

# Curriculum

# PROFILE

The MPCE UNIP was established in 2005 to support the preparation of high-quality and competitive human resources at both national and international levels. Since 2015, it has been accredited with an "A" rating by BAN-PT. Graduates have an average GPA of 3.76 with an average study duration of 2 years and 1 month. MPCE Undip students have the opportunity to participate in a double degree program with several international partner universities, such as Asian Institute of Technology in Thailand, Pukyong National University in Korea, NTUST in Taiwan, and Universiti Teknologi Malaysia. MPCE Undip has produced high-quality graduates who have succeeded in various professional fields such as lecturers, researchers, managers, consultants, entrepreneurs, and more.

## Committee :

Prof.Ir. Didi Dwi Anggoro, M.Eng, Ph.D

MPCE-UD is supported by lecturers who are graduated from Indonesian and abroad universities, i.e.:

Prof. Dr. Ir. Abdullah, MS (Malaysia)  
Prof. Dr. Ir. Purwanto, DEA (France)  
Prof. Dr. Ir. Bakti Jos, DEA (France)  
Prof. Dr. Ir. Budiyo, M.Si. (Indonesia)  
Prof. Dr. M. Djaeni, ST, M.Eng (Netherlands)  
Prof. Dr. rer-nat. Heru Susanto, ST, MM, MT (Germany)  
Prof. Dr. Istadi, ST, MT (Malaysia)  
Prof. Dr. Widayat, ST, MT (Indonesia)  
Prof. Dr. Hadiyanto, ST, Msc (Netherlands)  
Prof. Dr. Andri C. Kumoro, ST, MT (Malaysia)  
Prof. Dr. Tutuk D. Kusworo, ST, M.Eng (Malaysia)  
Prof. Dr. Ir. Didi Dwi Anggoro, M.Eng (Malaysia)  
Prof. Dr. I Nyoman Widiasta, ST, MT (Indonesia)  
Prof. Dr. Ir. Setia Budi Sasongko, DEA (Malaysia)  
Prof. Dr. Siswo Sumardiono, ST, MT (Austria)  
Prof. Nita Aryanti, ST, MT, PhD (UK)  
Prof. Dr. Ing. Suherman, ST, MT (Germany)  
Prof. Dyah Hesti Wardhani, ST, MT, PhD (UK)  
Prof. Dr. Aji Prasetyanigrum ST, MT (Indonesia)  
Prof. Dr. Luqman Buchori, ST, MT (Indonesia)  
Prof. Dr. Ir. Hargono, MT (Indonesia)  
Prof. Dr. Ir. Ratnawati, MT (Indonesia)  
Prof. Dr. Ing. Silviana, ST, MT (Germany)  
Prof. Dr. Aprilina Purbasari, ST, MT (Indonesia)  
Prof. Dr. Ir. Indro Sumantri, M.Eng (Indonesia)  
Dr. Dessy Ariyanti, ST, MT (New Zealand)  
Prof. Dr. Ir. Nur Rokhati, MT. (Indonesia)  
Dr. Noer Abyor Handayani, ST, MT (Indonesia)  
Dr. Asep Muhamad Samsudin (Austria)

## DIPONEGORO UNIVERSITY



# MASTER PROGRAM OF CHEMICAL ENGINEERING 2024/2025

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## Elective Course

MPCE Undip offers four (4) concentration areas, namely Energy Conversion and Policy, Environmental Sustainability, Food Policy and Processing, and Synthesis and Application of New Materials. Each concentration is further divided into several research topics, including:

- Separation and Membrane Technology
- Food Technology and Drying
- New and Renewable Energy Technology
- Water Technology and Waste Treatment
- Material Technology
- Reaction and Catalysis Technology
- Bioprocessing and Biochemistry Technology

Semester 1 (Course)	Semester 1 (By Research)
Philosophy of Science and Research Methodology	Research 1
Advanced Chemical Engineering Thermodynamics	
Advanced Transport Phenomena	
Elective course 1	
Elective course 2	
Elective course 3	
Semester 2 (Course)	Semester 2 (By Research)
Advanced Chemical Reaction Engineering	Research 2
Chemical Process Systems Analysis	
Technical Presentation and Scientific Writing	Thesis Proposal
Elective course 2	
Thesis Proposal	
Semester 3 (Course)	Semester 3 (By Research)
Research Seminar	Research Seminar
Publication	Publication
Semester 4 (Course)	Semester 4 (By Research)
Thesis	Thesis



## Publication

Scientific publications in the Department of Chemical Engineering at UNDIP are supported by several relevant and high-quality journals, including:

- Bulletin of Chemical Reaction Engineering Catalysis (BCREC); Q3 SJR 0.26 (2019); indexed by SCOPUS, Clarivate Analytics, DOAJ, etc.
- International Journal of Renewable Energy Development (IJRED); Q3 SJR 0.26 (2019); indexed by SCOPUS, Clarivate Analytics, DOAJ.
- International Journal of Science and Engineering (IJSE); indexed by DOAJ, GIF.
- Reaktor (accredited Sinta 2 by DIKTI, indexed by DOAJ).
- Waste Technology (indexed by DOAJ, GIF).

The Department of Chemical Engineering at Diponegoro University also organizes international conferences annually on a rotating basis: ICCPPE (International Conference on Chemical Process and Product Engineering) and ICCME (International Conference on Chemical and Material Engineering). The output of each annual conference is Scopus-indexed proceedings.



## VISION

The vision of PSMTK UNDIP is to become a nationally and internationally renowned study program by 2025.

## Student Requirements

MCPE UNDIP accepts students who are graduates of Bachelor's programs (S1) in Chemical Engineering and other relevant exact sciences (such as Mechanical Engineering, Environmental Engineering, Food Technology, Chemistry, Biotechnology, etc.) with a minimum GPA of 3.00. Students with a non-related academic background are required to attend a matriculation program. Admission Requirements:

- Two (2) Academic Recommendation Letters from two senior lecturers/researchers who are familiar with the applicant's academic abilities during their undergraduate studies.
- A recommendation letter from the supervisor for applicants who are already employed.
- Two (2) Guarantee Letters of Financial Support (self-funded/scholarship/institution/sponsor) on stamped paper worth Rp. 10,000.
- A TOEFL score as per the requirements listed on the PSMTK website.
- Curriculum Vitae (and research experience for those pursuing research-based study).



## Tuition Fees

Fee	By Course and Research	By Research	Foreign Students
SPP <sup>1</sup>	10.000.000,-	10.000.000,-	17.500.000,-
SPI <sup>2</sup>	5.000.000,-	5.000.000,-	5.000.000,-
Matriculation <sup>3</sup>	3.000.000,-	3.000.000,-	3.000.000,-

## Scholarship

The scholarships available include: Unggulan Scholarship (DIKTI), Indonesian Education Scholarship (Ministry of Education and Culture), LPDP (Ministry of Finance), Double Degree Scholarships with Partner Universities, Panasonic Scholarship, Indonesian Education Scholarship (BPI) Fast Track Program (Diponegoro University) PAS Postgraduate Scholarship (Diponegoro University) Master-Doctoral Education Program for Outstanding Graduates (Ministry of Education and Culture and Diponegoro University)

## Contact us.

