

Outlines

DVST-915: Development and Climate Change

Introduction to the Course

This course explores the intricate relationship between development and climate change, emphasizing the need for sustainable development practices in the face of global environmental and climatic challenges. It covers the science of climate change, its impacts on natural and human systems, and the implications for development policies and practices. This course will be based on a multidisciplinary approach to examine knowledge and ground-based case studies on mitigation and adaptation strategies, climate finance, resilience aspects and the role of international cooperation in addressing climate change. This course critically assesses the challenges and opportunities that climate change presents for development.

Learning Objectives

After completing the course, students should be able to:

- Understand the scientific basis of climate change, by gaining a comprehensive understanding of the causes and consequences of climate change, including its impacts on ecosystems, water resources, agriculture, and human health.
- Analyze climate change and development interactions through the critical lens that how climate change influences development outcomes and *vice-versa* and identifying vulnerable populations and sectors.
- Evaluate mitigation and adaptation strategies, particularly in the context of sustainable development goals.
- Develop skills in climate policy analysis by analyzing climate policies, strategies, negotiations, and the role of international agreements in fostering global and local climate action.
- Apply theoretical and scientific knowledge to real-world scenarios, developing practical solutions for integrating climate change adaptation and mitigation into development planning.

Reference Books

- Khan, M. R., & Roberts, J. T. (2023). *Climate Change and Development*. Routledge.
- Watts, N., & Adger, W. N. (2022). *Health and Climate Change: Policies to Foster Resilience*. Cambridge University Press.
- Qu, J. J., & Motha, R. P. (2022). *Climate Change and a Sustainable Earth*. Cambridge Scholars Publishing.
- Islam, N., & Winkel, J. (2017). *Climate change and social inequality*. DESA Working Paper No. 152 ST/ESA/2017/DWP/152

- Gabay, C., & Ilcan, S. (Eds.). (2018). *The Politics of Destination in the 2030 Sustainable Development Goals: Leaving No-one Behind?* (Vol. 1). Routledge.
- Robinson M. (2018). *Climate Justice, Resilience, and the Fight for a Sustainable Future*. Bloomsbury Publishing, London, UK.
- Connelly, J., Smith, G., Benson, D., & Saunders, C. (2012). *Politics and the environment: from theory to practice*. Routledge.
- Sachs, Jeffrey D. (2015). *The age of sustainable development*. Columbia University Press.
- Kellogg W.W. and Schware R. (2018). *Climate Change and Society*. Routledge.

Lesson Plan

Week	Lecture Topic	Content Learning Outcomes (CLOs)
1	<ul style="list-style-type: none"> Science, Drivers and Impacts of Climate Change. The Climate Development Nexus. 	Students will be able to learn and understand the basics of science and the impacts of Climate Change, by comprehending the nexus between Development and Climate Climate.
2	<ul style="list-style-type: none"> The International Climate Change Regime. The role of Countries in Global Environmental Coalitions. 	<ul style="list-style-type: none"> Understanding different regimes and evolutions of international Climate Change, whereby comprehending the role of global North and global South in the coalitions building to tackle climate issues.
3	<ul style="list-style-type: none"> Climate Change impacts: frequency and intensity. Mitigation Responses and Low-emissions Development 	<ul style="list-style-type: none"> In times of crisis, comprehending the episodes and intensity of natural disasters and finding solutions.
4	<ul style="list-style-type: none"> Anticipated impacts of Climatic Disasters. Adaptation Responses and Building Climate Resilient Development. 	<ul style="list-style-type: none"> Focusing on mitigating and adapting the impacts of climate change by anticipating the impacts. Also, building climate resilience for human sustainability.
5	<ul style="list-style-type: none"> Climate Finance: Moving from Development Cooperation to Climate Cooperation. Loss and Damage fund under GEF/COPs. 	<ul style="list-style-type: none"> Digging into the new notion of climate finance under the cooperative arrangement and also focusing on the new norm: Loss and Damage fund under GEF/COPs.
6	<ul style="list-style-type: none"> Development and Climate Action in a Changing World. Coalitions on the response against climate change. 	<ul style="list-style-type: none"> An extended focus on coalition building and collective response on Climate Action.
7	<ul style="list-style-type: none"> Alternative Development Futures. Pathways to Climate-smart Development. 	<p><i>(Khan, M. R., & Roberts, J. T. (2023) Climate Change and Development, Routledge)</i></p>

8	Guest Talk on Pakistan's role in the Global Climate Regimes to finance local green projects.	
9	Mid Semester Exam (MSE) Week	
10	<ul style="list-style-type: none"> Climate and Human Health. Extreme Weather Events: Physical and Mental Health Challenges. 	(Qu, J. J., & Motha, R. (2022). <i>Climate Change and Sustainable Earth</i> . Cambridge Scholar Publishing
11	<ul style="list-style-type: none"> Climate Change and Social Inequality. Climate Change and Social Justice. 	(Islam, N., & Winkel, J. (2017). <i>Climate change and social inequality</i> . DES Working Paper No. 15 ST/ESA/2017/DWP/152
12	<ul style="list-style-type: none"> Guest Talk on Climate Change Vulnerabilities and the role of government and private sector. 	
13	<ul style="list-style-type: none"> Green ideology: Politics, ethics and The Limits to Growth. Western political traditions, Sustainable development, democracy and the environment 	(I-2: Connelly, J., Smith, G., Benson, D., & Saunders, C. (2012). <i>Politics and the environment: from theory to practice</i> . Routledge)
14	<ul style="list-style-type: none"> Economic valuation of environmental interventions. Environmental impact assessment and measuring sustainable development 	(II-5: Connelly, J., Smith, G., Benson, D., & Saunders, C. (2012). <i>Politics and the environment: from theory to practice</i> . Routledge)
15	<ul style="list-style-type: none"> Environmental policy: global to local: Agents of change: intl. and non-governmental organisations. 	(III-7: Connelly, J., Smith, G., Benson, D., & Saunders, C. (2012). <i>Politics and the environment: from theory to practice</i> . Routledge
16	Semester Project Presentation and Defense	
17	Revision and Q/A	
18	End Semester Exam (ESE) Week	