

## SATUAN ACARA PERKULIAHAN UNIVERSITAS GUNADARMA

Mata Kuliah : Jaringan Komputer Dasar  
 Kode / SKS : IT012359 / 3 SKS  
 Program Studi : Sistem Komputer  
 Fakultas : Ilmu Komputer & Teknologi Informasi

Minggu ke	Pokok Bahasan Dan Tujuan Instruksional Umum (TIU)	Sub Pokok Bahasan Dan Tujuan Instruksional Khusus (TIK)	Metode/Teknik Pembelajaran	Media Pengajaran	Tugas	Referensi
1	Pendahuluan	<ul style="list-style-type: none"> <li>- Ruang Lingkup Mata Kuliah</li> <li>- Apa itu jaringan computer</li> <li>- Pengguna jaringan computer               <ul style="list-style-type: none"> <li>- Business application</li> <li>- Home application</li> <li>- Mobile users</li> </ul> </li> </ul>	1.	<ul style="list-style-type: none"> <li>- Papan tulis</li> <li>- Computer Projector (slide-ppt)</li> </ul>		
2	Dasar networking Model-model referensi	<ul style="list-style-type: none"> <li>- Struktur Jaringan</li> <li>- Tipe Jaringan</li> <li>- Protokol</li> <li>- Model referensi OSI</li> <li>- Model referensi TCP/IP</li> </ul>	<ul style="list-style-type: none"> <li>- Kuliah mimbar</li> <li>- Diskusi</li> </ul>	<ul style="list-style-type: none"> <li>- Papan tulis</li> <li>- Overhead projector, transparansi</li> </ul>		
3	Physical Layer	<ul style="list-style-type: none"> <li>- Pengertian Physical layer</li> <li>- Media</li> <li>- Data rate dan bandwidth</li> </ul>	<ul style="list-style-type: none"> <li>- Kuliah mimbar</li> <li>- Diskusi</li> </ul>	-		
4,5	Data link layer	<ul style="list-style-type: none"> <li>- Pengertian Data link layer</li> <li>- Media transmisi data               <ul style="list-style-type: none"> <li>- Ethernet</li> <li>- Modem</li> <li>- Acces Point</li> </ul> </li> <li>- Flow control</li> <li>- Pendeteksi dan koreksi kesalahan</li> </ul>	<ul style="list-style-type: none"> <li>- Kuliah mimbar</li> <li>- Diskusi</li> </ul>	<ul style="list-style-type: none"> <li>- Papan tulis</li> <li>- Overhead projector, transparansi</li> </ul>		

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6	Medium Access Control	<ul style="list-style-type: none"> <li>- Pengertian Medium Access control</li> <li>- Channel allocation LAN</li> <li>- Multiple access protokol</li> </ul>	<ul style="list-style-type: none"> <li>- Kuliah mimbar</li> <li>- Diskusi</li> </ul>	<ul style="list-style-type: none"> <li>- Papan tulis</li> <li>- Overhead projector, transpara nsi</li> </ul>		
7	Network Layer	<ul style="list-style-type: none"> <li>- Pengertian Network layer</li> <li>- Addressing                             <ul style="list-style-type: none"> <li>- Fisik</li> <li>- Logic</li> <li>- Port</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Kuliah mimbar</li> <li>- Diskusi</li> </ul>	<ul style="list-style-type: none"> <li>- Papan tulis</li> <li>- Overhead projector, transpara nsi</li> </ul>		
8	Transport Layer	<ul style="list-style-type: none"> <li>- Pengertian transport layer</li> <li>- Aplikasi dan operasi pada TCP dan UDP</li> </ul>	<ul style="list-style-type: none"> <li>- Kuliah mimbar</li> <li>- Diskusi</li> </ul>	<ul style="list-style-type: none"> <li>- Papan tulis</li> <li>- Overhead projector, transpara nsi</li> </ul>		
9	Application Layer	<ul style="list-style-type: none"> <li>- Pengertian Application layer</li> <li>- Service application layer (HTTP, DNS, SMTP)</li> </ul>	<ul style="list-style-type: none"> <li>- Kuliah mimbar</li> <li>- Diskusi</li> </ul>	<ul style="list-style-type: none"> <li>- Papan tulis</li> <li>- Overhead projector, transpara nsi</li> </ul>		
10	Routing	<ul style="list-style-type: none"> <li>- Pengertian routing</li> <li>- Static routing protokol</li> <li>- Dynamic routing protocol</li> </ul>	<ul style="list-style-type: none"> <li>- Kuliah mimbar</li> <li>- Diskusi</li> </ul>	<ul style="list-style-type: none"> <li>- Papan tulis</li> <li>- Overhead projector, transpara nsi</li> </ul>		

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11	Wireless Network	<ul style="list-style-type: none"><li>- Celluler wireless network</li><li>- AMPS</li><li>- CDMA</li><li>- GSM</li></ul>	<ul style="list-style-type: none"><li>- Kuliah mimbar</li><li>- Diskusi</li></ul>	<ul style="list-style-type: none"><li>- Papan tulis</li><li>- Overhead projector, transpara nsi</li></ul>		
12	Wireless LAN	<ul style="list-style-type: none"><li>- Pengertian Wireless LAN</li><li>- Teknologi wireless</li></ul>	<ul style="list-style-type: none"><li>- Kuliah mimbar</li><li>- Diskusi</li></ul>	<ul style="list-style-type: none"><li>- Papan tulis</li><li>- Overhead projector, transpara nsi</li></ul>		

### Referensi :

1. Tanenbaum Andrew, **Computer Network 4<sup>th</sup> Ed.**, Prentice Hall, 2002
2. Halsall, Fred, **Comptuer Networking and the Internet**, Addison Wesley, 2005