



G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade | Accredited
by NBA (CSE, ECE & EEE) | Affiliated to JNTUA) Nandikotkur Road,
Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

DEPARTMENT OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE ENGINEERING

DATE: 12-03-2023

TO

The principal,
GPCET,
Kurnool.

Sir,

Sub: Approval of ADD-ON course for II and III CAI Students-Regd

The II year-II Semester and III year-II Semester CAI Students requests you to accept the proposal for conducting ADD-ON Course on "**CISCO NETWORK ADMINISTRATION**" for the even semester of II-year II Semester and III-year II Semester CAI students scheduled for the duration of 48 classes. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

P. SUMAN PRAKASH
HOD-CAI

PRINCIPAL

G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)



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DEPARTMENT OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE ENGINEERING

Department Circular –ADD-ON Course

DATE: 12-03-2023

The II year-II Semester and III year-I Semester CAI students are informed to enroll their names for the ADD-ON Course on “**CISCO NETWORK ADMINISTRATION**” with their respective class-in-charges on or before 13-03-2023. The course commences from 13th March and the duration of the course is 48 classes. The course is conducted from 4 pm to 5 pm regularly.

The bus facility is made available soon after the class work.


P. SUMAN PRAKASH
HOD-CAI SYLLABUS

FOR ADD-ON COURSE ON AMAZON WEB SERVICES

DAY	TOPICS
1	Fundamentals of Data Communication and Networking Technologies
2	Introduction
3	Physical Layer
4	Digital Transmission

5	Multiplexing
6	Spread Spectrum
7	Transmission Media
8	Advanced Networking Technologies and Protocols
9	Data Link Layer
10	Data Link Control & Protocol
11	Multiple Access
12	Wired LAN
13	Wireless LAN
14	Advanced Networking Protocols and Services
15	Network layer protocol
16	Routing Protocols
17	Transport Layer
18	Congestion Control & Quality of Service
19	Application Layer
20	Fundamentals of System and Network Security
21	Introduction
22	Cryptography
23	Network Security
24	Firewall and Intrusion Detection
25	Malicious software and Internet Security

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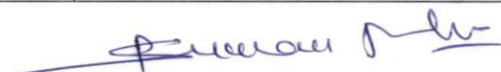
G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

ADDON COURSE SCHEDULE

Date: 13-03-2023

II & III YEAR – I Semester		
Course	Faculty	Duration
introduction	P. Suman Prakash	2 hours
Physical layer	P. Suman Prakash	2 hours
Digital Transmission	P. Suman Prakash	2 hours
Multiplexing	P. Suman Prakash	3 hours
Spread Spectrum	P. Suman Prakash	2 hours
Transmission Media	P. Suman Prakash	2 hours
Data Link Layer	P. Suman Prakash	1 hour
Data Link Control & Protocol	P. Suman Prakash	2 hours
Multiple Access	P. Suman Prakash	2 hours
Wired LAN	P. Suman Prakash	2 hours
Wireless LAN	P. Suman Prakash	2 hours
Network layer protocol	P. Suman Prakash	2 hours
Routing Protocols	P. Suman Prakash	1 hour
Transport Layer	P. Suman Prakash	2 hours
Congestion Control & Quality of Service	P. Suman Prakash	2 hours
Application Layer	P. Suman Prakash	2 hours
Cryptography	P. Suman Prakash	2 hours
Network Security	P. Suman Prakash	2 hours



Firewall and Intrusion Detection	P. Suman Prakash	2 hours
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Malicious software and Internet Security	P. Suman Prakash	2 hours
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**G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT
OF AI**

III B.TECH II SEM

S.NO	STUDENT ROLLNO	STUDENT NAME
1	20AT1A3101	SHAIK MOHAMMAD AFZAL
2	20AT1A3102	SHAIK MD AFZAN AQEEB
3	20AT1A3103	G.AMBIKA
4	20AT1A3104	MOHAMMED AQEEL
5	20AT1A3105	N SAI KIRAN REDDY
6	20AT1A3106	SHAIK MALLIHA ASRA
7	20AT1A3107	DAMAL BHARATH KUMAR
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13	20AT1A3114	DASARI GANESH
14	20AT1A3115	J GIDDAIAH
15	20AT1A3116	LINGAMSETTY GOPISREE

P. Suman Prakash

16	20AT1A3117	G IRFAN BASHA
17	20AT1A3118	N.JASHWANTH KUMAR
18	20AT1A3119	MEEGADA JOSHUA
19	20AT1A3120	V.KARTHIK REDDY

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38	20AT1A3139	Komanduri Greeshma Radheetha
39	20AT1A3140	G HARI PRASAD
40	20AT1A3141	DUDEKULA SADHAF
41	20AT1A3142	BUDDIGA LALITH SAI AMRUTH
42	20AT1A3143	AMARAVAI GOKULA SAI BHARGAVA GOUD

P. Umadevi P. U.

43	20AT1A3144	BOYA SAI KEERTHANA
44	20AT1A3145	P SAI KUMAR
45	20AT1A3146	LAKKI REDDY SAI SHIVANI
46	20AT1A3147	SEPURI SAI SOWMYA
47	20AT1A3148	M.SAKETH DATTA
48	20AT1A3149	Shameemunnisa Mohammed
49	20AT1A3150	G.SHANMUKHASAI SREENIVAS
50	20AT1A3151	MARUPURI SHARON

**G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT
OF AI
II B.TECH II SEM**

21AT1A3122	BOYA ESWAR
21AT1A3123	C A HARSHAVARDHAN
21AT1A3124	CHAKKA CHENNA JAYA DEEPTHI
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21AT1A3158	KUNDAWARAM KIRAN PAUL
21AT1A3159	KURUVA INDU
21AT1A3160	KURUVA KARTHIKEYA PRASAD

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21AT1A3161	LAKKIREDDY SAI HARSHA LEKHA
21AT1A3168	MATAM BASAVA LINGA SWAMY
21AT1A3169	M KRISHNA KUMARI
21AT1A3192	SHARAGONDA KAVYANJALI
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21AT1A3189	SHAIK BATTI ATHIYA SULTANA
21AT1A3190	S PRASHANTHI
21AT1A3191	S CHARAN KUMAR
21AT1A3110	B VENKATA SAI
21AT1A3111	B VINAY



21AT1A3112	BISWAL SUMAN
21AT1A3113	BANDA JITHENDRA
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Cisco Network Administration

Objective Exam

1. The OSI model consists of how many layers? A Error! Bookmark not defined.
 B 9
 C 9
 D 9

2. Which layer of the OSI model is responsible for physical transmission of data?
 A. Data Link Layer
 B. Network Layer
 C. Physical Layer
 D. Transport Layer

3. Which line coding technique uses three voltage levels for signal representation?
 A. Unipolar
 B. Bipolar
 C. Polar
 D. Manchester

4. What is the purpose of block coding in digital transmission?

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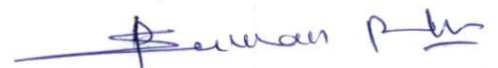
- A. To reduce data rate
 - B. To improve error detection
 - C. To encode data into blocks
 - D. To synchronize transmission
5. What is the function of CRC in error detection?
- A. Error correction B. Error detection
 - C. Data encryption
 - D. Data compression
6. Which ARQ technique requires the sender to wait for acknowledgment before sending the next frame?
- A. Stop-N-Wait
 - B. Go back N
 - C. Selective repeat
 - D. Sliding Window
7. Which protocol is commonly used for serial communication between devices?
- A. PPP
 - B. HDLC
 - C. FTP
 - D. SMTP
8. What is the purpose of a firewall in network security?
- A. To detect and remove viruses
 - B. To encrypt data transmission
 - C. To monitor and control network traffic
 - D. To establish secure VPN connections
9. Which type of attack floods a network with excessive traffic, rendering it unavailable to users?
- A. Virus attack
 - B. Denial of Service (DoS) attack
 - C. Man-in-the-middle attack
 - D. Spoofing attack
10. Which cryptographic system uses the same key for encryption and decryption?
- A. Symmetric-key cryptography

Ruman P. H.

- B. Asymmetric-key cryptography
 - C. RSA cryptography
 - D. DES cryptography
11. What protocol is used for secure email communication?
- A. SMTP
 - B. PGP
 - C. HTTP
 - D. FTP
12. What is the purpose of ARP in network communication?
- A. To map IP addresses to MAC addresses
 - B. To encrypt data packets
 - C. To establish VPN connections
 - D. To control network traffic
13. Which routing protocol is commonly used within autonomous systems?
- A. RIP
 - B. OSPF
 - C. BGP
 - D. ICMP
14. What is the primary function of the transport layer?
- A. To transmit data over physical media
 - B. To ensure error-free transmission
 - C. To establish end-to-end communication
 - D. To encrypt data packets
15. Which layer of the OSI model is responsible for logical addressing?
- A. Physical Layer
 - B. Data Link Layer
 - C. Network Layer
 - D. Transport Layer
16. Which technique is used for managing congestion in network traffic?
- A. Open Loop Control
 - B. Closed Loop Control
 - C. Feedback Control
 - D. Feedforward Control



17. What service does DNS provide in networking?
- A. Secure data transmission
 - B. Remote login
 - C. Name resolution
 - D. File transfer
18. What is the primary purpose of a VLAN?
- A. To connect multiple LANs
 - B. To increase network speed
 - C. To enhance network security
 - D. To reduce network congestion
19. Which addressing scheme does IPv6 use?
- A. Classful addressing
 - B. Classless addressing
 - C. NAT addressing
 - D. Subnet addressing
20. What cryptographic system uses a pair of keys for encryption and decryption?
- A. Symmetric-key cryptography
 - B. Asymmetric-key cryptography
 - C. DES cryptography
 - D. AES cryptography
21. What is the purpose of SSL and TLS protocols?
- A. To secure email communication
 - B. To secure web communication
 - C. To secure file transfer
 - D. To secure remote login
22. What intrusion detection system detects unusual activities based on predefined rules?
- A. Host-based IDS
 - B. Network-based IDS
 - C. Distributed IDS
 - D. Centralized IDS
23. Which layer of the OSI model is responsible for data encryption and decryption?
- A. Data Link Layer

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- B. Network Layer
- C. Transport Layer
- D. Application Layer

24. Which LAN technology is commonly used for wireless communication?

- A. Ethernet
- B. Token Ring
- C. WLAN
- D. FDDI

25. What is the primary purpose of a DHCP server?

- A. To assign IP addresses dynamically
- B. To route network traffic
- C. To encrypt data transmission
- D. To filter network traffic

~~P. man P. hu~~

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