

Lecture Plan
Department of Planning, School of Planning and Architecture, Vijayawada

Name of Course: Climate Change and Cities (PLN424)

Programme & Sem: **Bachelor of Planning Semester Eighth**
 Course Duration: January 2024 to April 2024
 Course Coordinator: Rajeev R, Assistant Professor, Dept. of Planning (rajeevnair@spav.ac.in)
 Number of Credits: 03
 Subject Category: Theory
 Total Periods/Week: 3 (See Time Table for details)
 Internal Assessment: 50 (minimum pass marks 40%)
 End Evaluation: 50 (minimum pass marks 40%) – Written Exam.
 Total Marks: 100 (to be converted to CGPA credit pattern as per regulations)

Subject Objective: Introduce students to aspects of climate change and its relation with growth of cities.

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode (Optional)
Week 1	Introduction to Climate Change: Science; Evidences; Concern; Human settlements as a major source of emissions; Changing perspectives.	Orientation & Lecture
Week 2	Human Settlements in a Changing Climate - location of settlements, socio-economic characteristics, cultural practices and governance structure, suitable interventions	Lecture, and Interactive Session
Week 3	Impacts of Climate Change upon Urban Areas; Climate Risk and Vulnerability in the City Take Home Task: E-tutorial on 'Introductory e-Course on Climate Change' (8 hours)	Lecture Online Tutorial
Week 4	Climate Risk and Vulnerability in the City - Risk due to climate change, risk assessment, impacts due to flooding, cyclones and landslides, Impacts on infrastructure, urban governance and participation	Lecture
Week 5	Internal Assessment – 1 : Take-home Assignment, followed by PPT of findings: 15 Marks (Climate Concerns in Indian Cities – Identification of the threats, Causative Factors/ Parameters of Vulnerability, Response Potential)	Presentation on relevant Climate Change Concerns
Week 6 & 7	STUDIO FIELD VISIT	--
Week 8	Portions continued from Week 4 and Online Course-work on 'Cities and Climate Change' (<i>Climate Change, the process, Key players – Contribution of Urban Areas to Climate Change</i>) – 2 hours	Lecture; Online Tutorial
Week 9	Mid-term Assessment (20 Marks)	Written Assessment
Week 10	GHGs and Climate Change - Factors affecting Climate Change - emission paths, residential, industrial, transport, waste disposal.	Lecture
Week 11	Climate change adaptation - Towards Climate Resilient Cities; Ecological Footprint Analysis of cities; Sustainable Lifestyle Assessment and behavioural modifications at household levels, Low Carbon Cities	Lecture, & Case Study Discussion, followed by Expert discussion
Week 12	Global Climate Change Negotiations & Results; Take Home Task: Online Tutorial On Global Framework For Climate Services	Lecture, Tutorial

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Week 13	Internal Assessment – 3 : Assignment: Climate Resilient Cities/ Climate Proofing Cities: 15 Marks	Presentation and Discussion
Week 14	Revision of portions, followed by completion of Online Course-work on 'Human Health and Climate Change' and Online Course-work on 'Children and Climate Change'.	Interactive Session, Tutorial
Week 15	Finalisation of Internal Assessment Marks	Discussion from previous lectures and assessments; Online Tutorial.

Suggested Readings/ References from Library:

- 1) UN Habitat, Cities and Climate Change : Global report on Human Settlements 2011, Earthscan, Washington
- 2) Betsill M (2005): Cities and Climate Change. Routledge, London.
- 3) Harriet Bulkeley (2013): Cities and Climate Change. (Routledge - Critical Introductions to Urbanism and the City), New York.
- 4) Rosenzweig C. (2011): Climate Change and Cities: First Assessment Report of the Urban Climate Change Research Network. Cambridge University Press, Cambridge.

Additional Readings/ References/ Materials - Online:

- 1) For Rio+20 coverage; see The United Nations Commission on Sustainable Development/UNCSO, www.uncsd2012.org/index.html; for the broad range of issues addressed in Rio in 2012 and beyond, see also the International Institute for Sustainable Development, <http://www.iisd.ca/uncsd/rio20>
- 2) Rabinovitch, J. 1992, Curitiba: towards sustainable urban development, Environment and Urbanization, 4 (2): 62-73.
- 3) Understanding Sustainable Development John Blewitt
- 4) Carbon footprints, local steps: how local government can rise to the climate change challenge James Macgregor, New Local Government Network, New Local Government Network, 2007 - Science - 131 pages
- 5) Understanding Climate Change: Science, Policy, and Practice, which is available at: University of Toronto Press: <http://www.utppublishing.com/Understanding-Climate-Change-Science-Policy-and-Practice.html> Amazon.com: <http://www.amazon.com/Understanding-Climate-Change-Science-Practice/dp/1442614455>
- 6) Readings on Low-Carbon Cities and Neighbourhoods
- 7) Free Video lectures from University of British Columbia course Climate Literacy: Navigating Climate Change Conversations
- 8) <https://unccelearn.org/course/view.php?id=7&page=overview>
- 9) <https://unccelearn.org/course/view.php?id=21&page=overview>
- 10) <https://unccelearn.org/course/view.php?id=23&page=overview>
- 11) <https://unccelearn.org/course/view.php?id=72&page=overview>
- 12) <https://unccelearn.org/course/view.php?id=15&page=overview>

Note:

1. Any other closed holidays as declared by SPAV shall supercede the above lecture plan. Holidays shown above may alter as per Notice from time to time.
2. Assessment Sessions may be re-scheduled, with prior intimation.
3. Reading lists provided is not exhaustive and is subject to addition – students are advised to follow progression of class to keep abreast of the new reading lists, if any.