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| **Course title: Climate Change and Development: Policies & Practices** | | | |
| **Course code:** PPS 159 | **No. of credits:** 2 | **L-T-P:** 24-06-00 | **Learning hours:** 30 |
| **Pre-requisite course code and title (if any):** None | | | |
| **Department:** Department of Policy & Management Studies | | | |
| **Course coordinator(s):** Dr. Chandan Kumar | **Course instructor(s):** Prof. Shaleen Singhal, Mr. R. R. Rashmi | | |
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| **Course type**: Core | **Course offered in:** 2nd Semester | | |

**Course description**

This course provides a comprehensive exploration of climate change and its multifaceted developmental impacts. It is designed for understanding the interplay of climate science, political frameworks, and policy development while examining strategies for enhancing climate resilience. By offering an in-depth exploration of the interplay between climate change, development, and policymaking, it will equip students with the knowledge, skills, and perspectives to contribute positively to building resilient environments and settings. The insights gained through this course will empower the next generation of policymakers, urban planners, public health officials, and community leaders to create effective and sustainable responses to climate change.

This course is divided into four modules. The first module serves as a foundation for understanding climate change, exploring its scientific basis, causes, and global consequences. The module will also discuss global climate change agreements, equity in climate change, mitigation measures and risk assessment. In the second module, students will delve into politics, policies, key institutions, finance and technology transition surrounding climate change. The third module focuses on identifying and implementing strategies to build climate resilience in development planning. Students will explore various approaches and frameworks for assessing vulnerability and resilience, including green infrastructure, ecosystem-based and community-based approaches and initiatives aimed at mitigating the effects of climate change. In the final module, students will examine real-world case studies of places that have successfully implemented climate resilience strategies. Through collaborative analysis, students will identify key components that contributed to the success of these initiatives.

**Learning objectives:**

- To provide students with a nuanced understanding of the challenges posed by climate change, the political and policy contexts in which decisions are made.
- To orient students to the effective strategies that cities can employ to promote climate-resilience.
- To equip students with the skills necessary to contribute to climate action and sustainable urban development.

**Evaluation criteria:**

Course grades will be based on the following criteria:

- **Minor Test-1:** Short-Answer Type Questions/Quizzes/MCQs (20%)
- **Minor Test-2:** Seminar/Case Study - Group Presentation (30%)
- **Major Test:** Written Test/Term Paper Submission & Presentation (50%)

**Learning outcomes**

Upon completion of this course, candidates would be able to:

1. possess a comprehensive understanding of climate change and the tools necessary to evaluate, promote, and implement effective climate resilience strategies (All evaluations)
2. develop skills to communicate complex climate change issues and resilience strategies to various audiences, including policymakers, community members, and the general public (Minor Test-2)

**Student responsibilities**

- At least 75% attendance will be necessary to be able to appear for the final exam.
- Active classroom participation; Critical reflections and timely submission according to the evaluation criterion.

**Course Outline prepared by:** Dr. Chandan Kumar, Prof. Shaleen Singhal, and Mr. R. R. Rashmi

**Course Reviewers**

1. Prof. P. K. Joshi, Professor, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.
2. Dr Manish Kumar Shrivastava, Associate Director, Earth Science and Climate Change Division, The Energy and Resources Institute (TERI), New Delhi, India.

**Additional Information**

This Course outline was approved in the 60th Academic Council Meeting held on 24th December 2024 at TERI School of Advanced Studies, New Delhi.

Note: This is a brief outline of the course. Detailed Course Content is available to students through University Intranet.