



KSR College of
Engineering

AN AUTONOMOUS INSTITUTION

TIRUCHENGODE

JUNIPER
NETWORKS



DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING



Juniper AI-Driven Campus - Center of Excellence

Vision

To be the premier hub for nurturing future-ready talent, pioneering the integration of Artificial Intelligence into networking to create intelligent, self-driving campuses that are secure, efficient, and highly adaptive.

Mission

Our mission is to bridge the industry-academia gap by providing students and faculty with world-class infrastructure, expert mentorship, and a comprehensive curriculum focused on AI-driven networking. We are committed to empowering the next generation of IT professionals with the practical skills and innovative mindset required to design, manage, and secure the modern networks of tomorrow.

Objectives

Skill Development: To equip students with hands-on expertise in Juniper technologies, including Junos OS, Mist AI, Marvis VNA, and end-to-end campus network management (Wired, Wireless, WAN, Security).

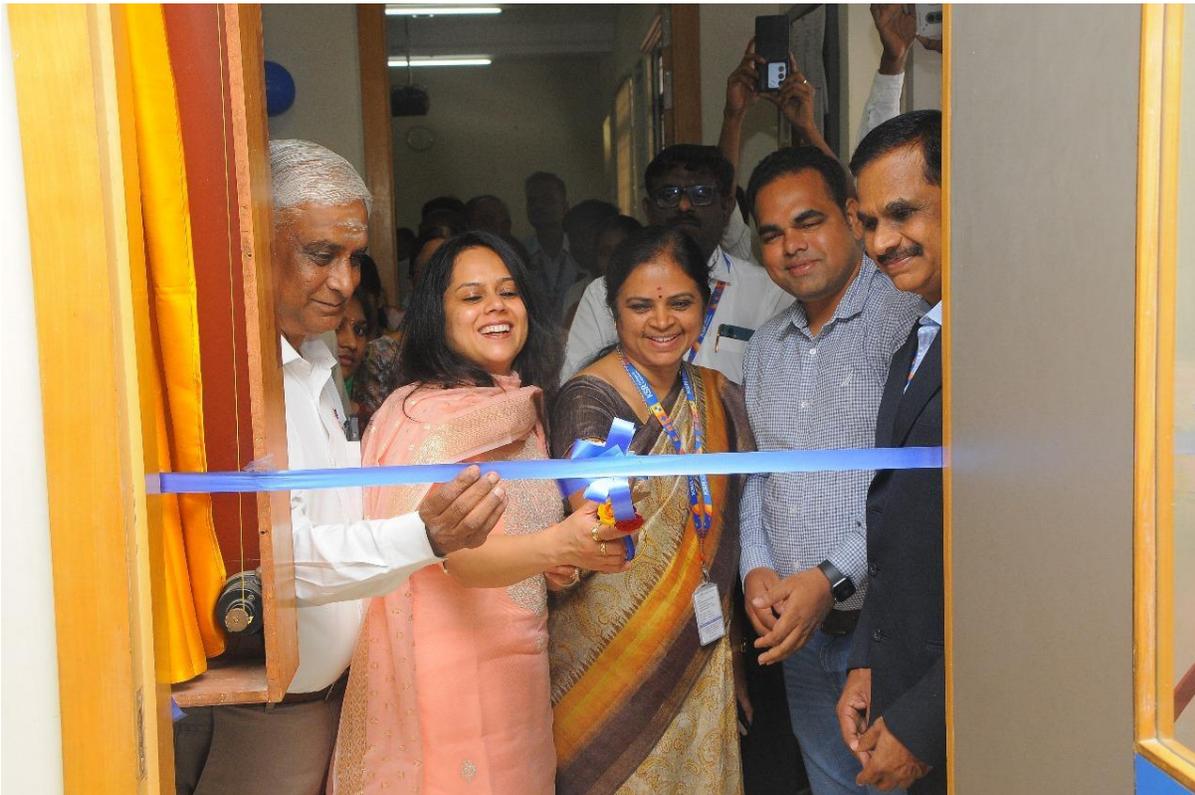
Industry-Ready Talent: To create a robust pipeline of industry-ready professionals for roles such as Network Engineer, Administrator, and AI Networking Specialist through specialized training and global certification.

Foster Innovation: To encourage research and development in AI-driven networking through hands-on projects, challenges (like SIPC), and joint research opportunities leading to publications.

Faculty Empowerment: To enhance faculty capability through specialized Faculty Development Programs (FDPs) and access to cutting-edge content and labs.

Career Advancement: To directly facilitate career opportunities for students through industry internships, onsite visits, and hiring partnerships with Juniper and its ecosystem.

Establish a Benchmark: To set a national standard for excellence in networking education by leveraging an AI-driven, cloud-managed infrastructure that simplifies operations and assures service quality.



Juniper's AI-Driven Campus Center of Excellence officially opened on 28.07.2025 following its inauguration by Ms. Archana Yadav, Global Program Manager for the Juniper Networks Cloud & Automation Academy.

Activities of Juniper

S. No.	Name of the Activity	Title of the Activity	Resource Person	Date	Outcome
Academic Year 2025-2026					
1	Inauguration of CoE	Juniper AI-Driven Campus Center of Excellence	Ms. Archana Yadav Global Program Manager – Juniper Networks Cloud & Automation Academy	28-07-25	<ul style="list-style-type: none"> • AI Driven Campus Network Setup • Advance & Specialised Courses for CoE Institutions • AICTE - EduSkills Virtual Internship • AICTE ATAL - EduSkills FDP for Faculties • Student Project Mentoring & Evaluation by Industry Experts • Global Certification Voucher Discount 70%
2	Faculty Development Program	AICTE ATAL - EduSkills Faculty Development Program on Mist AI	MITU SWAIN Talent Development Manager AICTE EduSkills	28-07-25 to 02-08-25	<ul style="list-style-type: none"> • Understand the architecture and capabilities of Mist AI. • Be able to design and implement AI-driven solutions for network challenges. • Develop a roadmap for integrating AI into their curriculum and research agendas. • Inspire students to pursue AI-based innovations with confidence and clarity.
3	Workshop	Networking Lab Boot camp: Cabling, Configuring Switches, Routers & Access Points	Dr.P.Mahendran Associate Professor Dept. of ECE	28-08-25 to 29-08-25	<ul style="list-style-type: none"> • Mastered hands-on cabling and CLI device configuration. • Strengthened core concepts like subnetting and network models. • Gained practical experience with VLANs, DHCP, and wireless setup. • Increased confidence in using real-world networking equipment. • Bridged the gap between theoretical knowledge and industry skills.
4	Workshop	Hands-on Networking Mastery: from Cable to Configuration	Dr.P.Mahendran Associate Professor Dept. of ECE	11-10-25	<ul style="list-style-type: none"> • Mastered hands-on cabling and CLI device configuration. • Strengthened core concepts like subnetting and network models. • Increased confidence in using real-world networking equipment. • Bridged the gap between theoretical knowledge and industry skills.

5	Global Certifications	-	-	29.09.25	<ul style="list-style-type: none"> • Junos OS Mastery: Validated understanding of the core Junos OS architecture, CLI, and fundamental operational concepts. • Device Configuration: Proficiency in performing essential tasks such as initial device setup, user account management, and basic interface configuration. • Operational Skills: Demonstrated ability to monitor device performance, view logs, perform basic troubleshooting, and manage the Junos OS file system. • Certification Prerequisite: Successful completion serves as the necessary entry point for all subsequent Junos certification paths (JNCIS, JNCIP, JNCIE).
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Faculty Incharge:



Dr.P.Mahendran, ASP / ECE

Glimpses of Juniper Activities



Prof. V. Mohan, Director of KSREI, honored Ms. Archana Yadav and Ms. Mitu Swain on 28.07.2025



Inspiring keynote delivered by Chief Guest Ms. Mitu Swain, Talent Development Manager, AICTE EduSkills on 28.07.2025



Dr. P. Meenakshi Devi, Principal/KSRCE and Ms. Archana Yadav of Juniper Networks exchanged a Memorandum of Understanding (MoU) on 28.07.2025



AICTE ATAL - EduSkills Faculty Development Program on Mist AI – 28.07.2025 to 02.08.2025



Workshop - Networking Lab Boot camp: Cabling, Configuring Switches, Routers & Access Points – 28.08.2025 to 29.08.2025



Workshop - Hands-on Networking Mastery: from Cable to Configuration – 11.10.2025