



## GPBL Mathematics 2021

### Virtual Global Project based Learning in Mathematics

Shibaura Institute of Technology (SIT) & Institut Teknologi Sepuluh Nopember (ITS)  
2-7 August 2021

#### What's GPBL?

Global Project Based Learning (GPBL) offers opportunities for the students of Shibaura Institute of Technology (SIT)'s overseas universities to engage in acquiring problem solving capabilities, system thinking, and system management skills through problem solving experience.

Promoting a space for young mathematicians, analyst, and researchers to connect and network, SIT and ITS collaborate to create GPBL in Mathematics, inviting students from both universities and their selected overseas partners'.

#### The Hosting Universities

##### Shibaura Institute of Technology (SIT), Japan

Known as a high reputation university in Japan prominent in engineering and science, SIT upholds the philosophy of "learning through practice" for its education system.

##### Institut Teknologi Sepuluh Nopember (ITS), Japan

As a top-rank research-based university in Indonesia, prominent in engineering, technology, science, and art and design, ITS strives to cultivate international learning environment.

Previous GPBL in Mathematics by SIT and ITS:

GPBL 2020 - Mathematical challenges towards disease outbreaks (Virtual)

GPBL 2019 – Solving Problems in Surabaya City using Mathematical Sciences





## The 2021 GPBL Topics

This year, GPBL in Mathematics offers four (4) topics for wider audience to explore including:

- Let's play with automata (by Prof. Tomoyuki Idogawa, SIT)
- Introduction to stochastic processes and applications (by Dr. Tomonori Nakatsu, SIT)
- Optimization and its applications (by Prof. Mardlijah, ITS).
- Mixed-Integer Programming Modelling (by Dr. Sena Safarina, ITS).

## The 2021 GPBL Participants and Quota

### Participant Quota

- For SIT Japan : 20 students (plus 5 additional seats for SIT partners)
- For ITS Indonesia : 30 students (plus 5-10 additional seats for other Indonesian universities or university partners of the ITS Department of Mathematics)

### Program Details

Day & Date	: Monday 2-7 August 2021	
Duration	: 6 (six) days; 3 (three) hours for each meeting	
Time	: Indonesian Standard Time (IST)	: 1PM – 4PM
	: Japan Standard Time (JST)	: 3PM – 6PM
Platform	: Zoom	
Activities	: Lecturers, discussion, project presentation, and fun activities*	

## Call for Participants

### Eligibilities:

1. Active ITS student from any batch and any major (preferably Mathematics)
2. Having good English (oral and written)
3. Minimum GPA 2.75
4. Highly motivated, committed, and discipline

### Requirements:

1. CV
2. Transcript
3. Language Certificate (English and/ or Japanese)

### Benefits

1. Knowledge and experience
2. International exposure and network
3. Certificate

### Selection Timeline\*

- June 1, 2021 – Call for participants
- June 26, 2021 – Deadline for application
- July 12-17, 2021 – Selection and Interview
- July 17, 2021 – Participant announcement
- July 19, 2021 – Participant briefing





## Registration and Deadline for ITS students

Form: [intip.in/RegistrationGPBLMat2021](http://intip.in/RegistrationGPBLMat2021)

Deadline: June 26, 2021 at 16.00 IST

## Contact:

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## Agenda

Meeting	Day, Date	Activities
Meeting 1	Monday, 2 August 2021	Introduction to the topics and project allocation
Meeting 2	Tuesday, 3 August 2021	Group discussion on the topics
Meeting 3	Wednesday, 4 August 2021	Group discussion, presentation, & review
Meeting 4	Thursday, 5 August 2021	Info session and cultural activities
Meeting 5	Friday, 6 August 2021	Group discussion
Meeting 6	Saturday, 7 August 2021	Final group presentation & feedback and review

