

SILABUS PILIHAN TEKNIK KOMPUTER

Mata Kuliah	:	Jaringan Komputer
Kode	:	E113919
Silabus	:	OSI 7 and TCP/IP layer models, Circuit and Packet Switching, Medium Access Control, Error Control Techniques (ARQ), Routing and Dijkstra's Algorithm, flow/congestion control, IEEE 802.11 (WLAN), Bluetooth, Wireless Sensor Network (WSN).
Luaran	:	Understand the basics of the TCP/IP layer model, as well as the OSI 7 layer model, Explain tasks of every layer in TCP/IP model, Understand the difference between circuit and packet switching, Be able to analyze different MAC mechanisms (Aloha, Slotted Aloha, TDMA, FDMA) and understand their pros and cons, Learn the differences between random access and scheduled MAC mechanisms, Understand how error control is implemented in telecommunication networks, Mathematically model various error control schemes, Understand the difference between link state and distance vector routing, Learn to carry out Dijkstra's shortest path algorithm in a given network, Tell how IEEE 802.11a networks function, and how they differ from 802.11b networks, List the advantages and disadvantages of an IEEE 802.11g network, Compare low-speed and high-speed WLANs, Explain basic and enhanced WLAN security features, Understand the bluetooth architecture for several applications, Explain the tasks of every bluetooth layer, Learn WSN network design, Learn appropriate data dissemination protocols and model links cost, Learn suitable medium access protocols and radio hardware
Syarat/ PraSyarat Lain	MK	:
Alokasi	:	16 kali pertemuan
Sumber Pustaka	:	