

Syllabus for Mechanical Engineering (SCPH21)

Note:

- i. There will be one Question Paper which will have 100 questions.
- ii. All questions will be compulsory.
- iii. The Question Paper will have two Parts i.e. Part A and Part B
- iv. Part A will have 50 questions based on Research Methodology
- v. Part B will have 50 questions based on Subject-Specific Knowledge.

- ❖ **Research Methodology:** Experimental design; fundamentals of sampling; data types, quality measurement; processing and analysis of data; hypothesis testing (parametric, nonparametric), theory of probability.
- ❖ **Mechanical Engineering:** Engineering mathematics, Applied Mechanics and Design, Fluid Mechanics and Thermal Sciences, Materials, Manufacturing and Industrial Engineering