



Seventh Semester B.E./B.Tech. Degree Examination, June/July 2026

Product Design and Ergonomics

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Briefly enumerate the ASIMOW Model in Product Design. (10 Marks)
- b. Explain the essential factors of the Product Design. (10 Marks)

OR

- 2 a. Explain with a neat sketch the Production Consumption Cycle with an example. (10 Marks)
- b. Describe the Morphology of design in seven phases. (10 Marks)

Module-2

- 3 a. Explain man machine systems depending upon size and complexity. (10 Marks)
- b. Briefly enumerate the workstation Design. (10 Marks)

OR

- 4 a. Define Anthropometry? Explain its importance for a Designer. (10 Marks)
- b. List and explain the advantages of Ergonomics in Automated Systems (10 Marks)

Module-3

- 5 a. Explain the:
 - i) Concept of Unity
 - ii) Concept of Order with Variety
 - iii) Concept of purpose(12 Marks)
- b. List and explain any Four components of style in Aesthetics. (08 Marks)

OR

- 6 a. Explain types of house style in Aesthetics. (10 Marks)
b. Define Aesthetics? Explain the advantages and Disadvantages. (10 Marks)

Module-4

- 7 a. Explain the Mechanics of seeing with the eye. (10 Marks)
b. Describe the general influences of line and form in seeing. (10 Marks)

OR

- 8 a. Explain the physiology of seeing in Ergonomics. (10 Marks)
b. List and explain the types of lines and form in Ergonomics. (10 Marks)

Module-5

- 9 a. Explain how technology can be used Ergonomics management. (10 Marks)
b. List and explain the benefit of Ergonomic safety. (10 Marks)

OR

- 10 a. Explain how the ergonomics can be used to improve the quality of life. (10 Marks)
b. Enumerate the advantages of using ergonomics in office systems. (10 Marks)
