



**UNIVERSITAS PANCASILA
PROFIL LULUSAN DAN CAPAIAN PEMBELAJARAN**



**UNIVERSITAS PANCASILA
PROFILE OF THE GRADUATE AND LEARNING OUTCOMES**

Fakultas	: Teknik	Faculty	: Engineering
Program Studi	: Teknik Mesin	Study Program	: Mechanical Engineering
Jenjang	: Magister (S2)	Study Level	: Master's Degree

<p>I. PROFIL LULUSAN</p> <p>Lulusan Program Studi Teknik Mesin S2 Universitas Pancasila memiliki Profil Lulusan, sebagai berikut:</p> <ol style="list-style-type: none"> Memiliki kemampuan untuk mengembangkan pengetahuan dan teknologi terkini dalam bidang Teknik Mesin (khususnya Rekayasa Konversi Energi atau Rekayasa Manufaktur & Material) secara kreatif dan orisinal melalui kegiatan riset yang sistematis dan teruji. Memiliki kemampuan merancang, melaksanakan, dan mengevaluasi penelitian berbasis metode ilmiah yang mendalam dalam bidang teknik mesin, baik secara teoritis maupun eksperimental. Memiliki kemampuan komunikasi, memimpin dan mengelola tim teknis maupun lintas disiplin dalam perencanaan, implementasi, dan evaluasi proyek-proyek teknik mesin dengan prinsip keberlanjutan, keselamatan, dan efisiensi energi. Menunjukkan integritas, etika profesional, dan kepemimpinan visioner dalam menjawab tantangan rekayasa teknik di tingkat nasional dan global. 	<p>I. GRADUATE PROFILE</p> <p>Graduates of the Master's Program in Mechanical Engineering at Universitas Pancasila are expected to demonstrate the following profiles:</p> <ol style="list-style-type: none"> Demonstrate the ability to advance the current knowledge and technologies in the field of Mechanical Engineering — particularly in Energy Conversion Engineering or Manufacturing & Materials Engineering—through creative and original ideas supported by systematic and tested research activities. Demonstrate the ability to design, conduct, and evaluate in-depth scientific research in the field of Mechanical Engineering, both theoretical and experimental. Demonstrate effective communication, leadership, and management skills in leading technical and cross-disciplinary teams for planning, implementing, and evaluating mechanical engineering projects, with the emphasis on sustainability, safety, and energy efficiency. Demonstrate integrity, professional ethics, and visionary leadership in addressing engineering challenges at both national and global levels.
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<p>A. SIKAP Lulusan Program Studi Teknik Mesin S2 Universitas Pancasila memiliki sikap, sebagai berikut:</p> <p>CPL01. Membentuk insan yang beriman, bertakwa, berakhlak mulia dan berkarakter sesuai dengan nilai-nilai Pancasila, serta menjunjung tinggi norma dan etika akademik.</p> <p>CPL02. Memiliki kemampuan berkomunikasi secara efektif baik lisan, tulisan dan media visual, bekerja sama dalam tim, dan berinovasi, serta mampu beradaptasi dalam lingkungan pekerjaan dan masyarakat agar mampu bersaing secara global.</p> <p>B. PENGUASAAN PENGETAHUAN Lulusan Program Studi Teknik Mesin S2 Universitas Pancasila memiliki penguasaan pengetahuan, sebagai berikut:</p> <p>CPL03. Menguasai teori sains rekayasa pada bidang rekayasa sistem terintegrasi, serta konsep teoritis dan metode perancangan sistem rekayasa industri secara mendalam.</p>	<p>A. ATTITUDE Graduates of the Master's Program in Mechanical Engineering at Universitas Pancasila are expected to demonstrate the following attitudes:</p> <p>LO1. To develop individuals who are faithful, pious, possess noble characters, embody the values of Pancasila, and uphold academic norms and ethics.</p> <p>LO2. Demonstrate the ability to communicate effectively through oral, written, and visual media; work collaboratively in teams; innovate; and adapt within professional and societal environments to compete globally.</p> <p>B. KNOWLEDGE MASTERY Graduates of the Master's Program in Mechanical Engineering at Universitas Pancasila are expected to master knowledge in the following areas:</p> <p>LO3. Master the theoretical concepts of engineering science in the field of integrated systems engineering, as well as in-depth theoretical concept and methods of industrial engineering system.</p>
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<p>CPL04. Menguasai teori sistem dan aplikasi matematika optimasi terkini.</p> <p>C. KETERAMPILAN UMUM Lulusan Program Studi Teknik Mesin S2 Universitas Pancasila memiliki keterampilan umum, sebagai berikut:</p> <p>CPL05. Mampu melakukan pendalaman atau perluasan keilmuan di bidang perancangan, pengoperasian dan perbaikan sistem terintegrasi untuk memberikan kontribusi original dan teruji melalui riset dengan pendekatan interdisiplin dan multidisiplin.</p> <p>CPL06. Mampu mengkritisi dan memberikan masukan perbaikan dari sudut pandang rekayasa sistem terintegrasi terhadap kebijakan penyelesaian masalah sistem industri yang telah dan/atau sedang diterapkan, dan dituangkan dalam bentuk kertas kerja ilmiah.</p> <p>D. KETERAMPILAN KHUSUS Lulusan Program Studi Teknik Mesin S2 Universitas Pancasila memiliki keterampilan khusus, sebagai berikut:</p>	<p>LO4. Master system theories and the application of current optimization mathematics.</p> <p>C. GENERAL SKILLS Graduates of the Master's Program in Mechanical Engineering at Universitas Pancasila are expected to demonstrate the following general skills:</p> <p>LO5. Demonstrate the ability to deepen or broaden expertise in the design, operation, and improvement of integrated systems as well as to contribute original and tested insights through research using interdisciplinary and multidisciplinary approaches.</p> <p>LO6. Demonstrate the ability to criticize and provide input for improvements from an integrated systems engineering perspective regarding industrial system problem-solving policies that have been and/or are being implemented, and present it in the form of scientific working papers.</p> <p>D. SPECIFIC SKILLS Graduates of the Master's Program in Mechanical Engineering at Universitas Pancasila are expected to demonstrate the following specific skills:</p>
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<p>CPL07. Mampu menyelesaikan masalah rekayasa industri dan perancangan sistem terintegrasi dengan memanfaatkan bidang ilmu lain secara interdisiplin dan multidisiplin, serta dengan memperhatikan faktor-faktor ekonomi, kesehatan dan keselamatan publik, kultural, sosial dan kelestarian lingkungan.</p> <p>CPL08. Mampu memformulasikan ide-ide baru dari hasil riset yang dilaksanakan untuk pengembangan teknologi perancangan, pengoperasian, perbaikan dan instalasi sistem terintegrasi.</p>	<p>LO7. Able to solve industrial engineering and integrated system design problems using interdisciplinary and multidisciplinary approaches, taking into account economic, public health and safety, cultural, social, and environmental sustainability aspects.</p> <p>LO8. Able to formulate new ideas based on research outcomes to support the development of technologies for the design, operation, improvement, and installation of integrated systems</p>
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Disetujui/Approved

Jakarta, 23 Juli 2025/Jakarta, July 23 2025

Dibuat/Prepared

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