

PA 5731

EMERGING SCIENCE & TECHNOLOGY POLICY, ETHICS, AND LAW

**INNOVATIONS IN EMERGING SCIENCE & TECHNOLOGY
BRING GREAT BENEFITS TO HUMAN WELFARE, BUT ALSO
NON-TRIVIAL RISKS TO PEOPLE AND THE ENVIRONMENT.**

Develop an understanding of how these trade-offs might be balanced in making policy and law, and show how risk assessment and management, markets, government intervention, and ethics are involved in doing this.

We will consider:

- If green (new) deals make sense in terms of promoting innovation;
- How intellectual property rights are used to protect innovations;
- If/how the process & products of innovation raise ethical challenges that disadvantage some.

Apply these principles to innovations including:

- Genetic Modification
- New (nano-) Materials
- Artificial Intelligence

The course will reflect the uniquely interdisciplinary nature of innovations in science and technology that require collaboration between scientists and engineers from virtually all disciplines, as well as involvement of social scientists, ethicists, lawyers & policy analysts.

Enrollment by students with a broad range of interests is encouraged. There are no science, policy or law prerequisites.

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