

What is the RPD Challenge?

The Rapid Prototype Development (RPD) Challenge is a hands-on Hackathon where teams will create a prototype with limited resources. Mentors will give valuable guidance and encourage participants to squeeze their brains to tackle real-life issues through creative solutions.

10 teams (max) will be able to participate. Join either as a Team or as an individual!

QUALIFICATION

Undergraduate, Graduate Students, Researchers, Industry, Policy and Decision Makers from Asia and Oceania Regions.

REGISTRATION

Register from the link below: https://www.rpdchallenge.com
For any inquiries, contact secretariat@multignss.asia

BRING YOUR IDEAS TO LIFE

- THE STEPS



- 1 IDENTIFY ISSUES
- **2** DESIGN CONCEPT
- **3** DESIGN SYSTEM
- **4** ASSEMBLE & DEMO



IDEA CREATION

IDENTIFY ISSUES

What are potential issues arising from social issues, and what infrastructure already exists?



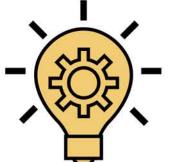
DESIGN CONCEPT

Work with your team and mentors and design your concept.

PROTOTYPE CREATION

DESIGN SYSTEM

How can you realise your concept?
Think of your device options and design your system.



ASSEMBLE & DEMO

Assemble the devices and make improvements through tests & demos!

LET'S GET STARTED

- COURSE INTRO & LECTURES

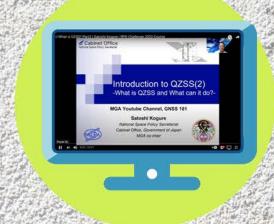
COURSE INTRODUCTION

Get your briefing on the course overview and the planned schedule for the journey ahead!



GNSS 101

Learn the basics of positioning satellites and key technologies behind IoT devices through a series of webinars to spark your imagination with food for innovation from leading experts!





SYSTEM DESIGN

Design your concept based on your scenario, defining the necessary device, software and datasets.



ASSEMBLE & TROUBLE SHOOT

Bring together the necessary components and software to assemble your device.

Check the interface and organise a series of tests to make sure the smooth running of your prototype.





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STED 1 - IDEA & SOLUTION

RESEARCH

What alert systems are available in that location? Do your research and define your target community.

IDENTIFY SCENARIO

What devices will be sending/receiving alerts? Identify your scenario, select your components and map out your plan.





STEP 4 - DEMONSTRATION

PRESENT & DEMONSTRATE

How will your solution benefit society? Convince your audience & judges with your concept and demonstrate your team's concept to the audience!





Date/Time (Thai Local Time		ime) Course Overview
Open Registration	Deadline 31 Oct 2023	Free Registration on RPD Website https://www.rpdchallenge.com
GNSS Introduction Online Streaming	Now – 30 Nov 2023	GNSS Lecture on MGA Chanel https://www.youtube.com/@MultiGNSSAsia/playlists GNSS Tech GNSS Tech GNSS Tech View full playlist View full playlist
Online lecture	9 Dec 2023 : 10:00 - 12.00	Tutorial Session: Course Introduction + Kick off Meeting by GISTDA and RPD team + Call ideas
	16 Dec 2023 : 10:00-11:00	Online lectures: Lecture and demonstration of SPRESENSE by Sony Group Corporation
zoom	Spresense device provided	
	13 Jan 2024 : 10:00-12:00	Online lectures: Lecture and demonstration of SPRESENSE by Sony Group Corporation+University of Tokyo
	20 Jan 2024 : 10:00-11:00	Online lectures: Overview of Early Warning Service System by Prof. Keiko Shimazu
STEP 01	29th Jan 2024 : All Day	Define Scenario and Ideas Creation
STEP 02	30th Jan 2024 : All Day	Project Planning and design of System
STEP 02-03	31st Jan 2024 : Afternoon	System Design and Proof of Concept preparation + Sample command testing with devices (POC)
MGA Conference 2023 STEP 03	1st Feb 2024 : Afternoon	Pre-Final / PoC presentation
STEP 04	10 or 11 February 24 February March	Online Lecture: Advanced Lecture of Early Warning Service System by Prof. Keiko Shimazu Trouble Shooting or Final Consultation date and 2nd Sample command testing) (each time meet experts) Final Presentation

MGA RPD CHALLENGE 2023