

SYS 557 Sociology of Science and Technology

Objectives:

The objectives of this course is to -

- 1 Understand the relation between sociology and technology
- 2 Learn the interplay between society and science & technology
- 3 Study the social organisation of science
- 4 Analyse the science education in India
- 5 Understand the impact of science and technology on social institutions
- 6 Analyse the growth of science and technology in global situation

Course Outcome:

- CO1. Understand the relation between society and technology
- CO2. Analyse the social organisation of science
- CO3. Understand the science policies in India
- CO4. Relevance of science and technology education in India
- CO5. Self-employment strategies in technology
- CO6. Raising awareness of self-employment as a career option
- CO7. Prominent agencies of science and technology

Course Content:

Unit I: Introduction

Hrs - 12

- a. The Emergence, Scope and Importance of Sociology of Science and Technology
- b. Relationship between Society and Science
- c. Science as a Social System, science and Technology

Unit II : Emergence of Science and Technology

Hrs - 14

- a. Nature of Science and Technology Education in India
- b. Pure and applied Science in India
- c. Society, Science and Technology in India

Unit III: Social Organization of Science

Hrs - 12

- a. The Science Policy in India
- b. Social organization of Science in India
- c. R and D Culture in India

Unit IV: Science Education in India

Hrs - 14

- a. Role of Universities in Development of Science and Technology
- b. Relationship between Science and Industry
- c. The problems of Science education in India

Unit V : Indian Science and Technology in Global Situation

Hrs - 14

- a. Impact of LPG on Indian Science and Technology
- b. WTO and IPR and Indian Science and Technology
- c. MNCs and Indian Industry

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