

國立金門大學

教學綱要

部別：日間部研究所碩士班

114學年度第2學期

列印日期：2026/01/21

科目名稱：新能能源技術 (New Energy Technologies) 開課班級：電機碩一 學 分：3.0 授課時數：3.0
授課教師：黃裕培 必選修：選修

1. 教學目標

This course introduces current and potential future energy technologies. An overview of renewable and conventional energy technologies will be presented, including solar energy and advanced energy technologies.

2. 教學綱要

1. To introduce current and potential future energy technologies.
2. To study the advanced energy technologies.
3. To learn fundamentals of solar energy and study the toolkits for solar energy analysis.
4. To introduce the concentration photovoltaic technologies and wireless power transmission technologies.

3. 教科書

書名：自編教材

3 出版日期：年月

作者：出版社：版本：

4. 參考書

1 書名：自編教材 出版日期：年月
作者：出版社：版本：

※請遵守智慧財產權觀念，依著作權法規定，教科書及教材不得非法影印與使用盜版軟體。

5. 教學進度表

週次	日期	內容	備註
1	2026/02/22—2026/02/28	Course introduction	
2	2026/03/01—2026/03/07	Structure of academic lectures (I)	
3	2026/03/08—2026/03/14	Structure of academic lectures (II)	
4	2026/03/15—2026/03/21	Energy lectures review and presentation (I)	
5	2026/03/22—2026/03/28	Energy lectures review and presentation (II)	
6	2026/03/29—2026/04/04	Energy lectures review and presentation (III)	
7	2026/04/05—2026/04/11	Introduction of energy review papers	
8	2026/04/12—2026/04/18	Energy review papers presentation (I)	
9	2026/04/19—2026/04/25	Energy review papers presentation (II)	
10	2026/04/26—2026/05/02	Methodologies for energy researches (I)	
11	2026/05/03—2026/05/09	Methodologies for energy researches (II)	
12	2026/05/10—2026/05/16	Simulations for energy researches (I)	
13	2026/05/17—2026/05/23	Simulations for energy researches (II)	
14	2026/05/24—2026/05/30	Proposal for final project	
15	2026/05/31—2026/06/06	Proposal for final project (I)	
16	2026/06/07—2026/06/13	Final project presentation (II)	
17	2026/06/14—2026/06/20	Flexible course (I)	

6. 成績評定及課堂要求

期中考、英文期刊閱讀(上台報告/書面報告)、期末研究專題(上台報告/書面報告)、平時作業、出缺席。 1. Participation 2. Assignments 3. Midterm exam 4. English lectures reading (Oral presentation, Reports) 5. Final project (Oral presentation, Reports)

每位同學皆需閱讀數篇「新能源技術」相關英文期刊並完成上台、書面報告。 Every student who participates in this course will be requested to review and present (oral, reports) multiple English papers which related to New Energies researches.

8. 永續發展目標(SDGs)：SDG7 可負擔的潔淨能源、SDG9 工業化、創新及基礎建設**9. 大學社會責任(USR)關聯性：中**