

Course Introduction

IN 00.41: Climate Change Challenges and Responses 1(1-0)

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Course objective

to provide a wide-ranging contemporary debate and progresses linked with climate change for enhancing students' knowledge base and critical thinking in their respective field of profession.



Learning Outcomes

- Describe the contemporary and relevant climate change issues
- Discuss the impact and vulnerability associated with climate change
- Analyze available mitigation and adaptation options
- Explain the required enabling environment (climate finance, policies) for addressing climate change issues

Lecture topics

Cr hour: 1(1-0)

Week	Date	Lecture topic
1	18 Jan 2022	1. Course introduction 2. Historical Discourse on Sustainable Development, climate change nexus with Sustainable Development Goals (SDGs)
2	25 Jan	3. Climate change overview, Paris Agreement and international climate negotiation, IPCC 4. Climate change: science, causes, vulnerability, skeptics
3	1 Feb	5. Economics of climate change, carbon market and other market instruments 6. Deep decarbonization pathways and carbon neutrality under 1.5 degree and other scenario focusing on Energy sector
4	8 Feb	7. Climate Change and Circular Economy 8. Cities and climate change: Science, policy and practice
5	15 Feb	9. Needs for food systems transformation for climate change mitigation and sustainable development 10. Adaptation needs, options, and planning under uncertainty
6	22 Feb	11. Adaptation case studies: water sector, agriculture sector 12. IPCC communication
7	29 Feb	<i>Midsem exam</i>
8	8 Mar	13. Climate policies, technology and institutions 14. Nature-based solutions for climate change
9	15 Mar	15. Enabling Climate Response: Climate Financing 16. ??? <i>Final exam (to be fixed)</i>

Learning resources

- No textbook
- Several reference books, journals, other resources given in course catalogue
- Lecture presentation file (also containing list of readings) will be made available before the lecture

Grading :

Midsem exam (30%) - Closed book

Final exam (30%) - Closed book

Assignments (40%)

- Group project (30%)

- Participation (10%)

Class Schedule:

Tuesday: 100-1200 hr

ET 238 SMC

Zoom Meeting ID: 212 629 2650

Password: 920687

Getting lecture materials:

From Moodle

Search course: IN00.41 Climate Change Challenges and Responses

Or go to

School → SERD → ED82 - Climate Change and Sustainable Development

Self-enrollment key: iwc-cccr

Contact for course-related inquiry: rajendra@ait.ac.th

Historical Discourse on Sustainable Development, and Climate Change Nexus with SDGs



Dr. Bindu N. Lohani

- Former VP-Knowledge Management; VP- Finance and Administration of ADB
- Experience and expertise in infrastructure projects development and financing (clean energy, transport, urban and water sectors), sustainable development and sustainability issues, especially in environment and climate change
- Serving as:
 - Global Head of Climate Change Practices
 - Distinguished Fellow, Emerging Markets Forum, The Centennial Group, USA;
 - Chairman of Board, Clean Air Asia
 - Board of Director, UNESCO International Water Security and Sustainable Development
 - Member of Advisory Board, Asia Pacific Center for Environmental Law
 - Founding Board member, Asian Water Council
 - Senior Advisor, Network Among cities & Private Sector for Asian Smart cities
 - Distinguished Adjunct Faculty and former Board of trustee member of AIT
 - Advisor, board member, and fellow of several other professional organizations