SNS COLLEGE OF TECHNOLOGY

Coimbatore-35.
An Autonomous Institution

COURSE NAME : Internet of Things

III YEAR/ V SEMESTER

UNIT – IV IPv6 TECHNOLOGIES FOR THE IoT
Topic: *Overview and Motivations*

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Internet Protocol Version 6 (IPv6)

- network layer protocol
- improved internetworking capabilities
- routing and network configuration
- plug-and-play
  - Scalability and expanded addressing capabilities
  - Virtual Private Network (VPN
  - Optimized protocol
  - Mobility
  - Extensibility

Why IP

packet-based technology

connecting computers

Challenges of IPV4

emerging demands for address space cardinality, high-density mobility,
multimedia, strong security

Technologies

voice over IP

always-on access

Broadband and/or ethernet-to-the-home

converged networks, evolving ubiquitous computing applications,

IoT may well become the "killer- app" for IPv6.