

Global Collaborative

on Sustainable Development towards a Green Planet



Objective

Interest in the sustainable development of measures to counter climate change has been increasing. With these policies and technical trends of emerging “green” industry as a backdrop, the Global Campus of Kyung Hee University (KHU) is proposing the implementation of an intensive program focusing on the socio-cultural policy issues and technical trends of this green industry. For this purpose, a curriculum emphasizing, as its primary objective, the creative pursuit of original and integrated ideas for our energy resources, the environment and future convergence technology. Thus, the program aims to: (1) equip students with the necessary background to become a 21st century leader, and (2) promote an understanding of a global role for human beings, their environment and the universe beyond our earth.

Program Courses

Areas

- Climate Change, Global Warming and Related INBT
- Energy & Resources Development
- Space, Environmental & Natural Sciences
- Social Sciences & Integrated Subjects

Calendar

- Application: March 15 ~ May 30, 2010
- Registration: March 15 ~ May 30, 2010
- Class: July 5 ~ July 30, 2010
- Online Application: <http://gc.khu.ac.kr>



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Extracurricular
Programs

Climate Change, Global Warming and Related INBT

International Agreements & Regulations on the Global Environment

- Overview of international agreements and protocols on environmental conservation
- Description of the principal topics on the international regulation of trade such as ISO 14000, REACH, RoHAS and HAPs control
- Exploration of contemporary issues and the feasible resolution of environmental affairs
- The IPCC process and operation

Ecosystems and Climate Change

- Overview of climate change
- Terrestrial carbon balance
- Change in plant physiology
- Nutrient cycles and soil processes
- The soil microbial community
- Wetlands and global change

Environmental Informatics and Energy System Engineering

- Overview of environmental informatics
- The theoretical framework and technical tools for environmental modeling, optimization and the problem solving
- Overview of energy systems engineering
- Process integration using pinch analysis, energy analysis and mathematical programming
- The theory and application of eco-industrial parks

Space, the Environment & Nature

From the Universe to the Earth

- The sun and solar system
- Conditions for life in the universe
- Solar activity and global warming
- General introduction to astronomy and space science
- Space weather and human life

Energy and Resources Development: Sustainable Development against the Energy Crisis

Water Quality & Resources

- Water quality and resources

Renewable Energy

- Hydrogen energy
- The integrated gasification combined cycle

Green Energy

- Bio energy

The Future and Challenges of Nuclear Energy

- Covers a broad range of nuclear applications including fission and fusion energy
- Examines technologies, economics, management, and policy issues concerning nuclear power and its fuel cycle
- Introduces methods for analyzing private and public policy alternatives in comparison with other competing energy technologies

Social Sciences & Integrated Subjects

East Asian Development and Environmental Sustainability

- East Asia's economic growth and environmental sustainability
- The environmental problems and policies of East Asian countries

Green Growth: Harmonizing Economic Development and Environmental Protection

- Ecological efficiency of the economic growth pattern
- Policy tools for green growth (sustainable infrastructure, sustainable consumption, green business)
- Comparative energy policies of OECD countries

Energy Policy for Sustainable Development

- Energy development including energy production, distribution and consumption
- The national attributes of energy policy: legislation, international treaties, incentives to investment
- Guidelines for energy conservation, taxation and other public policy techniques
- Energy crisis
- Environmental issues in environmental policy-making

* Various extra-curricular activities to interact with students from diverse countries
 * Field Trip Opportunity
 * Special lectures on the Korean Language and Culture will be also provided.