WAVES

"To Develop Telecom Leaders Through Excellence in Education and Research"

Newsletter

Issue: 11 **July 2026**



Celebrating 25 Years of Excellence in Education, Research, and Innovation!

School Activities

- Message from Head, Bharti School
- Visit of **Shri Jyotiraditya Scindia,** Union Minister of Communications and the Minister of Development of North Eastern Region in the Government of India
- Online PG Diploma Programmes
- Bharti Lectures & Talks
- Bharti Airtel Foundation Scholarship Scheme
- Industry Visits to Bharti Airtel Network Centre
- Workshops
- Showcases Q-FORGE™ at Bharti School

Students Activities

- Awards & Honours
- Placement Highlights
- Student's Views
- Social & Educational Outreach Programme

MESSAGE FROM HEAD, BHARTI SCHOOL

Greetings!



The past year has been highly productive for the Bharti School of Telecommunication in terms of its academic and technical progress. During this period, the School has strengthened its collaborations with industry partners and government agencies, further enhancing its research and innovation ecosystem.

In addition to its existing research strengths, the Bharti School has expanded into three new strategic research domains: Quantum and AI Communications, Satellite Communications, and Vehicle-to-Everything (V2X) Communications. These emerging areas position the School at the forefront of next-generation telecommunication technologies.

Guided by our Vision 2035, the coming decade presents a transformational opportunity for the Bharti School to emerge as a premier centre for advanced telecommunication technologies and interdisciplinary innovation. The School is committed to introducing globally competitive academic programmes that are aligned with emerging technologies and evolving industry requirements.

Over the past year, we also launched a scholarship scheme for selected economically disadvantaged M.Tech., MS(R), and Ph.D. students, generously sponsored by the Bharti Airtel Foundation. These students, designated as “Bharti Scholars,” have greatly benefited from this initiative, which has been highly appreciated by the student community.

With sustained efforts, continued support, and the goodwill of all our stakeholders, I am confident that we will take the Bharti School to even greater heights in the years to come.

Best Wishes,
Prof. Manav Bhatnagar
Head, Bharti School

SCHOOL ACTIVITIES

VISIT OF SHRI JYOTIRADITYA SCINDIA, UNION MINISTER OF COMMUNICATIONS AND THE MINISTER OF DEVELOPMENT OF NORTH EASTERN REGION IN THE GOVERNMENT OF INDIA

On 30 January 2026, Shri Jyotiraditya Scindia, Union Minister of Communications and Minister for Development of North Eastern Region, visited the Bharti School laboratories and interacted with students and faculty members. Where students presented cutting-edge advancements in tactile internet and haptic robotics technology.











ONLINE PG DIPLOMA PROGRAMME

Bharti School has launched two new online postgraduate diploma programmes aimed at empowering professionals with advanced skills in emerging technologies:

- **PG Diploma in Advanced Communication Engineering with Quantum and AI Integration**

  This 12-month programme is designed to equip working professionals with advanced knowledge and practical expertise in next-generation technologies. The curriculum focuses on Artificial Intelligence (AI), Machine Learning (ML), advanced wireless communications (5G/6G), quantum communication, and cybersecurity, preparing participants for leadership roles in the rapidly evolving telecommunications and networking sectors.

- **PG Diploma in AI-ML for Managers**

The Online Post Graduate Diploma in AI-ML for Managers is a rigorous 12-month, credit-bearing programme designed for professionals seeking to lead AI-driven transformation initiatives. Delivered by faculty from the Department of Electrical Engineering and the Department of Management Studies under the aegis of the Bharti School of Telecommunication Technology and Management, IIT Delhi, the programme is offered in a live online format. It equips learners with the frameworks, tools, and practical skills required to design, evaluate, and manage AI and ML systems at scale.

Both programmes are tailored to prepare professionals for leadership roles in digital transformation, intelligent systems, and next-generation technology-driven industries.

BHARTI LECTURES & TALKS

TECHNICAL TALKS

3rd December 2025

“Applications of Superconductivity in the Advancement of Telecom”

By
Dr. Amar Nath Ray,
Scientist, Founder, ATT&C, USA



5th January 2026

“Wireless Communication in Automotive Vehicles"

By
Dr. Prachi Mittal,
Global Technical Lead at Wireless Mobility, Germany



4th February 2026

“Virtualized Edge Computing in the Vehicular Micro Cloud"
By
Prof. Falko Dressler,
Chair for Telecommunication Networks, School of Electrical Engineering and Computer Science, TU Berlin



GUEST TALK

4th November 2025

"From Clicks to Crises: Researching the Wild World of Information Systems through a Cyber Len"

By

Prof. Manimuthu Arunmozhi,

Aston University, UK



19th March 2025

"Achieving Extreme Link Reliability for (x)URLLC Services in 5G/6G Networks"

By

Dr Miguel Lopez-Benitez,

Senior Lecturer (Associate Professor), School of Computer Science and Informatics, University of Liverpool, UK



BHARTI LECTURE

19th September 2025

"AI: What is to be done"

By

Prof. Struart J. Russell

Fellow of the royal society University of California, Berkeley



INDUSTRY VISITS TO BHARTI AIRTEL NETWORK CENTRE



Students and faculty members of the Bharti School of Telecommunication Technology and Management, IIT Delhi, recently visited the Bharti Airtel Network Centre at Manesar, followed by an interactive session at the Airtel office in Gurugram on April 2026

The visit provided participants with valuable exposure to real-world telecom operations and infrastructure. Key areas explored during the visit included:

- DTH Network Operations Centre (NOC)
- Core Telecom NOC Operations
- Real-Time Network Monitoring and Troubleshooting
- Service Delivery and Infrastructure Management
- Emerging Technological Challenges and Industry–Academia Collaboration

The experience provided a deep dive into practical telecom operations and emerging technologies like 4G/5G, network optimization, and analytics. The interaction session also included an in-depth discussion on recent technological challenges in the telecom sector and their practical solutions through strong industry-academia collaborations. These conversations provided valuable insights into real-world problem-solving approaches, innovation strategies, and evolving career pathways in the te lecom domain.



In May students and faculty members of the Bharti School of Telecommunication Technology and Management, IIT Delhi, visited the Bharti Airtel Network Centre at Manesar, followed by an insightful interaction session at the Airtel office in Gurugram. During the visit, participants explored various aspects of telecom operations, including :

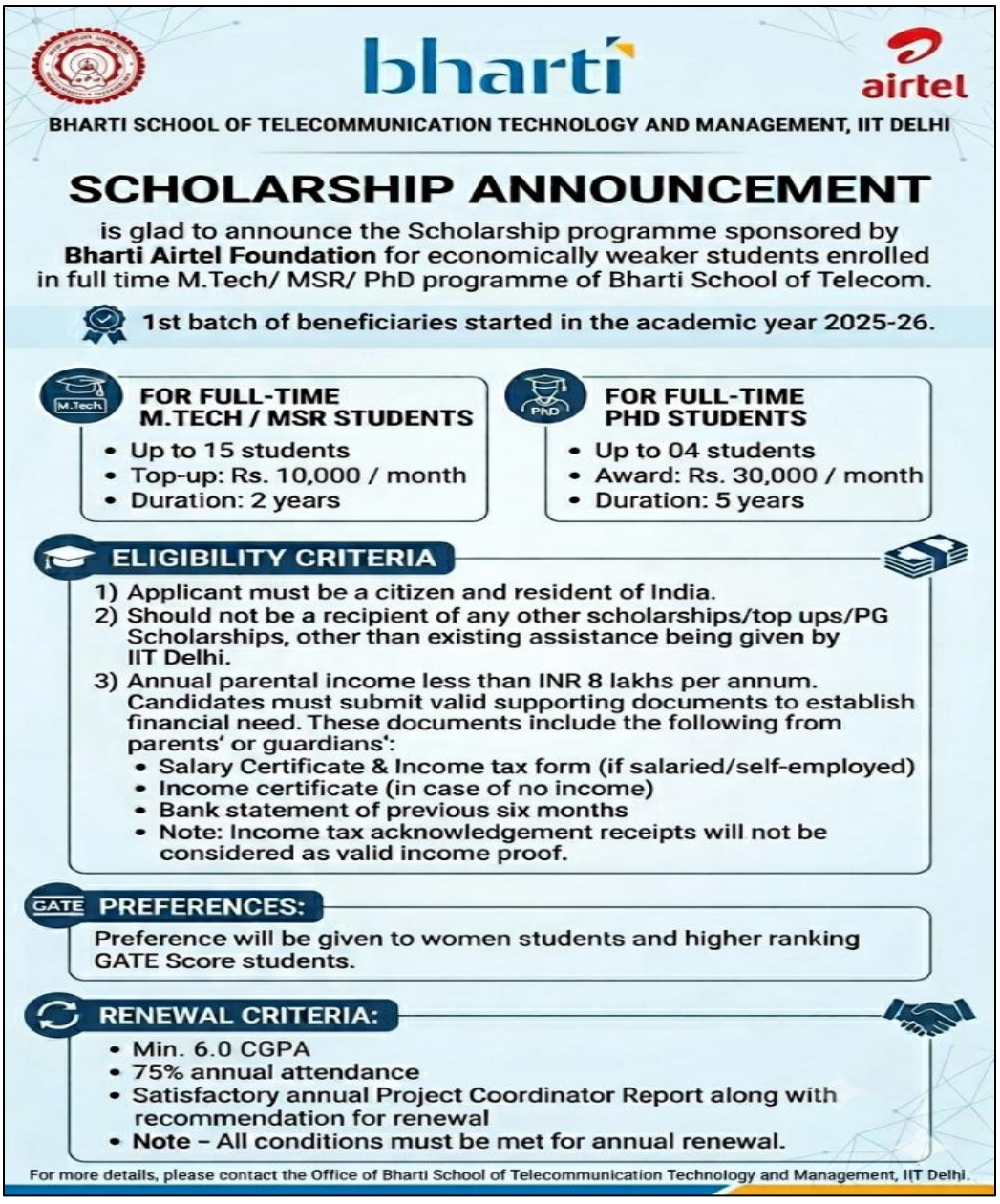
- DTH Network Operations Centre (NOC)
- Core Telecom NOC Operations
- Real-Time Network Monitoring and Troubleshooting
- State-of-the-Art 5G Laboratories

Organized under the Bharti Airtel Foundation initiative, the visit successfully bridged the gap between classroom learning and industry practices, enabling students to gain first-hand exposure to cutting-edge telecom infrastructure and operations.

BHARTI AIRTEL FOUNDATION SCHOLARSHIP SCHEME

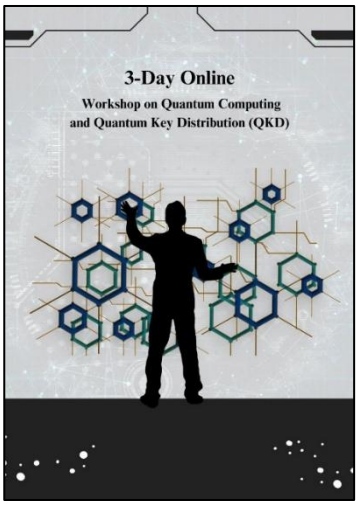
Bharti School announced a scholarship programme sponsored by the Bharti Airtel Foundation for economically disadvantaged students enrolled in the full-time M.Tech, MS(R), and Ph.D. programmes.

The scholarship aims to support meritorious students by providing financial assistance, enabling them to pursue higher education and research without financial constraints. Through this initiative, the Bharti Airtel Foundation continues its commitment to promoting inclusive education and empowering talented students to achieve their academic and professional aspirations.



WORKSHOP

➢ WORKSHOP ON QUANTUM COMPUTING AND QUANTUM KEY DISTRIBUTION



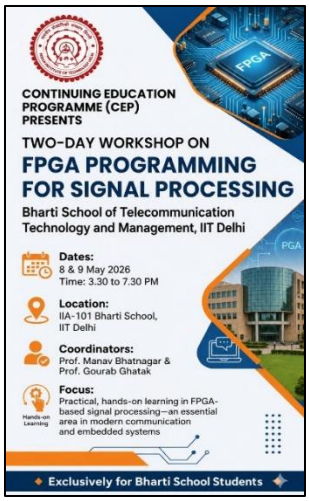
The Continuing Education Programme (CEP), IIT Delhi, is organizing a three-day workshop on Quantum Computing and Quantum Key Distribution (QKD) from 27 February to 1 March 2026.

The workshop is designed for students, researchers, academicians, and industry professionals seeking foundational and practical knowledge in quantum technologies. Key topics include quantum computing fundamentals, quantum gates and measurements, BB84 and E91 QKD protocols, DV-CV QKD, free-space quantum communication, quantum machine learning, and industrial applications of quantum computing.

The programme features expert lectures from leading academicians and industry professionals, complemented by hands-on laboratory sessions. Participants will receive exclusive access to the Visual QC Lab and VQKD Lab, enabling practical experience with quantum computing and secure communication systems.

The workshop provides an excellent opportunity to gain insights into emerging quantum technologies, interact with experts, and explore real-world applications of quantum communication and computing.

➢ WORKSHOP ON FPGA PROGRAMMING FOR SIGNAL PROCESSING



The Bharti School of Telecommunication Technology and Management, IIT Delhi, successfully organized a two-day Workshop on FPGA Programming for Signal Processing on 8–9 May 2026.

Key topics covered during the workshop included:

- Introduction to 5G and Beyond Research Program & Importance of FPGA
- IOS-MCN Mobile Network
- AMD RFSoC Building Blocks
- NR Low PHY Design
- 5G NR OAI UE and SIC
- FPGA Skill Development

The sessions provided valuable insights into emerging technologies and equipped participants with practical skills relevant to advanced communication and signal processing systems. The programme served as an excellent platform for fostering technical learning, innovation, and industry-relevant expertise in FPGA-based applications. The workshop brought together students, researchers, and professionals to gain practical exposure to FPGA-based system design and its applications in modern communication systems.

➢ QUANTUM INNOVATION UNLEASHED: BHARTI SCHOOL HOSTS HANDS-ON QUANTUM COMMUNICATION WORKSHOP

In April 2026, the Bharti School of Telecommunication Technology & Management, IIT Delhi, hosted an intensive, two-day program titled “A Workshop of Quantum Communication Hands-On.” Specifically organized for the students and faculty of the Bharti School, the event brought together an eager campus cohort looking to delve into the next generation of secure networking. Moving away from purely equation-heavy instruction, the workshop featured prominent academic and industry expertise who utilized labs and live simulations to build deep technical intuition. Over the course of the event, attendees explored foundational quantum concepts-including Quantum Mechanics 101, photon entanglement, and qubit coding-before advancing to hands-on quantum channel simulations, data acquisition (DAQ) experiments, and secure data transfer protocols under real-world constraints. The review and feedback from the attending students and faculty were exceptionally encouraging, with participants highly lauding the practical, “hands-on” experimental focus that seamlessly bridged the gap between abstract quantum physics and state-of-the-art telecommunication engineering.



Showcases Q-FORGE™ at Bharti School

Q-FORGE™, a next-generation visual platform for exact quantum algorithm simulation developed by QInsight Labs, was recently showcased at the Quantum & AI Innovation Lab established at the Bharti School of Telecommunication Technology and Management, IIT Delhi. Designed to accelerate quantum research, education, and industrial innovation, the platform is powered by its proprietary Adaptive Exact Execution architecture, which intelligently analyzes quantum circuits and automatically selects the most computationally efficient exact simulation engine. This enables researchers to validate and optimize quantum algorithms with high numerical accuracy.

The platform is now available to the faculty members, researchers, and students of the Bharti School, providing an advanced indigenous platform to support cutting-edge research and innovation in Quantum Computing and Artificial Intelligence.

Speaking on the occasion, Prof. Manav Bhatnagar, Head of the Bharti School of Telecommunication Technology and Management, IIT Delhi, remarked that the introduction of Q-FORGE™ marks the beginning of a new era in quantum education and research by equipping researchers with a powerful indigenous platform for innovation and capability building.

Mr. Saurabh Joshi, Director of QInsight Labs Pvt. Ltd., highlighted that Q-FORGE™ embodies the company's Visualization First™ philosophy, offering researchers and educators an intuitive, exact, and scalable environment to transform quantum concepts into practical innovations.

The introduction of Q-FORGE™ at the Bharti School represents a significant step towards strengthening India's indigenous quantum technology ecosystem and further enhancing industry–academia collaboration in advanced quantum research.





STUDENTS ACTIVITIES

AWARDS & HONOURS

Bharti Merit Award & Best Women Graduate Award 2024-25

BHARTI SCHOOL OF TELECOMMUNICATION TECHNOLOGY AND MANAGEMENT
INDIAN INSTITUTE OF TECHNOLGY DELHI

BHARTI MERIT AWARD 2024-26

CONGRATULATIONS!!!

M.Tech (Telecom Technology Management)

1st Position



Vamshi Tirupati Bollam
(2024JTM2060)

2nd Position



Saurabh Chauhan
2024JTM2716

3rd Position



Ishan Kumar
2024JTM2075

M.B.A (Telecom Systems Management)

1st Position



Arnav Aggarwal
(2024SMT6651)

2nd Position



Kumari Bhawna
(2024SMT6634)

3rd Position



Nupur Malik
(2024SMT6622)

4th Position



Ambuj Garg
(2024SMT6780)

5th Position



Chowtha Yaswanth Kumar
(2024SMT6774)

Best Women Graduate Award

M.Tech ((Telecom Technology Management) and M.B.A (Telecom Systems Management)



Jahanvi Dagga
(2024JTM2083)



Pulijala Manjula
(2024JTM2717)



Kumari Bhawna
(2024SMT6634)

THE AWARD DISTRIBUTION CEREMONY IS SCHEDULED TO BE HELD ON 15TH APRIL, 2026 AT 11:30 AM IN SEMINAR ROOM (IIA- 101), BHARTI SCHOOL



PLACEMENTS HIGHLIGHTS

Bharti School continued its strong placement performance during the academic year, with students from both the M.Tech and MBA programmes securing positions in leading national and multinational organizations across telecommunications, technology, consulting, analytics, banking, manufacturing, and consumer goods sectors.

The impressive placement outcomes reflect the academic excellence, industry-oriented curriculum, and strong professional capabilities of Bharti School students.We congratulate all the students on their achievements and wish them continued success in their professional journeys.

Companies who recruited MBA Students:

Axtria, Bain Capability Network, Reckitt, ICICI Bank, Citi, M3M, PSA Global, Rockwell Automation, Alvarez & Marsal GCC, Incedo, C-Dot, Compass Group, Yes Bank, DE Shaw, Axis Bank, Accenture AI, PwC India, Havells, A. P. Moller Maersk

Highest Salary Offered: Rs. 45.30 Lac P.A.

Average Salary Package: Rs. 22.29 Lac P.A.

Companies who recruited M.Tech Students:

Qualcomm, Hcltech, Timble Technologies, Eaton Technology, Indus Insights and Analytical Services, Elucidata, Velankani

Highest Salary Offered: Rs. 51 Lac P.A.

Average Salary Package: Rs. 20.14 Lac P.A.

BHARTI STUDENT'S VIEWS



VAMSHI BOLLAM
(2024JTM2060)

"My journey pursuing an M.Tech in Telecommunication Technology and Management at the Bharti School has been an incredibly enriching experience, deeply shaped by both the academic environment and the people. I had the privilege of learning from exceptional faculty members like Prof. Swades De, Prof J. Harshan and Prof. Saif Khan Mohammed, whose expertise provided a strong theoretical foundation for my studies. A major highlight of the program was the access to well-equipped laboratories, which allowed me to bridge theory and practice by working extensively with Software-Defined Radios (SDRs) for my research projects. Beyond the technical learning, the supportive atmosphere created by the incredibly helpful staff—especially Savita Madam, Manoj Sir and Aashish Sir —made navigating the daily rigors of the program much smoother and truly memorable."



MANISH BANSAL
(2019BSZ8516)

"My journey at Bharti School has been truly beautiful, enriching, and enlightening. The focus is entirely on research and I learned a lot here. Rather than putting researchers in bureaucratic hurdles, the school provides a hassle-free environment where one can grow with a free mind. Like big companies such as Google, researchers are given the freedom to work on their own time. All the administrative staff has been very supportive. I interacted a lot with Ms. Savita and Mr. Dileep, who are always just a phone call away for any need, be it something as small as paper and printing or getting help from other departments and administrative units of the institute."

SOCIAL & EDUCATIONAL OUTREACH PROGRAMME

The Bharti School of Telecommunication Technology and Management, IIT Delhi, successfully organized a Two-Day Social & Educational Outreach Programme on 23–24 June 2026 in collaboration with a partnering NGO.

The programme aimed to inspire young learners by introducing them to emerging technologies and higher education opportunities in engineering. Around 15 students participated in the initiative and were mentored by Bharti School research scholars through interactive sessions and hands-on activities. The programme covered a range of topics, including:

- Introduction to Python Programming
- Basic Computer Skills
- Artificial Intelligence and Machine Learning
- Career Opportunities in Engineering
- Visit to the Wireless Communication Laboratory

The Bharti School extends its sincere appreciation to the collaborating NGO, faculty members, research scholars, and volunteers whose enthusiastic participation and support made this outreach programme a meaningful and enriching experience for all the students.







Visit us at www.bhartischool.iitd.ac.in

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