Course Code	CSE233		
Course Name	Network Administration		
Credits	2		
Course Offered to	ue		
	This course is intended for second year B.Tech students, who wish to improve skills through hands-on experience in network administration. This course is a follow up of the course on System Administration. Students', who successfully complete these courses, will be offered part-time work for System and Network Admin in the		
Course Description Institute and will be expected to work for at least two semesters.			
	Pre-requisites		
Pre-requisite (Mandatory)	Pre-requisite (Desirable)	Pre-requisite(other)	
		CSE230	
*Please insert more rows if required			
Post Conditions*(For suggestions on verbs please refer the second sheet)			
CO1	CO2	CO3	CO4
Students are able to read design document of	Students can de basis estus of authors and ADs for an automica	Students can understand ID addressing	
enterprise-level network	Students can do basic setup of switches and APs for an enterprise	Students can understand IP addressing	
Weekly Lecture Plan			
Week Number	Lecture Topic	COs Met	Assignment/Labs/Tutorial
1	Introduction to Computer Networks: OSI & TCP/IP Model	1004	A (O b)
2	Physical Media: UTP, Fiber and Wireless Media	CO1	Assignment (8 hours)
3	LAN Architecture: 10/100/1000/10G Ethernet Switching & Routing: Layer 2 & Layer 3 switching; Routing; VLAN; Cisco L2		
4	and L3 Switch Configuration		Assignment (8 hours)
5	IP Addressing: IPv4 Addressing and Sub-netting; DHCP Configuration; IPv6	CO3	
6	Wireless LAN: 802.11 a/b/g/n/ac WiFi; Access Point and Wireless Router configuration		Assignment (8 hours)
7	Internet Architecture: ISP Architecture; DNS Resolution; BGP Routing; Content Mirroring		
В	Internet Applications: DNS; Web; Mail; Proxy; NTP		Assignment (8 hours)
9	Perimeter Security: Firewall; UTM		
10	Network Security: LAN and WLAN Security issues; IP Spoofing; Dictionary Attack; DoS and DDoS Attack; Rogue/Misconfigured/External APs	CO2	Assignment (8 hours)
11	Network Troubleshooting: ping, traceroute, nslookup, dig, tcpdump		
12	Network Monitoring: SNMP; MRTG		Assignment (8 hours)
13	Project discussions		
*Please insert more rows if required			
	Weekly Lab Plan		
Week Number	Laboratory Exercise	COs Met	Platform (Hardware/Software)
PDI	<u> </u>	1	l
*Please insert more rows if required	A		
Time of Evoluation	Assessment Plan		
Type of Evaluation	% Contribution in Grade		
Assignment Mid.com	30		
Mid-sem	15		
End-sem Project	15 40		
Project *Please insert more row for other type of Eval			
Please insert more row for other type of evaluation Resource Material			
Туре	Title		
Textbook	Title		
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