

# Kaushal किरण

TSSC'S NEWSLETTER

MAY 2025



India's IoT market is on a rapid growth trajectory, with revenue projected to hit US\$26.93 billion by the end of 2025 and soar to US\$49.82 billion by 2029.

As connected devices transform industries, the telecom sector plays a pivotal role, enabling the infrastructure that powers this shift.

To thrive in the digital age, telecom companies must embrace and harness IoT technologies.

In this edition, we delve into how IoT is reshaping telecom, the skills needed to stay ahead, and the trends driving this transformation.



# UNDERSTANDING INTERNET OF THINGS IN INDIAN LANDSCAPE

IoT is not separate from the Internet, but an expansion of it - a way of intelligently fusing the real and cyber worlds. By 2050, there will be 24 billion interconnected devices, meaning almost every object us around us: streetlights, thermostats, electric meters, fitness trackers, water pumps, cars, elevators, even gym vests.

These IoT-enabled devices contain sensors that constantly collect and react to data, and this vast level of data can be used to unlock new levels of intelligence. IoT can be key to a journey towards fully digital and programmable world and the foundation to Internet of Things in Telecom.

Cellular networks, especially 5G creates thousands of applications of IoT. Internet of Things create direct impact in global reach, performance, total cost of operations, scalability, diversity and security.

## Global Statistics and Trends

- The global IoT market is projected to reach US\$1.06 trillion by 2025, with a compound annual growth rate (CAGR) of 10.17% from 2025–2029, reaching US\$1.56 trillion by 2029 (Statista).
- The number of connected IoT devices is expected to reach approximately 27 billion by 2025 (IoT Analytics).
- The United States is expected to lead with US\$379.91 billion in IoT revenue in 2025 (Statista).

70%

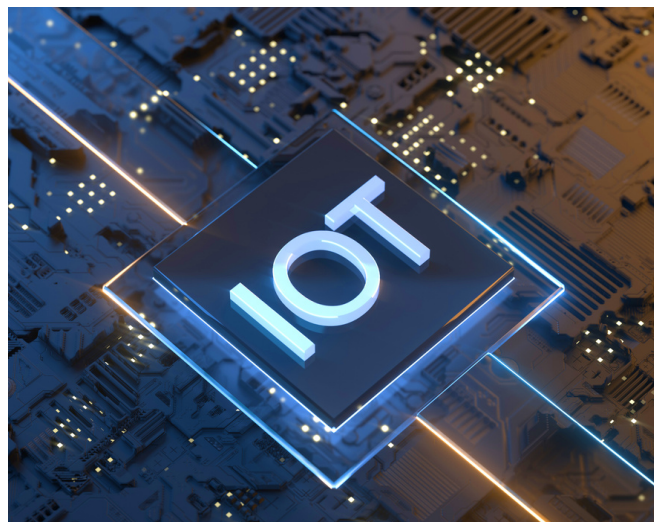
decision makers considered Telecom as a key enabler for the growth of IoT use cases.

## IoT in India and Future Outlook

- The IoT devices market in India is expected to reach USD 10,276.8 million by 2030, with a CAGR of 23.2% from 2025–2030 (Grand View Research).
- In 2024, the market revenue was USD 2,885.5 million, with sensors being the largest segment (40.78% revenue share).
- India's share of the global IoT devices market in 2024 is 4.1%.

The Indian telecom sector is witnessing a rapid adoption of IoT, driven by advancements in 5G, digital infrastructure, and government policies. This growth is fueled by a rich talent ecosystem, with 30-40K professionals dedicated to IoT.

- Applications in Telecom: Telecom companies are increasingly using IoT for network optimization, asset tracking, and energy management. For instance, IoT enables real-time monitoring of telecom towers, reducing downtime and improving efficiency. The evidence leans toward telecom operators exploring new business models in smart cities, healthcare, and industrial automation.



# TELECOM SECTOR SKILL COUNCIL

## EMPOWERING IN THE INTERNET OF THINGS

The Telecom Sector Skill Council is addressing the adoption of Internet of Things by upskilling India's youth through several skill development projects.

TSSC builds the foundation skills required in telecom which are further leveraged in technologies such as IoT, wireless networking, cyber security etc. TSSC also has certifications in certain dedicated IoT devices, solutions which are mentioned here.

TSSC ensures young professionals are job-ready and innovation-driven. This initiative is key to shaping a secure, sustainable and globally competitive telecom future for India.



### Introduction to IoT ONLINE CERTIFICATION

Explore the fundamentals of the Internet of Things (IoT) and its real-world applications. This course covers key hardware like microcontrollers, Raspberry Pi, and Arduino, along with essential components such as sensors and actuators. Ideal for beginners, it offers hands-on insights into building smart, connected systems.

Join over **5,000 students** who have already enrolled and kickstart your journey into the future of technology.

Hosted on: Skill India Digital Hub and TelcoLearning.com

### Dedicated to IoT QUALIFICATION PACKS



#### Telecom Technician: IoT Devices & Systems

QP Code: TEL/Q6210  
NSQF Level: 4  
Duration: 510 Hours

##### Role Overview:

Responsible for onsite installation, configuration, and establishing communication protocols for IoT devices at customer locations.



#### IoT Technical Service Operator

QP Code: TEL/Q6214  
NSQF Level: 3  
Duration: 750 Hours

##### Role Overview:

An IoT Technical Service Operator is responsible for providing technical support concerning the Internet of Things (IoT) systems, including diagnosing and rectifying faults in them



#### IoT Installation Solution Architect

QP Code: TEL/Q6216  
NSQF Level: 5  
Duration: 630 Hours

##### Role Overview:

The individual in this job is responsible for provisioning of end-to-end circuits and managing network elements from a centralized server for a Network Management System.

*Start your journey in IoT with skill development programs by TSSC and earn Skill India certifications. These programs are open to individuals, professionals, and institutions looking to build future-ready tech skills.*



## SKILL INDIA CERTIFICATION: ONLINE COURSE

# Introduction to Internet of Things (IoT)

By Telecom Sector Skill Council & Skill India Digital Hub



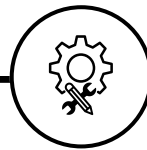
### Skill India Certification

Earn a **Skill India** certificate that's known and trusted across the country.



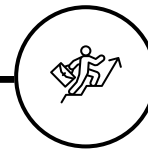
### Easy to Learn

Anyone can join! You don't need to know coding or engineering.



### Industry Relevant Skills

Understand IoT in a simple way that matches what companies need today.



### Boost Your Career

Knowing IoT gives you an extra edge when applying for tech jobs.

This course teaches you the basics of the Internet of Things (IoT), a technology that makes devices smarter and more connected. You'll learn how small computers and simple tools work together to build basic projects. You'll also find out how these devices collect data and work on their own. It's a good starting point, even if you're new to this.

For any queries, you can write to us at:  
[neil.franklin@tsscindia.com](mailto:neil.franklin@tsscindia.com)



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## Sector Growth Metrics: Subscriber Additions and Market Dynamics

India's telecom sector maintained strong momentum in May 2025, adding 3.05 million new subscribers to reach 1.20 billion users. Rural areas led the growth, pushing the wireless user base to 1.17 billion.

Mobile broadband stayed dominant with 896.81 million users, while wireline connections rose to 37.41 million. Reliance Jio and Bharti Airtel held over 80% of the broadband market, with Jio alone serving 476 million users.

Key stats include 13.48 million MNP requests, 85.19% national tele-density, and rising M2M connections now at 69.87 million. Backed by affordable data and digital policies, India remains the world's second-largest telecom market.

## DoT Initiates Review of Make-in-India Public Procurement Policy for Telecom

The Department of Telecommunications (DoT) is reviewing its Make in India public procurement policy for telecom, originally issued in October 2024. It is inviting industry feedback on updating the product list, local content criteria, and calculation methods.

The review aims to address implementation challenges and ensure the policy stays relevant to India's telecom manufacturing sector. Stakeholders have 30 days to submit their inputs.



## Industry Update: India Sets New Benchmarks in Telecom Infrastructure

India's telecom growth continues to gain global recognition, with Union Minister Pemasani Chandra Sekhar highlighting the country's groundbreaking progress at the recent BRICS Communication Ministers' meeting in Brazil.

India has now connected over 95% of its population, extending high-quality fibre connectivity to nearly every village. Additionally, 80%+ of the country has access to 5G, showcasing a remarkable digital transformation powered by best practices, satellite-based reforms, and strong anti-fraud measures.



# TELECOM SECTOR SKILL COUNCIL ESTABLISHING SKILL LABS

Telecom Sector Skill Council has undertaken CSR programs for developing skills in future technologies. A key part of these programs are establishing Centres of Excellence or Skill Labs which are beacons of training in tech such as 5G, Internet of Things, Device repair etc.

Not only CSR, but Skill Labs become exemplary projects when promoting Industry - Academia collaborations.

Skill Labs instill hands-on learning towards curated skill sets, which enable students of all demographics to be job ready and soar towards a Digital India.

Our CoE Partners

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Since 1998  
Britco & Bridco  
India's First & Exclusive

Skill Labs by Telecom  
Sector Skill Council:

- 5G Technology
- Internet of Things
- Handheld Device Repair
- AI Devices
- Telecom Line Assembly

Vodafone Idea's CSR initiative at Indira Gandhi Delhi Technical University for Women (IGDTUW) has empowered **over 700 women** with job-ready skills in the **field of IoT**.



### TSSC Wins Voice&Data Excellence Award 2024 for Skilling and CSR Initiatives



We are honoured to announce that the Telecom Sector Skill Council (TSSC) has received the Voice&Data Excellence Award 2024 in the Skilling and CSR category for positively impacting over **1 Million lives, through CSR and Government Projects.**

This prestigious recognition reinforces our commitment to creating a future-ready workforce and driving transformation in India's telecom sector through industry-led skilling, capacity building, and impactful CSR initiatives.

### Recruitment Drive with ACT Fibernet

Organized by ACT Fibernet in collaboration with TSSC through TelcoJobs.in, the webinar saw 100+ participants gain valuable insights into career opportunities, job roles, and growth pathways in the telecom sector, especially in the evolving landscape of connectivity and internet services.



Webinar led by:

**Joel Pinto**

HR Manager  
ACT Fibernet



Post the webinar, two rounds of interviews were conducted for the roles of Field Sales Associate and Field Network Engineer in the Bengaluru region.

Motivated and skilled candidates were given the opportunity to launch or elevate their careers in the fast-paced and evolving telecom industry.

**TelecoLearning.com**, TSSC's e-learning platform, offers flexible, self-paced courses designed to meet current industry needs.

Covering both foundational and advanced telecom skills, the platform ensures accessible, high-quality training for learners across India, anytime, anywhere.



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To know more, explore  
**[www.telcolearning.com](http://www.telcolearning.com)** or write to  
us at **[tssc@tsscindia.com](mailto:tssc@tsscindia.com)**

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## Placement Drive For Datacorp Traffic



On Thursday, 15th May 2025, the Telecom Sector Skill Council (TSSC), through its job portal TelcoJobs.in, hosted a successful placement drive at the CII Model Career Centre, DLF City Court, Sikanderpur, Gurgaon.

Special thanks to Datacorp Traffic for supporting India's youth with job opportunities in tech-enabled backend operations. The drive saw enthusiastic participation from jobseekers eager to launch their careers in the telecom sector.

## TSSC Partners with Didac Skills 2025



The Telecom Sector Skill Council (TSSC) is proud to partner with DIDAC SKILLS 2025, Asia's leading exhibition and conference on the Future of Work, happening from 18-20 November 2025 at Yashobhoomi, Dwarka, New Delhi.

TSSC is committed to bridging the skills gap in the telecom industry by promoting quality training and certification. Through this partnership, we aim to showcase our efforts in building a skilled, future-ready workforce to support India's growth in the digital era.

Together with DIDAC SKILLS 2025, we look forward to driving innovation and collaboration for a stronger, more skilled India.

## Academia Connect

### Placement Orientation Session for DSEU Candidates

On 21st May 2025, the Telecom Sector Skill Council (TSSC) visited the Delhi Skill and Entrepreneurship University (DSEU), Okhla campus, where Ericsson has set up a state-of-the-art Centre of Excellence under its CSR initiative with TSSC, currently training over 200 students.

Mr. Harsh Vardhan, Senior Manager at TSSC, led a placement orientation session for students nearing course completion, highlighting how TelcoJobs.in can support them in landing their first telecom industry role.



## Make Hiring Easy!

### Become TSSC's **Placement Partner** with **TelcoJobs.in Pro**

Gain access to over 70,000 skilled job seekers who actively searched for telecom roles on **TelcoJobs.in** during FY 2024-25.



To become a partner, write to us at  
**harsha.vardhan@tsscindia.com**

## Placement Drive at SDGI Global University, Ghaziabad



On 10th May 2025, TSSC, via TelcoJobs.in, participated in the Mega Job Fair at SDGI Global University, Ghaziabad.

With 500+ candidates and key hiring partners like Digitide Solutions and Arnav Infosoft, the event was a strong step toward empowering telecom talent.

## Drone Data Processor Training in Meerut Under MeitY's SwaYaan Scheme



Telecom Sector Skill Council (TSSC) is pleased to announce the commencement of its Drone Data Processor training program at Dewan VS Group of Institutions, Meerut.

This initiative is being implemented under the SwaYaan scheme by the Ministry of Electronics and Information Technology (MeitY), with Morning Global Pvt. Ltd. serving as the official Training Partner.

The first batch comprises 120 enthusiastic students, eager to build careers in the rapidly growing drone technology sector.

## TSSC Signs MoU with Assam Skill University to Boost Telecom Skill Development



The Telecom Sector Skill Council (TSSC) has signed an MoU with Assam Skill University to advance industry-academia collaboration and enhance telecom and technology education in Assam. The partnership will focus on co-developed curricula, practical training, and improved placement support. Salil Nath, Regional Manager (NER), represented TSSC at the signing.

The initiative aims to equip students with future-ready skills and establish Assam as a leader in skill-based growth. TSSC extends gratitude to Vice Chancellor Shri Subhash Chandra Das, Registrar Md. Hanif Noorani, and the ASU team for their support.

For industry and  
academia collaborations,  
write to us at  
**[tssc@tsscindia.com](mailto:tssc@tsscindia.com)**



# Empowering Rural India through Digital Skilling: A Perspective from CSC Academy

June 2025

**About the Author: Naveen Sharma**, Chief Operating Officer at **CSC Academy**, has 18+ years of experience across government, public, and private sectors. He specializes in digital rural skilling, social entrepreneurship, and institutional frameworks. At CSC e-Governance Services, he leads research, analytics, and e-learning content. Naveen is dedicated to building sustainable, impactful capacity-building initiatives.



**Naveen  
Sharma**

Chief Operating Officer  
CSC Academy

## Introduction

Literacy today extends beyond reading and writing to include digital proficiency, media literacy, and workforce readiness (UNESCO, n.d.). In India, rural literacy increased from 67.77% in 2011 to 77.5% in 2023–24, aided by programs like the Nav Bharat Saksharta Karyakram (India Today, 2024; NCERT, n.d.). However, challenges remain: youth unemployment in rural areas is 18.4%, and 76.7% of the educated unemployed are women (Drishti IAS, 2024; Centre for Economic Data and Analysis, 2024).

## Digital Skilling: The Need

Despite abundant talent, rural India lacks structured skilling platforms. CSC Academy bridges this gap using localized content and digital tools. The CSC CSR Conclave 2025 highlights public-private partnerships to advance rural inclusion (Press Information Bureau, 2025).

## Accessible Learning Platforms

Courses in regional languages, gamified content, audio-visual aids, and blended learning (digital + instructor-led) ensure engagement and retention, especially where literacy levels are low.

## Skills for the Future

CSC Academy's curriculum includes AI, IoT, and cloud computing. Collaborations with global leaders and startups promote entrepreneurship and job readiness.

## Inclusive Skilling Ecosystem

Over 600,000 Common Service Centres (35,000+ run by women) offer scholarships, flexible schedules, and women-focused training centres, ensuring wide participation.

## Continuous & Hands-On Learning

Partnerships like CSC Academy–TeamLease EdTech's Digiversity support ongoing upskilling. Courses begin with digital literacy and progress to industry-certified skills like Optical Fiber Splicing (Economic Times Telecom, 2023; Business Standard, 2023).

## Conclusion

CSC Academy plays a vital role in India's digital transformation, aligning with the Skill India Mission and Telecom Sector Skill Council. Its inclusive, tech-forward skilling model empowers rural youth to bridge the urban-rural divide.

As we stand at the intersection of telecom and the Internet of Things (IoT), it's clear that the future is not just connected, it's intelligent. The fusion of telecom infrastructure with IoT innovation is creating unprecedented opportunities for smart cities, automated industries, and a more connected society.

At the Telecom Sector Skill Council, we remain committed to skilling the workforce that will power this transformation. As technology evolves, so must our talent. Together, let's build a future-ready India, equipped to lead in the era of intelligent connectivity.



**Mr. Praveen Sirohi**

CEO (Interim), Telecom Sector Skill Council (TSSC)

EMPOWERING THE  
WORKFORCE, ADVANCING THE  
NATION'S DIGITAL FUTURE.

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