

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

Name of Course: Human Settlements and Climate Change (MPEP311)

Programme & Sem: **Master of Urban and Regional Planning (PG), Semester Three**

Course Duration: July 16 to Nov 14, 2018

Course Coordinator: Suzana Jacob, Assistant Professor, Dept. of Planning

Number of Credits: 03

Total Periods/Week: 03 (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.*

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode (Optional)	References / Suggested Readings
Week 1 (July 16-20)	Concern, human settlements as major source of emissions, vulnerability to impacts of climate change	Orientation and Lecture	1. Harriet Bulkeley, Cities and Climate Change (2013), Routledge
Week 2 (July 23-27)	Emission paths, strategies, location of settlements, socio-economic characteristics, cultural practices, governance structure, suitable interventions	Lecture	1. Special Report of the Intergovernmental Panel on Climate Change, 2012, Managing The Risks Of Extreme Events And Disasters To Advance Climate Change Adaptation, Cambridge University Press publication
Week 3 (July 30-Aug 3)	Extreme weather events, ozone depletion, Energy consumptions	Lecture	1. Harriet Bulkeley, Cities and Climate Change (2013), Routledge
Week 4 (Aug 6- 10)	Risk due to climate change, risk assessment	Lecture, Interactive Session	1. David King, Daniel Schrag, Zhou Dadi, Qi Ye and Arunabha Ghosh, 2015, CLIMATE CHANGE A RISK ASSESSMENT, Centre for Science and Policy, UK government Publication 2. Harriet Bulkeley, Cities and Climate Change (2013), Routledge
Week 5 (Aug 13 -15)	Impacts due to flooding, cyclones and landslides, impacts on	Lecture and discussion	1. Special Report of the Intergovernmental Panel

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	infrastructure, urban governance and participation		on Climate Change, 2012, Managing The Risks Of Extreme Events And Disasters To Advance Climate Change Adaptation, Cambridge University Press publication
Week 5 (Aug 16 - 21)	Internal Assessment – 1 :Assignment		
Week 6 (Aug 22 -24)	Resilience in cities	Lecture & Discussion	1. Harriet Bulkeley, Cities and Climate Change (2013), Routledge
Week 7 (Aug 27-31)	Sectoral emissions, reducing emission and carbon footprint	Lecture	1. Report on Climate Change Mitigation In India , 2011, supported by UNEP/GRID-Arendal
Week 8 (Sept 1-9)	Field Work		
Week 9 (Sept 10 - 14)	Carbon trading and other alternatives	Lecture	1. Carbon Market Roadmap for India- Looking back on CDM and looking ahead, 2014, GIZ publication 2. Sumita Nair , Preeti NandKumar, 2013, Environmental carbon trading scenario in India: A Global issue of 21 st Century: A Review, International Journal of Advancements in Research & Technology publication
Week 10 (Sept 17-21)	Energy efficient approaches	Lecture and interactive session	1. Report on Climate Change Mitigation In India , 2011, supported by UNEP/GRID-Arendal
Week 11 (Sept 24-28)	Internal Assessment – 2 :Time bound Test (Objective/Quiz/Opinion based)		
Week 12 (Oct 1-5)	Urban climate governance, Land use planning and compact cities	Lecture	1. Jan Beermann, Appukuttan Damodaran, Kirsten Jörgensen & Miranda A. Schreurs, 2016, Climate action in Indian cities: an emerging new research area, Journal of Integrative Environmental Sciences publication 2. Jan Beermann, 2016, Urban Cooperation and

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			<p>Climate Governance: How German and Indian Cities Join forces to tackle climate change, Springer Publication</p> <p>3. Rahmadya Trias Handayanto, Nitin Kumar Tripathi, Sohee Minsun Kim and Sumanta Guha, 2017, Achieving a Sustainable Urban Form through Land Use Optimisation: Insights from Bekasi City's Land-Use Plan (2010–2030), published in sustainability journal</p>
Week 13 (Oct 8- 12)	Future and smart cities, Transport and energy systems for the future	Lecture, Interactive Session	1. Report on Climate Change Mitigation In India , 2011, supported by UNEP/GRID-Arendal
Week 14	Dussera Break		
Week 15 (Oct 22-26)	Internal Assessment 3 : Assignment		
Week 16 (Oct 29 – Nov 2)	Reducing urban heat island, Protecting urban water systems from climate change risks, Case studies	Lecture	<p>1. Forests and climate change working paper, 2010, Woodfuels and climate change mitigation, cases studies from Brazil, India and Mexico, FAO of the UN publication</p> <p>2. Benjamin Spencer, Josh Lawler , Celia Lowe , LuAnne Thompson, Tom Hinckley , Soo-Hyung Kim , Susan Bolton, Scott Meschke, Julian D. Olden and Joachim Voss, 2017, Case studies in co-benefits approaches to climate change mitigation and adaptation, Journal of Environmental Planning and Management, 2017</p> <p>3. Report on Climate Change Mitigation In India , 2011, supported by UNEP/GRID-Arendal</p>
Week 17 (Nov 5- Nov 9)	Climate change adaption, migration as adaption	Lecture	1. Elizabeth Wilson and Jake Piper, 2010, Spatial Planning and Climate Change, Routledge,

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			London.
Week 18 (Nov 12 – Nov 14)	Climate change vulnerable region and groups	Lecture	1. Elizabeth Wilson and Jake Piper, 2010, Spatial Planning and Climate Change, Routledge, London.

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.