IOT Society of India, Lucknow

A Society registered under Sec 21 of the Societies Registration Act – 1860
A Society registered under NITI Aayog, Government of India.

Greetings and a Happy New Year from the **IoT Society of India (ITSI)**! As we step into 2026, we are excited to launch the inaugural edition of our quarterly newsletter, a key initiative aimed at fostering collaboration, awareness, and knowledge-sharing across the vast and dynamic landscape of the Internet of Things (IoT).

ITSI, a professional society registered under Section 21 of the Societies Registration Act – 1860 and recognized by NITI Aayog, Government of India, is committed to connecting academia, industries, and corporate entities working in IoT. Our society comprises a growing community of IoT professionals, researchers, entrepreneurs, and enthusiasts, both in India and abroad. Through this newsletter, we aim to keep our members informed about the latest trends, innovations, and applications in IoT, as well as highlight the incredible work being done within our different chapters and divisions.

In this edition, we also provide an overview of the **16 specialized divisions** that focus on cutting-edge technologies such as Artificial Intelligence, Data Science, Cybersecurity, Smart Cities, Healthcare, Industrial IoT, Robotics, Blockchain, and much more. These divisions are key to ensuring that the IoT Society of India remains at the forefront of the IoT revolution, driving collaboration and advancing knowledge in critical areas.

Our mission is to bring together thought leaders, innovators, and practitioners from various domains to create a stronger, more interconnected IoT ecosystem in India and beyond. Stay tuned for regular updates on emerging trends, upcoming events, research insights, and opportunities to engage with the IoT community.

IN THIS ISSUE

Thank you for being a part of this exciting journey. We look forward to the continued growth of the IoT Society of India, and we hope this newsletter becomes a valuable resource for you throughout the year.

Warm regards,
The IoT Society of India Team
Connecting the Future, Today!

IOT Events

Understanding Internet of Things (IoT) and AI – A Technical Session by IoT Society of India in Association with Kunwar's Global School

On May 11, 2024, the **IoT Society of India (ITSI)**, in association with **Kunwar's Global School, Lucknow**, successfully organized an educative and informative technical session titled **"Understanding Internet of Things (IoT) and AI"**. The session, which took place from **11:00 am to 12:00 pm** at the **Kunwar's Global School Auditorium, Lucknow**, attracted more than **200 students, delegates, and industry experts**.

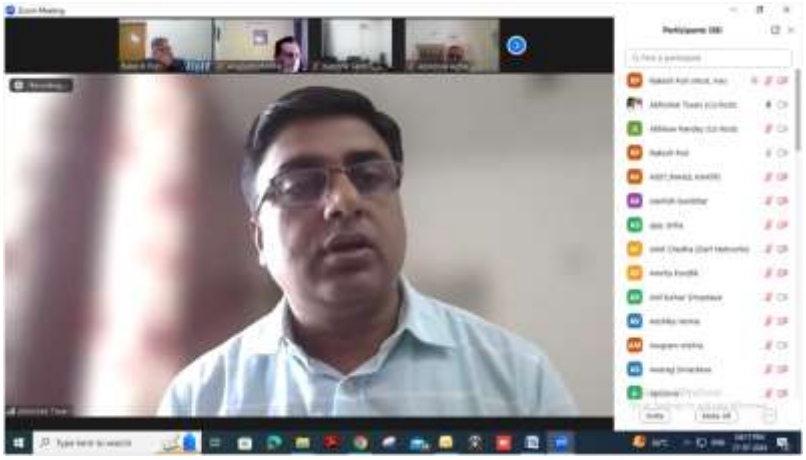
The session aimed to provide insights into the rapidly evolving fields of **IoT and Artificial Intelligence (AI)**, exploring their interconnectedness and practical applications across various sectors. The event was designed to bridge the gap between theoretical knowledge and real-world applications, ensuring participants gained a comprehensive understanding of these transformative technologies.

Dr. Dheeraj Mehrotra: The session was delivered by **Dr. Dheeraj Mehrotra**, **President of the IoT Society of India (ITSI)**, who shared his extensive expertise in IoT and AI. Dr. Mehrotra provided a detailed overview of IoT technology, its applications in various industries, and the synergies between IoT and AI that are driving innovation. His presentation emphasized the immense potential of IoT and AI in transforming sectors such as healthcare, smart cities, and industrial automation.

Webinar 01 :

IoT and AI Integration – Enhancing Startup Capabilities through Advanced Technologies

On **July 27th, 2024**, the **IoT Society of India (ITSI)** hosted a highly insightful online session on the topic **"IoT and AI Integration – Enhancing Startup Capabilities through Advanced Technologies"**. The session took place from **4:00 PM to 5:00 PM (IST)** via **Zoom**, offering a unique platform for entrepreneurs, startups, and technology enthusiasts to explore how **Internet of Things (IoT)** and **Artificial Intelligence (AI)** can be leveraged to drive innovation, efficiency, and scalability in startup environments.

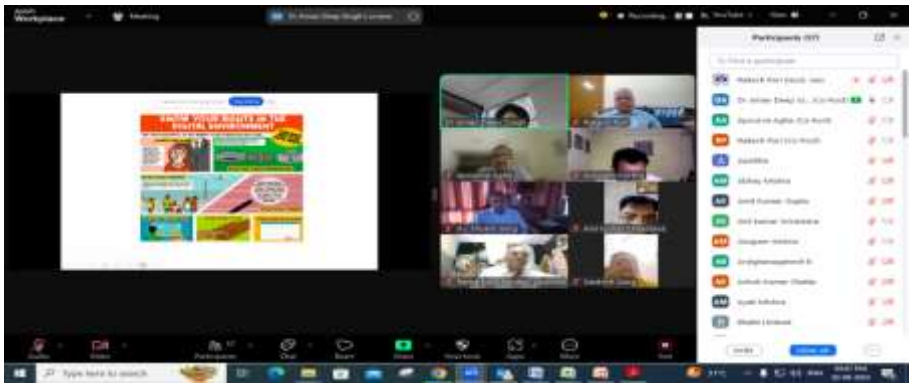


The session was led by **Mr. Abhishek Tiwari**, **Program Director at KPMG, Lucknow**, a seasoned expert with vast experience in implementing advanced technological solutions for businesses, including startups. Mr. Tiwari shared his valuable insights on how integrating IoT and AI can significantly enhance the capabilities of startups, helping them optimize processes, improve customer experiences, and unlock new growth opportunities.

Webinar 02 :

Digital Human Rights and the Impact of IoT Technologies

On **Friday, 20th September 2024**, the **IoT Society of India (ITSI)** hosted an engaging and thought-provoking webinar titled **"Digital Human Rights and the Impact of IoT Technologies"**. The session, held from **04:00 PM to 05:00 PM** via **Zoom**, explored the critical intersection between **Internet of Things (IoT)** technologies and **human rights**, with a focus on ensuring privacy, security, and ethical use in the digital age.



The webinar featured distinguished speakers who shared their insights into the complex relationship between IoT technologies and human rights:

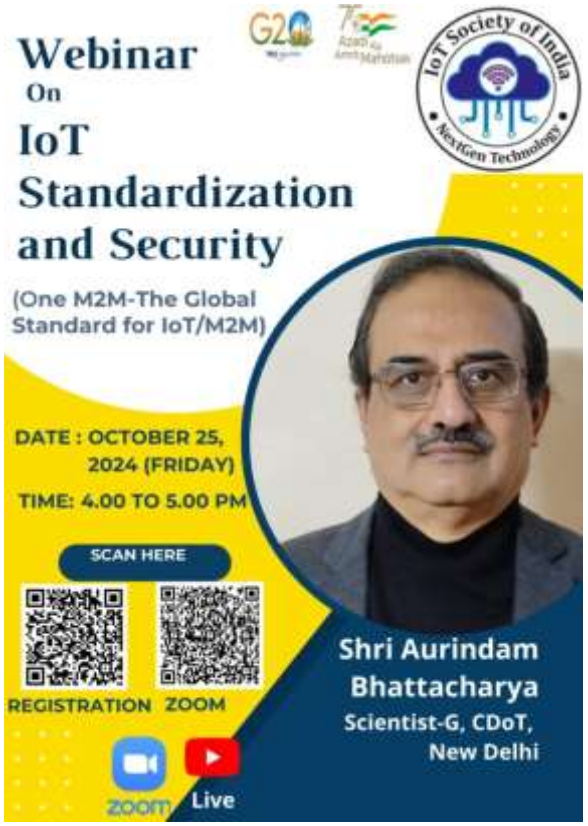
Dr. Aman Deep Singh, **Assistant Professor (Senior Scale)** at **Dr. Ram Manohar Lohiya National Law University, Lucknow**, delivered the **keynote address**. Dr. Singh provided a comprehensive overview of **digital human rights**, highlighting the growing need for safeguards to protect individuals' rights as IoT technologies continue to evolve and permeate daily life.

Mr. Apoorva Agha, **Business & Management Consultant** and **Former Incharge Computer Centre/Systems Manager at the High Court of Judicature at Allahabad**, served as a speaker. Mr. Agha shared his expertise on the practical implications of IoT on privacy, security, and governance, offering real-world examples and best practices for ethical IoT deployment.

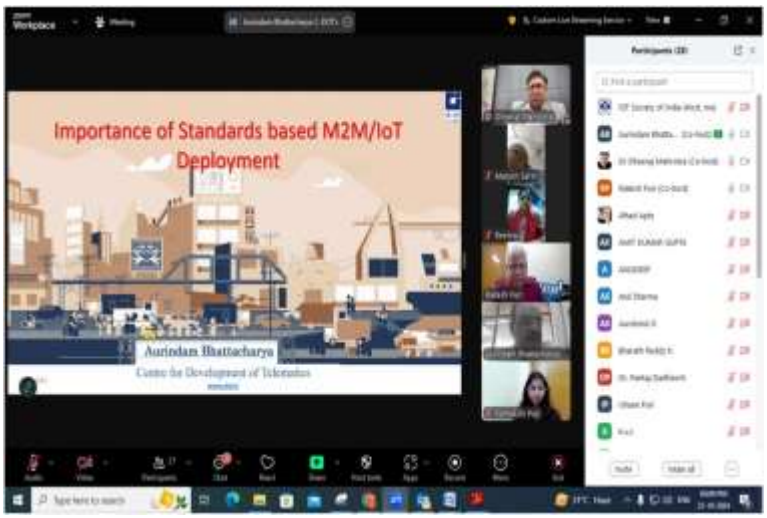
Webinar 03 :

IoT Standardization and Security (oneM2M - The Global Standard for IoT/M2M)

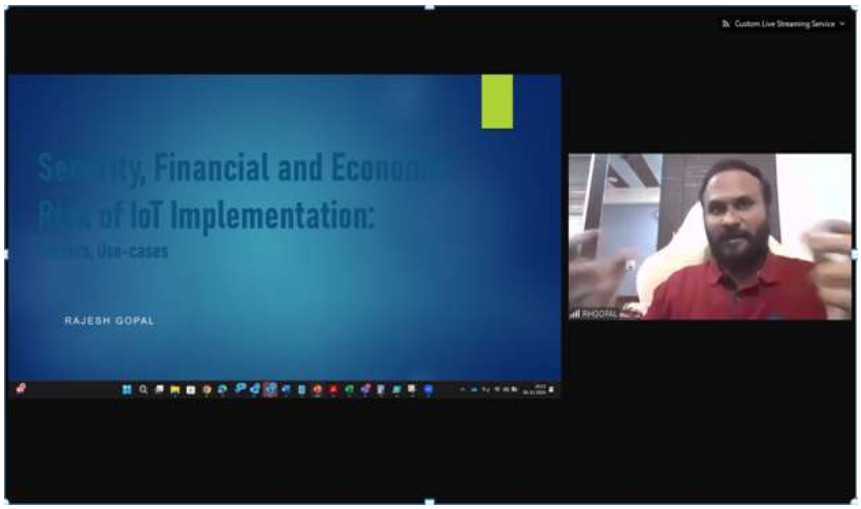
On **October 25, 2024**, the **IoT Society of India (ITSI)** hosted an insightful webinar titled **"IoT Standardization and Security (oneM2M - The Global Standard for IoT/M2M)"**. The session took place from **4:00 PM to 5:00 PM IST** and was expertly led by **Shri Aurindam Bhattacharya**, **Scientist-G at CDoT, New Delhi**. This engaging event was aimed at addressing the crucial topics of IoT standardization, security, and the role of **oneM2M**, the global standard for IoT and M2M (Machine to Machine) communications.



The webinar witnessed an enthusiastic turnout, with **students**, **industry professionals**, and **IoT experts** actively participating in the session. Their engagement throughout the session highlighted the growing interest in IoT security and the importance of standardization for the future of connected technologies. The diverse audience contributed to a rich learning experience and a robust exchange of ideas.



oneM2M Standardization: Shri Bhattacharya provided an in-depth introduction to **oneM2M**, the globally recognized standard for IoT and M2M communications. He discussed how **oneM2M** enables seamless interoperability between IoT devices, platforms, and networks by defining standardized frameworks for data exchange. This standardization, he explained, is crucial for creating a cohesive IoT ecosystem where devices and services can communicate effectively across various industries.**I**oT Security Challenges,Strategies for IoT Security,Real-World Applications

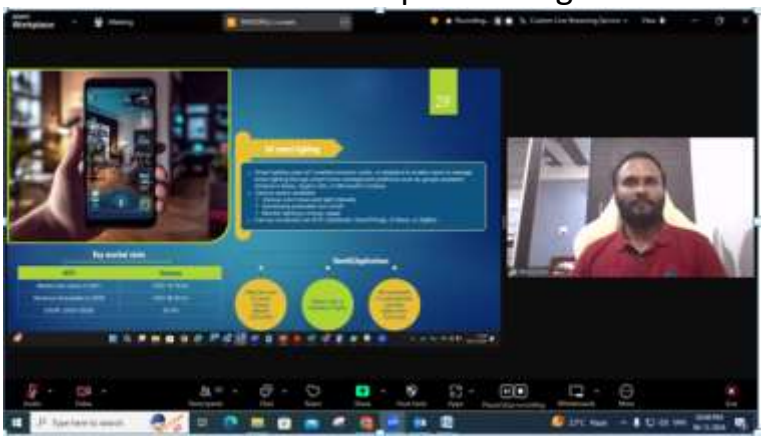


Webinar 04

Security, Financial, and Economic Risks Associated with IoT Implementation

On **December 6th, 2024**, the **IoT Society of India (ITSI)** hosted an informative and crucial webinar on **"Security, Financial, and Economic Risks Associated with IoT Implementation"**. The session, which ran from **4:00 PM to 5:00 PM IST**, aimed to shed light on the various challenges organizations face when adopting IoT technologies, particularly focusing on **security vulnerabilities**, **financial risks**, and the broader **economic implications** of IoT deployment.

The webinar was led by **Shri Rajesh Gopal**, **Director of IT - Cyber Security** at **Skillsoft Software India Pvt Ltd., Hyderabad**. Shri Gopal brought a wealth of experience in **cybersecurity** and **IoT risk management**, offering a detailed perspective on the risks and mitigation strategies that organizations should consider when implementing IoT technologies.



AI-Powered Digital Twins in Industrial IoT

Webinar 05

The **IoT Society of India** successfully conducted a national-level technical webinar titled **"AI-Powered Digital Twins in Industrial IoT"** on **Saturday, January 18, 2025**, from **4:00 PM to 5:00 PM (IST)**. The webinar was attended by a diverse audience comprising industry professionals, academicians, researchers, students, and technology enthusiasts from across India through **Zoom and YouTube Live** platforms.

The session featured **Mr. Rajeev Ranjan Kumar**, **Generative AI Practice Head at Wipro Limited**, as the distinguished speaker. With over **24 years of experience** in IT and management, Mr. Kumar brought deep industry insights into the convergence of **Artificial Intelligence, Digital Twins, and Industrial IoT**.

He is the author of two well-known books, *Cloud Computing for Business Transformation* and *Manage Your Dhritarashtra: A Conscious Leadership*. His academic credentials include an **MBA from IIM Kozhikode**, **MS (by Research) from JNTU Hyderabad**, a **Bachelor's degree in Computer Engineering**, and a **PG Diploma in Embedded Systems from CDAC Hyderabad**. He is also a recipient of the **IT Mentor of the Year Award** from the Computer Society of India.

During the webinar, Mr. Kumar explained how **AI-powered Digital Twins** enable real-time monitoring, predictive maintenance, performance optimization, and intelligent decision-making in industrial environments. He highlighted practical use cases from manufacturing, energy, and infrastructure sectors, demonstrating how Digital Twin technology is accelerating digital transformation and operational efficiency. The integration of **Generative AI** with Industrial IoT systems emerged as a key theme of the session.

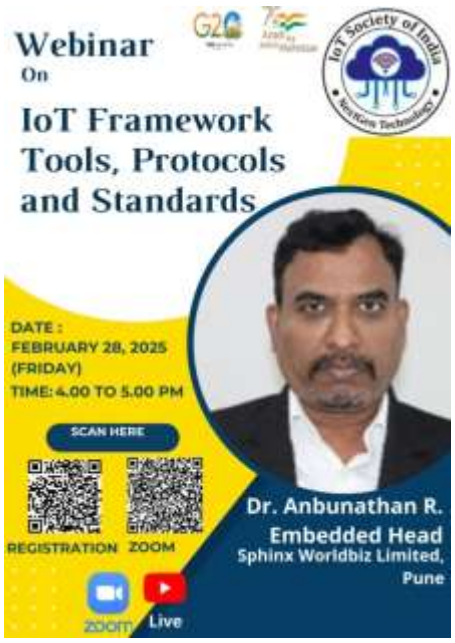
The webinar was highly interactive, with participants actively engaging in the Q&A session and discussing real-world implementation challenges and future opportunities. The event provided valuable learning and networking opportunities and reinforced the importance of AI-driven innovation in Industry 4.0.

The **IoT Society of India** expresses its sincere appreciation to **Mr. Rajeev Ranjan Kumar** for sharing his expertise and to all participants for their enthusiastic involvement, making the webinar a meaningful and successful knowledge-sharing initiative.

Webinar 06

IoT Framework - Tools, Protocols, and Standards

The **IoT Society of India, Lucknow** successfully organized a technical awareness webinar titled **"IoT Framework – Tools, Protocols, and Standards"** on **Friday, 28th February 2025**, from **4:00 PM to 5:00 PM (IST)**. The webinar was conducted in **online mode via Zoom and YouTube Live**, attracting active participation from students, academicians, professionals, and IoT enthusiasts from across the country.



The session was delivered by **Dr. Anbunathan R.**, **Embedded Head at Sphinx Worldbiz Limited, Pune**, a distinguished industry expert with over **28 years of experience** in software development, testing, quality engineering, and embedded systems. Dr. Anbunathan has worked with leading multinational organizations such as **Sphinx Worldbiz, LG Soft India, Tata Elxsi**, and others, contributing extensively to domains including **Embedded Automotive Systems, Mobile Technologies, and Digital Transformation**.

During the webinar, Dr. Anbunathan provided a comprehensive overview of the **IoT framework**, focusing on key **tools, communication protocols, and global standards** that enable scalable and secure IoT solutions. The session covered fundamental components of IoT architecture, popular development and deployment tools, commonly used protocols such as MQTT and HTTP, and the importance of standardization for interoperability and

system reliability. Practical industry examples were shared to help participants understand real-world IoT implementations.

The webinar also emphasized the growing relevance of IoT in sectors such as **manufacturing, healthcare, smart cities, and automotive systems**. Participants actively engaged during the interactive Q&A session, discussing implementation challenges, security considerations, and future trends in IoT ecosystems.

As part of the initiative to promote technology awareness, **digital certificates** were awarded to active participants, further encouraging learner engagement and professional development.

The **IoT Society of India, Lucknow** extends its sincere appreciation to **Dr. Anbunathan R.** for his valuable insights and to all participants for making the webinar a successful and enriching learning experience.

Webinar 07 IoT application in Defense, Aeronautics and Marine

The **IoT Society of India, Lucknow** successfully organized an expert-led webinar titled **"IoT Applications in Defense, Aeronautics, and Marine"** on **Friday, April 4, 2025**, from **4:00 PM to 5:00 PM (IST)**. The webinar was conducted in **online mode via Zoom and YouTube Live**, drawing participation from academicians, industry professionals, researchers, defense aspirants, and technology enthusiasts from across India.

The webinar featured two distinguished speakers with extensive academic and industry experience. **Dr. B.K. Saxena**, Founder Principal of **Tolani Maritime Institute, Talegaon, Pune**, shared deep insights into the application of IoT technologies in the **marine and maritime sectors**, including vessel monitoring, port automation, navigation safety, and smart maritime infrastructure.

His session highlighted the role of IoT in enhancing operational efficiency, safety, and sustainability in maritime operations.

The second session was delivered by **Dr. Lakshman Singh**, **Chief Manager (Projects) at Hindustan Aeronautics Limited (HAL), Amethi, Uttar Pradesh**. Dr. Singh discussed critical **IoT applications in defense and aeronautics**, focusing on aircraft health monitoring, predictive maintenance, asset tracking, and mission-critical systems. He emphasized how IoT-driven intelligence supports reliability, readiness, and decision-making in defense and aerospace environments.

Both speakers elaborated on real-world use cases, system architecture considerations, and emerging trends shaping IoT adoption in strategic sectors. The interactive Q&A session allowed participants to engage directly with the experts, addressing challenges related to security, data integrity, and system integration.

To encourage participation and continuous learning, **digital certificates** were awarded to active attendees. The webinar served as a valuable knowledge-sharing platform, enhancing awareness of IoT's transformative role in **defense, aeronautics, and marine technologies**.

The **IoT Society of India, Lucknow** expresses its sincere gratitude to the esteemed speakers and all participants for making the webinar a meaningful and successful initiative.

IoT-based Drones in Different Domains — Webinar 08

The **IoT Society of India** successfully organized an insightful webinar on the theme **"IoT-based Drones in Different Domains"** on **23rd May 2025**, from **4:00 PM to 5:00 PM (IST)**. The event witnessed an overwhelming response, with **over 300 registrations** from across India and enthusiastic participation from states including **Maharashtra, Karnataka, Telangana, Andhra Pradesh, Gujarat, Bihar, Rajasthan, West Bengal, Madhya Pradesh, Kerala, Delhi, Goa, and Uttar Pradesh**, among others.

The webinar was formally inaugurated by **Dr. Dheeraj Mehrotra**, **President, IoT Society of India**, who highlighted the growing importance of IoT-enabled drone technologies in modern industrial and societal applications. The session was smoothly convened by **Mr. Rakesh Puri**, **Secretary, IoT Society of India**, ensuring effective coordination throughout the event.

The keynote address was delivered by **Dr. Malaya Ranjan Khare**, **Former Deputy General Manager (R&D), Steel Authority of India, Ranchi**, and **Visiting Professor, IIT Bhilai**. Drawing from his extensive industrial and academic experience, Dr. Khare presented in-depth insights into the **innovations, applications, and future prospects of IoT-based drones** across multiple domains. His talk covered practical use cases in areas such as industrial inspection, infrastructure monitoring, mining, agriculture, disaster management, and smart surveillance.

The session was highly interactive, featuring an engaging **question-and-answer segment**, where participants actively raised thoughtful queries and gained clarity on technical, regulatory, and operational aspects of drone-based IoT systems.

The webinar concluded with a **vote of thanks by Mr. Apoorva Agha**, followed by closing remarks from **Mr. Rakesh Puri**, who appreciated the speaker and participants for their active involvement. To recognize engagement and learning, **digital certificates** were awarded to active participants.

The **IoT Society of India** expresses sincere gratitude to **Dr. Malaya Ranjan Khare**, the organizing team, and all attendees for making the webinar a resounding success.

Webinar 09 — Smart Bharat: Harnessing AI & IoT for Rural Transformation

The **IoT Society of India, Lucknow** successfully organized an insightful and impactful webinar titled **"Smart Bharat: Harnessing AI & IoT for Rural Transformation"** through an **online live session**. The webinar focused on the transformative role of **Artificial Intelligence (AI)** and the **Internet of Things (IoT)** in enabling inclusive growth, efficient governance, and sustainable development in rural India.

The keynote address was delivered by **Mr. Kumar Satyam**, Founder of **CEQU Labs** and a leading voice in rural digitization and deep-tech governance. Mr. Satyam is the architect of the **DigiGram GCP Model**, an innovative framework that integrates AI, IoT, and Digital Public Infrastructure to empower rural communities and strengthen last-mile governance.

The webinar showcased **real-world case studies** demonstrating the application of AI and IoT in rural governance, healthcare delivery, agriculture, and education. Mr. Satyam provided a detailed walkthrough of the **DigiGram model**, illustrating how technology-driven solutions can bridge the digital divide and accelerate rural transformation. The session concluded with an engaging **interactive Q&A**, where participants actively sought insights on implementation strategies and policy integration.

The session commenced with opening remarks by **Dr. Dheeraj Mehrotra**, **President, IoT Society of India**, who emphasized the relevance of AI and IoT in building a digitally inclusive Bharat. The webinar was moderated by **Mr. Rakesh Puri**, **Secretary, IoT Society of India**, who also delivered the closing remarks summarizing key takeaways. A formal **vote of thanks** was presented by **Mr. Apoorva Aagha**, **Vice President, ITSI**, acknowledging the speaker and participants.

To encourage learning and engagement, **digital certificates** were awarded to active participants. The **IoT Society of India** extends its sincere appreciation to the keynote speaker, organizing team, and all attendees for contributing to the success of this meaningful knowledge-sharing initiative.

Webinar 10

IoT in Healthcare: Remote Monitoring and Predictive Diagnosis

The **IoT Society of India, Lucknow** successfully organized an engaging and insightful webinar on **"IoT in Healthcare: Remote Monitoring and Predictive Diagnosis"** on **Friday, 18th July 2025**, from **4:00 PM to 5:00 PM (IST)**. The session focused on the transformative impact of **Internet of Things (IoT)** technologies in healthcare, highlighting innovations in remote patient monitoring, predictive diagnosis, and enhanced healthcare delivery.

The session was led by **Dr. Umakant Dinkar Butkar**, **Associate Professor of Computer Science** at **Guru Gobind Singh College of Engineering and Research Centre, Nashik**. Dr. Butkar shared his extensive knowledge of IoT applications in the healthcare sector, combining academic research with practical insights. His presentation covered **current trends, real-world use cases, and emerging opportunities** for IoT-enabled healthcare solutions, offering participants a comprehensive understanding of how technology is reshaping patient care and clinical decision-making.

Exploration of **IoT-enabled remote patient monitoring systems** for real-time health tracking

Insights into **predictive diagnosis models** using IoT and AI

Discussion of **practical implementations and challenges** in healthcare IoT Interactive **Q&A session**, where participants posed questions on system integration, security, and scalability The webinar attracted a diverse audience, including healthcare professionals, engineers, IoT developers, researchers, students, and academicians. Attendees actively engaged in the discussion, gaining valuable insights into the intersection of healthcare and emerging technologies.

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The webinar commenced with introductory remarks by **Dr. Dheeraj Mehrotra**, President of the IoT Society of India, who highlighted the importance of leveraging IoT for societal impact. The session concluded with closing remarks by **Mr. Rakesh Puri**, Secretary of the Society, summarizing the key takeaways and thanking participants for their active involvement.

IoT for Social Transformation and Upliftment

Webinar 11

The **IoT Society of India, Lucknow** successfully organized an enlightening webinar on **"IoT for Social Transformation and Upliftment"** on **Friday, 19th September 2025**, from **4:30 PM to 5:30 PM (IST)**. The session highlighted how **Internet of Things (IoT)** technologies can drive innovation, social impact, and community upliftment across diverse sectors.

The webinar featured **Mr. Satyendra Kumar Singh**, a distinguished **Global Career Counselor (Green Belt Certification), Career Strategist, Business Mentor, and Author**. With his extensive expertise in technology-driven social initiatives and mentoring, Mr. Singh provided a comprehensive overview of the potential of IoT in fostering **social transformation** and **community development**.

His presentation focused on real-world applications of IoT in areas such as **healthcare, education, rural development, and smart city initiatives**, illustrating how technology can bridge gaps and create sustainable social impact.

- Exploration of **IoT-driven solutions for social upliftment**
- Innovative use cases demonstrating **community empowerment through technology**
- Discussion of challenges and strategies for **implementing IoT in social initiatives**
- Interactive **Q&A session**, allowing participants to engage with the speaker and clarify queries

The webinar attracted participants from across India, including **students, educators, technology enthusiasts, professionals, and social innovators**. Attendees actively participated in the discussion, gaining insights into how IoT can be leveraged for societal benefits and inclusive development.

The session began with a warm welcome and opening remarks by **Dr. Dheeraj Mehrotra**, President of the IoT Society of India, highlighting the relevance of technology in social transformation.

The webinar concluded with **closing remarks by Mr. Rakesh Puri**, Secretary, summarizing the key takeaways and emphasizing the importance of actionable technology solutions. A **vote of thanks** was delivered by **Mr. Apoorva Aagha**, Vice President, expressing gratitude to the speaker and participants for their engagement. The IoT Society of India extends heartfelt thanks to **Mr. Satyendra Kumar Singh**, the organizing team, and all attendees for making the webinar a **successful and impactful knowledge-sharing initiative**.

Webinar 12

6th Generation of Optical Fibre Communications with Quantum Augmentation

The **IoT Society of India** successfully organized a highly informative webinar on **"6th Generation of Optical Fibre Communications with Quantum Augmentation: Shaping the Secured & Ultra-fast Digital Information Superhighway"** on **October 18, 2025**, at **11:00 AM (IST)**. The session provided valuable insights into the future of next-generation communication technologies and their role in building secure and high-speed digital infrastructure.

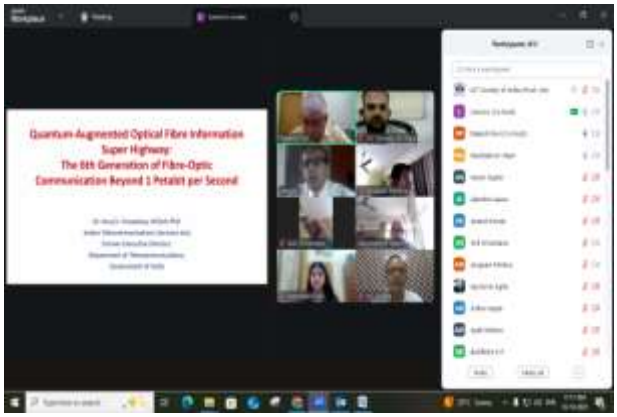
The webinar featured an eminent expert, **Dr. Anuj Kumar Srivastava**, **Executive Director (Retd.), MTNL Delhi**, associated with the **Department of Telecommunications, Government of India**, and a **Fellow of the Institution of Electronics and Telecommunication Engineers (IETE)**.

Dr. Srivastava presented an in-depth overview of **6th Generation Optical Fibre Communication systems**, emphasizing how **quantum augmentation** is set to redefine data transmission, cybersecurity, and network reliability. Key aspects discussed included:

Evolution of optical fibre communication from current systems to **6G-enabled networks**

Role of **quantum technologies** in enhancing data security and encryption

Applications of ultra-fast and secure communication in **governance, defense, healthcare, smart cities, and digital services.** Challenges and future opportunities in deploying quantum-augmented communication infrastructure



The webinar witnessed active participation from **students, academicians, researchers, engineers, and industry professionals** keen on understanding emerging trends in communication technologies. An interactive **Q&A session** followed the talk, during which participants raised thoughtful questions on implementation, scalability, and policy implications of quantum-enabled optical networks.

The session concluded with closing remarks highlighting the importance of **advanced communication technologies** in supporting India's digital transformation and global competitiveness. The webinar successfully enhanced awareness about the strategic role of **quantum-augmented optical fibre communication** in building a **secure, ultra-fast digital information superhighway**.

The **IoT Society of India** extends its sincere appreciation to **Dr. Anuj Kumar Srivastava** and all participants for contributing to the success of this impactful knowledge-sharing initiative.

Online Panel Discussion

The IoT Society of India successfully conducted an engaging and insightful online panel discussion titled **"Bridging Academia and Industry through IoT: Skills, Standards, and Applications."** The event brought together experts from academia, industry, start-ups, and the student community to explore how IoT is shaping the future of education, workforce skills, and industrial innovation.

Highlighting the importance of IoT standards, interoperability, data ethics, and cybersecurity.

Creating actionable strategies to enhance employability, innovation, and startup opportunities.

The session addressed the following focused objectives:

•Integrating IoT into academic curricula aligned with industry requirements.

•Identifying essential IoT skills, tools, and global certifications expected by employers.

•Strengthening industry–academia collaboration in research, incubation, and testbeds.

1. Dr. Umakant Dinkar Butkar – Educationist Perspective

Dr. Butkar delivered a highly interactive and practical presentation, demonstrating **live IoT applications** such as:

•Energy-saving IoT systems

•Automatic office appliances

•Real-time monitoring solutions

He explained how IoT can be **practically implemented in academic environments**, and how schools and colleges can take the first steps toward hands-on IoT learning. His practical demonstrations set the tone for an impactful session.

2. Mr. Abhishek Tiwari – Start-up & Innovation Perspective

Mr. Tiwari highlighted the **vast opportunities for IoT-based start-ups**, emphasizing:

•Innovation-to-enterprise pathways

•Government funding schemes

•Manufacturing support

•National policies encouraging IoT-driven entrepreneurship

He encouraged students to explore IoT as a strong entrepreneurial domain with immense potential for growth in India.

3. Dr. Anbunathan Ramaiah – Standards, Policy & Ethical Perspective

Dr. Ramaiah elaborated on:

•IoT standards and global alignment

•Ethical aspects related to IoT deployment

•Security best practices

His insights helped participants understand the importance of **responsible, ethical, and secure IoT**

4. Dr. Aniket Satish Deshpande – Industrial IoT & Security Perspective

Dr. Deshpande provided deep insights on:

•IoT cybersecurity
•Vulnerability testing
•Device-level security
•Developing a practical, problem-solving mindset
•Building a culture of innovation in institutions

He emphasized how industries evaluate IoT systems and what is required to build **secure, scalable, and future-ready IoT solutions**.

5. Student Perspective – Ms. Preshma Murli

Ms. Murli shared student-centric views on:

•The need for practical exposure
•Access to labs and real-time projects
•Mentorship from industry experts
•Training in certifications and hands-on tools

Her contribution helped the panel understand the **expectations and aspirations of today's learners**.

Webinar 13

Mining Big Data for IoT: Challenges, Architecture, and Applications

The **IoT Society of India** successfully organized an insightful webinar titled **"Mining Big Data for IoT: Challenges, Architecture, and Applications"** on **12 December 2025 (Friday)** from **4:00 PM to 5:00 PM**. The session focused on the growing convergence of **Big Data analytics and the Internet of Things (IoT)** and its significance in enabling intelligent, data-driven systems.

The webinar was delivered by **Dr. Sheeba P. S.**, **Associate Professor, Dean – Academics & Research, and Head of the Department of Computer Engineering** at **Lokmanya Tilak College of Engineering, Navi Mumbai, Maharashtra**. Dr. Sheeba brought strong academic leadership and research expertise to the session, offering a comprehensive perspective on emerging IoT–Big Data paradigms.

During the webinar, Dr. Sheeba explained how the exponential growth of IoT devices has resulted in massive volumes of heterogeneous data, necessitating advanced Big Data analytics. The session covered:

Core **challenges in mining IoT-generated Big Data**, including data volume, velocity, variety, and security **Architectural frameworks** for efficient data collection, storage, processing, and analytics in IoT ecosystems, Integration of cloud, edge, and analytics platforms for scalable IoT solutions

Real-world applications across smart cities, healthcare, industrial automation, transportation, and environmental monitoring.

The **IoT Society of India** expresses its sincere appreciation to **Dr. Sheeba P. S.** and all participants for making the webinar a meaningful and knowledge-enriching event.

Webinar 14

IoT-Powered Smart Ecosystems: Transforming Cities, Hospitality, and Agriculture

The **IoT Society of India** successfully organized a **Live Webinar** titled **"IoT-Powered Smart Ecosystems: Transforming Cities, Hospitality, and Agriculture"** on **09 January 2026**, from **5:00 PM to 6:00 PM (IST)**. The webinar witnessed enthusiastic participation from students, academicians, researchers, and industry professionals from across the country, reflecting the growing interest in IoT-driven innovations.

The session was delivered by **Dr. S. Hemalatha**, Professor, Department of Computer Science and Business Systems, **Panimalar Engineering College, Chennai, Tamil Nadu**. With her rich academic and research experience, Dr. Hemalatha provided a comprehensive overview of how **Internet of Things (IoT)** technologies are enabling smarter, more efficient, and sustainable ecosystems across multiple sectors.

During the webinar, the speaker elaborated on **IoT applications in Smart Cities**, highlighting intelligent traffic management, smart energy systems, waste management, and public safety solutions. She also discussed **smart solutions for the hospitality sector**, explaining how IoT enhances guest experience, operational efficiency, and resource optimization. In the agriculture segment, Dr. Hemalatha emphasized **IoT-driven innovations** such as smart irrigation, soil monitoring, crop health analysis, and data-driven decision-making for farmers.

The session was enriched with **real-world use cases and practical insights**, making the concepts highly relatable and application-oriented. An **interactive Q&A session** at the end allowed participants to engage directly with the speaker, clarify doubts, and discuss future opportunities and challenges in IoT-powered ecosystems. the webinar was a great success and aligned well with the mission of the IoT Society of India to promote awareness, knowledge sharing, and innovation in the field of IoT. The Society looks forward to organizing more such impactful knowledge-sharing sessions in the future.

IOT Members :

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Divisions

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Division1: Internet of Things (IoT) & Internet of Everything (IoE).
Division 2: Artificial Intelligence, Machine Language, Cloud and Edge Computing.
Division3: Data Science, Data and Cyber Security ,Quantum Technology
Division 4: IoT application in Health (IoHT), Life Science and Biomedical Engineering
Division5: IoT application in the Educational Sector.
Division6: IoT application in Industries–Industrial IoT.
Division7: IoT application in Government, Public and Private Organizations.
Division 8: IoT application in Banking, Financial Services, and Insurance (BFSI).
Division9: IoT application in Law and Law enforcement.
Division 10: IoT application in Smart City / Transportation, Smart Hospitality, Smart Agriculture, etc.
Division11: IoT application in Defense, Aeronautics and Marine.
Division12: Information and Communication Technology (ICT).
Division 13: Research, Entrepreneurship, Startups, Innovation & Skill Development.
Division 14: Robotics, Cobotics & Autonomous Systems, Blockchain Technology.
Division 15: Cognitive Computing, Social Sensing, Cognitive IoT and Human-Computer Interfaces.
Division 16: Computer Vision, AR/VR, Speech, Video & Text Analytics, Image Processing.

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