



**LIST OF COURSES OFFERED TO INTERNATIONAL STUDENTS  
NON-DEGREE PROGRAM  
ODD SEMESTER, ACADEMIC YEAR 2026/2027  
Faculty of Engineering - Universitas Indonesia**

**Course Name:** Basic Chemistry

**Course Code:** ENEV601001

**Course Credits:** 3 Credits

Degree	Bachelor Program
Department/Study Program	Environmental Engineering
Type of Class	International
Language of Instruction	English
Lecturer Name	Team Lecturers
Course Structure	Lecture
Course Overview	Study of fundamental chemical concepts and principles relevant to environmental engineering and laboratory applications.
Course Key Words	Atomic structure; chemical bonding; stoichiometry; acids and bases; equilibrium; environmental chemistry
Academic Goal	Develop foundational chemistry competencies for interpreting and solving environmental engineering problems, including quantitative analysis of reactions and solution chemistry.
Course Schedule	Week 1: Introduction to chemistry for environmental engineering; safety and measurement Week 2: Atomic structure and periodicity Week 3: Chemical bonding and molecular structure Week 4: Stoichiometry and reaction equations Week 5: Aqueous solutions and concentration units Week 6: Acids, bases, and pH calculations Week 7: Chemical equilibrium and solubility Week 8: Midterm Examination Week 9: Thermochemistry and energetics Week 10: Chemical kinetics and rate laws Week 11: Redox reactions and electrochemistry Week 12: Chemistry of natural waters Week 13: Chemistry of air and atmospheric reactions Week 14: Chemistry applications in pollution control Week 15: Final Examination

Textbooks, References, and Supplementary Materials	Chang, R. (2010). Chemistry. McGraw-Hill. Brown & Holme, Chemistry for Engineering Students (2nd ed.). Handouts and materials given on or before the lectures.
Grading Component	Individual assignment: 15% Midterm Exam: 30% Written practicum report: 20% Practicum participation: 5% Practicum pre-test: 5% Final exam: 25%
Other (i.e. Expectations on Classroom Conduct and Decorum etc.)	Students are expected to: Attend all classes regularly and on time. Participate actively in discussions and learning activities. Maintain respectful behavior toward instructors and peers. Avoid any form of academic dishonesty (e.g., plagiarism, cheating).



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Course Name: Environmental Biology

Course Code: ENEV601002

Course Credits: 2

Degree	Bachelor Program
Department/Study Program	Environmental Engineering
Type of Class	International
Language of Instruction	English
Lecturer Name	Team Lecturers
Course Structure	Lecture
Course Overview	Introduction to ecological systems, biodiversity, and biological foundations supporting environmental pollution control and resource management.
Course Key Words	Ecosystems; biodiversity; microorganisms; biogeochemical cycles; environmental health
Academic Goal	Provide biological literacy necessary for analyzing environmental processes and selecting biologically based mitigation approaches.
Course Schedule	<p>Week 1: Introduction to environmental biology and ecology</p> <p>Week 2: Cell biology and metabolism fundamentals</p> <p>Week 3: Microorganisms and environmental functions</p> <p>Week 4: Ecosystem structure and energy flow</p> <p>Week 5: Biodiversity and conservation principles</p> <p>Week 6: Biogeochemical cycles and nutrient dynamics</p> <p>Week 7: Population and community ecology</p> <p>Week 8: Midterm Examination</p> <p>Week 9: Environmental microbiology in water and soil</p> <p>Week 10: Pathogens and public health relevance</p> <p>Week 11: Biological indicators and bioassessment</p> <p>Week 12: Bioremediation concepts</p> <p>Week 13: Ecotoxicology fundamentals</p> <p>Week 14: Case studies and presentations</p> <p>Week 15: Final Examination</p>
Textbooks, References, and Supplementary Materials	Withgott, J., & Laposata, M. Essential Environment. Selected journal articles and handouts.

	Handouts and materials given on or before the lectures.
Grading Component	Post-test quiz: 20% Group assignment (report): 10% Group presentation: 10% Midterm exam: 30% Final exam: 30%
Other (i.e. Expectations on Classroom Conduct and Decorum etc.)	Students are expected to: Attend all classes regularly and on time. Participate actively in discussions and learning activities. Maintain respectful behavior toward instructors and peers. Avoid any form of academic dishonesty (e.g., plagiarism, cheating).



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**Course Name: Earth Science**

**Course Code: ENCV601003**

**Course Credits: 2 Credits**

Degree	Bachelor Program
Department/Study Program	Environmental Engineering
Type of Class	International
Language of Instruction	English
Lecturer Name	Team Lecturers
Course Structure	Lecture
Course Overview	Fundamentals of earth systems and their relationship to infrastructure development, environmental change, and disaster resilience.
Course Key Words	Lithosphere; atmosphere; hydrosphere; climate; hazards; resilience; sustainability
Academic Goal	Enable students to evaluate interactions between infrastructure and earth systems, including climate and geohazard considerations in sustainable engineering planning.
Course Schedule	<p>Week 1: Earth System Overview and Earth Materials</p> <p>Week 2: Lithosphere and Plate Tectonics</p> <p>Week 3: Earthquakes and Seismic Risk</p> <p>Week 4: Volcanism and Related Hazards</p> <p>Week 5: Weathering, Erosion, and Sediment Transport</p> <p>Week 6: Hydrosphere and the Hydrologic Cycle</p> <p>Week 7: Atmosphere, Weather, and Climate</p> <p>Week 8: Midterm Examination</p> <p>Week 9: Coastal Processes and Shoreline Change</p> <p>Week 10: Groundwater Systems and Subsidence</p> <p>Week 11: Climate Change and Infrastructure Risk</p> <p>Week 12: Disaster Risk Reduction Frameworks</p> <p>Week 13: Case Studies and Regional Examples</p> <p>Week 14: Review and Integration</p> <p>Week 15: Final Examination</p>

Textbooks, References, and Supplementary Materials	Grotzinger and Jordan, Understanding Earth, 7th edition. Selected peer-reviewed articles and instructor handouts. Handouts and materials will be provided during lectures.
Grading Component	Midterm Exam: 20% Final Exam: 35% Assignments/Projects: 45%
Other (i.e. Expectations on Classroom Conduct and Decorum etc.)	Students are expected to attend all classes regularly and on time. Participate actively in discussions and learning activities. Maintain respectful behavior toward instructors and peers. Avoid any form of academic dishonesty (e.g., plagiarism, cheating).



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**Course Name: Construction Drawing for Environmental Engineer**

**Course Code: ENEV602001**

**Course Credits: 2 Credits**

Degree	Bachelor Program
Department/Study Program	Environmental Engineering Study Program
Type of Class	International
Language of Instruction	English
Lecturer Name	Team Lecturers
Course Structure	Lecture
Course Overview	<p>This course learns the basics of technical drawings, including the functions and principles of construction drawings, with a focus on environmental engineering buildings both manually and using CAD software. The learning process is conducted through a combination of online and offline methods. Online learning is carried out both synchronously and asynchronously to facilitate interactive discussions between the facilitator (lecturer) and students. At the end of lecture sessions, drawing assignments are given to assess students' understanding, followed by asynchronous feedback to provide ample space and time for students to reflect. Additionally, offline learning involves providing instructional material followed by in-class drawing activities. Students are then required to complete the drawings started in class. This approach allows students to interact directly with the lecturer or teaching assistants if they encounter issues in the construction drawing process. The language used in teaching and learning activities is Indonesian.</p>
Course Key Words	scope; civil; construction; design; types; drawings; manual; drawing
Academic Goal	<p>Upon completion of this course, students will be able to Students can create construction drawings using Computer-Assisted Design (CAD) software; Students can explain various functions and principles of construction drawings and apply them in construction drawings for environmental engineering buildings.</p>

<p>Course Schedule</p>	<p>Week 1: Scope of Civil Engineering and Environmental Engineering Construction, Design process</p> <p>Week 2: Types of construction drawings</p> <p>Week 3: Manual drawing equipment</p> <p>Week 4: Drawing header and title blocks</p> <p>Week 5: Line types, dimensioning, and lettering</p> <p>Week 6: Drawing scale and geometric construction</p> <p>Week 7: Projection and multi-view drawing, Material notation, Plans and views</p> <p>Week 8: Midterm Examination</p> <p>Week 9: Sections and details</p> <p>Week 10: Floor plan, foundation, tie beam, columns, walls</p> <p>Week 11: Beam, slab, roof, door, window drawings</p> <p>Week 12: Healthy house concept</p> <p>Week 13: Household sanitation infrastructure drawings: septic tank, bore well, absorption</p> <p>Week 14: Piping network drawings, water treatment units, and wastewater and Water treatment unit drawings and Basic CAD software commands</p> <p>Week 15: Final Examination</p>
<p>Textbooks, References, and Supplementary Materials</p>	<p>Rathnam, K. 2017. A First Course in Engineering Drawing. Springer Nature Singapore Pte Ltd</p> <p>ISO 1101, Technical Drawings, International Organization for Standardization.</p> <p>Guide to preparing technical drawings, PU</p> <p>Lecture handouts and supplementary materials will be provided before or during class sessions.</p>
<p>Grading Component</p>	<p>Engineering drawing assignment: 35%</p> <p>Presentation: 15%</p> <p>Midterm exam: 25%</p> <p>Final exam: 25%</p>
<p>Other (i.e. Expectations on Classroom Conduct and Decorum etc.)</p>	<p>Students are expected to attend all classes regularly and on time.</p> <p>Active participation in discussions and problem-solving sessions is required.</p> <p>Respectful academic conduct toward instructors and peers must be maintained.</p> <p>All submitted work must comply with academic integrity policies.</p>



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**Course Name: Environmental Engineering Material Properties**

**Course Code: ENEV604005**

**Course Credits: 2 Credits**

Degree	Bachelor Program
Department/Study Program	Environmental Engineering Study Program
Type of Class	International
Language of Instruction	English
Lecturer Name	Team Lecturers
Course Structure	Lecture
Course Overview	The Property of Material Environmental Engineering course discusses the properties of the material in Environmental Engineering
Course Key Words	materials; buildings; material; response; loads; melting; fracture; aggregates
Academic Goal	Upon completion of this course, students will be able to explain the properties of materials to support material selection in the design of Environmental Engineering buildings.
Course Schedule	<p>Week 1: Introduction to Materials for Environmental Engineering Buildings</p> <p>Week 2: Material response to loads, melting, and fracture, Aggregates</p> <p>Week 3: Portland Cement and Admixtures</p> <p>Week 4: Portland Cement Concrete, Wood and Bamboo</p> <p>Week 5: Sustainability of Materials</p> <p>Week 6: Introduction to Engineering Materials</p> <p>Week 7: Properties, Applications, and Processing of Metallic Materials (Ferrous)</p> <p>Week 8: Midterm Examination</p> <p>Week 9: Properties, Applications, and Processing of Metallic Materials (Non-Ferrous)</p> <p>Week 10: Properties, Applications, and Processing of Polymer Materials (Thermoplastics)</p> <p>Week 11: Properties, Applications, and Processing of Polymer Materials (Elastomers, Thermosets)</p> <p>Week 12: Properties, Applications, and Processing of Polymer Materials</p>

	<p>(Ceramics)</p> <p>Week 13: Properties, Applications, and Processing of Polymer Materials (Composites)</p> <p>Week 14: Applied examples and problem-solving workshop</p> <p>Week 15: Final Examination</p>
<p>Textbooks, References, and Supplementary Materials</p>	<p>Robert D Kerbs, Richard D Walker, (1971) Highway Materials, Mc Graw-Hill</p> <p>S. Young, Sidney, (1998) The Science and Technology of Civil Engineering Materials, Prentice-Hall International Inc.</p> <p>Shan Somayaji, (2001), Civil Engineering Materials, Prentice Hall.</p> <p>A.M Neville, (2011), Properties of Concrete 5th edition, Pearson.</p> <p>Peter A. Claisse, (2016), Civil Engineering Materials, Elsevier.</p> <p>Bondan T. Sofyan (2022), Pengantar Material Teknik</p> <p>William Callister (2020), Fundamentals of Materials Science and Engineering</p> <p>Lecture handouts and supplementary materials will be provided before or during class sessions.</p>
<p>Grading Component</p>	<p>Video/presentation tasks: 20%</p> <p>Quizzes: 20%</p> <p>Midterm exam: 30%</p> <p>Final exam: 30%</p>
<p>Other (i.e. Expectations on Classroom Conduct and Decorum etc.)</p>	<p>Students are expected to attend all classes regularly and on time.</p> <p>Active participation in discussions and problem-solving sessions is required.</p> <p>Respectful academic conduct toward instructors and peers must be maintained.</p> <p>All submitted work must comply with academic integrity policies.</p>



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**Course Name: Engineering Economics**

**Course Code: ENCV603004**

**Course Credits: 3 Credits**

Degree	Bachelor Program
Department/Study Program	Environmental Engineering Study Program
Type of Class	International
Language of Instruction	English
Lecturer Name	Team Lecturers
Course Structure	Lecture
Course Overview	<p>During this course, students will gain knowledge, understanding, and basic skills in assessing the feasibility of investments in technical projects. Students will learn to make optimal decisions among several alternatives using engineering economic approaches. By the end of the course, students will be able to analyze the economic and financial feasibility of engineering-related decision-making practices. This course is delivered in Indonesian (Regular &amp; Parallel Programs) and English (KKI Program). The learning in this course is conducted through synchronous modes (in-class or online media) and/or asynchronous (EMAS).</p>
Course Key Words	economics; time; value; money; combining; factors; interest; rates
Academic Goal	<p>Upon completion of this course, students will be able to Students can calculate the equivalence of the time value of money and the impact of interest in engineering economic calculations (C3); Students can complete cash flows comprehensively, accounting for depreciation, inflation, and taxes (C3); Students can make decisions regarding optimal alternatives when faced with several options based on engineering economic decision-making concepts and techniques (C4).</p>

<p>Course Schedule</p>	<p>Week 1: Introduction to Engineering Economics  Week 2: Time Value of Money, Combining Factors, Interest Rates  Week 3: Money Worth Analysis  Week 4: Rate of Return Analysis  Week 5: Effects of Inflation  Week 6: Benefit/Cost Analysis and Break-Even Point Analysis  Week 7: Sensitivity Analysis, Depreciation, Tax Analysis  Week 8: Midterm Examination  Week 9: Cost Estimation and Allocation  Week 10: Capital Budgeting &amp; Replacement Analysis  Week 11: Applied examples and problem-solving workshop  Week 12: Applied examples and problem-solving workshop  Week 13: Applied examples and problem-solving workshop  Week 14: Applied examples and problem-solving workshop  Week 15: Final Examination</p>
<p>Textbooks, References, and Supplementary Materials</p>	<p>Blank, Leland and Tarquin, Anthony. 2018. Engineering Economy 8th Ed. McGraw Hill.  Park, Chan S. 2016. Contemporary Engineering Economics 6th Ed. Pearson. Upper Saddle River.  White, Case and Pratt. 2012. Principles of Engineering Economic Analysis 6th ed. John Wiley and Sons.  Lecture handouts and supplementary materials will be provided before or during class sessions.</p>
<p>Grading Component</p>	<p>Assignments/projects or quizzes: 65%  Midterm and final exam: 35%</p>
<p>Other  (i.e. Expectations on Classroom Conduct and Decorum etc.)</p>	<p>Students are expected to attend all classes regularly and on time.  Active participation in discussions and problem-solving sessions is required.  Respectful academic conduct toward instructors and peers must be maintained.  All submitted work must comply with academic integrity policies.</p>



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**Course Name: Environmental Management System**

**Course Code: ENEV606004**

**Course Credits: 3**

Degree	Bachelor Program
Department/Study Program	Environmental Engineering
Type of Class	International
Language of Instruction	English
Lecturer Name	Team Lecturers
Course Structure	Lecture
Course Overview	Environmental impact assessment, environmental management systems, and sustainability evaluation frameworks including ISO 14001 and lifecycle thinking.
Course Key Words	EIA; AMDAL; ISO 14001; PDCA; environmental auditing; LCA
Academic Goal	Enable students to plan and evaluate environmental management strategies in organizations and projects using recognized standards and assessment tools.
Course Schedule	<p>Week 1: Environmental governance and management concepts</p> <p>Week 2: Environmental regulations and permitting overview</p> <p>Week 3: EIA and AMDAL framework and steps</p> <p>Week 4: Impact identification and scoping methods</p> <p>Week 5: Impact prediction and significance evaluation</p> <p>Week 6: Mitigation, monitoring, and EMP</p> <p>Week 7: ISO 14001 structure and requirements</p> <p>Week 8: Midterm Examination</p> <p>Week 9: PDCA cycle and implementation planning</p> <p>Week 10: Environmental auditing and compliance evaluation</p> <p>Week 11: Performance indicators and reporting</p> <p>Week 12: Lifecycle thinking and LCA fundamentals</p> <p>Week 13: Sustainability assessment and decision support</p> <p>Week 14: Case studies and presentations</p> <p>Week 15: Final Examination</p>

Textbooks, References, and Supplementary Materials	ISO 14001:2015. Government Regulation No. 22/2021 (Indonesia). Selected textbooks and handouts. Handouts and materials given on or before the lectures.
Grading Component	Design assignment: 25% Reports: 16% Quiz: 8% Presentation: 5% Midterm exam: 31% Final exam: 15%
Other (i.e. Expectations on Classroom Conduct and Decorum etc.)	Students are expected to: Attend all classes regularly and on time. Participate actively in discussions and learning activities. Maintain respectful behavior toward instructors and peers. Avoid any form of academic dishonesty (e.g., plagiarism, cheating).



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**Course Name: Writing and Presentation Techniques**

**Course Code: ENEV606006**

**Course Credits: 2 Credits**

Degree	Bachelor Program
Department/Study Program	Environmental Engineering Study Program
Type of Class	International
Language of Instruction	English
Lecturer Name	Team Lecturers
Course Structure	Lecture
Course Overview	Students are required to effectively communicate using proper and ethical Indonesian language through both written and verbal means. The course covers written communication, including the writing process, essays, scientific writing, professional writing, as well as verbal communication through presentations, along with writing ethics. The language of instruction used is Bahasa Indonesia. The learning methods include interactive lectures, role-play, essay drafting simulations, essay writing, presentations, as well as mid-term and final exams. The lectures are conducted synchronously.
Course Key Words	required; effectively; communicate; proper; ethical; indonesian; language; through
Academic Goal	Upon completion of this course, students will be able to Students can optimize written and oral communication individually, in accordance with applicable norms; Students can apply ethics and take professional responsibility in processing and interpreting data, as well as in academic writing.
Course Schedule	Week 1: Students are required to effectively communicate using proper and ethical Indonesian language through both written and verbal means. The course covers written communication, including the writing process, essays, scientific writing, professional writing, as well as verbal communication through presentations, along with writing ethics. The language of instruction used is Bahasa Indonesia. The learning methods include interactive lectures, role-play, essay drafting simulations, essay writing, presentations, as well as

	<p>mid-term and final exams. The lectures are conducted synchronously</p> <p>Week 2: Applied examples and problem-solving workshop</p> <p>Week 3: Applied examples and problem-solving workshop</p> <p>Week 4: Applied examples and problem-solving workshop</p> <p>Week 5: Applied examples and problem-solving workshop</p> <p>Week 6: Applied examples and problem-solving workshop</p> <p>Week 7: Applied examples and problem-solving workshop</p> <p>Week 8: Midterm Examination</p> <p>Week 9: Applied examples and problem-solving workshop</p> <p>Week 10: Applied examples and problem-solving workshop</p> <p>Week 11: Applied examples and problem-solving workshop</p> <p>Week 12: Applied examples and problem-solving workshop</p> <p>Week 13: Applied examples and problem-solving workshop</p> <p>Week 14: Applied examples and problem-solving workshop</p> <p>Week 15: Final Examination</p>
Textbooks, References, and Supplementary Materials	<p>Indonesian Language Module MPKT B, Universitas Indonesia</p> <p>Purdue Writing Lab // Purdue OWL</p> <p>UAGC Writing Centers Home   UAGC Writing Center</p> <p>Guidelines for Final Project Writing, Universitas Indonesia</p> <p><a href="https://www.civil.ui.ac.id/en_US/pedoman-teknis-penulisan-tugas-akhir-mahasiswa-universitas-indonesia/">https://www.civil.ui.ac.id/en_US/pedoman-teknis-penulisan-tugas-akhir-mahasiswa-universitas-indonesia/</a></p> <p>Anti-plagiarism Software UI: <a href="http://otentik.ui.ac.id">otentik.ui.ac.id</a></p> <p>Lecture handouts and supplementary materials will be provided before or during class sessions.</p>
Grading Component	<p>Reports/assignments: 50%</p> <p>Midterm exam: 20%</p> <p>Final exam: 30%</p>
Other (i.e. Expectations on Classroom Conduct and Decorum etc.)	<p>Students are expected to attend all classes regularly and on time.</p> <p>Active participation in discussions and problem-solving sessions is required.</p> <p>Respectful academic conduct toward instructors and peers must be maintained.</p> <p>All submitted work must comply with academic integrity policies.</p>



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**Course Name: Thermodynamics**

**Course Code: ENEV604043**

**Course Credits: 3 Credits**

Degree	Bachelor Program
Department/Study Program	Environmental Engineering Study Program
Type of Class	International
Language of Instruction	English
Lecturer Name	Team Lecturers
Course Structure	Lecture
Course Overview	The main learning outcome of this course is that students are able to apply mathematical and scientific knowledge to solve engineering problems in general. This course covers mechanics and thermodynamics materials, with calculus and vectors used as mathematical tools in the learning process.
Course Key Words	kinetic; energy; potential; conservation; temperature; heat; first; thermodynamics
Academic Goal	Upon completion of this course, students will be able to After completing this course, students are expected to be able to apply (C3) basic concepts of mechanics and thermodynamics in understanding natural phenomena and human engineering, including their applications.
Course Schedule	<p>Week 1: Kinetic Energy</p> <p>Week 2: Potential Energy and Conservation of Energy</p> <p>Week 3: Temperature, Heat, and the First Law of Thermodynamics</p> <p>Week 4: Ideal Gas and Kinetic Theory of Gases</p> <p>Week 5: Heat Engines, Entropy, and the Second Law of Thermodynamics</p> <p>Week 6: Applied examples and problem-solving workshop</p> <p>Week 7: Applied examples and problem-solving workshop</p> <p>Week 8: Midterm Examination</p> <p>Week 9: Applied examples and problem-solving workshop</p> <p>Week 10: Applied examples and problem-solving workshop</p> <p>Week 11: Applied examples and problem-solving workshop</p> <p>Week 12: Applied examples and problem-solving workshop</p>

	<p>Week 13: Applied examples and problem-solving workshop</p> <p>Week 14: Applied examples and problem-solving workshop</p> <p>Week 15: Final Examination</p>
Textbooks, References, and Supplementary Materials	<p>Halliday, Resnick, dan Walker, Principles of Physics 10th Edition, Wiley, 2014.</p> <p>Serway Jewett, Physics for Scientists and Engineers with Modern Physics 10th Edition, Cengage Learning, 2019.</p> <p>Giancoli, Physics: Principles with Applications 7th Edition, Pearson, 2014</p> <p>Lecture handouts and supplementary materials will be provided before or during class sessions.</p>
Grading Component	<p>Midterm Exam: 35%</p> <p>Final Exam: 35%</p> <p>Assignments/Projects: 30%</p>
Other (i.e. Expectations on Classroom Conduct and Decorum etc.)	<p>Students are expected to attend all classes regularly and on time.</p> <p>Active participation in discussions and problem-solving sessions is required.</p> <p>Respectful academic conduct toward instructors and peers must be maintained.</p> <p>All submitted work must comply with academic integrity policies.</p>