Power and Energy, onshore and afloat

This course covers efficient power/energy systems, energy security, high energy and pulsed power in the mission-critical context of the US Navy's present and future challenges.

Course Number: 1. Power and Energy, onshore and afloat, IT 58100 (CRN: 18534)  

Course Title: Power and Energy, onshore and afloat

When: Fall 2016; 3 credit hours; Starting Monday August 22 (1:30-4:20 pm)

Where: Hall of Discovery Learning Research Center (DLR) Room #228C

More Information: www.purdue.edu/discoverypark/navystem

Description: This interdisciplinary course is aimed at junior and senior undergraduate and graduate students interested in developing an understanding of power and energy technologies and systems, energy security, high energy and pulsed power. US Navy leadership has recognized Power and Energy as a strategic imperative for the success of their operations and the Nation's future technological superiority. This course will explore topics including batteries, liquid transportation fuels, hydrogen, thermal management, power electronics, flexible electronics, cyber security of control and sensing systems from the perspective of the Navy in its onshore bases and afloat. The course comprises both lectures and Navy-relevant design projects, and includes a field trip to Naval Surface Warfare Center, Crane (Indiana).

Contact:
- Prof. Maureen McCann, Professor of Biological Sciences, Director of DOE/EFRC Center for Direct Catalytic Conversion of Biomass to Biofuel, Director of the Energy Center, Discovery Park at mmccann@purdue.edu.
- Prof. Eric Dietz, Professor of Computer and Information Technology; Director of Purdue Homeland Security at jedietz@purdue.edu.
- Dr. Pankaj Sharma, Associate Professor of Technology, Leadership and Innovation (courtesy), Managing Director, Energy Center, Discovery Park at sharma@purdue.edu
- Tony Chase, Purdue Homeland Security Institute. tonychase@purdue.edu
- Thomas Adams, Scientist, Naval Surface Warfare Center, Crane, Indiana (adams30@purdue.edu)

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