

TERM OF REFERENCE (ToR)

Event	Industrial Mathematics Weeks (IMW) ITB 2026
Program Components	Summer Course
Venue	Institut Teknologi Bandung, Bandung, Indonesia (room/venue TBC) and/or online via Zoom
Organizer	IMW ITB 2026 Organizing Committee, Institut Teknologi Bandung

1. Background

Industrial Mathematics Week (IMW) ITB 2026 is an annual academic and industry-oriented program organized by the Industrial and Financial Mathematics Research Group, Faculty of Mathematics and Natural Sciences (FMIPA), Institut Teknologi Bandung. The program serves as a collaborative platform that connects mathematical theory with real-world challenges in industry and society, including insurance, business, operations research, optimization, machine learning, finance, actuarial science, and related areas of applied and industrial mathematics.

IMW ITB 2026 will consist of several main activities, including the **GAIP Competition Final, the International Conference Day, and Summer Course**. Through these activities, the program aims to bring together students, researchers, lecturers, practitioners, and institutional partners to exchange knowledge, strengthen academic-industry collaboration, and explore practical applications of industrial mathematics.

As one of the main components of IMW ITB 2026, the **Summer Course** is designed to provide participants with intensive learning experiences through lectures, case-based discussions, practical exercises, and problem-solving sessions delivered by invited academics, researchers, and industry practitioners. The program will be held during the period of 06–17 July 2026 and will involve several lecturers from academic institutions and industry partners, delivered through offline, online, and/or hybrid formats.

2. Objectives

The objectives of the IMW ITB 2026 Summer Course are as follows:

- To provide participants with structured exposure to selected topics in applied and industrial mathematics.
- To introduce participants to practical applications of mathematical modelling, optimization, data analytics, machine learning, actuarial science, operations research, and related quantitative approaches.
- To strengthen participants' analytical, modelling, and problem-solving skills through lectures, case studies, exercises, and/or project-based learning.

- To promote academic-industry interaction by connecting theoretical concepts with real-world challenges.
- To provide students and young researchers with exposure to current developments in applied mathematics and its applications in industry.
- To support collaboration among universities, research institutions, industry partners, and professional communities.

3. Target Audience

The target audience of IMW ITB 2026 includes:

- Undergraduate and graduate students in mathematics, actuarial science, statistics, finance, data science, and related fields.
- Lecturers, researchers, and academic participants interested in applied mathematics, industrial mathematics, actuarial science, finance, risk, and analytics.
- Industry practitioners and institutional partners involved in insurance, finance, actuarial, risk management, business, analytics, or related areas.

4. Invited Lecturers

The invited lecturers for the IMW ITB 2026 Summer Course are as follows:

No.	Name	Date	Mode
1	Mr. Cheng Hwee Sim	6 July 2026	Online
2	Mr. Ghany Hanifan Muslim	6 July 2026	Offline
3	Rudy Kusdiantara, Ph.D.	7 July 2026	Online
4	Adhe Kania, Ph.D.	8 July 2026	Online
5	Assoc. Prof. Geoffrey Chua	8 July 2026	Online
6	Dila Puspita, Ph.D.	9 July 2026	Online
7	Mohammad Rizka Fadhli, M.Si.	13 July 2026	Offline
8	Assoc. Prof. Joey Zhou	13 July 2026	Offline
9	Dr. Daniel Gartner	14 July 2026	Offline
10	Ari Andricopoulos, Ph.D.	15 July 2026	Online and Offline

The detailed time allocation, room assignment, Zoom link, session title, and technical requirements for each lecturer will be confirmed separately by the organizing committee.

5. Scope of Contribution

The expected contributions of the invited lecturers include:

- Delivering lecture sessions according to the agreed schedule during the IMW ITB 2026 Summer Course.
- Proposing a suitable title, theme, or topic for the assigned Summer Course session.
- Preparing lecture materials, presentation slides, case studies, problem sets, exercises, datasets, or other supporting materials, where relevant.
- Delivering the session in an interactive and accessible manner suitable for the target audience.
- Providing practical examples or case-based discussions to help participants understand the application of the topic.
- Engaging with participants through discussions, questions and answers, exercises, or feedback sessions.
- Providing a short biography, institutional affiliation, profile photo, lecture title, and short session description for publication and administrative purposes.
- Coordinating with the organizing committee regarding schedule, technical requirements, learning materials, and logistical arrangements.

6. Expected Session Format

Each Summer Course session may include one or more of the following formats:

1. Lecture or keynote-style presentation.
2. Tutorial or technical training session.
3. Case-based learning session.
4. Problem-solving or exercise session.
5. Hands-on session using software, datasets, or computational tools.
6. Group discussion or interactive workshop.
7. Mini-project, assignment, or guided activity.

The final format of each session will be discussed and confirmed between the invited lecturer and the organizing committee.

7. Materials and Deliverables

Invited lecturers are requested to provide the following materials, where applicable:

1. Lecture title or session title.
2. Short description or abstract of the session.
3. Short biography and institutional affiliation.
4. Profile photo for publication purposes.
5. Presentation slides or lecture materials.
6. Problem sets, case studies, exercises, datasets, or reading materials, if relevant.
7. Software requirements, technical requirements, or participant preparation notes, if any.
8. Confirmation regarding whether the materials may be shared with participants for educational purposes within the IMW ITB 2026 Summer Course.

8. Support Provided by the Organizer

The organizer may provide support according to the agreed arrangement with each invited lecturer, which may include:

1. Coordination support before and during the program.
2. Venue and classroom arrangement for offline sessions.
3. Zoom meeting arrangement for online sessions.
4. Technical support during the session, including projector, screen, sound system, internet access, and online meeting facilities, subject to availability.
5. Certificate or official acknowledgment of contribution.
6. Accommodation, local transportation, or other logistical support, if agreed separately between the invited lecturer and the organizing committee.

The specific support provided for each invited lecturer will be confirmed individually by the organizing committee.

9. Information Required from Lecturers

For administrative, publication, and program arrangement purposes, each invited lecturer is requested to provide:

- Completion and submission of the Assignment Form, including confirmation of availability to participate in the IMW ITB 2026 Summer Course and other relevant information required for program arrangement.
- Preferred session title or topic.
- Short session description or abstract.
- Short biography, institutional affiliation, and profile photo.
- Lecture materials, slides, case studies, problem sets, or exercises, where applicable.
- Technical requirements for the session, including software, datasets, internet access, or other supporting tools.
- Travel, accommodation, dietary, accessibility, or special requirements, if relevant and if logistical support has been agreed.

10. Contact Information

Contact Person	Anggun Citra Delima
Role	IMW ITB 2026 Organizing Committee
Email	anggun.citra@itb.ac.id
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