

**NED UNIVERSITY OF ENGINEERING & TECHNOLOGY KARACHI**  
DEPARTMENT OF COMPUTER & INFORMATION SYSTEMS ENGINEERING



## NETWORK MANAGEMENT COMPETITION

*Network Management Competition aims to test competitor's networking concepts to design, manage and troubleshoot a network.*

Network Management Competition involves three phases:

### PHASE-1 MCQs (45 minutes):

This phase will be a Quiz of around 40-50 questions. These questions will be covered from (but not limited to) the CCNA/CCNP level topics such as Basic internetworking, OSI and TCP/IP reference models, IP addressing, IP Routing and its protocols, Switching, Network security, VLANs, NAT/PAT, IPv6, WAN, wireless, QoS, Broadband, VPNs etc.

*Top 10 teams will proceed to phase-2.*

### PHASE-2 Network Designing (60 minutes):

In this phase, a real scenario to design and configure a network will be given to each team using a simulator.

*Top 5 teams will proceed to the final phase.*

### PHASE-3 Network Security & Troubleshooting (60 minutes):

In this Final phase, a simulator-based activity will be provided to the participants, which will assess their knowledge of Network security and troubleshooting.

- **Final Top 3** will be decided on the sum of scores of **PHASE-2** and **PHASE-3** which will be calculated by the simulator itself.
- **PHASE-2** and **PHASE-3** will cover (**but not limited to**) different network technologies e.g. OSI reference model, IPv4, IPv6, IPSec, Routing Protocols (e.g. EIGRP, OSPF), Frame Relay, ISDN, ATM, MPLS, Routing Information Protocol Version 2 (RIPv2), Spanning Tree Protocols (STP), VLANs, Ethernet, VoIP, Access Control List (ACLs), NAT/PAT, Firewalls etc.