

International Bachelor Degree Program on Energy

– A full-English 4-year bachelor degree program in energy engineering sector

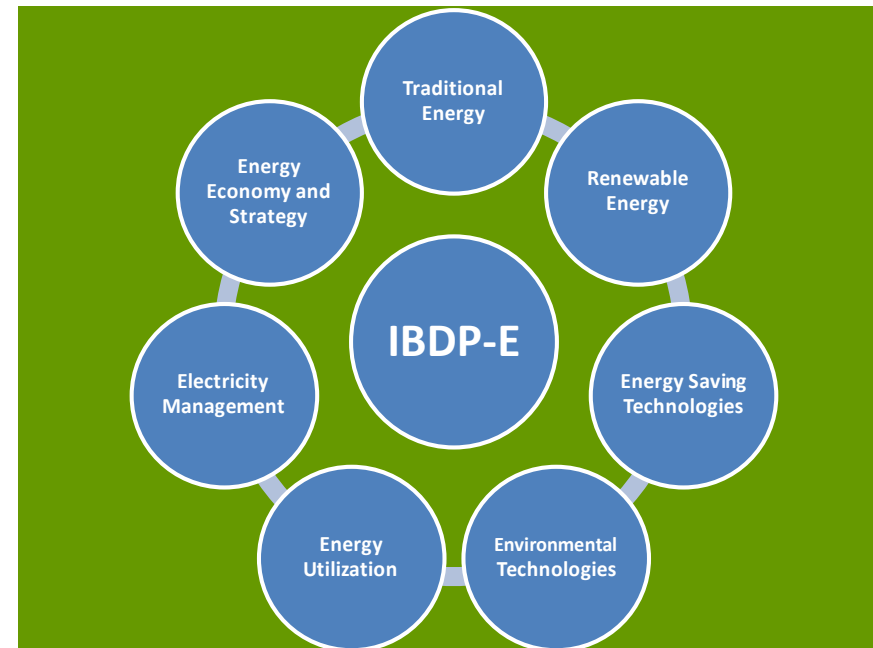


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Future Perspectives:

Graduates from the IBDPE are able to develop further study or to start a career in areas of Renewable Energy, Energy Saving Technology, Environmental Technologies, Energy Utilization, Electricity Management, Energy Economy and Strategy, and Traditional Energy.



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- Application Information for International Students:
Application Period : January 10~ April 10 annually
Online Application : <http://admissions.oia.ncku.edu.tw>
Admission Quota: 20
- Contact Information:
Contact Person: Ms. Alina Chen
TEL: +886-6-2757575 ext. 63637
Email: z10201043@email.ncku.edu.tw
Skype: ibdpencku@hotmail.com
Web: <http://ibdpe.iaa.ncku.edu.tw>
Add: Zu-Chiang Campus, No.1, University Road, Tainan City 701, Taiwan (R.O.C.)
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Education Objective of IBDPE:

The core of the curriculum aims at Energy Science and Technology, with a key aspect of Environmental Technologies. The curriculum of this Program is comprehensively co-organized by the Department of Aeronautics and Astronautics and other Departments of College of Engineering, NCKU. All courses of the IBDPE are taught in English.

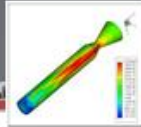





Combustion, Heat Transfer and Energy



- Micro scale combustion and power generation
- Propulsions and Rocket
- Renewable Energy: wind, solar, fuel cells
- Solar thermal (power) system
- Ultra fine metal powder production
- Turbomachinery

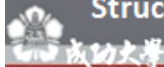


Fluid Mechanics and Aerodynamics

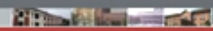


- Flow measurement, analysis and flow visualization
- Characteristic fluid : magnetic fluid
- Computational fluid dynamics
- Hypersonic flows
- Wind energy
- Wind engineering
- Medical applications

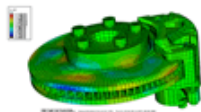


Structures and Materials



- Fracture analysis of interface corners/cracks
- Computational structural mechanics
- Structure dynamics, coupled load analysis
- Rotor dynamics
- Optimization




Squeal Noise Suppression for Disc Brake System
High Strain Rate Mechanical Response



Rolling Contact Analysis of Tire
Tire Hydroplaning Analysis
Plate Structures Subjected to Shock Wave Loading



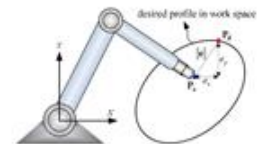
Crushing behavior Dynamics Impact Response



Guidance and Control



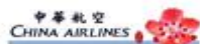
- Navigation _ GPS/INS
- Unman Aerial Vehicle:
(Air-ship, Tail sitter, Helicopter)
- Intelligent system
- Machine vision
- Robotics



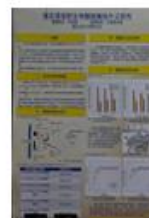


Academic-Industry Partnerships Forum

(established since July 01, 2013)



大學部學生論文競賽



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