

**Course Title: Climate Change**

**Course Code: DVST-831**

**Credit Hours: 3-0**

**Pre-requisite Courses: DVST-852**

**Course Description:**

1. This course provides students with a multi-disciplinary understanding of climate change processes, and their direct and indirect interactions with development. Students will learn about the main climate change processes, scenarios and vulnerabilities, and international and national policy responses. The course will begin with in-depth study of the main natural processes involved in climate change, the factors affecting it, and the likely nature and extent of climate change in the future. It will build upon this knowledge with further investigation into the challenges of formulating and implementing climate change policy. Students will also consider the impacts of climate change with respect to particular economic sectors, scales of governance, and local communities. This substantive learning will be contextualized with relevant applied explanations, illustrations, and case studies.

**2. Course Objectives:**

- a. To increase students appreciation for the necessity of mitigating and adapting to climate change.
- b. To advance students understanding of the complex relationships being forged between climate change and sustainable development.

**Course Outcomes:**

3. At the end of this course, students will have comprehensive understanding of
  - a. the climate science behind emerging climate change debates, and according appreciation for their bases and uncertainties;
  - b. the main issues affecting climate change policy, its identification of problems and goals, and its implementation challenges;
  - c. the implications of climate change, and how related development policies and outcomes effect poor communities in different parts of the world.

## **Course Contents:**

4. Students of this course will study climate change from an environmental science and policy perspective. This will involve considerable study of the natural forces, dynamics, and likely trajectories of climate change, as well as detailed discussion of the ways the policy can and must respond to it.

5. **Lab work: None.**

## **6. Textbooks or Reference Books:**

Klein, N. (2015) *This Changes Everything: Capitalism vs. The Climate*. New York, NY: Simon and Schuster.

Sachs, J.D. and Ban, K. (2015) *The Age of Development. Sustainable* New York, NY: Columbia University Press.

Tanner, T., and Horn-Phathanothai, L. (2014) *Climate Change and Development*. London, UK: Routledge.

Taylor, M. (2014) *The Political Ecology of Climate Change Adaptation: Livelihoods, Agrarian Change, and the Conflicts of Development*. London, UK: Routledge.