

NEW COURSE – SPRING 2012

PHYS 150 (4 Credit Hrs.)

Energy and the Environment (Gen-Ed and FLGI Designations)

Taught by Dr. Kishor T. Kapale

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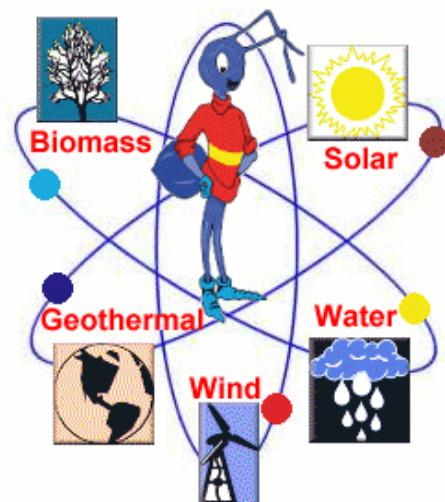


Image Credit: <http://maydaywhitstable.co.uk/renewables/>

Why should you take this class?

Whether you realize it or not, we are facing an impending energy and environmental crisis on a global scale! You may think technology is the solution, and while it certainly is part of the solution there must also be accompanying fundamental challenges.

To tackle these challenges is not only the job of policymakers but it is everyone's individual responsibility to be informed and to contribute to the global society in a meaningful manner.

This course will help you to better understand the global issues concerning energy and the environment including:

- The concepts of work, energy and power.
- How the traditional energy resources are distributed and harnessed across the globe.
- Renewable energy sources and their strengths and weaknesses.
- The geographical and political constraints on both the conventional and renewable energy resources.
- The foremost implication of energy use, namely, pollution and its global dynamic.
- The processes and the nature of environmental pollution arising due to energy consumption and its impact on the global conditions such as global warming, ozone depletion and polar ice melting.

This course will help you appreciate the challenges ahead—as an energy consumer, as an involuntary contributor to the pollution on the earth, as a future policymaker, or simply as a citizen of today's world.