

**DSE-04B : Discipline Specific Elective - 4
Technology and Innovation Policies**

**B.A. (Hons.) Humanities & Social Sciences - Semester VI
Cluster Innovation Centre, University of Delhi**

Credit Distribution, Eligibility and Pre-requisites of the Course						
Course Title & Code	Credits	Credit Distribution			Eligibility Criteria	Pre-requisite
		L	T	P		
Technology and Innovation Policies (UPC: 3123100020)	4	1	0	3	Class XII Pass	Students must be familiar with concepts taught in any course under DSE-03

L = Lecture; T = Tutorial; P = Practical/Practice; UPC = Unique Paper Code

Learning Objectives

The learning objectives of this course are as follows:

- To critically evaluate the current innovation and technology policies
- To assess the role of government and public policy in driving technological innovation
- To examine the technology and innovation policies in the context of sustainability

Learning Outcomes

Upon completion of this course, students will-

- Evaluate of the state of technology and innovation policies in India in comparison the leading economies of the world
- Learn the importance of effective policy interventions in the area of innovation and technology
- Evaluate the impact of intellectual property rights and patent law on innovation outcomes

Outline of DSE-04B

The course will introduce students to policies in the gamut of Technology and Innovation. It will stress on the role of government in fostering innovation by focusing on the function of public policy on innovation and technological development especially in the India context. The course will examine the relationship between innovation and technology policy and issues such as intellectual property rights, etc. It will engage with the ethical and social implications of technological change. Students will develop an understanding of how different policy approaches can impact technological development, innovation outcomes and society as a whole.

Theoretical Component (15 Hours)

Technology and Knowledge Diffusion; Triple Helix Model; Technology Transfer; Capacity Building; Knowledge Society; Open Innovation; Technology Governance.

Indicative Themes

- Technology and economic development
- Intellectual property and innovation
- Technology and Society
- Innovation and sustainability

- Digital transformation and future of work

Practical component (90 Hours)

- Data collection – methods, tools and techniques
- Data analysis techniques
- Field visits
- Designing and organising workshops and awareness programmes

Readings

1. Etzkowitz, H., & Leydesdorff, L. (2000). “The Dynamics of Innovation: From National Systems and ‘Mode 2’ to a Triple Helix of University–Industry–Government Relations.” *Research Policy*, 29(2), 109–123.
2. Chesbrough, H. W. (2003). *Open Innovation: The New Imperative for Creating and Profiting from Technology*. Harvard Business Press.
3. Lundvall, B.-Å. (1992). *National Systems of Innovation: Towards a Theory of Innovation and Interactive Learning*. Pinter.
4. Nonaka, I., & Takeuchi, H. (1995). *The Knowledge-Creating Company*. Oxford University Press.
5. Bozeman, B. (2000). “Technology Transfer and Public Policy: A Review of Research and Theory.” *Research Policy*, 29(4–5), 627–655.
6. World Bank. (2007). *Building Knowledge Economies: Advanced Strategies for Development*. World Bank.
7. Stiglitz, J. E. (1999). “Knowledge as a Global Public Good.” In *Global Public Goods* (Kaul et al., eds.), Oxford University Press.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.
