SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35

Accredited by NBA-AICTE and Accredited by NAAC – UGC with A+ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

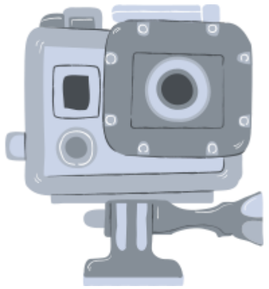
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME: 19EEE308 SMART GRID

III YEAR VI SEMESTER

Unit 1 –OVERVIEW OF SMART GRID

Topic : CONCEPT OF RESILIENCE



CONCEPT OF RESILIENCE

RESILIENCE :

- The capability of a strained body to recover its size and shape after deformation caused especially by compressive stress
- An ability to recover from or adjust easily to misfortune or change

CONCEPT OF RESILIENCE

- Resilience is the property of a material to absorb energy when it is deformed elastically and then, upon unloading to have this energy recovered. In other words, it is the maximum energy per volume that can be elastically stored. It is represented by the area under the curve in the elastic region in the Stress-Strain diagram.
- A resilient electric grid begins with
  1. A system that is designed and built to withstand high winds, powerful storms,
  2. Cybersecurity threats and
  3. Other disruptions that could result in outages

Thank You!