CLIMATE CHANGE (6 CREDITS)

Course objectives:

- To develop an understanding of the science of climate change, and explore causes and impacts
- To understand the policy and equity issues in the climate change debate
- To understand the action perspectives international, national and local
- To explore a range of actions possible to address the climate crisis

| Science of Climate Change | Climate Equity, Development and Sustainable Living | Action Perspectives |
|---|--|--|
| Climate system: an overview Environment and Climate Change: differences Insights from the IPCC Causes Impacts: global perspective Impacts in the Indian context: eco-system based human perspective to understand the needs of the vulnerable communities in every ecosystem: Forest, Coastal, Mountainous, Arid, Urban Issues of Mitigation(emission reduction and sequestration) and Adaptation Peak Oil and the post industrial stone-age Climate Skepticism | Need v/s greed: challenging the consumerism culture Re-ordering the 'global ecological space' | United Nations Framework Convention on Climate Change (UNFCCC) and key landmarks in the negotiation process International climate negotiations: stakes, debates and dilemmas Climate politics in India: Government's policy perspective, National Action Plan on Climate Change (NAPCC) and States' Action Plan on Climate Change (SAPCC) and driving forces, India in the context of global imperatives; Climate mitigation, Carbon Trading Technology, sustainable development and the green economy Global advocacy initiatives by civil society's key players: environment and development NGOs, international organizations, business communities, academic and research Institutions, networks Influencing national government agenda on Climate Change |

Course Outline

| Living with Climate Change | Methods and Communication aids envisaged | |
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| Urbanisation: Transportation, Construction, Waste and Recreation Industrialization: Power sector, mining and fossil fuel exploration, steel, cement and aluminium New Economics Global – Local; Urban – Rural linkages Science and wisdom of local communities: indigenous knowledge and practices Identifying new livelihood options Sustainable Development through carbon neutral or low carbon pathway Sustainable agriculture Water sharing Renewable and decentralized energy options Bio-diversity Coping and managing increasing health vulnerabilities Disaster Risk Reduction and Disaster Management: vulnerability assessment and intervention for climate risk reduction Individual actions: carbon footprint – personal, local, regional Climate Education and Communication Research. | Lectures and interactive presentations with PPTs, video for discussions facilitated by different experts; and exposure around Pune. | |