

營建工程系 教育目標 Department's Objective

1. 具備專業知識及技能。
Students will possess professional knowledge and skills in the field of Construction Engineering;
2. 培養從事研發及創新之能力。
Students will have the ability of thinking innovatively and to engage in research and development;
3. 培養執行工程實務與整合協調之能力。
Students will have the abilities and skills to implement engineering practices, as well as to perform the roles as leaders or managers;
4. 具備工程倫理、社會責任、永續發展及國際視野之涵養。
Students will have the virtue of engineering ethics, social responsibility, sustainability, and global perspective.



營建工程系大學部學生核心能力 Outcomes for undergraduate studies



1. 具有運用數學、物理、化學及工程管理等知識，和自我學習之能力。
Ability to apply knowledge of mathematics, physics, chemistry, and engineering project management as well as the ability of self-learning;
2. 具有設計與執行實驗以及解讀實驗結果之能力。
Ability to design and to conduct experiments, as well as to analyze and interpret the resulting data;
3. 具有管理與執行工程實務以及使用現代化科技之能力。
Ability to use techniques and skills to manage or execute engineering projects and to efficiently use modern tools and technologies;
4. 具有設計營建工程元件及系統之能力。
Ability to design components and systems in construction engineering projects;
5. 具有溝通、協調及團隊合作之能力。
Ability to work and collaborate in a team with effective communications;
6. 具有辨識、分析、歸納及解決工程問題之能力。
Ability to identify, to analyze, to formulate, and to solve engineering problems;
7. 具有永續工程及生態環境保護之認知。
Awareness of sustainable development; a knowledge of contemporary issues; an understanding of the impact of engineering solutions in a global, economic, environmental, and societal context;
8. 具有工程法律、工程倫理、敬業精神及社會責任之素養，並能遵循之。
Understanding of relationships between engineering and the law; understanding of engineering ethics, professionalism, and social responsibilities.

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營建工程系研究所學生核心能力 Outcomes of graduate studies



1. 營建工程領域之專業知識與實務執行之能力。
Professional knowledge and an ability to execute practical engineering projects;
2. 籌劃與執行專案研究之能力。
Ability to plan and execute research projects;
3. 撰寫專業論文及工程報告之能力。
Ability to write thesis and technical reports;
4. 創新思考及獨立解決問題之能力。
Ability to innovative thinking and to solve problem independently;
5. 提升跨領域團隊合作、人際溝通及專業表達之能力。
Ability to collaborate and work in inter-disciplines teams, to conduct effective communication, and to present professionally;
6. 國際視野及外語應用之能力。
International vision and an ability to fluently use multiple languages;
7. 終身學習及自我提升之能力。
Ability to engage life-long learning and self-improvement.
8. 善盡社會責任與重視工程倫理。
A mission to fulfill one's social responsibilities and to value engineering ethics;