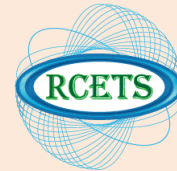


**Hosted by:**

Research Center for Energy Technology and Strategy (RCETS)
National Cheng Kung University (NCKU)

**In collaboration with these NCKU international programs:**

International Master Degree Program on Energy Engineering
International Bachelor Degree Program on Energy (IBPE)

This summer school course, which will continue on into the first 12 weeks of the Fall Semester of 2017, is a collaboration between Purdue University and NCKU. The American lecturer with support of an instructor from NCKU will present to both undergraduate and graduate students the following topics:

- Energy technology and the role of entrepreneurship/innovations in technological development and deployment
- Impacts of energy technology on society, including climate/environmental, economics/business, and food/water, and the role of policies/regulations
- Global energy strategies that will have impacts on the environment, and the role of culture, politics, and economics

The objectives of this course include increasing your global perspective, engaging in interactive/collective learning, and considering multiple viewpoints. Students from different disciplines will be able to participate in the following domains: science, engineering and technology, social sciences, and business/management.

**Lecturer from Purdue University**

Professor Pankaj Sharma

Lecturer from NCKU

Dr. Rodney H. Matsuoka

Whom is this course for?

- This 3-unit course is open to all undergraduate and graduate students of any major/field who are officially enrolled in the Fall Semester of 2017 at NCKU.
- Prerequisites: None, other than a general interest in the topic of global renewable energy strategy and policy
- **To register for this class, please visit the IBPE office in the Department of Aeronautics and Astronautics (DAA) and speak with Ms. Joy Yung. Her email address is z9609020@email.ncku.edu.tw and her phone number is +886-6-2757575 ext. 63637.**

授課對象:

- 本課程為開放給各系所大學部及研究所同學的 3 學分課程。無須先修任何課程，只要對全球再生能源策略與政策感興趣即可。
- 欲選修本課程同學必須至航太系國際能源學程辦公室報名，相關修課問題及資訊，請聯絡雍小姐，電話: 06-2757575 分機:63637、電子郵件信箱: z9609020@email.ncku.edu.tw。

Class Schedule

Part I (18 lecture hours)

		Monday (Sept. 11)	Tuesday (Sept. 12)	Wednesday (Sept. 13)	Thursday (Sept. 14)	Friday (Sept. 15)
<i>Session 1</i>	10:00–11:30 a.m.	Introduction; Course Outline; Expectations	Energy Sources (<i>Fossil</i>)	Electricity Grid	Water and Food	Nexus; Policy & Regulations and Economics & Business
	11:30 a.m.–1:30 p.m.	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
<i>Session 2</i>	1:30–3:00 p.m.	Sustainability	Energy Sources (<i>Renewables</i>)	Energy Utilization (<i>Buildings and Transportation</i>)	Environment and Climate	Case Studies (<i>BP Oil Spill, Fukushima, Hydropower</i>)

Midterm exam on Wednesday (Sept. 13) 5:00–6:30 PM

Final exam on Friday (Sept. 15) 5:00–6:30 p.m. or Saturday (Sept. 16) from 10:00–11:30 a.m.

Part II (36 lecture hours)

	Tuesday (Sept. 19)	Tuesday (Sept. 26)	Tuesday (Oct. 3)	Tuesday (Oct. 10)	Tuesday (Oct. 17)	Tuesday (Oct. 24)
3:00–6:00 p.m.	The Energy Problem & Global Warming	Energy Problem as Policy Problem	The Energy System	Holiday (no class)	Economics of the Energy System	Midterm Exam
	Tuesday (Oct. 31)	Tuesday (Nov. 7)	Tuesday (Nov. 14)	Tuesday (Nov. 21)	Tuesday (Nov. 28)	Tuesday (Dec. 5)
3:00–6:00 p.m.	Policy Instruments	Renewable Energy as Disruptive Technology & Energy Politics	Smart and Resilient Cities	Circular Economy	Conservation & Citizen Participation	Final Exam