

## Approved: 16<sup>th</sup> Senate Meeting

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| <b>Course Number</b> | : HS532   |
| <b>Course Name</b>   | : Sustainable Development and Environmental Protection  |
| <b>Credits</b>       | : 3-0-0-3   |
| <b>Prerequisites</b> | : None  |
| <b>Intended for</b>  | : Post graduate students, 3 <sup>rd</sup> and 4 <sup>th</sup> Year B.Tech students (with instructor's permission) |
| <b>Distribution</b>  | : Core course for M.A. in Development Studies, Elective for others  |
| <b>Semester</b>      | : Even/Odd  |

### 1. Preamble:

‘Sustainable Development’ is ‘development that meets the needs of the present without compromising the ability of future generations to meet their own needs’. One of the greatest challenges of the time is to convert the concept to the practice and to measure the effects of policies and practices that are in place. The purpose of the course is to bring out several perspectives of sustainable development in general with an emphasis on the role of environmental protection. It provides an understanding of the genesis of the concepts, indicators of sustainable development based on several intellectual underpinning and the process of measurements. The implications of sustainable development vary across sectors. The course therefore aims to develop an understanding of sustainable development issues with respect to different sectors: livelihood, energy, forest resources, and climate change. Finally, the course devotes a module with special reference to the sustainable development challenges in Himalayan region.

### 2. Course Modules:

#### Module I: Precursors of ‘sustainable development’ (8 Hours)

- Limits to Growth (1972); Stockholm Conference on Environment and Development (1972); Earth Summit/ Rio Conference (1989); World Conservation Strategy (1990)
- World Commission on Environment and Development (1997): Our Common Future
- Debates and intellectual underpinnings: Basic Needs Approach, Entitlement Analyses, Human Development; Capabilities Approach

#### Module II: Measuring Sustainable Development (12 Hours)

- Measuring well-being; Policy based indicators and Capital based indicators: Financial capital, Produced Capital, Human Capital, Natural Capital and Social Capital; Human Development Index, World Development Index, Inclusive Wealth Index.
- From Millennium Development Goals to Sustainable Development Goals
- System of National Accounts (SNA) and System of Environmental and Economic Accounts (SEEA)

- The role of discounting

**Module III: Exploring the agenda for sustainable development (12 Hours)**

- Inclusive growth, poverty eradication and sustainable livelihoods
- Access to education and health
- Environment: Energy, Forest and Water resources
- Sustainable city and urban common
- Climate Change

**Module IV: Environmental Protection in Indian Himalayan Region (10 Hours)**

- National Mission on Sustainable Himalayan Ecosystem
- Vulnerability, exposure and risk assessment of Indian Himalayan Regions

**3. Textbooks:**

1. Sachs, D. Jeffrey, 2015. The Age of Sustainable Development. Columbia University Press. ISBN: 9780231173155

**4. References:**

1. Rogers, P. P., Jalal, K. F., Boyd, J. A. (2012). An Introduction to Sustainable Development. Earthscan. UK and USA.
2. Office of the Resident Coordinator of India, United Nations. (2016). Sustainable Development Goals: A Handbook.
3. Original reports pertaining to the Stockholm Declaration on the Human Environment, World Conservation Strategy, The Brundtland Report and Agenda 21
4. <https://sustainabledevelopment.un.org/memberstates/india>
5. Selected journal articles

**5. Similarity Content Declaration with Existing Courses:**

| S.N. | Course Code                           | Similarity Content  | Approx. % of Content |
|------|---------------------------------------|---|----------------------|
| 1    | HS653: Environmental Economics        | Sustainable Development: Concepts and Stakeholders; Global System for Sustainable Development- World Development Reports, United Nations and Sustainable Development; UNDP Millennium Development Goals | ~10%                 |
| 2    | HS525: History of Development Thought | Introduction to the concept of Sustainable Development  | ~2%                  |
| 3    | HS534: Economics of Climate Change    | National Mission for Sustaining the Himalayan Ecosystem under National Action Plan on Climate Change  | ~5%                  |

**6.**