



UNIVERSITAS PANCASILA  
PROFILE OF THE GRADUATE AND LEARNING OUTCOMES

Fakultas : Teknik	Faculty : Engineering
Program Studi : Magister Rekayasa Infrastruktur dan Lingkungan	Study Program : Infrastructure and Environmental Engineering
Jenjang : Magister	Study Level : Master's Degree

**I. PROFIL LULUSAN**

Lulusan Program Studi Magister Rekayasa Infrastruktur dan Lingkungan (MRIL) FTUP memiliki Profil Lulusan sebagai berikut:

1. Menguasai teori dan metode dalam mengidentifikasi dan menganalisis masalah, serta merumuskan dan mengembangkan alternatif solusi masalah (*problem solving*) infrastruktur kota dan wilayah berupa isu urbanisasi, kebencanaan, lingkungan global, dan tantangan pembangunan berkelanjutan dengan berlandaskan nilai-nilai luhur Pancasila.
2. Memiliki kemampuan merencanakan konsep pengembangan kawasan tematik secara cerdas dan inovatif dengan pendekatan pembangunan berkelanjutan.
3. Memiliki kemampuan menerapkan IPTEK dalam bidang RIL secara cerdas, kreatif dan inovatif, menjawab tantangan dan tuntutan era digital dan pembangunan berkelanjutan
4. memiliki kemampuan manajemen, pengambilan keputusan, perumusan kebijakan (*policy*), merumuskan pembiayaan infrastruktur secara inovatif dan kolaboratif antar pemangku kepentingan (stakeholders) dalam bidang RIL dalam era global untuk mewujudkan tujuan pembangunan berkelanjutan.

**I. GRADUATE PROFILE**

Graduates of The Master Program in Infrastructure and Environmental Engineering, Faculty of Engineering, Universitas Pancasila are expected to have the following profiles:

1. Demonstrate mastery of theories and methods for identifying and analyzing problems, as well as formulating and developing alternative solutions (*problem-solving*) for urban and regional infrastructure issues, including urbanization, disasters, global environmental concerns, and sustainable development challenges, based on the noble values of Pancasila.
2. Demonstrate the ability to plan thematic area development concepts intelligently and innovatively using a sustainable development approach.
3. Demonstrate the capability to apply science and technology in the field of Infrastructure and Environmental Engineering (RIL) in an intelligent, creative, and innovative manner to address challenges and demands in the digital era and sustainable development.
4. Demonstrate management skills, decision-making abilities, policy formulation expertise, and the capability to develop innovative and collaborative infrastructure financing among stakeholders in the field of RIL in the global era to achieve sustainable development goals.



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<p><b>II. CAPAIAN PEMBELAJARAN</b></p> <p><b>A. Sikap</b></p> <p>Lulusan Program Studi Magister Rekayasa Infrastruktur dan Lingkungan (MRIL) FTUP memiliki Sikap sebagai berikut: (mengacu pada SK Rektor No. 2734/KEP.R/UP/VI/2024)</p> <ol style="list-style-type: none"> <li>1. Membentuk insan yang beriman, bertakwa, berakhlak mulia, dan berkarakter sesuai dengan nilai-nilai Pancasila, serta menjunjung tinggi norma dan etika akademik.</li> </ol> <p><b>B. Penguasaan Pengetahuan</b></p> <p>Lulusan Program Studi Lulusan Program Studi Magister Rekayasa Infrastruktur dan Lingkungan (MRIL) FTUP memiliki Penguasaan Pengetahuan sebagai berikut:</p> <ol style="list-style-type: none"> <li>1. Mampu menerapkan pengetahuan metode penelitian dalam penyelesaian masalah pada kasus rekayasa infrastruktur dan lingkungan</li> <li>2. Menguasai pengetahuan dan teknologi dibidang rekayasa infrastruktur kota dan wilayah dengan pendekatan interdisiplin dan multidisiplin secara cerdas, kreatif dan inovatif</li> <li>3. Menguasai pengetahuan dan teknologi dalam pengembangan kawasan tematik dan kota cerdas dengan pendekatan pembangunan berkelanjutan (SDG)</li> </ol>	<p><b>II. LEARNING OUTCOMES</b></p> <p><b>A. Attitude</b></p> <p>Graduates of The Master Program in Infrastructure and Environmental Engineering, Faculty of Engineering, Universitas Pancasila are expected to demonstrate the following attitudes: (referring to Rector's Decree No. 2734/KEP.R/UP/VI/2024)</p> <ol style="list-style-type: none"> <li>1. To develop individuals who are faithful, pious, possess noble characters, embody the values of Pancasila, and uphold academic norms and ethics.</li> </ol> <p><b>B. Knowledge Mastery</b></p> <p>Graduates of the Master's Program in Infrastructure and Environmental Engineering, Universitas Pancasila, are expected to have the following knowledges:</p> <ol style="list-style-type: none"> <li>1. Master the application of research methods in solving problems related to infrastructure and environmental engineering cases.</li> <li>2. Master knowledge and technology in urban and regional infrastructure engineering through interdisciplinary and multidisciplinary approaches in an intelligent, creative, and innovative manner.</li> <li>3. Master knowledge and technology in developing thematic areas and smart cities through a sustainable development (SDG) approach.</li> </ol>
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<b>Fakultas</b> : Teknik <b>Program Studi</b> : Magister Rekayasa <span style="padding-left: 100px;">Infrastruktur dan Lingkungan</span> <b>Jenjang</b> : Magister	<b>Faculty</b> : Engineering <b>Study Program</b> : Infrastructure and <span style="padding-left: 100px;">Environmental Engineering</span> <b>Study Level</b> : Master's Degree
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<p>4. Menguasai pengetahuan dan teknologi dalam bidang infrastruktur cerdas berbasis teknologi informasi menjawab tantangan dan tuntutan era digital dan pembangunan berkelanjutan (SDG)</p> <p>5. Menguasai pengetahuan dibidang manajemen dan pembiayaan infrastruktur secara cerdas, inovatif dan berkelanjutan dengan pendekatan interdisiplin dan multidisiplin</p> <p><b>C. Keterampilan Umum</b></p> <p>Lulusan Program Studi <b>Magister Rekayasa Infrastruktur dan Lingkungan (MRIL) FTUP</b> memiliki Keterampilan Umum sebagai berikut: (mengacu pada SK Rektor No. 2734/KEP.R/UP/VI/2024)</p> <ol style="list-style-type: none"> <li>1. Kemampuan dalam bertanggung jawab dan menunjukkan kinerja yang bermutu dan terukur untuk melakukan evaluasi diri secara mandiri dan/atau berkelompok.</li> <li>2. Menguasai kemampuan berkomunikasi secara efektif baik lisan maupun tulisan, bekerja sama dalam tim, dan berinovasi, serta mampu beradaptasi dalam lingkungan pekerjaan dan masyarakat</li> <li>3. Mampu mengembangkan pemikiran logis, kritis, sistematis, dan kreatif dalam penerapan teknologi atau seni sesuai bidang keahliannya dengan menghasilkan prototipe, karya desain, produk seni, atau inovasi teknologi bernilai tambah,</li> </ol>	<p>4. Master knowledge and technology in intelligent infrastructure based on information technology to address the challenges and demands of the digital era and sustainable development (SDG).</p> <p>5. Master knowledge in infrastructure management and financing in an intelligent, innovative, and sustainable manner through interdisciplinary and multidisciplinary approaches.</p> <p><b>C. General Skill</b></p> <p>Graduates of the Master's Program in Infrastructure and Environmental Engineering, Universitas Pancasila, are expected to have these following general skills: (referring to Rector's Decree No. 2734/KEP.R/UP/VI/2024)</p> <ol style="list-style-type: none"> <li>1. Demonstrate the ability to take responsibility and show high-quality, measurable performance in conducting self-evaluations independently and/or collaboratively.</li> <li>2. Demonstrate mastery of effective communication skills—both oral and written—teamwork, innovation, and adaptability in professional and social environments.</li> <li>3. Demonstrate the ability to develop logical, critical, systematic, and creative thinking in applying technology or art according to their field of expertise by producing prototypes, design works, artistic products, or value-added</li> </ol>
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menyusun konsepsi ilmiah karyanya berdasarkan kaidah, tata cara, dan etika ilmiah dalam bentuk tesis dan mempublikasikan tulisan dalam jurnal keilmuan atau keahlian terakreditasi

**D. Keterampilan Khusus**

Lulusan Program Studi Magister Rekayasa Infrastruktur dan Lingkungan (MRIL) FTUP memiliki Keterampilan Khusus sebagai berikut:

1. Mampu menyelesaikan masalah infrastruktur kota dan wilayah berupa ancaman kebencanaan dan perubahan iklim serta penurunan kualitas lingkungan melalui analisis dan rekayasa infrastruktur dan lingkungan secara kritis (*critical thinking*) dan komprehensif dengan pendekatan interdisiplin dan multidisiplin secara cerdas, kreatif dan inovatif
2. Mampu mendesain model pengembangan kawasan tematik dan kota cerdas dengan pendekatan pembangunan berkelanjutan (SDG)
3. Mampu mendesain konsep dan model infrastruktur cerdas berbasis teknologi informasi menjawab tantangan dan tuntutan era digital dan pembangunan berkelanjutan (SDG)
4. Mampu menyelesaikan masalah dan mengembangkan konsep manajemen dan pembiayaan pembangunan

technological innovations; formulating the scientific conception of their work based on scientific principles, procedures, and ethics in the form of a thesis; and publishing their writings in accredited scientific or professional journals.

**D. Specific Industrial Engineering Skills**

Graduates of The Master's Program in Infrastructure and Environmental Engineering, Universitas Pancasila are expected to have these specific skills:

1. Able to solve urban and regional infrastructure problems related to disaster risks, climate change, and environmental degradation through critical and comprehensive infrastructure and environmental engineering analysis, using an interdisciplinary and multidisciplinary approach in an intelligent, creative, and innovative manner.
2. Able to design models for the development of thematic areas and smart cities by applying a sustainable development (SDG) approach.
3. Able to design concepts and models of smart infrastructure based on information technology to address the challenges and demands of the digital era and sustainable development (SDG).
4. Able to solve problems and develop concepts for the management and



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infrastruktur kota dan wilayah secara kolaboratif, inovatif dan terpadu	financing of urban and regional infrastructure development in a collaborative, innovative, and integrative manner.
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Jakarta, 23 Juli 2025 / Jakarta, July 23 2025

Disetujui/Approved by

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Dekan/Dean

Dibuat/Prepared by

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