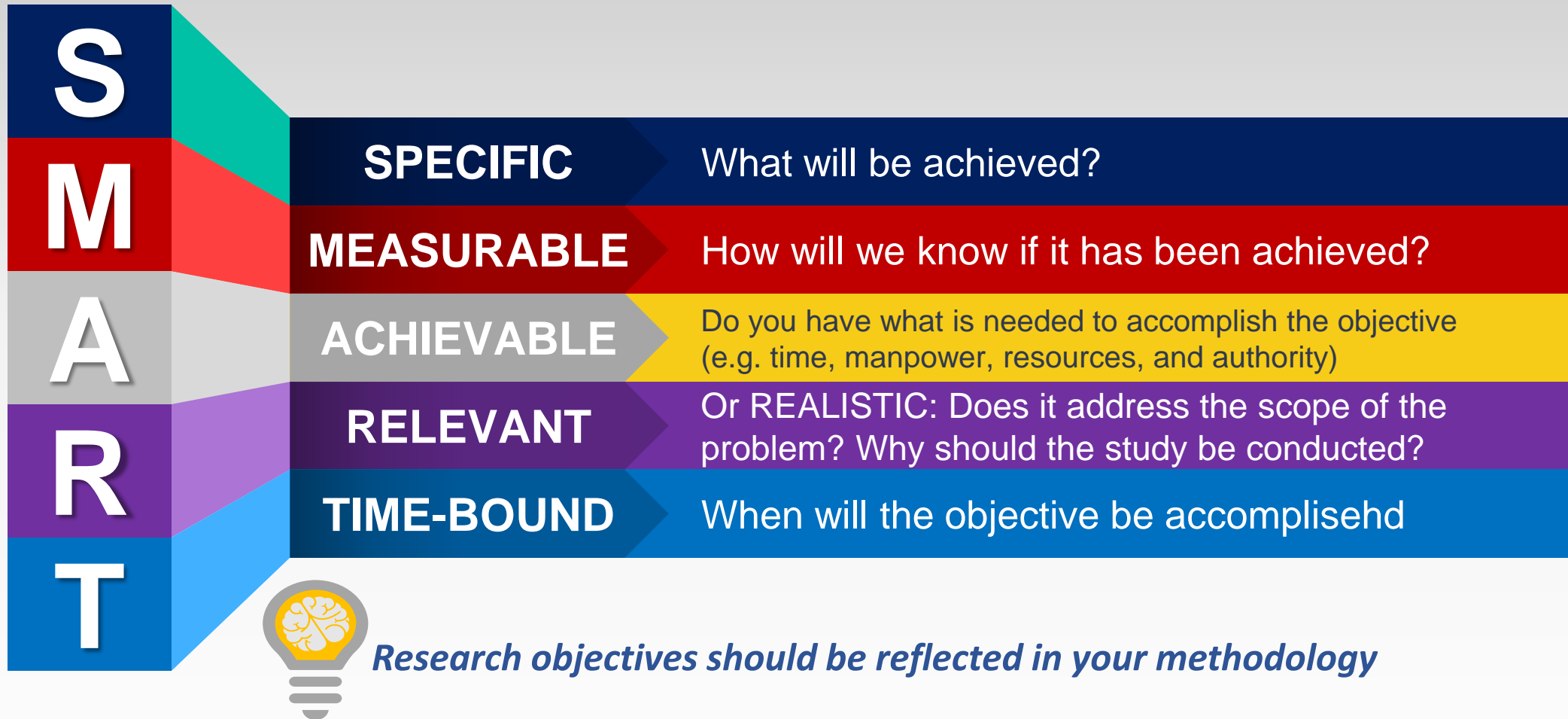
**Uptake and use of my research outside academia**

**IMPACT!**

# IMPACT STATEMENT

<p><b>You can use these columns to help write your 'IMPACT SUMMARY'</b></p>		<p>This may be helpful for <u>structuring</u> your 'Impact Summary' and 'Pathways to Impact' sections</p>	<p><b>You can use these columns to help write your 'PATHWAYS TO IMPACT'</b></p>				
<p><b>Who</b> will your research benefit? (non-academic beneficiaries)</p>	<p><b>What</b> will be the benefits to them from your research?</p>	<p><b>How</b> would you categorise this benefit/beneficiary? (E.g. public, industry, Policy?)</p>	<p><b>How</b> are you going to share your research with them? (I.e. what is the specific activity?)</p>	<p><b>When</b> are these activities going to take place? (Be as specific as possible)</p>	<p><b>Who</b> from your research project is going to arrange and deliver this activity?</p>	<p>What <b>resources/raining</b> will you need for this activity? (Include in costs &amp; justification of resources)</p>	<p><b>How will you know</b> these activities have been successful?</p>

# S.M.A.R.T. OBJECTIVES



## Main Expected Output

- » Salary & wages: max = **RM 30,000/year**
- » Output = at least 3 HCD/Programme
- » Travel = **fieldwork ONLY**
- » **X equipment**

## Research output will be ONLY accepted if:

- **after** the grant is being **awarded**.
- **relevant** to the project/programme approved.



E	SUMMARY OF OVERALL BUDGET				
Please indicate your estimated budget for this research and details of expenditure					
Budget details		Amount requested (RM)			
		Work Package 1 (RM)	Work Package 2 (RM)	Work Package 3 (RM)	Total (RM)
		Work Package Lead:	Work Package Lead:	Work Package Lead:	
E(i)	Vote 11000 - Salary and wages				
E(ii)	Vote 21000 - <input type="text" value="Traveling and Transportation"/>				
E(iii)	Vote 24000 - Rental				
E(iv)	Vote 27000 - Research Materials & Supplies				
E(v)	Vote 28000 - Maintenance and Minor Repair Services				
E(vi)	Vote 29000 - Professional Services				

**Budget with details of expenditure!**

# RISK ASSESSMENT

## I. RISK ASSESSMENT

Description of risk (Low/Medium/High)	Work package(s) involved	Proposed risk-mitigation measures

# ADDITIONAL REQUIREMENTS



## 1. Promotional and Visibility Requirement

All programmes are required to **produce materials (e.g. infographic/videos/lay abstract/photos)** related to the research programme. These materials will be used for **promotion and visibility purposes.**

## 2. Research continuity

Must **show evidence** that a **proposal** is prepared and ready for submission for **external funding application** as a **continuation** of the **work** in **IIRG** (at month 21). The researchers must also identify the funding body to which it will be submitted



### Note:

**Researchers who fail to produce the required research outputs may not be considered for any new UM internal grant applications for a period of up to 3 years.**

# HIGHLIGHTS

## UM Safety & Research Handbook

- Applications are subjected to all requirements stated in **UM Safety & Research Handbook**. **DISQUALIFIED** if failed to do so.
- Proof of submission of **Notice of Intent [NOI]** to IBBC must be attach with your proposal for research involving use of **infectious & potentially infectious agents/materials & biological toxins**.

## Research Ethics

- Research involving **human participants** and the **use of vertebrate animal subjects** must be referred to the appropriate ethics committee
- If you are successful, please be reminded that **proof of ethics application must be submitted prior to the activation of research account**

ALL RELATED DOCUMENTS ARE AVAILABLE AT



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CLUSTER



# CHECKLIST

## NOTE

- The Programme Leader must ensure all documents in the checklist are submitted.
- **Incomplete applications will not be processed.**



UNIVERSITI MALAYA IMPACT-ORIENTED INTERDISCIPLINARY  
RESEARCH GRANT PROGRAMME (IIRG) CYCLE 5/2021

### CHECKLIST FORM

NAME OF PROGRAMME LEADER	
PROGRAMME TITLE	
NEXT APPOINTED LEADER	

No.	Details	Please Tick (/)	RC Office
1.	Application Form		
2.	Graphical Abstract (For the whole programme) (maximum 1 page)		
3.	Gantt Chart of Research Activities (For the whole programme)		
4.	Research Milestones (For the whole programme)		
5.	Flow Chart of Research Activities (For the whole programme)		
6.	Justification/ Details of Proposed Budget		
7.	Curriculum Vitae (CV) for <ol style="list-style-type: none"> <li>Programme Leader</li> <li>Internal Team Members (Work Package Lead &amp; other members)</li> <li>External Collaborator (s)</li> </ol>		
8.	Researchers' Profile of Programme Leader & Work Package Leader (maximum 1 page)		
9.	Commitment Letter (for External Collaborators/s)		
10.	Commitment Letter from the stakeholder (s) (Containing details of type of collaboration, role of stakeholders and their contribution)		



# TIMELINE



**Announcement**

(15 Jun 2022)

**Submission**

(15 August 2022)



**Evaluation Round 1**

(technical knockout)

(25-29 August 2022)

**Shortlist**

**Evaluation Round 2**

**Peer Review Evaluation**

(30 August – 20 Sept 2022)



**PYP Briefing**

(3 Oct 2022)

**Pitch**

**Open Session**

(25-27 Oct 2022)

**Revision**

(14 Nov 2022)

**Announcement of  
Result**

(18 November 2022)

**Award**

**December 2022**



# INVITATION TO IIRG CYCLE 5/2022 PROPOSAL CLINIC

July 2022; 9.00 am – 12.00 pm\*\*

**The aim of the workshop is to facilitate researchers in preparing proposal for applying IIRG with interdisciplinary elements & research impact.**

<input type="checkbox"/> Nature-inspired Technology (Driving Drug Discovery)	<input type="checkbox"/> Cancer <input type="checkbox"/> Active Ageing <input type="checkbox"/> Innovative Health	<input type="checkbox"/> Cultural, heritage & civilization <input type="checkbox"/> Behavioral studies	<input type="checkbox"/> IR 4.0 <input type="checkbox"/> Water & environment
<input type="checkbox"/> Curiosity-driven Fundamental Research	<input type="checkbox"/> Mental Well-being <input type="checkbox"/> Lifestyle Diseases	<input type="checkbox"/> Education for the future <input type="checkbox"/> Smart society	<input type="checkbox"/> Sustainable living <input type="checkbox"/> Energy <input type="checkbox"/> Material

**Venue: Online Platform\*\***

**\*\*subject to changes**

**Slots are limited and based on first come first served basis.**

**Please also bring your program proposal and limit to 3 participants per session**



## RULES FOR PARTICIPANTS

**3 PowerPoint slide.**

**Presentations are not limited to spoken word**

**Duration: 3 minutes**

**Presentations -commence from the stage**

(25-27 Oct 2022)

**PYP**

- 1 questions/ session
- The judging panel's decision is final

## JUDGING CRITERIA

**Content**

**Delivery**



# Visit Us!



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- Contact No. : 03-7967 7801/ 7802/ 7804/ 7805/ 7809



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