



Post Graduate Department of Computer Sciences

University of Kashmir, Srinagar-190006

Notes

Minutes of the Departmental Committee Meeting held on 11th March, 2026

A Departmental Committee Meeting was held on 11th March, 2026 at 3:00 p.m under the Chairmanship of the Head of the Department in his office chamber and following were present.

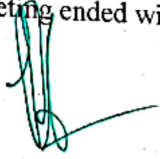
1. Prof. Javaid Iqbal	Professor & Head	in the Chair
2. Prof.M. Arif Wani	Professor	
3. Prof. Majid Zaman	Professor	
4. Dr. Manzoor Ahmad Chachoo	Scientist-D	
5. Dr. Sajad M. Khan	Scientist-C	
6. Dr. Sajid Yousuf Bhat	Sr. Assistant Professor	
7. Dr. Abid Sarwar	Sr. Assistant Professor	

The following issue was discussed:

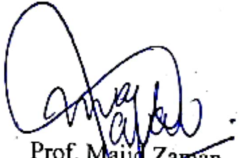
Item-I:

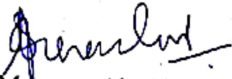
In light of letter No.F(Syllabus)DR/KU/26 dated: 10-03-2026 regarding framing of syllabus for the post of Technical Assistant advertised vide notification Notice No.04 of 2026, dated: 04-02-2026 issued by Chairman, Screening Committee, the Departmental Committee framed the syllabus for the said post comprising 10 units, duly vetted and approved, as annexed in the Annexure-I to these minutes.

The meeting ended with a vote of thanks to the chair

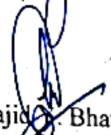

Prof. Javaid Iqbal
HOD

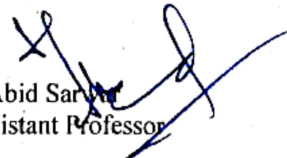

Prof. M. Arif Wani
Professor


Prof. Majid Zaman
Professor


Dr. Manzoor Ah. Chachoo
Scientist-D


Dr. Sajad M. Khan
Scientist-C


Dr. Sajid Y. Bhat
Sr. Assistant Professor


Dr. Abid Sarwar
Sr. Assistant Professor

Proposed Unit-wise Syllabus for the post of Technical Assistant

Unit 1: Network Device Configuration and Secure Access

- Configure console, Telnet, and SSH access on Cisco devices with authentication and encryption settings.
- Configure enable secret and service password encryption.
- Assign IP addresses to interfaces, including calculating subnet masks, determining wildcard masks, broadcast addresses, and default gateways.
- Use both classfull and classless addressing schemes.

Unit 2: VLANs and Inter-VLAN Communication

- Configure VLANs on managed switches.
- Assign switch ports to specific VLANs.
- Set up trunk links using IEEE 802.1Q encapsulation.
- Implement Inter-VLAN routing using Router-on-a-Stick (ROAS) or Layer 3 switches.
- Verify connectivity between VLANs.

Unit 3: DHCP and Network Address Translation

- Configure DHCP services on routers or dedicated servers.
- Configure DHCP pools, excluded addresses, lease time, and verify DHCP bindings.
- Implement NAT (Static, Dynamic, PAT) for private-to-public IP translation.
- Validate NAT functionality through simulation and testing.

Unit 4: Network Security and Switching Protocols

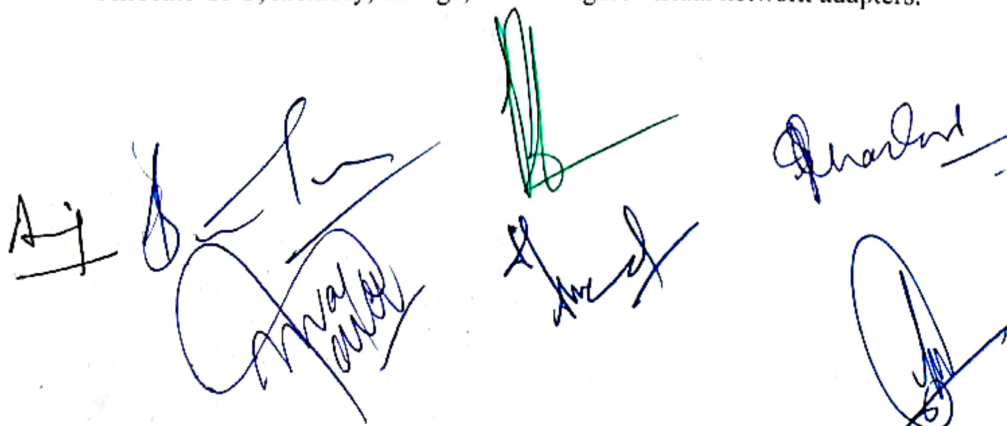
- Secure switch ports using Port Security (sticky MAC, shutdown, restrict, protect modes).
- Configure Spanning Tree Protocol (STP) and Rapid STP (RSTP).
- Assign bridge priority manually to optimize path selection and prevent switching loops.

Unit 5: Routing Protocols and Access Control

- Implement Static Routing and Default Routing.
- Configure dynamic routing protocols.
- Implement route redistribution between protocols (e.g., OSPF and EIGRP).
- Configure Standard and Extended Access Control Lists (ACLs) for traffic filtering based on IP, protocols, and ports.

Unit 6: Windows Server Installation and Virtualization

- Install and configure Windows Server OS.
- Perform initial configuration (hostname, IP settings, domain membership).
- Enable remote management and server roles.
- Create and configure virtual machines using Hyper-V or Oracle Virtual Box.
- Allocate CPU, memory, storage, and configure virtual network adapters.



Unit 7: Directory Services and DNS Management

- Install and configure Active Directory Domain Services (AD DS).
- Deploy a sample web page and configure IIS Web Server.
- Install and configure DNS Server.
- Create forward and reverse lookup zones.
- Configure A, CNAME, MX, and PTR records.
- Test DNS functionality.

Unit 8: File Services and Backup Management

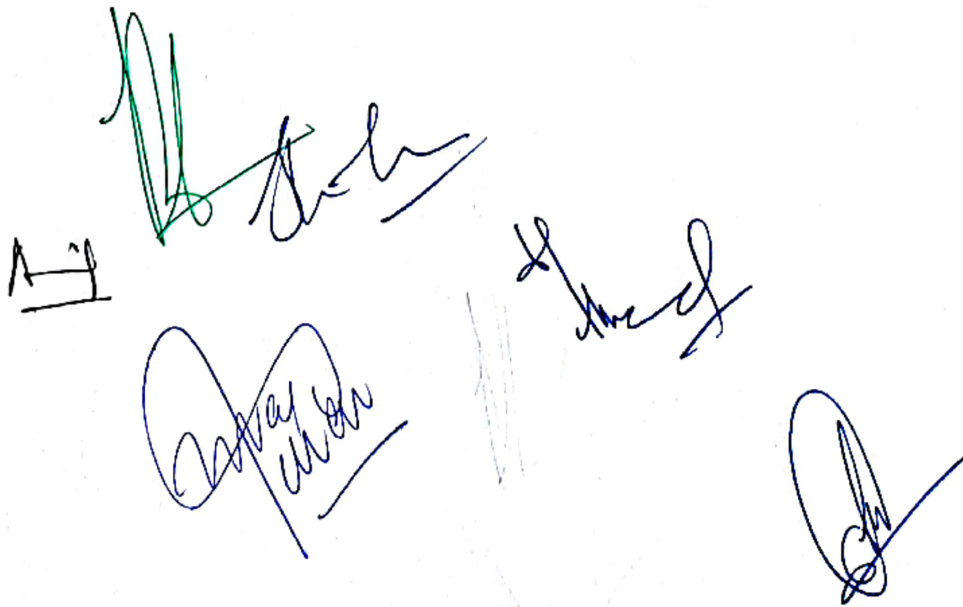
- Configure shared folders on Windows Server.
- Implement NTFS and share permissions.
- Enable offline files and access auditing.
- Create user accounts manually or via Group Policy.
- Implement Windows Server Backup, scheduled backups, system image backup, and restoration.

Unit 9: Linux System Administration and Automation

- Install and configure Linux distributions (Ubuntu, CentOS, Debian).
- Manage users, groups, and permissions (chmod, chown).
- Manage storage using LVM and NFS.
- Configure and manage services using systemd (start, stop, enable, disable).
- Configure SSH with key authentication and firewall rules using iptables/firewalld.
- Use monitoring tools: top, htop, df, du, netstat.
- Write Bash scripts for automation.
- Schedule tasks using cron and systemd timers.

Unit 10: DGX A100 AI Server Administration

- Understand DGX A100 architecture, NVIDIA A100 Tensor Core GPUs, NVLink interconnect, and DGX OS.
- Install and update DGX OS and NVIDIA drivers.
- Configure Docker and NVIDIA Container Toolkit for GPU-accelerated containers.
- Monitor GPU utilization, temperature, and performance using nvidia-smi and DCGM tools.
- Manage deep learning environments using NGC containers and frameworks such as TensorFlow, PyTorch, and RAPIDS.
- Configure high-speed data transfer using Mellanox/InfiniBand interfaces.
- Implement system-level security and access control for multi-user AI research environments.
- Backup and restore critical data and system configurations in DGX environments.

The block contains several handwritten signatures in blue ink. There are approximately six distinct signatures scattered across the lower half of the page, some overlapping. The signatures are stylized and appear to be in cursive or a similar fluid script.