Course Syllabus

Code - Course Title	**VE1000 - Economics of Green Growth and Sustainable Development**
Course Type	VIII. SEMESTER
Laboratory + Practice	2+0
ECTS	**3.0**
Language of Instruction	İngilizce
Course Type	Area Elective Courses
Course Instructor(s)	DOÇ. DR. BİLGİN BARİ

Mode of Delivery	Virtual
Prerequisites	There are no prerequisites for this course.
Courses Recomended	Introduction to Economics I-II
Recommended Resources	Tietenberg, T. & Lewis, L. Environmental and Natural Resource Economics (Pearson)Perman, R., Ma, Y., Common, M., Maddison, D. & McGilvray, J. Natural Resource and Environmental Economics (Pearson)
Work Placement	no work placement

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Green Growth Strategies and Circular Economy • Definition and principles of green growth • Resource efficiency and renewable energy • Decoupling economic growth from environmental degradation • Circular economy models	
Week - 2		Sustainable Development Perspectives • Historical evolution of sustainability • Weak vs. strong sustainability • Intergenerational equity and environmental stewardship	
Week - 3		Climate Change and Socioeconomic Impacts • Anthropogenic climate change • Carbon budgets and ecological footprints • Economic consequences of environmental change	
Week - 4		Externalities and Market Failures • Externalities in environmental economics • Public goods and environmental services • Policy instruments for correction	
Week - 5		Ecological Economics • Limits of the economic system within ecological boundaries • Energy and material flows • Entropy and resource constraints	
Week - 6		Environmental Kuznets Curve and Development Hypotheses • Environmental Kuznets Curve (EKC) • Decoupling hypothesis • Pollution haven debate	
Week - 7		Beyond GDP Indicators • Limitations of GDP as a welfare measure • Alternative indicators (HDI, Green GDP) • Data sources and interpretation	
Week - 8		Environmental Valuation • Total economic value framework • Use and non-use values • Ethical considerations in environmental valuation	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 9		Environmental Cost-Benefit Analysis • Net present value and discounting • Intergenerational considerations • Limitations of cost-benefit analysis	
Week - 10		Carbon Pricing and Pollution Control • Marginal abatement cost • Carbon taxes and emissions trading systems • Policy effectiveness	
Week - 11		Climate Finance and Green Banking • Financial risks of climate change • Sustainable investment • Role of financial institutions in green transition	
Week - 12		International Environmental Policy • Global governance of climate issues • Role of multilateral agreements • Case studies of international cooperation	
Week - 13		European Green Deal and Trade Implications • Policy objectives of the European Green Deal • Carbon border adjustment mechanisms • Economic implications for trade	
Week - 14		Environmental Policy in Countries • National climate strategies • Energy transition • Policy recommendations	

Learning Outcomes

#	Learning Outcome
1	Explain the theoretical foundations of green growth and sustainable development.
2	Analyze the economic causes and consequences of environmental externalities.
3	Interpret environmental and economic data to evaluate policy outcomes.
4	Apply basic empirical methods to examine relationships between economic activity and environmental indicators.
5	Critically assess environmental policies such as carbon pricing and emissions trading.
6	Discuss the implications of international agreements such as the Paris Agreement for national economic strategies.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.