Internet Society Learning

Internet Society Foundation

Internet Society India Bengaluru Chapter

DDCN REPORT – 2026

TRAIN-THE-TRAINERS

Faculty Development Program
DDCN Bootcamp 2026

About

Fundamentals of Designing and Deploying Computer Networks (DDCN)

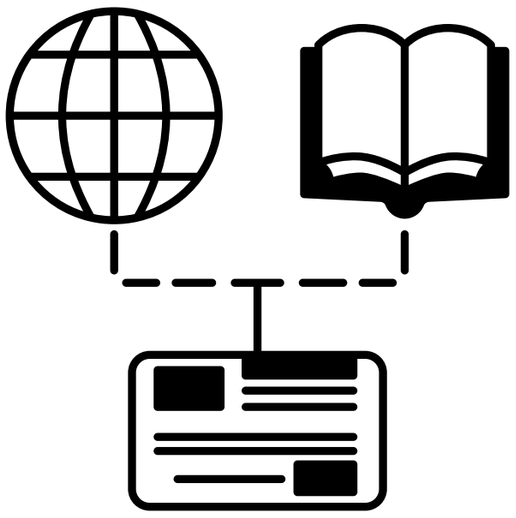
The **FDP Fundamentals of Designing and Deploying Computer Networks (DDCN) Bootcamp**, supported by the **Internet Society** and **Internet Society Foundation** and organized by the **Internet Society India Bengaluru Chapter**, is a hands-on program designed to strengthen the networking skills of faculty and academic professionals.

It emphasizes practical applications of core concepts, including IP addressing, Ethernet and Wi-Fi technologies, router and switch configuration, LAN design and Internet connectivity.

The program brought together **50** Participants from **18 different institutions** and supports the Internet Society's mission of building an open, secure and globally connected Internet. Held at **GITAM Deemed University**, Bengaluru, from **23rd** to **27th March.**

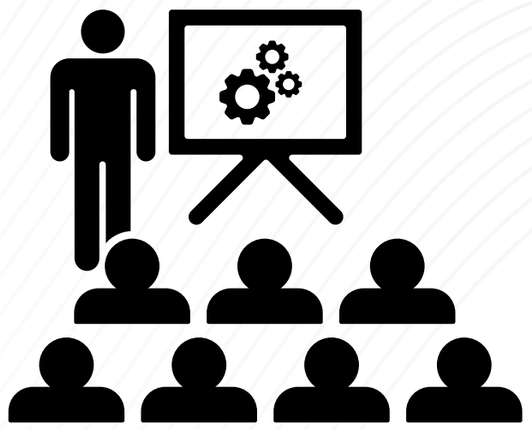
The training is structured around a dynamic blend of the DDCN hands-on bootcamp and the self-paced E-learning course offered through the Internet Society Learning platform.

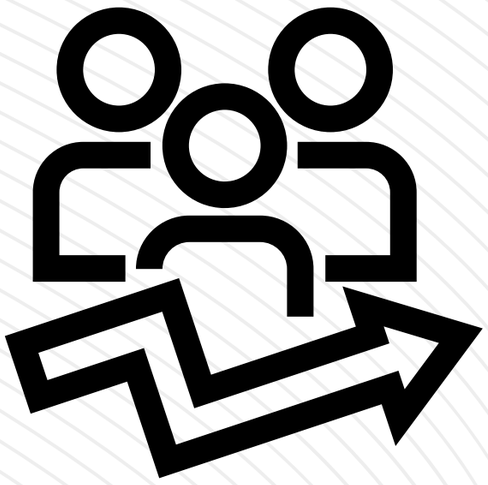
Our Objectives



To bridge the gap between theoretical networking curriculum and real world applications.

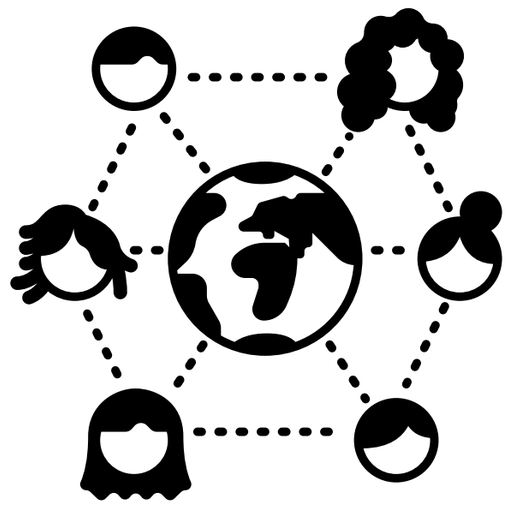
To equip educators with the tools and confidence to deliver hands-on, lab-based instruction.





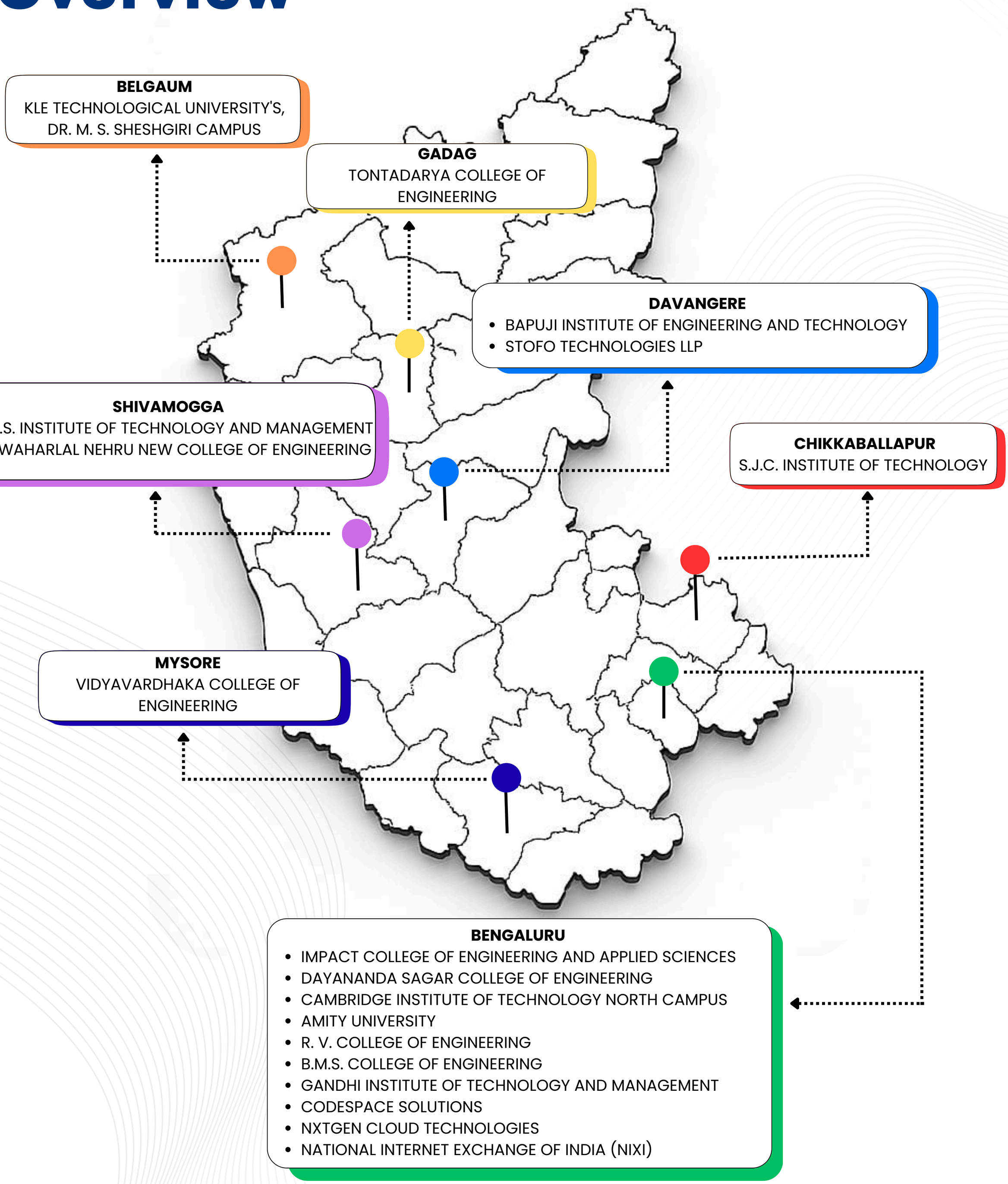
To promote awereness of internet society’s broader globally connected and secure internet.

To build a community of technically capable educators who can strengthen networking at their respective institutions.



Participants

Overview



BELGAUM
KLE TECHNOLOGICAL UNIVERSITY'S, DR. M. S. SHESHGIRI CAMPUS

GADAG
TONTADARYA COLLEGE OF ENGINEERING

DAVANGERE
- BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY
- STOFO TECHNOLOGIES LLP

SHIVAMOGGA
- P.E.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT
- JAWAHARLAL NEHRU NEW COLLEGE OF ENGINEERING

CHIKKABALLAPUR
S.J.C. INSTITUTE OF TECHNOLOGY

MYSORE
VIDYAVARDHAKA COLLEGE OF ENGINEERING

BENGALURU
- IMPACT COLLEGE OF ENGINEERING AND APPLIED SCIENCES
- DAYANANDA SAGAR COLLEGE OF ENGINEERING
- CAMBRIDGE INSTITUTE OF TECHNOLOGY NORTH CAMPUS
- AMITY UNIVERSITY
- R. V. COLLEGE OF ENGINEERING
- B.M.S. COLLEGE OF ENGINEERING
- GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT
- CODESPACE SOLUTIONS
- NXTGEN CLOUD TECHNOLOGIES
- NATIONAL INTERNET EXCHANGE OF INDIA (NIXI)

DDCN Course

Over Months

Onboarding for DDCN Bootcamp 2026

Commenced on 27th January 2026. The Participants were onboarded, granted access to the E-learning platform.

01

02

Started on 30 th January 2026, Learners began structured self-study through the E-learning platform.

Self-Learning

Live Interactive Learning Sessions

From 30th January to 21st March 2026. Weekly one hour live sessions that provided the platform to recap concepts.

03

04

Participants were requested to cover 12 modules mandatorily to gain foundation before coming to Bootcamp.

Foundational Module Completion

5-Days Bootcamp

From 23rd March to 27th March 2026. An interactive, hands-on experience held on-site.

05

Testimonials

DR. RAMESH M BADIGER

Tontadarya College of Engineering,Gadag

The sessions focused on firewall configuration, VPNs, wireless access points, and network address resolution. These provided exposure to real-world networking challenges, implementation stratergies, Looking forward to applying these learnings in practical environment.

RADHIKA PRIYA Y R

Bapuji Institute Of Engineering and Technology,Davangere

ISOC Bengaluru Chapter initiatives have been an enriching learning experience, offering valuable insights into real-world networking concepts. The sessions are well-structured, practical, and highly engaging.

LAKSHMI B S

Vidyavardhaka College Of Engineering,Mysore

Train the Trainers is all about hands-on sessions on switch, bridge, routers and firewall configuration. It provided practical exposure that strengthened my understanding of real-world networking concepts. A truly valuable learning experience.

PAVAN M

Jawaharlal Nehru New College of Engineering,Shivamogga

The sessions are greatly benefited from the hands-on sessions, which made topics like routing, switching, wireless networking, and network security easy to understand and apply. The practical exposure using tools and real-time configurations enhanced confidence in handling real-world networking scenarios.

DR. MOHAN GOWDA V

Gandhi Institute Of Technology and Management,Bengaluru

The hands-on activities were a key highlight, providing practical exposure to real-world networking scenarios and tools. This approach helped participants build confidence in applying concepts such as routing, configuration, and troubleshooting. The interactive environment also promoted meaningful discussions and peer learning.

DR. RAJASHRI KHANAI

KLE Technological University,Belgaum

An extensively wonderful and enriching experience at the DDCN. These sessions were highly practical, insightful and engaging throughout. Truly a opportunity for learning and professional growth. For improvement, extending the duration of certain hands-on sessions would allow deeper exploration of concepts.

SOWMYA P

Dayananda Sagar College Of Engineering, Bengaluru

The program effectively combined technical sessions with hands-on activities, making learning practical and engaging. The overall organization, including accommodation, coordination, was excellent and ensured a smooth experience.

DR. TEJASWINI C

Cambridge North Campus,Bengaluru

A key strength of the bootcamp was its balanced approach between theoretical concepts and practical implementation. The continuous support and guidance provided by the mentors further enhanced the overall learning experience.

Platform

E - learning

The onboarding of faculty members for the **Fundamentals of Designing and Deploying Computer Networks (DDCN)** course commenced on **27th January 2026**, marking the beginning of a structured and blended learning journey designed to equip educators with practical, industry-relevant networking knowledge.

Participants accessed a well-organized e-learning platform where they progressed through **12 carefully designed modules** at their own pace. To ensure consistent engagement and conceptual clarity, **weekly one-hour live moderated sessions** were conducted from **30th January 2026** to **21st March 2026**, providing faculty members with dedicated time to interact with mentors, revisit challenging topics and reinforce their understanding before the hands-on bootcamp.

The curriculum offered a comprehensive foundation in core networking principles, covering essential concepts such as LAN, MAN, and WAN architectures, data transmission media including UTP cables, Wi-Fi, and Power over Ethernet, as well as data transfer methods such as synchronous and asynchronous communication and unicast, broadcast, and multicast techniques.

This blended approach ensured that participants arrived at the bootcamp with a **strong theoretical base** and the confidence to dive into **hands-on technical sessions** and more importantly, to carry these insights directly into their classrooms. Sessions helped learners revisit topics, interact with mentors and build confidence **before joining the physical bootcamp**.

Day 1

The day began with registration and check-in, followed by a clear understanding of subnetting and supernetting, which helped participants learn how IP addressing and network design work. They also set up and used tools like **Cisco Packet Tracer** for simulations and packet analysis. Participants practiced building LAN topologies using switches and routers, along with basic configurations and connectivity testing.

Additionally, they learned how **DHCP** works for automatic **IP assignment** and explored both static and dynamic routing concepts. They were also introduced to **wireless networking** setup and configuration. Finally, participants developed practical skills in **cable crimping** by creating and testing patch cords using networking toolkits, gaining hands-on experience in real-world networking tasks.

Key Takeaways:

- Learned how different network devices work like hubs, switches, routers and bridges.
- Understood how data travels in a network using models like OSI and TCP/IP.
- Figured out how networks are divided and managed using collision.
- Practiced building and setting up networks using Cisco Packet Tracer with real examples

Day 2

The session combined both simulation-based and physical networking activities participants learned hands-on router setup and configuration, including WAN and LAN settings for establishing internet connectivity, along with IP addressing, default gateway, and DHCP client setup. They learned how to configure DHCP server and client for dynamic IP address allocation, manage IP leases, and understood ARP concepts for resolving IP addresses to MAC addresses.

Additionally, Explored **MikroTik routers**, including setup and connection basics. they explored Layer-2 networking by creating bridges, configuring ports, and integrating wired and wireless networks within a LAN. Overall, the day strengthened their practical skills in router configuration and network management.

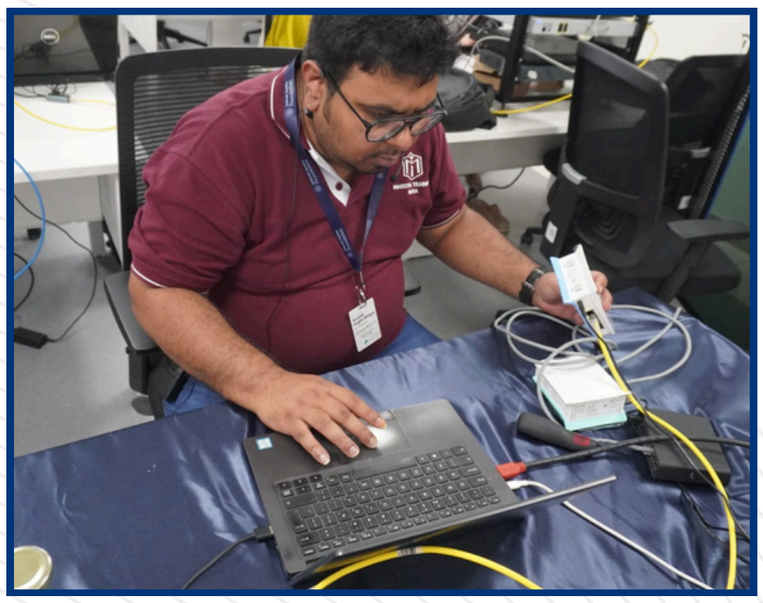
Key Takeaways:

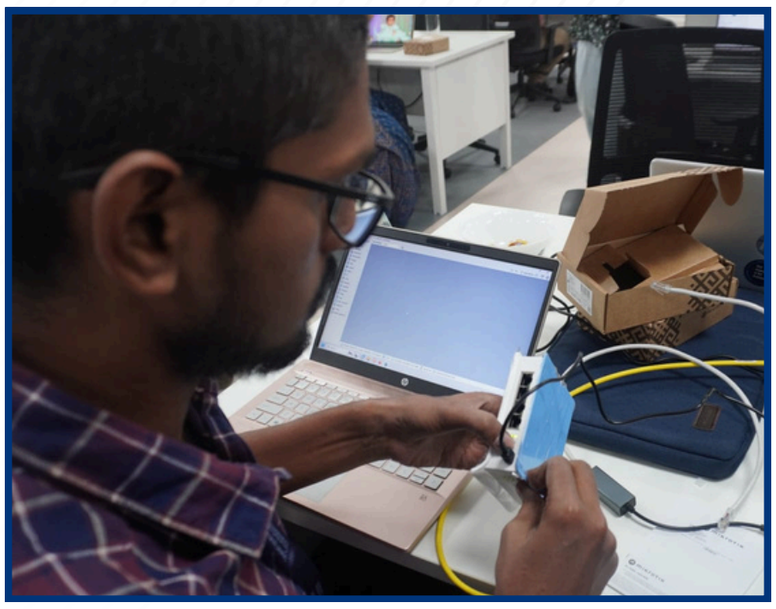
- Learned to set up different types of routing in Cisco Packet Tracer.
- Designed and linked multiple network segments (subnets).
- Watched how data travels in real-time through a network.
- Explored MikroTik routers, including setup and connection basics.

Day 3

The session provided an intensive hands-on exploration of **MikroTik routers**, beginning with an overview of their block diagram architecture and initial configuration using **Winbox**, participants learned the fundamentals of routing, including static routes, default routes, routing tables, and how data is forwarded between networks.

They explored wireless networking concepts such as frequency bands, standards, and the setup of access points and client connections. Participants also learned how to secure wireless networks using encryption, authentication, and access control methods, along with monitoring network performance. Additionally, they gained knowledge of network security through firewall rules, packet filtering, and NAT configuration to protect routers and manage network traffic efficiently.





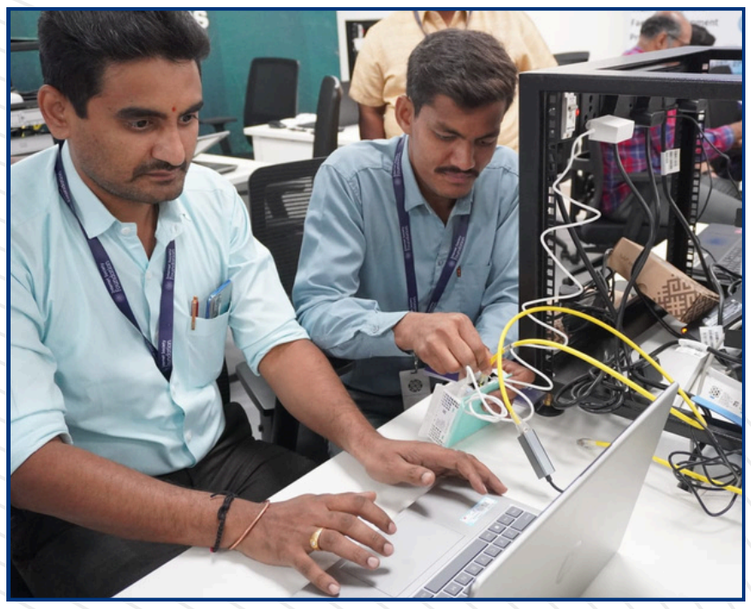
Key Takeaways:

- Learned how MikroTik routers work and how to set them up.
- Practiced assigning static and dynamic IP addresses and read routing tables.
- Connected routers and switches together to build working networks.

Day 4

The session mainly focused on **Quality of Service (QoS)** techniques for traffic prioritization, bandwidth management, and efficient allocation of network resources. They explored concepts like simple queues, rate limiting, and PCQ to manage multiple users and improve network performance. Participants also learned secure communication methods using **VPN** and **PPP** configurations, including tunneling protocols such as PPPoE, PPTP and SSTP, along with user authentication and remote connectivity setup.

They gained knowledge of network monitoring and diagnostics using tools like ping, traceroute, traffic analysis, and logging to track performance and identify issues. Additionally, participants practiced troubleshooting techniques and worked on real-world scenarios to reinforce all the networking concepts learned throughout the workshop.



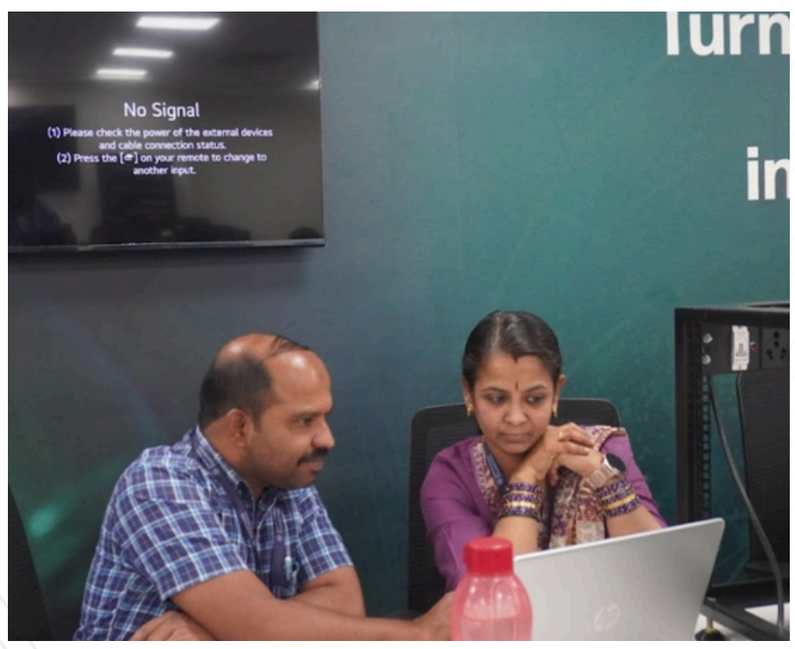
Key Takeaways:

- Configured wireless networks and solved common setup issues with WPS.
- Learned how NAT works, including static and dynamic configurations and PAT for port translation.
- Worked with IP packet filtering to secure private IP communication over public networks.
- Set up and configured VLANs and inter-VLAN routing for efficient network.

Day 5

The session focused on configuration of server and client programs using socket programming, understanding how communication is established between devices over a network. They practiced creating simple applications to handle data transmission, connection setup, and message exchange. Participants were also introduced to **TCP/IP services** such as CharGen, ECHO, Discard, and Time services, learning their roles in network communication, testing, and diagnostics through practical demonstrations.

The day concluded with a discussion on next action items, where participants were guided on applying their knowledge, continuing their learning, and clarifying any remaining questions.

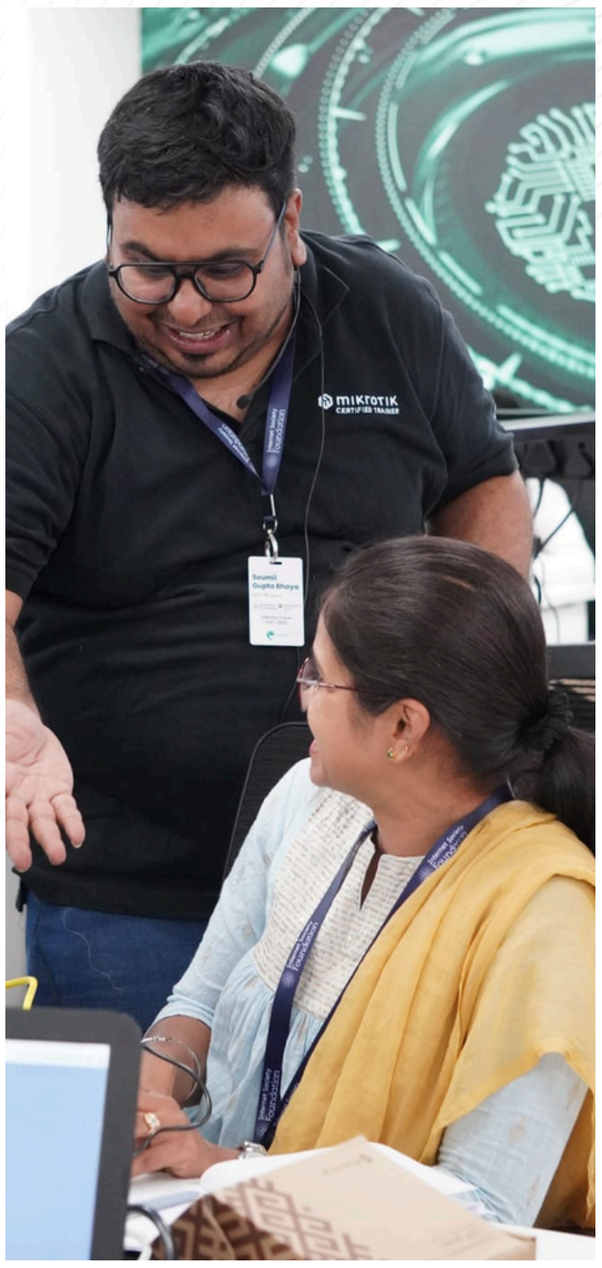


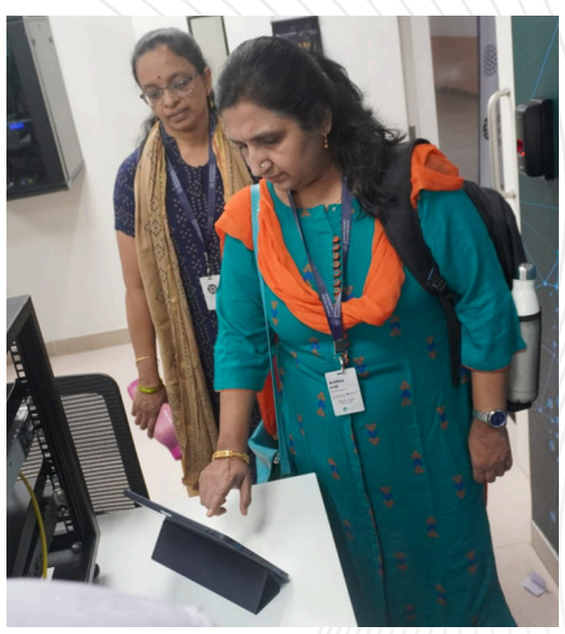
Key Takeaways:

- Understanding of socket programming for building basic server and client communication
- Knowledge of data transmission, connection setup, and message exchange in networks
- Familiarity with TCP/IP services like CharGen, ECHO, Discard, Time for testing and diagnostics.

Glimpses of

DDCN Bootcamp - 2026



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Deploying computer Network
(DDCN) Bootcamp
"Connecting the Unconnected
Protecting the connected"
Bengalur


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and Safety


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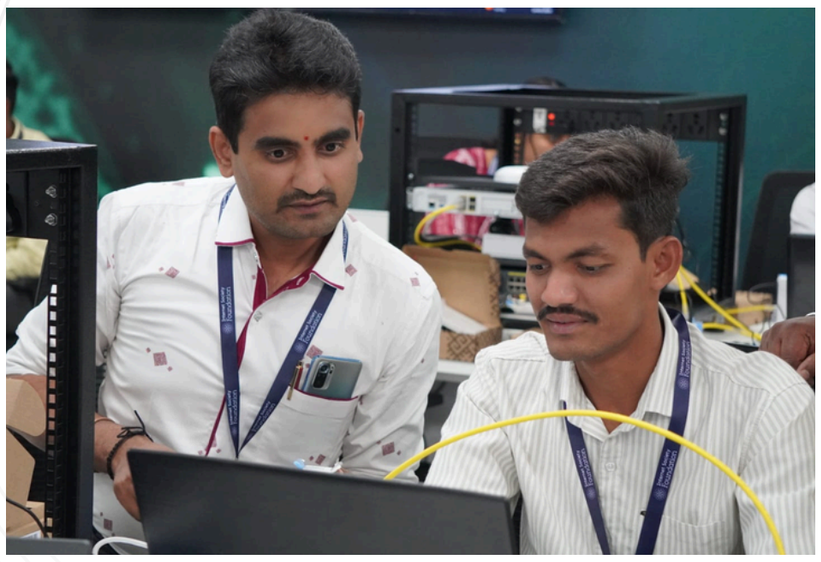

Participants Of

DDCN Bootcamp - 2026

SL.NO	NAME	COLLEGE
1	ABIRLAL MUKHERJEE	Amity University Bengaluru
2	ADITHI M	P.E.S. Institute of Technology and Management
3	AKSHAY M J	Jawaharlal Nehru New College of Engineering
4	AMRUTHA M	ISOC India Bengaluru Chapter
5	ANITHA G	Bapuji Institute of Engineering and Technology
6	ANITHA H M	B.M.S. College of Engineering
7	ASHOKAN KUMARAGURU	Codespace Solutions
8	BEENA G PILLAI	Gandhi Institute of Technology and Management
9	BHAGYA R	R. V. College of Engineering
10	CHANDANA SALUNKE	StoFo Technologies LLP
11	CHAITHANYA B N	Gandhi Institute of Technology and Management
12	DEEPA N P	Dayananda Sagar College of Engineering
13	GANESH GOWDA	ISOC India Bengaluru Chapter
14	HAMSAVENI M	Vidyavardhaka College of Engineering
15	HARISH M	P.E.S. Institute of Technology and Management
16	HRUTHWIK C	StoFo Technologies LLP
17	KESHAVA N	Cambridge North Campus
18	KRISHNA MEHAR P T	Impact College of Engineering
19	LAKSHMI B S	Vidyavardhaka College of Engineering
20	MANISHA TAPALE	KLE Technological University
21	MOHAN GOWDA V	Gandhi Institute of Technology and Management
22	MUNIRAJU M	S.J.C. Institute of Technology
23	NAGESHA N M	S.J.C. Institute of Technology
24	NITHIN H V	P.E.S. Institute of Technology and Management
25	PAVAN M	Jawaharlal Nehru New College of Engineering
26	PRAJWAL V	StoFo Technologies LLP
27	PRAMODA R	B.M.S. College of Engineering
28	RADHIKA PRIYA Y R	Bapuji Institute of Engineering and Technology

29	RAJASHRI KHANAI	KLE Technological University
30	RAMESH M BADIGER	Tontadarya College of Engineering
31	RENUKA R PATIL	Gandhi Institute of Technology and Management
32	RISHABH SINGH	NxtGen Cloud Technologies
33	RYAN DIAS	KLE Technological University
34	SANIYA ZOYA R	StoFo Technologies LLP
35	SENDAMARAI P	Cambridge North Campus
36	SHASHI RAJ K	Dayananda Sagar College of Engineering
37	SHRADDHA C	Vidyavardhaka College of Engineering
38	SHWETHA B	Jawaharlal Nehru New College of Engineering
40	SOWMYA P	Dayananda Sagar College of Engineering
41	SUMAYA FATIMA	Impact College of Engineering
42	SUNIL BEGUMPUR	Tontadarya College of Engineering
43	SWETHA B	Bapuji Institute of Engineering and Technology
44	SANKET S K	B.M.S. College of Engineering
45	TANMAYE P BISLERI	StoFo Technologies LLP
46	TEJASWINI C	Cambridge North Campus
47	UTKARSH SHARMA	National Internet Exchange of India (NIXI)
48	VEENA R C	Gandhi Institute of Technology and Management
49	VIGNESH RAMAMOORTHY H	Amity University Bengaluru
50	YOGRAJA G S R	S.J.C. Institute of Technology

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Report compiled by: StoFo team

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