

St. Xavier's University, Kolkata
Faculty of Arts and Social Studies
Department of Economics
Value Added Course

Course Name: Economics of Climate Change

Course Coordinator(s): Dr. Aparajay Kumar Singh and Ms. Srijita Ghosh

Credit: 2

No. of Lecture hours: 30

Course Learning Outcome: (CO)

CO1: Understand the relation between human action, specifically fossil-fuel based industrialization, and global warming.

CO2: Comprehend the impact of global warming on climate change, economic growth and human well-being.

CO3: Explain how economics can offer public policies aimed at mitigating the effects of climate change.

Course Content:

Module No.	Module Name	Topic	No. of Lecture Hours allotted	Marks allotted	Course Learning Outcome (CLO)
1	Economics of Climate Change	Introduction to climate change; Climate models and climate change debate; Economic growth, wellbeing and sustainability: Impact, Population, Affluence and Technology (IPAT) model, ecological footprint, green GDP	15	50%	CO1, CO2, CO3
2	Carbon Pricing	Concepts and Measurement, Carbon Taxes and Carbon Markets, Economic Valuation of Environmental externalities.	15	50%	CO1, CO3,

Suggested Readings:

1. R.F. FitzRoy and E. Papyariks, (2010). An Introduction to Climate Change Economics and Policy, Earthscan publishers.
2. J.T. Hardy. (2003). Climate Change – Causes, Effects and Solutions, John Willey and Sons.
3. Atkinson G., Dieztz S. and Neumayer E. (2014). Handbook of Sustainable Development. Edward Elgar. Second Edition.
4. Stiglitz J.E., Sen A., Fitoussi J.-P. (2009). Mis-measuring our lives. Why the GPD doesn't add up. New York: The New Press
5. Blewitt, J. (2014). Understanding Sustainable Development, Second Edition. Routledge, Abingdon. ISBN: 9780415707824.
6. Dresner, S. (2008). The Principles of Sustainability, Second Edition. Earthscan, London. ISBN: 9781844074969.
7. Robertson, M. (2014). Sustainability Principles and Practice. Routledge, Abingdon. ISBN: 9780415840187.
8. Hanley N., Shogren J.F., and White B. (2013). Introduction to Environmental Economics. Oxford University Press.

CLO-PLO Mapping:

CLO/PLO	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
CO1	H					H	
CO2	H					H	
CO3	H					H	
Total	3					3	