

- I- Introduction to Geography of Manufacturing:**
  - i. Definitions and concepts, and organization.
  - ii. Classification of industrial activities.
- II- Historical Development of Industrial Activity:**
  - i. From industrial revolution to green paradigm.
  - ii. Modern trends in manufacturing.
- III- Industrial Location:**
  - i. Approaches to location dynamics.
  - ii. Location factors.
  - iii. Location models.
  - iv. Location theories.
- IV- Geographical Analysis of Selected Industries:**
  - i. Light industries (Cotton textiles, sugar industry)
  - ii. Heavy industries (Iron and steel, petro-chemicals, cement)
- V- Modern Issues in Manufacturing:**
  - i. Patterns of international production and the industrialization process.
  - ii. De industrialization.
  - iii. Industry and environmental problems.
  - iv. Industrial planning and management.

**Recommended Books :**

BS Geography w.e.f. Academic Session 2018-2022 and onward

1. Alexanderson, G. 1967. *Geography of Manufacturing*, Prentice Hall, Publications Englewood Cliffs.
2. Altaf, Z. 1988. *Entrepreneurship in the Third World Risk and Uncertainty in Industry in Pakistan*, Croom Helm, Ltd. London.
3. Aziz, S. 1969. *Industrial Location Policy in Pakistan*, 1st edition; National Publishing House Ltd. Karachi.
4. Chapman, K. & Walker, D.F. 1991. *Industrial Location*, 2<sup>nd</sup> edition; Wiley Eastern Ltd. Oxford.
5. Emery, J.S. & Shaw, J.H. 1968. *Cities and Industries*, Milton, 1st edition; Jacaranda Press.
6. Hayter, R. 1962. *The Dynamics of Industrial Location*, John Wiley & Sons New York.
7. Miller, E.W 1962. *A Geography of Manufacturing*, Prentice Hall Publications Englewood Cliffs.
8. Smith & Phillips 1961. *Industrial and Commercial Geography*, 4<sup>th</sup> edition; Constable & Company, Ltd. London.
9. Smith, D.M. 1981. *Industrial Location*, 2<sup>nd</sup> edition, John Wiley & Sons New York.
10. United Nations 1962. *Industrial Districts – The Physical Planning of Industrial Estates*, Department of Economic and Social Affairs New York.
11. United Nations 1966. *Industrial Estates: Policies, Plans and Progress*, Department of Economic and Social Affairs New York.
12. Watts, H.D. 1987. *Industrial Geography*, 1st edition, Longman Scientific and Technical London.