

## **DEPARTMENT OF NETWORKING**

### **B.Sc., NETWORKING - NW1009**

#### **VISION**

To offer rewarding learning experiences in the field of Networking Technologies with ethical values for the development of the community.

#### **MISSION**

- DM1:** To produce qualified technical personnel who are capable of advancing in the field of Information and Networking Technologies
- DM2:** To Educate the student with ethical values for fulfilling the needs of the Networking Profession
- DM3:** To monitor cloud and networking applications that satisfies the societal needs.

## **1. PROGRAM EDUCATIONAL OBJECTIVES (PEOS)**

Our graduates will be

**PEO1:** Highly qualified in the field of Computer network technology through an innovative Curricula and teaching methods to meet the research and industry needs.

**PEO2:** Able to gain practical exposure in the field of Networking Technologies to be meet the employment ready.

**PEO3:** Able to Formulate moral and ethical values among the customers to maintain mutual relationships.

**PEO4:** Adapt in expanding their knowledge to become entrepreneurs.

## 2. PROGRAM OUTCOMES (POS)

The graduates will be able to

**PO1 Disciplinary knowledge:** Apply the subject knowledge gained in the curriculum to inculcate the core discipline of Networking and Mathematics.

**PO2 Communication Skills:** Articulate the concepts of oral and written communication in their workplace.

**PO3 Critical thinking:** Critically analyze information technology infrastructure policies and Practices.

**PO4 Problem solving:** Apply the competencies gained to solve real world problems in the information and communication sectors.

**PO5 Analytical reasoning:** Evaluate the networking infrastructure devices and provide reliable solutions to meet the industrial needs.

**PO6 Research-related skills:** Gain Hands-on experiences from Networking and Information technology based companies.

**PO7 Cooperation/Team work:** Develop the attitude to work in a team with their peers in the real-time scenarios.

**PO8 Scientific reasoning:** Examine complex scientific software problems in Cloud Computing & Cyber Security and solve them through Software tools.

**PO9 Reflective thinking:** Prepare themselves and sharpen their skills not only in a conceptual way but also in a practical way by implementing them in real time scenarios.

**PO10 Information/digital literacy:** Demonstrate the knowledge by utilizing modern simulation tools of networking technologies.

**PO11 Self-directed learning:** Identify appropriate networking resources required for Industrial Projects by exhibiting their competency independently.

**PO12 Not Applicable**

**PO13 Moral and ethical awareness/reasoning:** Acquire ethics and professional understanding by motivating students to become good citizens.

**PO14 Leadership readiness/qualities:** Use managerial skills to guide the people in a smooth and efficient way to reach the right destination.

**PO15 Lifelong learning:** Acquire knowledge and skills by updating new technologies and industry practices through continuous learning process

### **3. PROGRAM SPECIFIC OUTCOMES (PSOS)**

The graduates will be

**PSO1 :** Competent Network Cloud Engineers who render expertise for industrial and societal needs.

**PSO2 :** Sustained learners adapted to societal change for improved career opportunities in cloud and networking companies, academics and entrepreneurial endeavors.

**PSO3 :** Enrich software engineering and Computer programming skill.

**PSO4 :** Work as Team leaders / Team Members who are ethically committed to the networking profession.

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## COURSE OUTCOMES

Course Code and Course Name	Course Outcomes At the end of this course the students will be able to
<b>22UT101 - பொதுத்தமிழ்- I</b>	<p>CO 1: மரபுக்கவிதைகளின்வாயிலாகஎளியசொற்பதங்களைப்பயன்படுத்திவாழ்வியல்நிகழ்வுகளைஅறியச்செய்தல்.</p> <p>CO 2: இக்காலகவிதைகளின்வாயிலாகஎளியசொற்பதங்களைப்பயன்படுத்திவாழ்வியல்நிகழ்வுகளைஅறியச்செய்தல்.</p> <p>CO 3: சிறுகதைகளின்வாயிலாகசமூகம்சார்ந்தசிந்தனைகள்வலியுறுத்துதல்.</p> <p>CO 4: மொழிப்பிழைகளைக்கண்டறிந்துநீக்கும்வழிமுறைகளைச்சான்றுடன்பயிற்றுவித்தல்.</p> <p>CO1: படைப்பிலக்கியசிந்தனையையும், கற்பனைஆற்றலையும்வளர்த்தல்.</p>
<b>22UH101 - Hindi I</b>	<p>CO 5: Illustrate the proper usage of Hindi in writing and speaking.</p> <p>CO 6: Recognize the language through some short stories.</p> <p>CO 7: Apply the basics of grammar for effective communication.</p> <p>CO 8: Improve the skill of reading and understanding passages.</p> <p>CO 9: Enhance and enrich the vocabulary of the students.</p>
<b>22UF101 - French Language, Culture and Civilisation– I</b>	<p>CO1: Use basic words and express themselves in French.</p> <p>CO2: Acquire a good knowledge of the French Culture &amp; Civilization.</p> <p>CO3: Acquainted with a basic knowledge of French Grammar.</p> <p>CO4: Apply the language skills for personal communication</p> <p>CO5: Describe persons and their characters, and also excel in telephonic conversation.</p>

<b>22UCE102 - Communicative English I</b>	CO1: Develop the basics knowledge of grammar for effective communication. CO2: Enhance the purposeful reading and inculcate the ability of using e- resources CO3: Enable the writing ability through reading by learning of verbs & infinitives. CO4: Imbibe the skills of narrative writing through the learning of Tenses. CO5: Absorb skills in writing and understanding maps, graphs and pie charts and presenting through Voices.
<b>22BN103- Principles of Networks</b>	CO1: Identify the network components and topology CO2: Classify the networking cables and connectors to develop relevant network. CO3: Demonstrate networking devices and its applications CO4: Experiment with internet protocol and analyze IP address problems CO5: Analyze network threats and preventive measures to prevent the network
<b>22BN104- PC Assembling &amp; Maintenance</b>	CO1: Identify Components of Personal Computer and make use of it to assemble a PC. CO2: Demonstrate functions of RAM, ROM and CMOS to improve efficiency of PC. CO3: Describe concepts of Extension bus, motherboard and Power supplies to evaluate the reliability. CO4: Illustrate technologies of Hard disk drives of Client and Server Computers CO5: Experiment with PC to Internet connectivity and Securing computers form attacks
<b>22BN106 P- PC Assembling &amp; Maintenance Lab</b>	CO1: Practice PC Assembling with Hardware components. CO2: Change the CMOS setup configurations CO3: Simulate and Practice OS, Drivers and Applications CO4: Experiment the cable crimping, LAN Setup Configuration CO5: Examine fault finding in the PC and solve the

<p><b>22MF105- Mathematical Foundation</b></p>	<p>CO 1 : Apply the concepts of Relations and Recurrence Relations.</p> <p>CO 2 : Understand the concepts in Functions and Mathematical induction.</p> <p>CO 3 : Apply the concepts of Logic.</p> <p>CO 4 : Apply the concepts of matrices.</p> <p>CO 5 : Apply the concepts of Coding Theory.</p>
<p><b>22VE109 - Value Education</b></p>	<p>CO 1: Inculcate significance of value education</p> <p>CO 2: Infer value education for nation building</p> <p>CO 3: Understand human rights with Indian constitution</p> <p>CO 4: Learn moral values, ethics and good manners</p> <p>CO 5: Realize values of yoga in day to day applications</p>
<p><b>22 PE110-Physical Education</b></p>	<p>CO1: Participate and learn about the athlete through appropriate activities.</p> <p>CO2: Develop and reinforce cooperative behaviour.</p> <p>CO3: Teach the students to establish lifelong fitness goals.</p> <p>CO4: Enhance their skill about the games activities.</p> <p>CO5: Learn about the traditional games activities along with the concepts and benefits.</p>
<p><b>22UT201 - பொதுத்தமிழ் – II</b></p>	<p>CO 1: பக்திநெறி மற்றும் தொன்மம் சார்ந்த அறக்கருத்துகளைத்தன்வாழ்வில் பின்பற்றுதல்.</p> <p>CO 2: பழமை சார்ந்த அறவியலையும் வாழ்வியலையும் புரிந்துகொள்ளுதல்.</p> <p>CO 3: உரைநடையின் வழியே எளிய சொற்பதம், ஆழமான கருத்துச்செறிவு, இடத்திற்கு தகுந்த பொருத்தமான மேற்கோள், தற்கால கலைச்சொல் எனப் பலவற்றைபொருந்தச் செய்தல் .</p> <p>CO 4: மொழியை இலக்கணப்பிழையின்றி பேசவும் எழுதவும் புரிந்துபயன்படுத்துதல்</p> <p>CO 5: படைப்பிலக்கிய சிந்தனையையும், கற்பனை ஆற்றலையும் கொண்டு இலக்கியம்படைத்தல்</p>



<p><b>22UH201 - Hindi II</b></p>	<p>CO 1: Familiarize with the various elements/aspects of prose.  CO 2: Enhance and develop the confidence level, ethics and some moral values.  CO 3: Apply the basics of grammar for effective communication.  CO 4: Inculcate respect and pride towards our nation.  CO 5: Improve the skill of letter writing.</p>
<p><b>22UF201 - French Language culture and Civilization-II</b></p>	<p>CO1: Express themselves in their basic words in French.  CO2: Acquire a good knowledge of the French culture &amp; Civilization.  CO3: Identify the basic knowledge of French Grammar.  CO4: Apply the language skills on the range of asking the personal information's and answer politely.  CO5: Describe a person and character, telephone conversation.</p>
<p><b>22UCE202 - Communicative English II</b></p>	<p>CO1: Develop the basics knowledge of grammar for effective communication.  CO2: Actively involves in the purposeful reading of books, poems and inculcate the ability of public speech.  CO3: Draft e-mails, TED talks and preparing professional PPTs.  CO4: Imbibe the skills of listening and attend meetings by sharing information and learning of types of sentences.  CO5: Absorb skills in writing letters and learn the pattern of clauses to represent social issues.</p>
<p><b>22BN203- Computer Networks</b></p>	<p><b>CO1:</b> Analyze the functionalities of Application layer and its protocol  <b>CO2:</b> Elaborate the functions of Transport layer and UDP  <b>CO3:</b> Examine concepts of TCP connection establishment and congestion control  <b>CO4:</b> Assess the IP address and Routing algorithms</p>

	<b>CO5:</b> Explain the working nature of Link layers with switched LAN
<b>22BN204- Fundamentals of Virtualization</b>	<b>CO1:</b> identify virtualization and hypervisor <b>CO2:</b> Examine Virtual machines <b>CO3:</b> Analyze of CPU and memory for Virtual Machine <b>CO4:</b> Explain Storage and Network virtualization <b>CO5:</b> Assess availability and virtual appliances
<b>22BN205PC PROGRAMMING LAB</b>	CO1: Construct code using header files. CO2: Experiment with conditional statements. CO3: Infer the loop statements with logical conditions. CO4: Manipulate array using structures and unions. CO5: Experiment with strings and files
<b>22OR206 - Operations Research</b>	CO 1: Apply the concepts related to linear programming problem. CO 2: Apply the learning on Transportation problem CO 3: Apply the concepts related to Assignment problem. CO 4: Apply the learning on Network Analysis. CO 5: Apply the concepts related to Game Theory.
<b>21BN207 P- Networking Lab</b>	CO1: Test the router and other switching devices. CO2: Build tool for Remote management and access. CO3: Infer the configuration of VLAN and LAN security. CO4: Demonstrate the network monitoring and security features. CO5: Experiment with Ether channel techniques
<b>22ES210 - Environmental Studies</b>	CO1: Participate and learn about the athlete through appropriate activities. CO2: Develop and reinforce cooperative behaviour. CO3: Teach the students to establish lifelong fitness goals. CO4: Enhance their skill about the games activities.

	CO5: Learn about the traditional games activities along with the concepts and benefits.
<b>21UH301 - Hindi III</b>	CO1: Apprise the role of one act plays in literature. CO2: Emphasize the values in the minds of students through ethical poetry. CO3: Acquaint grammar for effective communication. CO4: Apply the language in our daily life activities. CO5: Develop the ability in creativity in writing.
<b>21UCE302 - Communicative English III</b>	CO 1: Appraise themselves by knowing the SWOC, learn the barriers in writing and probing questions through tags.. CO 2: Develop purposeful writing formal letters and essays with correct contents and also learn to use the Articles in the right places. CO 3: Imbibe the basics of body language, enhancing the vocabulary through the one word substitutions and also learning the grammar degrees of comparisons.. CO 4: Enhance vocabulary by learning Synonyms, Antonyms, performing ceremonial speech for various events and also drafting e-mail and its etiquettes. CO 5: Facilitate the differentiation between homophones & homonyms, enabling reading activity by comprehending the passage and enhance the skills of using idioms and phrases in their regular communication.
<b>21BN303- Network Security</b>	CO1: Make use of various encryption techniques. CO2: Experiment with Block cipher for Data encryption standard CO3: Select appropriate Public key encryption systems CO4: Utilize public key cryptosystems for key management CO5: Apply user authentication protocols in federated environment
<b>21BN304- Customer</b>	CO1: Understand the components of customer

<b>Relationship Management</b>	<p>relations ship management and it purpose IT industry.</p> <p>CO2: Implement and maintain CRM system using Knowledge management system</p> <p>CO3: List components of CRM</p> <p>CO4: Enumerate types of CRM</p> <p>CO5: Understand e-CRM</p>
<b>21BN305 P- Linux Lab</b>	<p>CO1: Installing and booting Linux</p> <p>CO2: implement file systems using different commands</p> <p>CO3: utilize editor and FTP services</p> <p>CO4: Evaluate YUM and partitioning tools</p> <p>CO5: Configure LDAP, samba server and firewall</p>
<b>21BN306 P- Python Programming Lab</b>	<p>CO1: Read, write, and execute simple Python programs.</p> <p>CO2: Write simple Python looping, control statements and string manipulations.</p> <p>CO3: Define and demonstrate the use of functions, built-in data structures “lists” and “dictionary”</p> <p>CO4: Read and write data from/to files in Python Programs</p> <p>CO5: Make database connectivity in python programming language</p>
<b>21NS311- Numerical Skills</b>	<p>CO 1 : Apply the learning Numbers.</p> <p>CO 2 : Apply the concepts of Problems on Ages, Time and work.</p> <p>CO 3 : Apply the learning on Pipes and Cisterns, Time and distance.</p> <p>CO 4 : Apply the concepts of Calendar, Clocks and Permutation and Combination.</p> <p>CO 5 : Apply the concepts of Multidimensional Problems</p>
<b>21BN308- Team Building Skills</b>	<p>CO1: Identify High performing teams and context</p> <p>CO2: Explain Team Composition and Performance</p> <p>CO3: Developing Team Competencies</p> <p>CO4: Identify team’s ability to monitor its performance and make changes</p> <p>CO5: Summarize different exercise to manage</p>

	conflict in the team
<b>21BN309- IT Ethics</b>	CO1: Understanding information technology ethics CO2: Explain common ethical issues of it users CO3: Illustrate privacy related laws CO4: Summarize common cyber crimes CO5: Understand social networking issues
<b>21BN310- Organizational Behaviour</b>	CO1:Understand individual behaviour CO2:Explain personality traits CO3:Illustrate theories of learning CO4: Summarize Values and attitude CO5: Illustrate Motivational theory
<b>21BN311 P- PC HARDWARE LAB</b>	CO1: Create bootable windows and installation of windows drivers CO2: Evaluate the assembling of pc and cmos setup CO3: Apply cable crimping tools and NIC CO4: Configure IP, LAN, ICS and PC Troubleshooting Tools CO5: Configure website security, Server/ Client and Outlook Express
<b>21BN312 - Client OS</b>	CO1:Understand user accounts and controls CO2:Explain windows system applications configurations CO3:Understand disk and drives CO4: Summarize printing device and configuration CO5: Demonstrate file and printer sharing services
<b>21UT401-பொதுத்தமிழ் - IV</b>	CO1: இலக்கியங்கள்வாயிலாகபண்பாடு , கலாச்சாரம்சார்ந்த வாழ்வியலை பின்பற்றுதல். CO2: அற இலக்கியங்கள் வாயிலாக அறவியலை கடைப்பிடித்தல். CO3: புதின இலக்கியம் மூலம் சமூகம் சார்ந்த அவலங்கள் , சிக்கல்கள் மற்றும் அவற்றின் தீர்வுகளின் வழி புரிந்து நடந்து கொள்ளுதல் . CO4: இலக்கணஅமைப்பின்வாயிலாகமொழியைக்கையாளும் விதிமுறைகளைப்பொருத்துதல் . CO5: படைப்பிலக்கியசிந்தனையையும், கற்பனைஆற்றலையும் வெளிப்படுத்துதல் .
<b>21UH401-Hindi - IV</b>	CO 1: Interpret the history of Hindi Literature. CO 2: Inculcate the ethics to be followed in life.

	<p>CO 3: Apply the language in our daily life activities.</p> <p>CO 4: Design some sentences on general topics in Hindi.</p> <p>CO 5: Recall simple translation.</p>
<b>21UCE402-Communicative English IV</b>	<p>CO 1: Involve actively in participative learning of English and to enable them to acquire note making skills and affixes.</p> <p>CO 2: Use the various styles of writing to meet the basic requirements of business, understanding the connotation of Report Writing and enabling reading skills through reading comprehensions</p> <p>CO 3: Inculcate the skill of power point presentation and enhance the skill of report writing through the learning of direct &amp; indirect speech.</p> <p>CO 4: Enrich resume writing ability and enrich the communication skills through verbal analogies.</p> <p>CO 5: Enhance the precise writing and also recapping the tenses for facing the interview in a professional manner.</p>
<b>21BN403-Network Administration</b>	<p>CO1: Interpret network Security concepts</p> <p>CO2: Determine the Network devices and protocols.</p> <p>CO3: Evaluate monitoring and hardening process of network devices</p> <p>CO4: Apply Cryptography Standards and Protocols</p> <p>CO5: Assess the security policies and acts</p>
<b>21BN404-Digital Marketing</b>	<p>CO1: To examine and explore the role and importance of digital marketing in today's rapidly changing business environment.</p> <p>CO 2: To focus on how digital marketing can be utilised by organisations and how its effectiveness can be measured.</p> <p>CO 3: To know the key elements of a digital marketing strategy</p> <p>CO 4: To study how the effectiveness of a digital marketing campaign can be measured</p> <p>CO 5: To demonstrate advanced practical skills in common digital marketing tools such as SEO,</p>

	SEM, Social media and Blogs.
<b>21BN405 P-Network Security Lab</b>	<b>CO1:</b> Outline fundamental issues in computer and network security. <b>CO2:</b> Apply policies, settings, and configurations practically <b>CO3:</b> Appraise network security issues, security technology architecture and operations. <b>CO4:</b> Inspect hash rules and IPSec <b>CO5:</b> Evaluate the Firewall configurations
<b>21BN406-Fundamentals of Data Science</b>	CO1: Recognize the evolution of data science with its design principles CO2: Evaluate the fundamental science of data and concepts of big data and Basic Data Analytics methods CO3: Analyze the impact of Data Analytics Lifecycle and Data Visualization CO4: Apply the advanced theory methods to cluster with association rules and It implements in algorithms. CO5: Design and implement the time series analysis and text analysis using Technologies
<b>21BN407-Cyber Crime</b>	CO 1: Explain the concept of Information Security. CO 2: Identify the various types of attacks. CO 3: Identify various security operations. CO 4: Describe the concept of Network and telecommunication. CO 5: Explain malicious code and Intrusion Detection
<b>21BN408-Cyber Laws</b>	CO 1: Explain about Cyber Laws and Cyber cafes. CO 2: Identify the concepts related to Indian Penal Code. CO 3: Identify various Cyber Cases. CO 4: Describe the concept of Legal Issues Seizure of evidentiary data and backups. CO 5: Explain about Basic Technology used in Cyber Law Framework Cryptography.

<b>21BN409-Cyber Forensics</b>	CO 1: Understand the basics of computer forensics. CO 2: Apply a number of different computer forensic tools to a given scenario CO 3: Analyze and validate forensics data. CO 4: Identify the vulnerabilities in a given network infrastructure CO 5: Implement real-world hacking techniques to test system security
<b>21BN410-Data Privacy</b>	CO 1: Explain the concept of Data Privacy. CO 2: Identify the concepts of Test Data. CO 3: Identify various Synthetic data generation. CO 4: Describe the concept of Tokenization. CO 5: Explain various Privacy Regulation Acts.
<b>21RS408-Reasoning Skills</b>	CO1. The learners will gain entrepreneurial competence to run the business efficiently. CO2. The learners are able to undertake businesses in the entrepreneurial environment CO3. The learners are capable of preparing business plans and undertake feasible projects. CO4. The learners are efficient in launching and develop their business ventures successfully CO5. The learners shall monitor the business effectively towards growth and development.
<b>21BN412-Database Management Systems</b>	CO 1: Explain the fundamental concepts involved in the design and implementation of a Database system. CO 2: Identify the Database Structure and Data modeling CO 3: Analyze creating, modifying and removing database objects. CO 4: Describe the concept of database integrity and network security CO 5: Observe the database transaction management and backup recovery
<b>21BN413-Business Analytics</b>	CO1: Understand the role of Business Analytics in decision making CO2: Ability to identify the appropriate tool for the analytics scenario CO3: Ability to apply the descriptive analytics



	<p>tools and generate solutions</p> <p>CO4: Understanding of Predictive Analytics and applications</p> <p>CO5: Knowledge of Prescriptive Analytics and demonstrating business process improvement</p>
<b>21BN414 P -Basics of Network</b>	<p>CO 1: Understand network types</p> <p>CO 2: Illustrate types of cables</p> <p>CO 3 :Compare different network devices</p> <p>CO 4 :Evaluate IP Address</p> <p>CO 5: Analyse Network security threats and Monitoring Networks</p>
<b>21BN415 P-Server Operating System</b>	<p>CO 1: Understand operating system and GUI configuration</p> <p>CO 2 :Illustrate Files and Directories</p> <p>CO 3 :Compare Absolute mode and Symbolic mode commands</p> <p>CO 4 :Evaluate common Vi editors and Shell Scripts</p> <p>CO 5: Analyze Firewall and its Configuration</p>
<b>21UBT410-அடிப்படைத்தமிழ்- II</b>	<p>CO1 :பொருட்கள், அறுசுவைகள் பற்றிய அடிப்படை சொற்களை உச்சரிப்புடன் பேசுதல்.</p> <p>CO2: பல்துறை சார்ந்த வார்த்தைகளை அறிந்து பயன்படுத்துதல்</p> <p>CO3: எழுத்து வேறுபாடுகள், சொற்களைச் சேர்த்து, பிரித்து எழுதும் முறைகளைத் தெரிந்து பின்பற்றுதல்</p> <p>CO4 : உரையாடல்செய்துதமிழைச்சரளமாகப்பேசுதல்.</p> <p>CO5 : சொற்களைத்தொடர்அமைப்பில்வாசித்துஎழுதுதல்.</p>
<b>21UAT411-சிறப்புத்தமிழ் – II</b>	<p>CO 1: இலக்கியங்களின் வாயிலாக பக்திநெறி மற்றும் தொன்மம் சார்ந்த அறக்கருத்துகளைப் பின்பற்றுதல்.</p> <p>CO 2: உயர்ந்தகுறிக்கோள்களையும்சிறந்தநீதிக்கதைகளையும்உணர்ந்துசெயல்படுதல் .</p> <p>CO 3: தனிமனிதஒழுக்கத்தைநீதிநூல்கள்வழிஅறிந்துநடத்தல்</p> <p>CO 4: தமிழில்கலந்துஉள்ளபிறமொழிச்சொற்களைவேறுபடுத்திதமிழ்ச்சொற்களைப்பயன்படுத்துதல்</p>

	CO 5: பொதுத்தலைப்பில்சொந்தமாககட்டுரைஎழுதுதல்
<b>20BN501-Internet of Things</b>	<p>CO1: Describe the basics definition and explain the architecture view for IoTs, Wearable devices and communication methods</p> <p>CO2: Summarize the IoT Ecosystem, IoT middleware and Platforms</p> <p>CO3: Outline the usage of messaging protocols between connected devices and the web</p> <p>CO4: Overview of IoT enabling architecture, devices, OS, Middleware, Communication and Gateways</p> <p>CO5: Explain the requirements of privacy and security, vulnerability from threats, and need of threat analysis in IoT</p>
<b>20BN502-Server Administration</b>	<p><b>CO1:</b> Learn to design windows networking and configure DNS and DHCP.</p> <p><b>CO2:</b> Design Active Directory services and Enabling roles and user accounts.</p> <p><b>CO3:</b> Implement group policy using organizational units</p> <p><b>CO4:</b> Managing multiple domain and maintain active directory</p> <p><b>CO5:</b> Explain Group policy object and software deployment</p>
<b>20BN503-Cloud Computing</b>	<p>CO1: Understand infrastructure of cloud computing services like CaaS, IaaS, MaaS, PaaS, SaaS.</p> <p>CO2: Learn the Evolution of Cloud Computing and web Services</p> <p>CO3: Build data center based SOA</p> <p>CO4: Learn concepts of security in cloud</p> <p>CO5: Understand common standards of Cloud Computing</p>
<b>20BN504-NetworkProcessing</b>	<p>CO1: Learn the concepts of installing, configuring IOS</p> <p>CO2: Understand Routing, ACL and WAN switching</p> <p>CO3: Implement Dynamic routing protocols</p> <p>CO4: Describe ACL Address translation</p>

	CO5: Understand Cisco routers and WAN
<b>20BN505 P-Advanced Server Administration Lab</b>	CO1: Design an Active Directory Infrastructure in Windows Server CO2: Implement Active Directory users and objects CO3: Configure Virtual machine with Hyper-V CO4: Install operating system and other applications on virtual machine CO5: Configure Remote Desktop Connections and Backup ADDS
<b>20BN506 P-Network Processing Lab</b>	CO1: Install configures and operates Local Area Networks CO2: Implement Wide areas networks and dial access services CO3: Dynamic route configuration using RIP, IGRP CO4: Understand IP Traffic management CO5: Improve the security of a DHCP Infrastructure
<b>20PRT509 P-Placement Recruitment Training Practical</b>	CO 1: Encourage the students in participative learning of English and to enable them acquire communication skills. CO 2: Enable the students prepare themselves as professionals. by understanding Life Skills. CO 3: Comprehend what a Personal Interview is and to familiarize them with the P. I. process through simulation. CO 4: Understand what GD is and to familiarize them with the different types of GDs through practice. CO 5: Equip the students to enhance General Knowledge to equip them in all the aspects.
<b>20BN601 P / 20BN602 P- Internship / Project</b>	CO1: Gain Strong knowledge through real time technologies. CO2: Infrastructural support can be developed in the field of IT and networking CO3: Meet the carrier needs of the IT industry.

	CO4: Acquire knowledge through Project or Internship Training
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	CO5: Get career opportunities in networking domain for their bright future.
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