

Guidelines for Students Enrolling in the Non-Degree Conferring Program in Solar PV and Hydrogen Energy

Approved by a meeting of the Department of Mechanical Engineering Curriculum Committee and Learning Committee on April 21, 2008

Approved by a meeting of the College of Engineering Curriculum Committee on May 6, 2008

Approved by a meeting of the University Curriculum Committee on May 29, 2008

Approved by a meeting of the Academic Affairs Committee on June 11, 2008

1. Integrating the various solar PV and hydrogen-energy-related course offerings in the Colleges of Science and Engineering and synthesizing the two branches of knowledge pertaining to the clean-energy resources of solar PV and hydrogen, this program puts student in touch with state-of-the-art energy resource technology and provides them with the training and expertise that will enable them to become the next generation of energy resource technology engineers. Aside from the professional knowledge it provides, this program places particular emphasis on innovative thinking and hands-on experience in the hope of nurturing highly-creative and dynamic professionals who can work in the interdisciplinary area of Green Technology here in Taiwan.
2. Students studying in any college or department in the University may apply for entry into this program.
3. University students who comply with these guidelines and earn the required number of credit hours (15 or above) shall have the name of the program as well as the number of credit hours earned clearly indicated on their transcript and shall also be awarded a certificate of completion.
4. The curriculum of this program is divided into compulsory core courses and elective courses as follows:

| Course Category | Course Title | Course Code | Credit Hours |
|-----------------|--|-------------|--------------|
| Required | Creativity-in-Action and Industrial Applications of Solar PV | ER6018 | 3 |
| Elective | Solar Energy Engineering | ER6008 | 3 |

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|------------------------------------|--------|---|
| Solar Photonics | OS7125 | 3 |
| Introduction to Nanophotonics | OS7133 | 3 |
| Photovoltaic Materials and Devices | MS5022 | 3 |
| Materials for Hydrogen Energy | MS5012 | 3 |
| Hydrogen Energy and Fuel Cells | ER6017 | 3 |

5. Whether courses with similar titles and content taken in other University programs can be accepted in lieu of courses offered by this program shall be left to the discretion of the Department of Civil Engineering.
6. These guidelines shall be implemented and entered into force upon approval by a meeting of the Academic Affairs Committee. The same procedure applies to any amendment of these guidelines.