

**RCETEEAC09– DEMAND SIDE MANAGEMENT****Course outcomes:**

The students will be able to:

- Understand the criticality in utilizing energy with respect to its availability
- Have a better calculation over the avoidance of peak demand requirement
- Possibly buy appliances pertaining to energy conservation aspects
- Provide a better solution to the utility grid indirectly by the way proper demand utilization.

**Syllabus:****UNIT 1**

Introduction – Need for DSM – Types of DSM – Parameters characterising DSM potential – Production capacity and electricity demand – Production characteristics/Load pattern - Residential sector – Industrial sector – Large scale – Small & Medium enterprises – Energy conservation awareness program

**UNIT 2**

Industrial energy use – Impacts on energy use – cost category – potential category – DSM schemes of India – large scale – medium scale – small scale industries – equipment and appliances.

**UNIT 3**

Commercial energy use – energy conservation building code and energy efficiency in existing buildings – Residential energy use – Bachat Lamp Yojana – Agriculture DSM – Municipal DSM – Energy efficiency in urban local bodies, water pumping.