

INDUSTRIAL CHALLENGE & INGENIOUS SUMMERCAMP 2024

DATE : 29TH OF JULY – 1ST AUGUST 2024

INDUSTRIAL AND SYSTEM ENGINEERING DEPARTMENT @ITS SURABAYA INDONESIA

BY LALITPAT PHUEADCHANTHUEK



The Industrial Challenge x INGENIOUS Summer Camp 2024 will be held at the Industrial and Systems Engineering Department within 5 days. For 5 days, 15 finalists will undergo an intensive bootcamp and various non-competitive activities such as cultural night, city tour, and gala dinner. On the 5th day there will be a final presentation of the 5 finalists who have received cases from the previous company visit. Through this series of events, participants of the Industrial Challenge x INGENIOUS Summer Camp 2024 can help each other to develop and maximize their abilities in solving problems contained in Industrial and Systems Engineering competencies by providing solutions to case studies in relevant fields. In this camp all participants need to learn to communicate in English . participants are required to speak English with everyone



PLENARY SESSION 1

TOPIC: Sustainability in Manufacturing: Best Practices in Remanufacturing

Dr. Maria Anityasari, S.T., M.Eng. Ph.D. (Institut Teknologi Sepuluh Nopember, Indonesia)



PLENARY SESSION 2

TOPIC: Market Trend in Green Innovation

Dr. Logaiswari Indiran, Ph.D. (Universiti Teknologi Malaysia)



PLENARY SESSION 3

TOPIC: Resilience and Sustainability in Supply Chains

Natdanai Chanlawong Ph.D (Suranaree University of Technology)



PLENARY SESSION 4

TOPIC: Inter-organizational Relationships, Project Development and Management, Open Innovation, Engineering Economy Asst. Prof. Diana Marie R. De Silva, Ph.D (Philippines Los Baños)



LAB VENTURE

Participants will be given the opportunity to directly experience around the laboratory and play games in accordance with the field of Industrial and Systems Engineering in accordance with the specific knowledge of each laboratory. At this stage, participants will also be given experience solving problems and questions from each laboratory and related to the grand theme INCHALL X Ingenious Summer Camp 2024

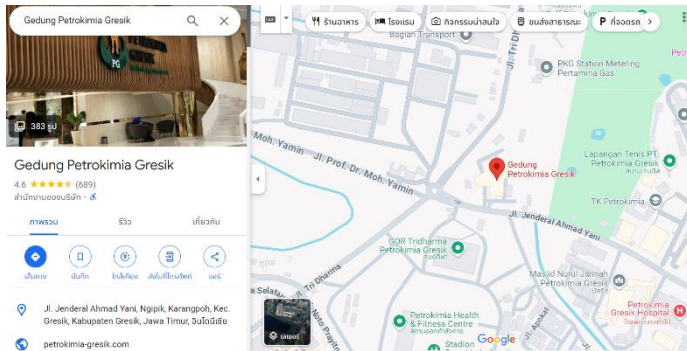


- Ergonomic and Work System Design (EPSK) Laboratory EPSK is a Laboratory focuses on conducting teaching, research activities, and community services in the field of ergonomics/human factors and occupational health and safety engineering.
- Manufacturing System (MANSYS) Laboratory Manufacturing System have an expertise area of Environmental Management, Multi-Criteria Decision Analysis, Management Technology, Green Manufacturing, Productivity, Quality and Manufacturing Systems, Sustainable Manufacturing, Life Cycle Management, Sustainability.
- Quantitative Modelling and Industrial Policy Analysis (QMIPA) Laboratory The QMIPA is a Laboratory which supporting the achievement of the industrial and engineering Department of ITS in the field of optimizing quantitative evaluation as an alternative decision including by simulating. Achieving Sustainability Development Goals Through Data and Analytics.
- Logistics and Supply Chain Management (LSCM) Laboratory LSCM is a laboratory concentrated on the fields of logistics management and supply chain management with focus study to produce an efficient flow of goods from upstream to downstream supported by information flow, coordination, and collaboration between business actors from raw material suppliers to end customers.
- Industrial Management and System Design (PSMI) Laboratory PSMI laboratory which focused on managerial system of an industry in such a way that the mobilization of existing units in the industry is effective. The knowledge in the PSMI lab is very useful in a series of industrial processes



COMPANY VISIT

In this stage, all the participants will visit partner company of INCHALL 2024, PT Petrokimia Gresik, which is located at Jl. Jend. Ahmad Yani, Gresik 61119, East Java. The purpose of this stage is to learn and understand the elements of the company's business processes being presented. Additionally, Company Visit stage will provide experience and knowledge to participants about the scope of Industrial and Systems Engineering in the workforce. At the end of the session, each team will continue work on a case study progress related to the main theme of INCHALL 2024 and the 5 selected teams will proceed to the Grand Final stage to present their result in front of the jury



PATRIOT OUTBOND

Patriot Outbound is not a competition stage but still influences the assessment of participant activity. In this Patriot Outbound activity, participants will pass several posts related to Indonesia's independence day. Participants will join mixed teams to complete the posts created by the committee



CULTURAL ACTIVITY



During the cultural activities, I had the opportunity to learn in-depth about the significance and history of the ***Kalana Panji mask***, a traditional Indonesian mask used in various performances. I also explored the diverse and rich flavors of the local cuisine, tasting dishes that reflect the unique cultural heritage of the region. In addition, I participated in traditional folk games, which not only offered fun but also provided insight into the local customs and ways of life, allowing me to fully immerse myself in the cultural experience.

CITY TOUR



CULTURAL PERFORMANCE & GALA DINNER



In summary, taking part in the **INDUSTRIAL CHALLENGE & INGENIOUS SUMMERCAMP 2024** provided me with invaluable experiences, fresh knowledge, and numerous challenges. I gained insights into new ways of learning, working, and navigating different languages and cultures. Despite the hard work, it was a truly rewarding experience that I will cherish and remember for a lifetime.



