

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **Syllabus for M. Arch - 2019**

### **SECOND SEMESTER**

#### **Subject: Post Occupancy Evaluation (Energy audit of buildings)**

**Course Code: X26105**

**Credits: 3**

**Course Objective:** Analysis and performance relationship between building design, energy use, occupant satisfaction, environmental impact, energy and ecology survey, day lighting and indoor air quality.

#### **Course Contents:**

A understanding of the conceptual frame works underlying different types of post occupancy evaluation that addresses specific organizational objectives or needs. Assessing existing buildings on their energy use, environmental impact and occupant satisfaction. Building performance bench marks – rating and comparison of buildings. Techniques, methods & procedures of Post Occupancy Evaluation. It also covers the user satisfaction survey identifying areas of deficiency particularly in maintenance, and facilitate the assessment of the overall performance of the building. Students are required to carry out post occupancy evaluation of a building and document the relationship between building design, energy use, occupant satisfaction, and environmental impact and report their observations.

#### **References:**

1. Wolfgang Preiser & Edlaine Ostroff “Universal Design Handbook”, McGraw Hill, 2001.
2. Robert B. Bechtel and Arza Churchman “Handbook of Environmental Psychology”, John Wiley & Sons Inc., New York 2002.
3. James Douglas “Building Adaptation”, Elsevier, Oxford 2002.