

# **Gujarat Technological University**

**M. Pharm.**

**Semester – III**

**Paper code -930001**

**Common Subject for all**

**Experimental Design and Patents**

**(Theory only)**

**(Four hours per week, 7 credits)**

**1. Experimentals Designs**

Introduction to full and fractional factorial designs, Central composite designs, Evolution of full and reduced mathematical models in experimental designs, Applications of the experimental designs for the subject mentioned under Pharmacoinformatics, Introduction to contour plots.

**2. Patents**

Definition, Need for patenting, Types of Patents, Condition to be satisfied by an invention to be patentable, Introduction to patent search, The essential elements of patents, Guidelines for preparations of laboratory notebook, non-obviousness in patents, Drafting of patent claims, important patent related websites.

**3. Brief introduction to trademark protection and WO patents,**

Introduction to “The Patents Act 1970” and “The Patents Rule 2003”, with special emphasis on the forms to be submitted along with a patent application.