

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

**Name of Course:** Human Settlements and Climate Change (MPUR313)

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

Course Duration: Jul 10, 2017 to Nov 3, 2017

Course Coordinator: K. Sri Pratyusha, Assistant Prof., Dept. of Planning  
(sripratyusha@spav.ac.in)

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<br>(Teaching-Learning Objective aimed)                     | Session Mode<br>(Optional) | References /<br>Suggested Readings   |
|---------------------------|--|----------------------------|--|
| Week 1<br>(July 10-14)    | Human settlements and climate concerns   | Lecture and discussion     | 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 2<br>(July 17-21)    | Location and socio-economic characteristics of settlements and climate concerns    | Lecture and Discussion     |  |
| Week 3<br>(July 24-28)    | Risk due to climate change, impacts due to natural disasters, resilience in cities | Lecture and discussion     |  |
| Week 4<br>(July 31-Aug 4) | Risk assessment  | Lecture                    | 2. 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  |
| Week 5<br>(Aug 7 -11)     | Sectoral emissions and carbon footprints   | Lecture                    | 3. Report on Climate Change Mitigation In India , 2011, supported by UNEP/GRID-Arendal.  |
| Week 6<br>(Aug 14 - 18)   | Internal Assessment-I (Aug 14-18)  |                            |  |
| Week 7<br>(Aug 21 - 25)   | Carbon trading   | Lecture                    | 4. Carbon Market Roadmap for India- Looking back on CDM and looking ahead, 2014, GIZ publication<br>5. Sumita Nair , Preeti NandKumar, 2013, Environmental carbon trading scenario in India: A Global issue of 21 st |

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

| <b>Week</b>            | <b>Lecture / Session Topic<br/>(Teaching-Learning Objective aimed)</b> | <b>Session<br/>Mode<br/>(Optional)</b> | <b>References /<br/>Suggested Readings</b>  |
|------------------------|--|--|---|
|                        |  |  | Century: A Review, International Journal of Advancements in Research & Technology publication   |
| Week 8 (Aug 28-Sept 1) | Energy efficient approaches  | Lecture and discussion                 | 6. Report on Climate Change Mitigation In India , 2011, supported by UNEP/GRID-Arendal  |
| Week 9 (Sept 4)        | Field Work I (Sep2 - Sep10)  |  |   |
| Week 10 (Sept 11 - 15) | Urban climate governance   | Lecture and discussion                 | 7. Jan Beermann, Appukuttan Damodaran, Kirsten Jørgensen & Miranda A. Schreurs, 2016, Climate action in Indian cities: an emerging new research area, Journal of Integrative Environmental Sciences publication<br>8. Jan Beermann, 2016, Urban Cooperation and Climate Governance: How German and Indian Cities Join forces to tackle climate change, Springer Publication |
| Week 11 (Sept 18 - 22) | Internal Assessment-II (Sep 18- Sep 22)                                |  |   |
| Week 12 (Sept 25 - 29) | Land use planning and compact cities                                   | Lecture and discussion                 | 9. 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   |
| Week 13 (Oct 2 - 6)    | Future and smart cities  | Lecture and discussion                 | 10. Report on Climate Change Mitigation In India , 2011, supported by UNEP/GRID-Arendal   |
| Week 14 (Oct 9 - 13)   | Case studies of climate change mitigation                              | Lecture and discussion                 | 11. Forests and climate change working paper,   |

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

| <b>Week</b>                 | <b>Lecture / Session Topic<br/>(Teaching-Learning Objective aimed)</b> | <b>Session<br/>Mode<br/>(Optional)</b> | <b>References /<br/>Suggested Readings</b>   |
|-----------------------------|--|--|--|
|                             |  |  | 2010, Woodfuels and climate change mitigation, cases studies from Brazil, India and Mexico, FAO of the UN publication<br>12. 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<br>13. Report on Climate Change Mitigation In India , 2011, supported by UNEP/GRID-Arendal |
| Week 15<br>(Oct 16 - 20)    | Climate change adaptation of cities                                    | Lecture                                | 14. Elizabeth Wilson and Jake Piper, 2010, Spatial Planning and Climate Change, Routledge, London.   |
| Week 16<br>(Oct 23 - 27)    | Internal Assessment-III (Oct 23-Oct 27)                                |  |  |
| Week 17<br>(Oct 30 – Nov 3) | Climate change vulnerable groups                                       | Lecture and discussion                 | 15. Elizabeth Wilson and Jake Piper, 2010, Spatial Planning and Climate Change, Routledge, London.   |
|                             | Finalisation of Internal Marks   |  |  |

**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.