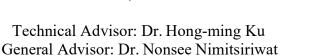


CHE656 - Plant Design Project Groups

ChEPS Class-27, Semester 2 of 2023





Team/Project	English Advisors	Members
Group 1 Part (a): AIChE NSDC Year 2021 Part(b): GRO	Dr. Nonsee	Patcharaphorn Sukjarern (KMUTT) Teeratat Promchan (KMITL) Munchuporn Larpprasoetkul (KMUTT)
Group 2 Part (a): AIChE NSDC Year 2020 Part (b): EVO	Dr. Chutima	Matimon Konteing (KMUTT) Onjira Sopakayang (KU) Rossawat Teerasarunyanon (KMUTT)
Group 3 Part (a): AIChE NSDC Year 1989 Part (b): OOBE	Dr. Kwanchanok	Thanut Bumrungsawat (KMUTT) Matchima Konglom (KMUTT) Amornrat Srithongpusakul (KMUTT)
Group 4 Part (a): AIChE NSDC Year 1991 Part (b): LOA	Dr. Asawin	Siksakaset Prerdpring (KMUTT) Salisa Dachboon (KMUTT) Chanakan Sukmongkolwongs (TU)
Group 5 Part (a): AIChE NSDC Year 1995 Part (b): WaOA	Dr. Thongchai	Ponthep Wongjaikum (KMITL) Nartsupang Chongcharoen (KMUTT)

Presentation Timetable:

Part (a):

Proposal Presentation – Thursday February 15, 1:30 pm

• Attended by Aj Ming, Aj Thongchai, Aj Asawin, and Aj Nonsee

Progress Presentation – Thursday March 7, 1:30 pm

Attended by Aj Ming, Aj Thongchai, and Aj Nonsee

Final Presentation – Thursday March 28, 1:30 pm

Attended by Aj Ming, Aj Thongchai, Aj Nonsee, and Aj Kwan

Part (b):

First Presentation – Thursday April 25, 1:30 pm

Attended by Aj Asawin and Aj Alisa

Final Presentation – Thursday May 16, 1:30 pm

Attended by Aj Ming, Aj Thongchai, Aj Asawin, and Aj Kwan

Part (a): AIChE National Student Design Competition Problems

- Year 1989 Methanol and MTBE Synthesis from Vacuum Distillation Residue
- Year 1991 Revamp Refinery NGL Processing Unit
- Year 1995 Production of Methanol by a New Process Utilizing Methyl Formate as an Intermediate
- Year 2020 Toppings Refinery Retrofit
- Year 2021 Modular Distributed Gas-to-Liquids (GTL) Synthesis

<u>Part (b)</u>: Using Metaheuristic Algorithms to Solve Complex Chemical Engineering Optimization Problems

- Energy Valley Optimizer (EVO)
- Gold Rush Optimizer (GRO)
- Lyrebird Optimization Algorithm (LOA)
- One-to-One-Based Optimizer (OOBO)
- Walrus Optimization Algorithm (WaOA)