



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: *IPsec in IPV6*

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IPsec in IPV6

IPsec provides network-level security where the application data is encapsulated within the IPv6 packet

set of two protocols

ESP, which provides integrity and confidentiality and

AH, which provides integrity

“**Tunnel mode**”—The protocol is applied to the entire IP packet. This method is needed to ensure security over the entire packet, where a new IPv6 header and an AH or ESP header are wrapped around the original IP packet.

“**Transport mode**”—The protocol is just applied to the transport layer (i.e., TCP, UDP, ICMP) in the form of an IPv6 header and AH or ESP header, followed by the transport protocol data (header, data).

