

**School of Planning and Architecture, Vijayawada**  
**Department of Planning**

**Lecture Plan**

**Name of Course: Human Settlements and Climate Change (MEPM2110/MURP2112)**

Programme & Sem:	<b>Master of Planning Semester Three</b>
Course Duration:	Odd Semester 2023-2024
Course Coordinator:	Rajeev R, Assistant Professor, Dept. of Planning (rajeevnair@spav.ac.in)
Number of Credits:	03
Subject Category:	Theory – <b>Elective (For MURP, MEPM, MTP)</b>
Total Periods/Week:	3 (See Time Table for details)
Internal Assessment	50 (minimum pass marks 50%)
End Evaluation	50 (minimum pass marks 50%) – Written Exam.
Total Marks	100 (to be converted to CGPA credit pattern as per regulations)

**Subject Objective:** To study human settlements in climate change perspective and understand strategies for adaptation and spatial planning tools for mitigation of GHG emissions.

<b>Week</b>	<b>Lecture / Session Topic (Teaching-Learning Objective aimed)</b>	<b>Session Mode (Optional)</b>
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	E-tutorial on 'Introductory e-Course on Climate Change' (8 hours)	Online Tutorial
Week 4	Impacts of Climate Change upon Urban Areas; Climate Risk and Vulnerability in the City	Lecture
Week 5	<b>Internal Assessment – 1 : Assignment</b> –Take-home Assignment, followed by PPT of findings.	Presentation on relevant Climate Change Concerns
Week 6 & 7	<b>STUDIO FIELD VISIT</b>	--
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	<b>Mid-term Assessment</b>	Written Assessment
Week 10	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 11	GHGs and Climate Change - Factors affecting Climate Change - emission paths, residential, industrial, transport, waste disposal.	Lecture
Week 12	Climate change adaptation - Towards Climate Resilient Cities; Ecological Footprint Analysis of cities; Sustainable Lifestyle Assessment and behavioural modifications at household levels.	Lecture followed by Expert discussion

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Week 13	Climate Change Mitigation and Low-Carbon Cities	Special Lecture
Week 14	<b>Internal Assessment – 3 : Term Paper</b> Discussion and submission <i>(At the start of the semester students are encouraged to take-up a topic of interest under the domain of Climate Change and Human Settlements; followed by 2-3 months of desktop research; and compilation of understanding/ findings in the form of a research paper)</i>	Presentation, Interactive Session & Case Study Discussion.
Week 15	Global Climate Change Negotiations & Results; Online Tutorial On Global Framework For Climate Services	Lecture
Week 16	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'.  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/UNCSD, [www.uncsd2012.org/index.html](http://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>

**A Few Suggested Online Courses to explore (if further interested):**

- 1) <https://www.coursera.org/learn/global-warming#about>
- 2) <https://www.coursera.org/learn/climate-change-indigenous-communities#about>
- 3) <https://www.coursera.org/learn/act-on-climate#about>

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**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.