



# SNS COLLEGE OF TECHNOLOGY

Coimbatore-37.

An Autonomous Institution



**COURSE CODE & NAME : 23CSB302 & COMPUTER NETWORKS**

**Topic: Protocols and Standards**

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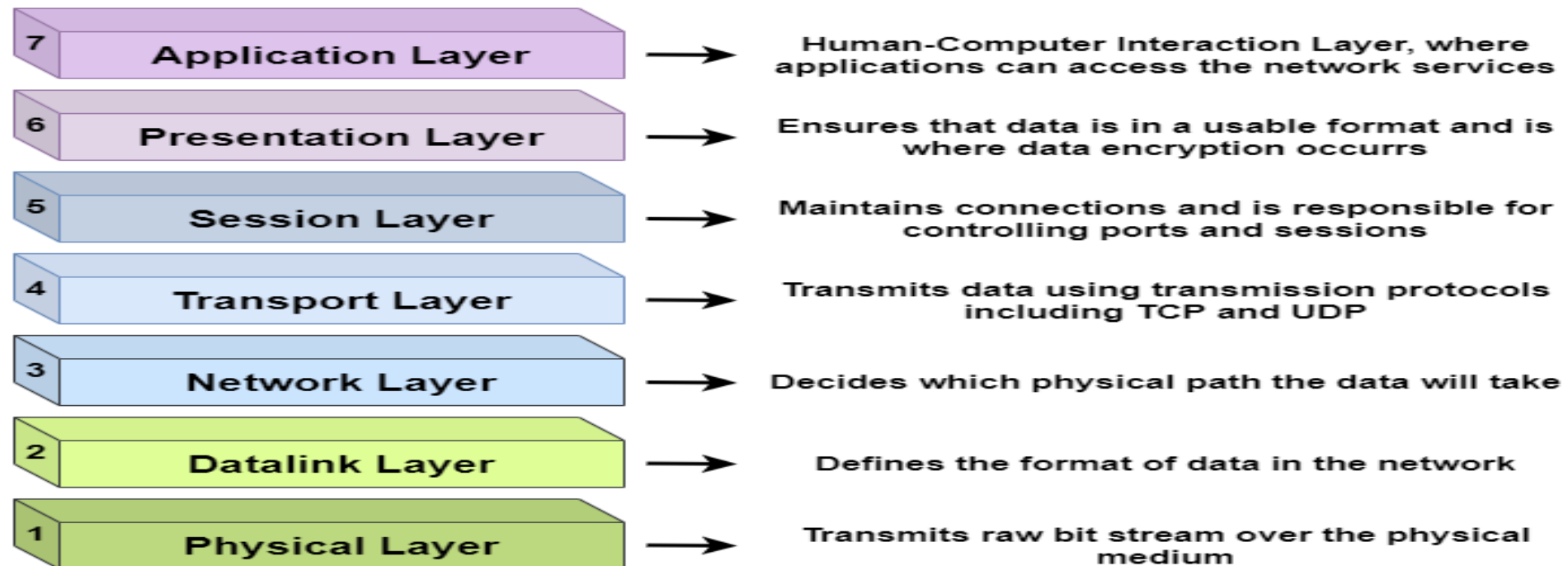
Department of Computer Science and Engineering

23CSB302 & COMPUTER NETWORKS/ CSE/SNSCT



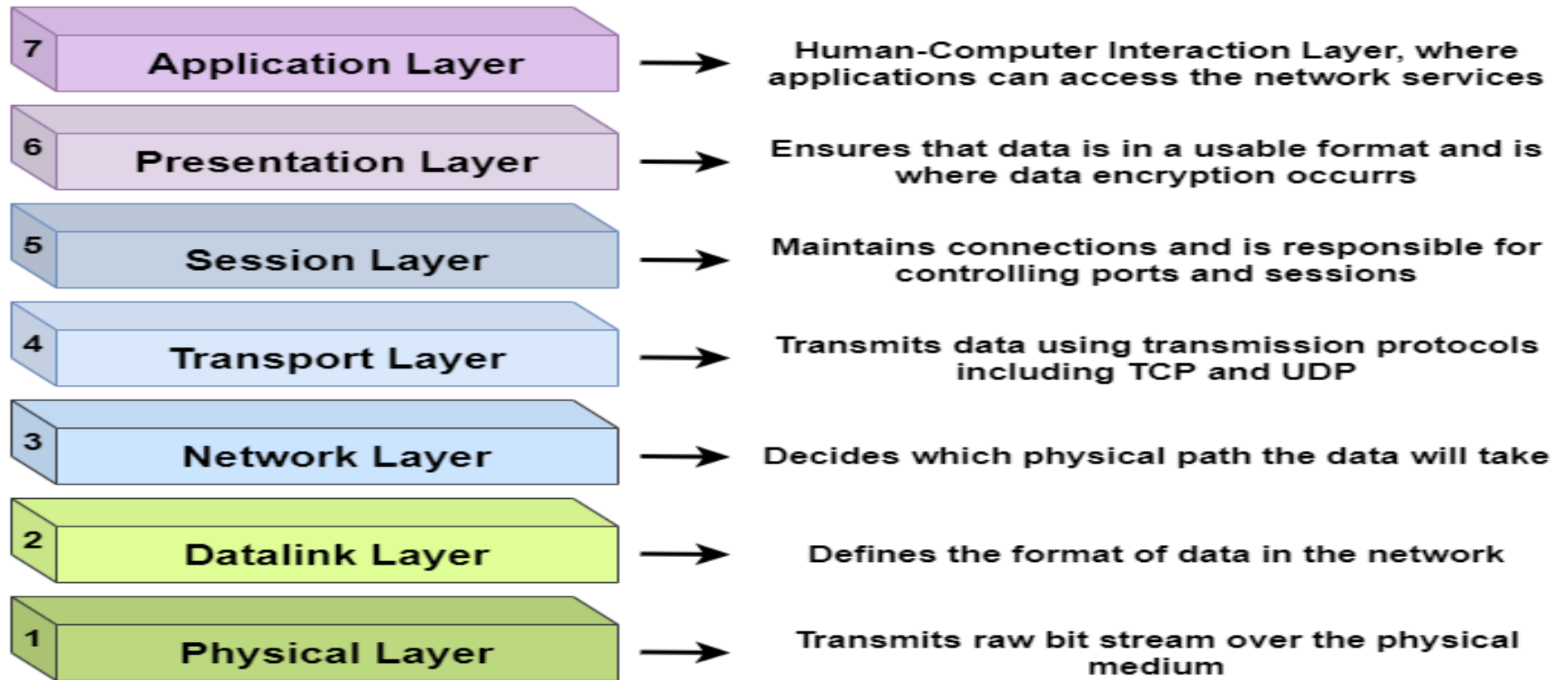
# Protocols and Standards

- Open Systems Interconnection – 7 Layers



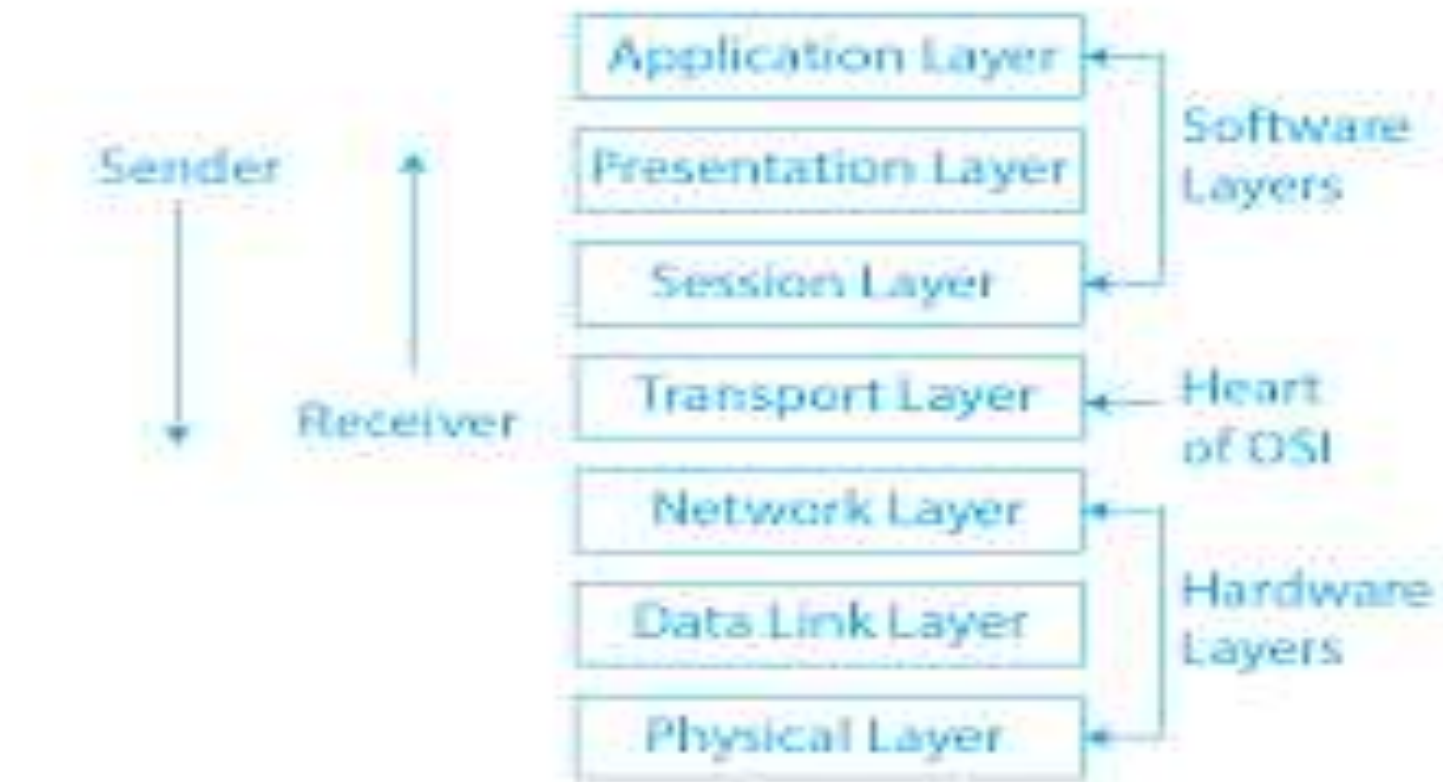


# Protocols and Standards





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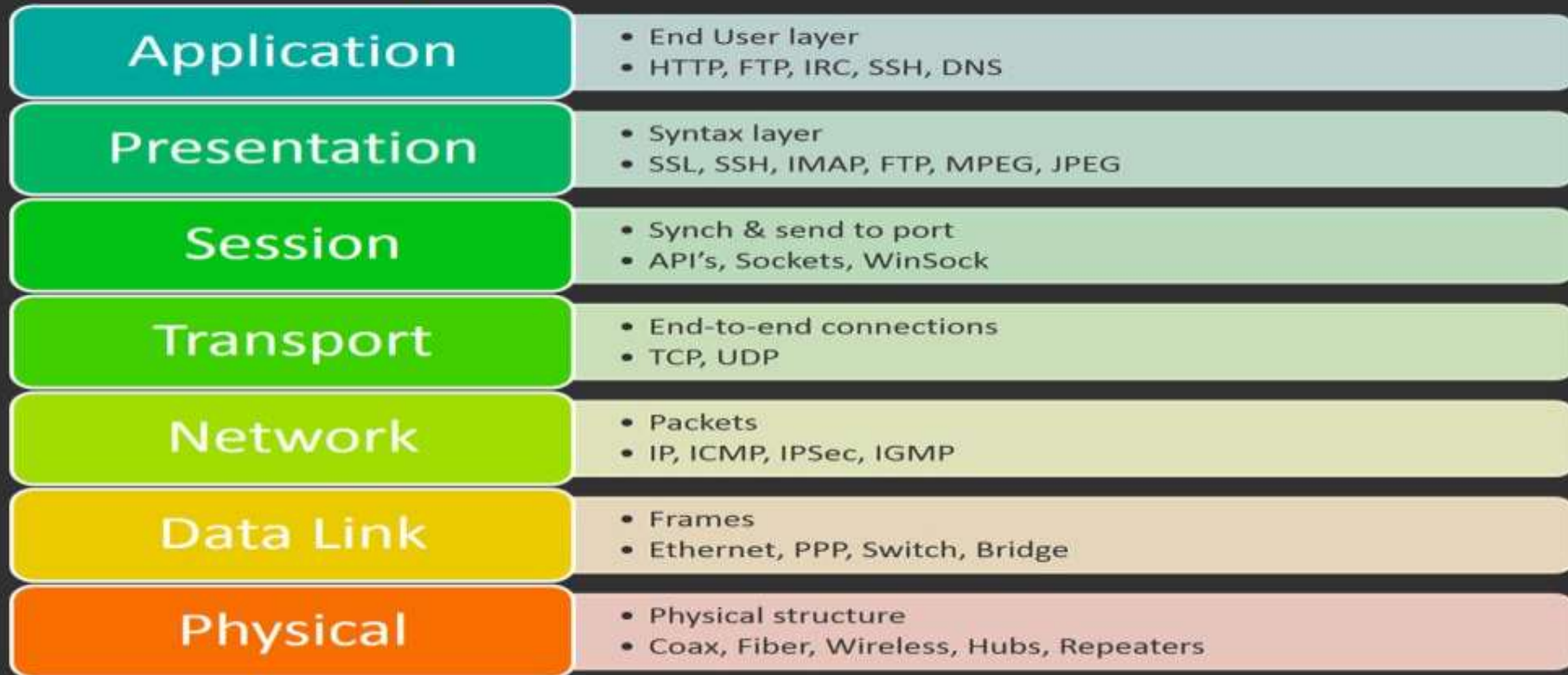
## OSI model

Layer	Name	Example protocols
7	Application Layer	HTTP, FTP, DNS, SNMP, Telnet
6	Presentation Layer	SSL, TLS
5	Session Layer	NetBIOS, PPTP
4	Transport Layer	TCP, UDP
3	Network Layer	IP, ARP, ICMP, IPsec
2	Data Link Layer	PPP, ATM, Ethernet
1	Physical Layer	Ethernet, USB, Bluetooth, IEEE802.11



# Protocols and Standards

## 7 Layers of the OSI Model





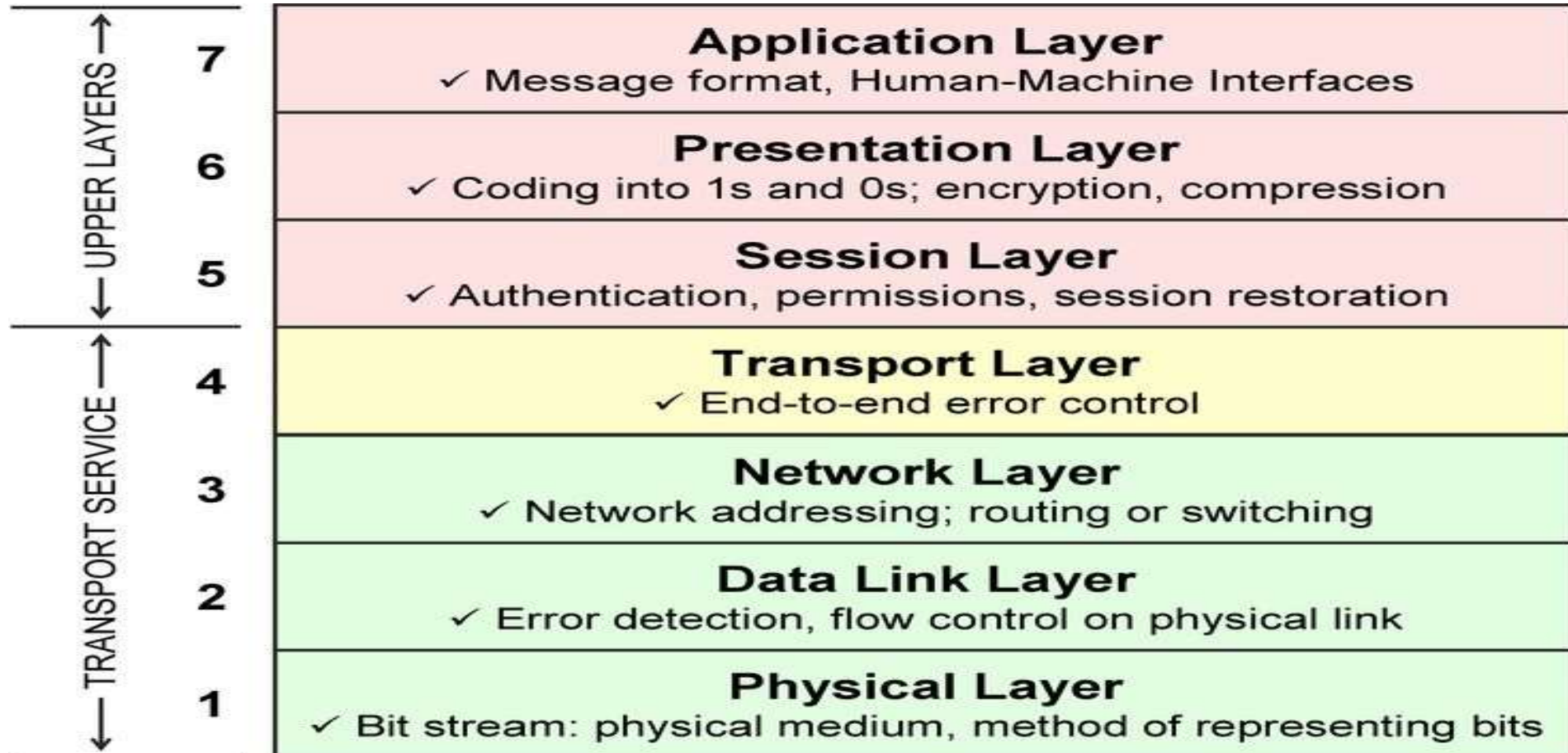


# Protocols and Standards

07	<b>Application Layer</b>	Provide user interface where applications can access the network services.
06	<b>Presentation Layer</b>	Ensure that Data is in usable format and perform encryption & decryption.
05	<b>Session Layer</b>	Maintains connection between two host & responsible for controlling ports and sessions.
04	<b>Transport Layer</b>	Transmits data using transmission protocols including TCP & UDP.
03	<b>Network Layer</b>	Moves packets from source to destination to provide internetworking.
02	<b>Data Link Layer</b>	Responsible for the error-free transfer of data frames.
01	<b>Physical Layer</b>	Provides physical medium through which bits are transmitted.



# Protocols and Standards







THANK YOU