

## Generic Elective (GE-9): Digitalisation and Development

Semester	Course title & Code	Credits	Duration (per week)			Eligibility Criteria	Prerequisite
			Lecture	Tutorial	Practical/ Practice		
III/V/VII	<b>Digitalisation and Development – ECON063</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>Class 12<sup>th</sup> Pass</b>	<b>NIL</b>

### 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. Technology is an enabling factor. Technological developments become relevant to the extent that they are economically and socially meaningful.
- This course aims to offers an overview of the understanding of economics of digitalisation and its impact on the life and livelihood with an interdisciplinary approach.

### Learning outcomes

The Learning Outcomes of this course are as follows:

The students would understand the functions information technology and its socio- economic impact, wellbeing and progress on the contemporary world.

### Syllabus

**UNIT I:** Digital development - India and the World (12 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 (12 hours)

**UNIT III:** Unit ICTs, Digital Divide and the political economy of inequality (12 hours)

**UNIT IV:** Access to ICT and poverty and wellbeing, work-life balance (9 hours)

### Recommended readings

- Goldfarb, A., Gans, J., & Agrawal, A. (2019). *The Economics of Artificial Intelligence: An Agenda*. University of Chicago Press.
- Agrawal, A., Gans, J., & Goldfarb, A. (2018). *Prediction machines: the simple economics of artificial intelligence*. Harvard Business Press.
- 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.
- Maiti, D., & Awasthi, A. (2020). ICT exposure and the level of wellbeing and progress: A cross country analysis. *Social Indicators Research*, 147(1), 311-343.
- 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.
- Acemoglu, D., & Restrepo, P. (2018). The race between man and machine: Implications of technology for growth, factor shares, and employment. *American Economic Review*, 108(6), 1488-1542.

- 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.
- Singh, N. (2016). Information technology and its role in India's economic development: A review. *Development in India*, 283-312.
- Castellacci, F., & Tveito, V. (2016). The Effects of ICTs on Well-being: A Survey and a Theoretical Framework (No. 20161004). Centre for Technology, Innovation and Culture, University of Oslo.
- Huyer, S., & Mitter, S. (2003). ICTs, globalisation and poverty reduction: Gender dimensions of the knowledge society. Kampala (Uganda): <http://gab.wigsat.org/policy.htm>.

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