

## 大學部 Undergraduate

### 【教育目標 Education Goals】

1. 培養邏輯思考與數理分析能力  
Training logical thinking & analytical ability
2. 訓練系統整合所需之資訊技術  
Educating information technology for system integration
3. 培育創意思考與團隊合作之人格特質  
Cultivating innovative & teamwork characters
4. 養成理論與實務並重之工業工程與管理專業  
Developing both theory & practicality emphasized professionals
5. 深化永續發展、專業倫理及社會關懷之通識素養  
Deepening the understanding of sustainable development, professional ethics, and social care

### 【核心能力 Core Abilities】

核心能力一：畢業生具有應用數學、統計、作業研究的知識，執行實驗、分析與解釋數據的能力。

Utilize math, statistics and operations research to conduct experiment, analyze and interpret data.

核心能力二：畢業生具有計算機程式設計的思考邏輯，使用程式語言設計與執行實驗之技術，熟練電腦應用軟體，規劃、執行與分析工業工程相關課題之能力。

Develop skills on computer programming and software tools to plan and analyze related IEM courses in different industries and managements.

核心能力三：畢業生具備工業工程與管理所需之工程知識與工具，發揮設計與整合系統、元件或程序的能力。

Design and integrate software, information system, components & processes through IEM knowledge and tools.

核心能力四：畢業生具備應用工業工程與管理知識於製造、生產、運籌與服務業，發揮協同合作的能力。

Apply IEM knowledge to different manufactures, productions, logistics and service industries.

核心能力五：畢業生具備團隊合作、敬業與負責任的態度，並且具有溝通與協調能力。

Communicate & coordinate as a team with diligent and responsible attitudes.

核心能力六：畢業生具備激發創意、發掘、分析、應用研究成果且兼顧永續發展，以解決複雜整合性問題的能力。

Possess the ability to take sustainable development into account alongside stimulating creativity, discovering, analyzing, and applying research results to solve complex and integrated problems.

核心能力七：畢業生具有理解及應用專業與資訊倫理，認知社會責任及尊重多元觀點的能力。

Understand and apply professional and information ethics, recognize social responsibility, and respect diverse perspectives.

核心能力八：畢業生具有認識時事議題，瞭解工業工程技術對環境永續、社會共好及全球發展的影響。

Recognize the current issues, and understand the impact of industrial engineering technology on environmental sustainability, social common good, and global development.

核心能力九：畢業生具有持續學習的態度與精神。

Possess life-time learning attitude and spirit.