

Discipline Specific Elective 5 (DSE-5): Digital Economics

Semester	Course title & Code	Credits	Duration (per week)			Eligibility Criteria	Prerequisite
			Lecture	Tutorial	Practical/ Practice		
III/V/VII	Digital Economics – ECON035	4	3	1	0	Passed Class 12th	Introductory Microeconomics (ECON001)

Learning Objectives

The Learning Objectives of this course are as follows:

- The analysis of the impact of information and communication technologies (ICTs) on economies and societies is a growing field.
- This course will cover the role of ICT on productivity, market structure, information and network effects, and its differential impact across groups and regions (digital divide).
- This theoretical and methodological stance has inspired a rather inter-disciplinary approach to the study of the digital economy.

Learning outcomes

The Learning Outcomes of this course are as follows:

- The students would be able to get an idea how the information technology is changing the life and livelihood of individuals and economy.

Syllabus

UNIT I: Functions of ICTs using productivity function approach and productivity (09 hours)

UNIT II: The transformation of management practices; work and employment; social networks, trust and social capital in the digital economy; cultural and motivational aspects (09 hours)

UNIT III: ICTs, competition, intellectual property right and market (09 hours)

UNIT IV: ICTs and the political economy of inequality etc. (09 hours)

UNIT V: Automation and Jobs (06 hours)

UNIT VI: Digital India (03 hours)

Recommended readings

- Goldfarb, A., & Tucker, C. (2019). Digital economics. *Journal of Economic Literature*, 57(1), 3-43.
- Goldfarb, A., Greenstein, S. M., & Tucker, C. E. (Eds.). (2015). *Economic analysis of the digital economy*. University of Chicago Press.
- Acemoglu, D., & Restrepo, P. (2018). Artificial intelligence, automation, and work. In *The economics of artificial intelligence: An agenda* (pp. 197-236). University of Chicago Press.
- Varian, H. R. (2001). *Economics of information technology*. University of California, Berkeley.
- Maiti, D., Castellacci, F., & Melchior, A. (2020). Digitalisation and development: issues for India and beyond. In *Digitalisation and Development* (pp. 3-29). Springer, Singapore.
- Greenstein, S (2020) The Economics of Internet Infrastructure, <https://www.aeaweb.org/articles?i>

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