



**ST. FRANCIS COLLEGE**

**Koramangala, Bangalore, India**

Affiliated to Bengaluru City University, Approved By AICTE



## **ATAL FDP COMPLETION REPORT**



**AICTE TRAINING AND LEARNING (ATAL) ACADEMY  
SPONSORED**

**6 DAY ONLINE FACULTY DEVELOPMENT PROGRAMME  
2024-25**

**Driving Innovation for Sustainable Urban Growth:  
Smart Cities, Mobility, Logistics and Start-up  
Ecosystems**

**2ND - 7TH DECEMBER 2024**

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
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**DECLARATION**

This report is submitted as part of the fulfillment of the requirements of the **Six Day (Online) ATAL FDP organized by St. Francis College during 2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024**. It encapsulates key learnings, reflections, and actionable insights gained during the six-day program. The report also highlights the critical lessons and implementation strategies that will help translate the knowledge acquired into practical applications.

The primary objective of this report is to document the transformative learning experience, emphasizing the program's role in enhancing professional development and fostering innovative approaches to addressing urban challenges. It serves as both a record of participation and a roadmap for implementing the concepts discussed during the FDP in real-world contexts.

By compiling this report, we aim to contribute to the ongoing discourse on **Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems** and demonstrate my commitment to applying the principles of innovation, sustainability, and collaboration in my professional endeavors.

**Report Prepared by**

**Dr Pankaj A Tiwari, ATAL FDP Coordinator**

**Approved by**

**1. Dr RN Subba Rao, Principal**

**2. Rev. Bro. Peter Joseph, Director**

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**ACKNOWLEDGEMENT**

We extend our heartfelt gratitude to **Dr. Sunil Luthra, Director, Training and Learning Bureau, All India Council of Technical Education (AICTE/ATAL Academy), Ministry of Education, New Delhi**, and team for granting us the opportunity and providing guidance to organize the six-day (online) Faculty Development Program (FDP) on **Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics, and Start-up Ecosystems** on behalf of **St. Francis College (SFC), Koramangala, Bangalore**. This program served as an excellent platform to engage with distinguished resource persons, delve into innovative ideas, and acquire practical insights in this critical field.

We are deeply grateful to **Bro. Xavier Alexander, Chairman of St. Francis Institutions, Bro. Peter Joseph, Director of St. Francis College, Bro. Dr. Titus Anto, Deputy Director of St. Francis College, and Dr. R. N. Subba Rao, Principal of St. Francis College**, for their unwavering support and guidance throughout the FDP. We also express our sincere appreciation to the **organizing committee** for their meticulous planning and execution, which played a pivotal role in the program's success.

Special thanks are due to all the **esteemed resource persons** for generously sharing their expertise and to our **fellow participants** for their collaborative spirit and active engagement, which enriched the learning experience for everyone involved.

We would also like to acknowledge the valuable contributions of **Ms. Bindu Prince, Chief Accountant, St. Francis College**, for her meticulous support in managing and tracking the expenditures associated with executing the ATAL FDP.

This collaborative effort has truly enhanced the quality and impact of this FDP, and we are profoundly thankful to everyone who contributed to its success.

Best Regards,

**Dr Pankaj A Tiwari (ATAL FDP Coordinator)**

**Mr Karthik P (ATAL FDP Co-Coordinator)**

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**TABLE OF CONTENT**

<b>S.No.</b>	<b>Item /Content</b>	<b>Page Number</b>
1.	Summary of the 6-Day (Online) ATAL FDP	15
2.	List of Resource Person	17
3.	Program Schedule	20
4.	Day wise detailed report	22
5.	List of ATAL registered Participants	36
6.	Feedback on ATAL FDP	44
7.	Reflection Journal	45
8.	Media Update	58
9.	Assessment Questions	60

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**ATAL Academy:**

The AICTE Training and Learning (ATAL) Academy was established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity, and quality." AICTE remains committed to the advancement of quality technical education across the country, actively supporting various initiatives launched by the Government of India, Ministry of Human Resource Development. Recognizing the importance of constitutional, criminal, corporate, international, human rights, and environmental law, the council offers programs that allow students to engage in practical experiences, such as moot courts, legal aid clinics, internships, and research projects. Participants will find the sessions offered by St. Francis College both rewarding and enriching, and are encouraged to make the most of these opportunities in their pursuit of excellence.



**About St. Francis College:**

St. Francis College (SFC), managed by the Sevasadan Orphanage & Training Institute Society / Trust, is built on the values of moral integrity, social responsibility, and a commitment to excellence. Since its establishment in 2019 under Bengaluru City University (BCU), the college has grown rapidly, expanding from nine programs and 393 students to now serving over 2,900 students. SFC offers eleven undergraduate and three postgraduate programs, fostering partnerships with over thirty industry and educational organizations. The college emphasizes experiential learning by integrating theoretical knowledge with practical experience through seminars, workshops, and skill enhancement activities. Its commitment to entrepreneurship is evident in its top ranking in the National Entrepreneurship Challenge 2023 and its active Institution's Innovation Council (IIC), which promotes innovation through hackathons and ideation sessions. Situated on a 14.5-acre campus, SFC fosters a holistic education, integrating sports and extracurricular activities to create well-rounded, socially responsible graduates.

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**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems”**

**About FDP:**

The proposed AICTE Faculty Development Program (FDP) consists of 13 carefully structured online sessions, each lasting 90 minutes, focused on the key areas of Logistics, Smart Cities and Mobility, and Entrepreneurship & Start-up Ecosystems. The sessions will offer participants a comprehensive understanding of foundational concepts like smart cities, urban planning, and the role of technology in transforming urban logistics and mobility systems. Topics include digital transformation, the role of IoT, AI, and Industry 4.0 in logistics and supply chain management, and fostering start-up ecosystems within smart cities. Key areas like sustainable infrastructure for start-ups, public-private partnerships, and government policies driving smart city initiatives will be explored. Participants will also learn how innovation and entrepreneurship are shaping future mobility solutions, logistics automation, and smart city success. By integrating advanced technologies with policy support, the FDP aims to equip educators with valuable insights to foster innovation-driven ecosystems in modern cities.



**Objectives of the FDP:**

- To provide participants with a comprehensive understanding of smart cities, focusing on urban planning, sustainability, and the integration of advanced technologies.
- To explore innovative mobility solutions and the impact of digital transformation technologies like IoT, AI, and Industry 4.0 in enhancing urban logistics and mobility systems.
- To equip participants with insights on fostering start-up ecosystems within smart cities through innovation hubs, incubation centers, and government initiatives.
- To highlight the role of entrepreneurship in shaping future mobility solutions and logistics, emphasizing the intersection of technology, innovation, and venture capital.
- To examine the importance of public-private partnerships and government policies in driving smart city development and supporting start-up ecosystems.

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**Course Content:**

The sessions will be delivered by experts from both industry and academia, encompassing both international and national perspectives:

- Foundations of Smart Cities introduce the concept and significance in modern urban planning.
- Smart Mobility Solutions explore innovative mobility solutions within smart cities.
- Digital Transformation in Logistics examines the role of digital technologies in transforming logistics operations.
- Building a Start-up Ecosystem focuses on fostering a start-up ecosystem within smart cities.
- Entrepreneurship in Mobility addresses the intersection of entrepreneurship and emerging mobility solutions.
- Smart Logistics and Supply Chain Management optimizes logistics operations in smart cities through technology.
- Creating Sustainable Infrastructure discusses the infrastructure needed to support start-ups in smart cities.
- Challenges for Start-ups in Smart Logistics explore the challenges and opportunities for logistics start-ups.
- Public-Private Partnerships highlight the role of collaborations in driving smart city projects.
- Leveraging AI and IoT harnesses advanced technologies to improve mobility and logistics.
- Innovation and Entrepreneurship promote sustainable start-ups in smart cities.
- Integrating Smart Mobility and Logistics explores synergies between mobility solutions and logistics networks.
- Policy and Regulation examine how policies and regulations can influence start-up ecosystems in smart cities.

**Eligibility:**

Faculty members of the AICTE-approved institutions, Research scholars, PG Scholars, participants from Government Industry (Bureaucrats/ Technicians Participants from Industry, etc.), and staff of host institutions are eligible to apply for the FDP.

**Registration Fee:**

No registration fee is charged to the participants. Eligible participants will be selected on a first come first served. On completion of the course, an objective assessment will be done and certificates will be awarded to successful participants by ATAL Academy.

**Certification:**

Certificates will be issued by AICTE Training and Learning (ATAL) academy to participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

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**Summary of the 6-Day (Online) ATAL FDP on  
Smart Cities, Mobility, Logistics and Start-up Ecosystems**

The 6-day ATAL Faculty Development Program (FDP) held from December 2–7, 2024, explored the transformative potential of smart cities, sustainable urban development, and innovation-driven start-up ecosystems. Through 18 engaging sessions led by distinguished experts, the FDP aimed to equip participants with practical knowledge and strategies to address the challenges of urbanization while leveraging opportunities offered by emerging technologies.

**Day 1** began with an inaugural session graced by keynote speaker **Sri Manivanan P (IAS)** and **Dr Lim Weng Marc (Malaysia)** who underscored the significance of sustainable urban development and the role of smart cities in fostering inclusive growth. The first technical session, conducted by **Lt. Col. Monish Ahuja (Rtd.)**, delved into the foundational concepts of smart cities and their critical role in achieving sustainable urbanization. He highlighted case studies showcasing the integration of technology and governance for improved livability. The second session, led by **Dr Priyanka Shrivastava**, focused on smart mobility solutions (AI for Sustainability) aimed at enhancing urban efficiency. Her presentation addressed the challenges of urban congestion and discussed innovative transportation models such as Mobility-as-a-Service (MaaS) and autonomous vehicles.

**Day 2** emphasized the impact of Industry 4.0 on urban logistics and entrepreneurship. **Dr. Isuru Kosawatte**, and **Dr. Ashok Matani** collectively explored the digital transformation of logistics systems, demonstrating how technologies like blockchain, IoT, and data analytics streamline supply chains. The subsequent session by **Ravi Mukundan** centered on building start-up ecosystems in smart cities. He highlighted the importance of fostering innovation hubs, providing mentorship, and securing investments to drive entrepreneurial success.

**Day 3** revolved around energy, mobility, and the integration of advanced technologies. **Nikhil Srivastava** addressed the role of entrepreneurship in shaping the future of energy and mobility, discussing how clean energy solutions and shared mobility systems contribute to sustainable growth. Later, **Dr. Meenakshi Patil** elaborated on the application of AI and IoT in smart mobility and logistics, showcasing how these technologies enhance operational efficiency, safety, and customer satisfaction.



**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems”**

**Day 4** shifted focus to sustainability and infrastructure. In the first session, **Vadiraj Managoli** provided insights into creating sustainable and smart infrastructure to support start-up ecosystems. He discussed strategies for urban planning, efficient resource utilization, and fostering collaboration between governments, academia, and industry. The second session by **Dr. Vanishree M. Ramkrishna** explored challenges and opportunities for start-ups in smart logistics. Her talk underscored the role of innovative logistics solutions in addressing urban challenges such as last-mile delivery and green transportation.

**Day 5** highlighted collaborative efforts and efficient logistics. **Monica Smith**, in her session on public-private partnerships (PPPs) for smart city development, emphasized the importance of aligning public policy with private-sector innovation to ensure inclusive urban development. **Swapnil Taparia** then discussed smart logistics and supply chain management, focusing on strategies to optimize supply chains and reduce environmental impacts through technology.

**Day 6**, the final day, emphasized innovation and policy frameworks. **Dr. Rashmi Gujrati** started the day by discussing the interplay between innovation and entrepreneurship in building sustainable start-ups in smart cities. Her session highlighted successful start-up models that integrate sustainability principles. In the following session, **Jalvath A** and **Abhijith Neerkaje** addressed the topic of system dynamics for sustainable urban planning, emphasizing the integration of smart mobility and logistics for achieving smart city success. Finally, **Devika Valsaraj** presented an insightful session on policies, regulations, and the start-up ecosystem in smart cities, focusing on how regulatory frameworks can drive innovation and foster economic growth.

The program concluded with an online test and feedback session, followed by the valedictory address by **Suman Pandit**. He commended the participants for their engagement and encouraged them to apply the knowledge gained to solve real-world urban challenges.

This FDP successfully bridged the gap between theoretical understanding and practical application, providing participants with a comprehensive understanding of smart cities and their role in sustainable urban development. It emphasized the importance of innovation, entrepreneurship, and collaborative efforts, equipping participants to contribute to the evolving urban landscape.

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**RESOURCE PERSONS**

- **Sri Manivanan P, IAS**  
Principal Secretary to Government  
Social Welfare Department, Govt. of Karnataka, India



- **Lt. Col. Monish Ahuja (Rtd.)**  
Chairman  
Confederation of Biomass Energy Industry of India



- **Priyanka Shrivastava, PhD**  
Professor & TEDx Speaker,  
Hult International Business School, SFO, USA



- **Lim Weng Marc**  
Dean & Professor, Sunway University  
Selangor Darul Ehsan, Malaysia



- **Ravi Mukundan**  
CEO & Lead Consultant, 10XG Ventures  
Bengaluru, Karnataka, India



- **Nikhil Srivastava**  
CEO & Founder, Blueneba Technologies Pvt Ltd.  
Gurugram, India



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## RESOURCE PERSONS

- **Swapnil Taparia**  
Joint President & Head  
Swiss Singapore Overseas Enterprises, Dubai, UAE



- **Vadiraj Managoli**  
Senior Director  
Capgemini, Bengaluru, Karnataka, India



- **Dr. Vanishree M Ramkrishna**  
Dean, Research & Consultancy Cell  
Surana College, Bengaluru, Karnataka, India



- **Monica Smith**  
CEO and Founder  
Tradewinds Career Consulting, Boston, USA



- **Dr Meenakshi Patil**  
Professor  
CMRIT, Bengaluru, Karnataka, India



- **Dr Rashmi Gujrati**  
Professor & Director  
PCTE Group of Colleges, Ludhiana, Punjab, India



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### RESOURCE PERSONS


<ul style="list-style-type: none"> <li><b>Jalvath A</b> IPR Attorney, Arahalex, Bengaluru, Karnataka, India</li> </ul>	
<ul style="list-style-type: none"> <li><b>Abhijith Neerkaje</b> Head of Data science &amp; Analytics Falabella, Bengaluru, Karnataka, India</li> </ul>	
<ul style="list-style-type: none"> <li><b>Devika Valsaraj</b> Founder and HR Director AHAM Leadership Consulting , Dubai, UAE</li> </ul>	
<ul style="list-style-type: none"> <li><b>Suman Pandit</b> Young Professional (YP), Atal Innovation Mission, NITI Aayog, New Delhi, India</li> </ul>	

**Additional Resource Persons**



**MEET THE SPEAKER**  
**Dr. Isuru Koswatte**  
 Assistant Professor in Business and Management at the University of the West of Scotland & Adjunct Senior Research Fellow at NISM Green University

**DAY 2 OF ATAL FDP :**  
 3RD DEC. 2024  
 7 PM IST



**MEET THE SPEAKER**  
**Dr. Ashok G. Matani**  
 Professor (Retired), Mechanical Engg Dept, Govt. College of Engineering, Jalgaon, Maharashtra, India

**DAY 2 OF ATAL FDP :**  
 3RD DEC. 2024  
 8.00 PM IST

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<b>PROGRAM SCHEDULE</b>		
<b>Day wise schedule</b>	<b>Time / Session</b>	<b>Topic / Resource Person</b>
<b>Day 1</b> 02-Dec-24	6:00PM to 6:30PM <b>Inaugural Session</b>	<b>Key Note Speaker</b> Sri Manivanan P (IAS Officer)
<b>Day 1</b> 02-Dec-24	6:30PM to 8:00PM <b>Session 1</b>	<b>Topic:</b> Smart Cities and Their Role in Sustainable Urban Development <b>Resource Person:</b> Lt. Col. Monish Ahuja (Rtd.)
<b>Day 1</b> 02-Dec-24	8:00PM to 9:30PM <b>Session 2</b>	<b>Topic:</b> Smart Mobility Solutions for Urban Efficiency <b>Resource Person:</b> Priyanka Shrivastava
<b>Day 2</b> 03-Dec-24	6:00PM to 7:30PM <b>Session 3</b>	<b>Topic:</b> Digital Transformation in Logistics: The Impact of Industry 4.0 <b>Resource Person:</b> Lim Weng Marc / Dr Isuru Kosawatte / Dr Ashok Matani
<b>Day 2</b> 03-Dec-24	7:30PM to 9:00PM <b>Session 4</b>	<b>Topic:</b> Building a Start-up Ecosystem in the Smart City Context <b>Resource Person:</b> Ravi Mukundan
<b>Day 3</b> 04-Dec-24	6:00PM to 7:30PM <b>Session 5</b>	<b>Topic:</b> Role of Entrepreneurship in Shaping the Future of Energy/ Mobility <b>Resource Person:</b> Nikhil Srivastava
<b>Day 3</b> 04-Dec-24	7:30PM to 9:00PM <b>Session 6</b>	<b>Topic:</b> Leveraging AI and IoT for Smart Mobility and Logistics <b>Resource Person:</b> Dr Meenakshi Patil
<b>Day 4</b> 05-Dec-24	6:00PM to 7:30PM <b>Session 7</b>	<b>Topic:</b> Creating Sustainable and Smart Infrastructure for Start-up Ecosystems <b>Resource Person:</b> Vadiraj Manigoli
<b>Day 4</b> 05-Dec-24	7:30PM to 9:00PM <b>Session 8</b>	<b>Topic:</b> Challenges and Opportunities for Start-ups in Smart Logistics <b>Resource Person:</b> Dr. Vanishree M Ramkrishna

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**PROGRAM SCHEDULE**

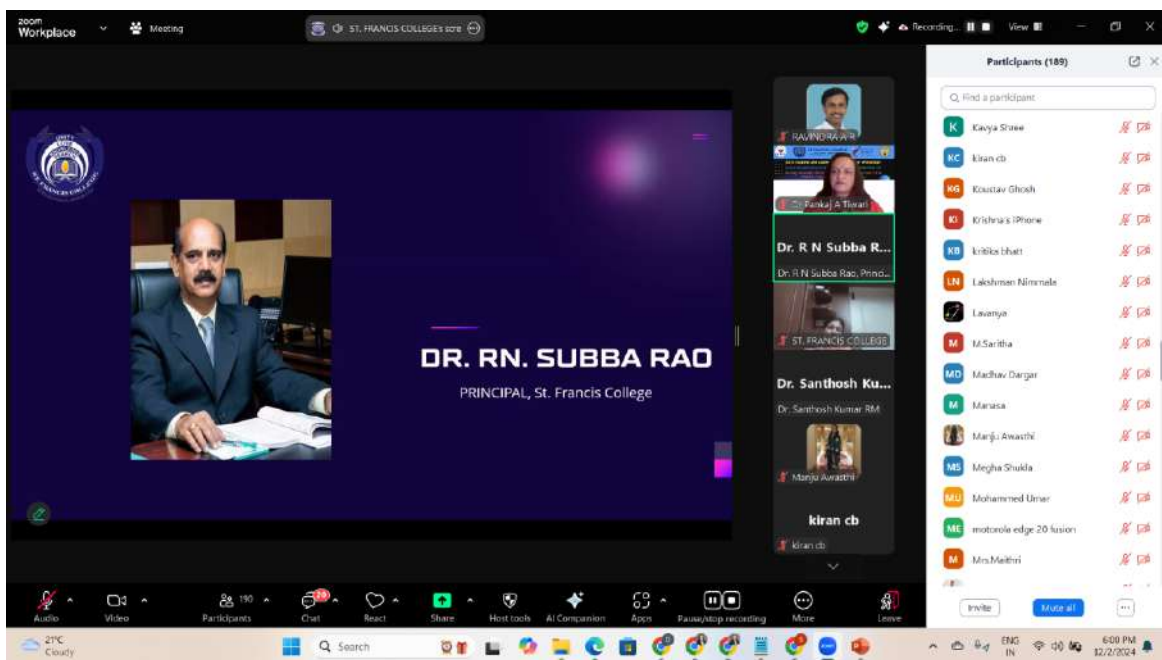
<b>Day wise schedule</b>	<b>Time / Session</b>	<b>Topic / Resource Person</b>
<b>Day 5</b> 06-Dec-24	6:00PM to 7:30PM <b>Session 9</b>	<b>Topic:</b> Public-Private Partnerships for Smart City Development <b>Resource Person:</b> Monica Smith
<b>Day 5</b> 06-Dec-24	7:30PM to 9:00PM <b>Session 10</b>	<b>Topic:</b> Smart Logistics and Supply Chain Management <b>Resource Person:</b> Swapnil Taparia
<b>Day 6</b> 07-Dec-24	2:00PM to 3:30PM <b>Session 11</b>	<b>Topic:</b> Innovation and Entrepreneurship in Smart Cities: Building Sustainable Start-ups <b>Resource Person:</b> Dr Rashmi Gujrati
<b>Day 6</b> 07-Dec-24	3:30PM to 5:00PM <b>Session 12</b>	<b>Topic:</b> Integrating Smart Mobility and Logistics for Smart City Success / System dynamics for sustainable urban planning. <b>Resource Person:</b> Jalvath A / Abhijith Neerkaje
<b>Day 6</b> 07-Dec-24	5:00PM to 6:30PM <b>Session 13</b>	<b>Topic:</b> Policy, Regulation, and Start-up Ecosystems in Smart Cities <b>Resource Person:</b> Devika Valsaraj
<b>Day 6</b> 07-Dec-24	6:30PM to 7:30PM	<b>Online test &amp; feedback</b>
<b>Day 6</b> 07-Dec-24	7:30PM to 8:00PM <b>Valedictory Session</b>	<b>Key Note Speaker:</b> Suman Pandit



**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems”**

**DAY WISE DETAILED REPORT**

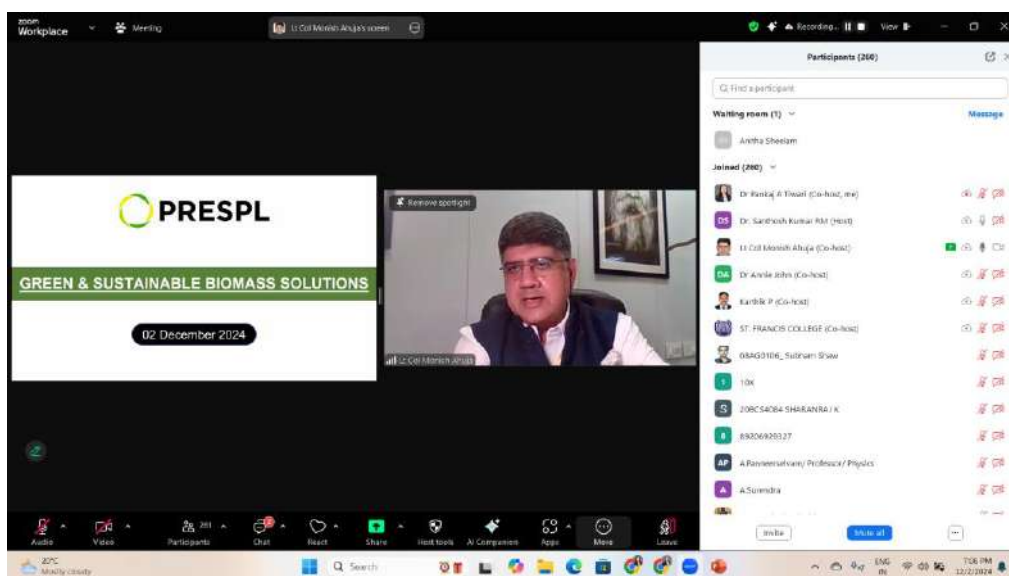
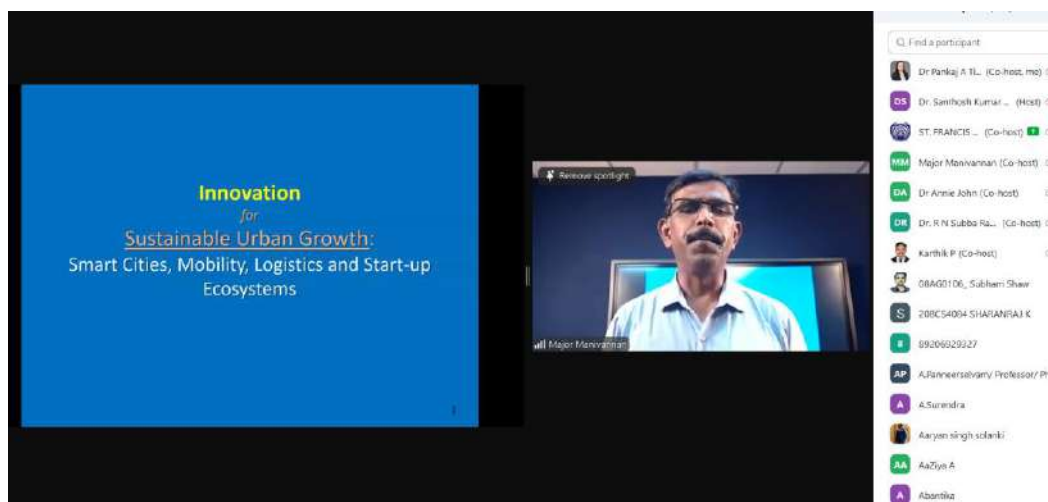
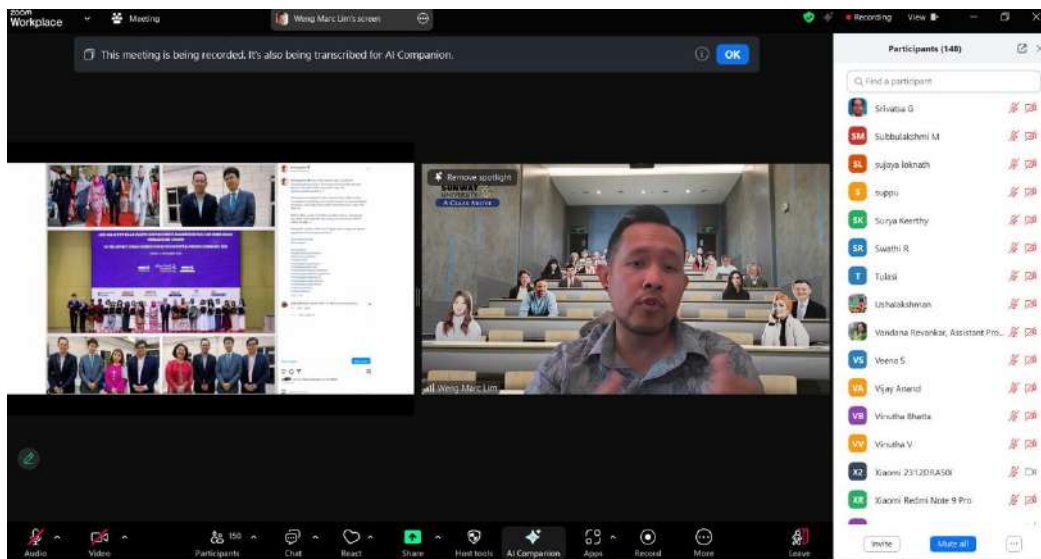
The inaugural session on Day 1 featured Welcome Address by **Dr RN Subba Rao, Principal, St. Francis College**, keynote addresses by **Major Sri Manivanan P (IAS)** and **Dr. Lim Weng Marc (Malaysia) (International Resource Person)**, who emphasized the importance of sustainable urban development and highlighted the transformative role of smart cities in promoting inclusive growth.



The first technical session, led by **Lt. Col. Monish Ahuja (Rtd.)**, explored the core principles of smart cities and their pivotal role in driving sustainable urbanization. He illustrated these concepts through case studies demonstrating the integration of technology and governance to enhance urban livability.

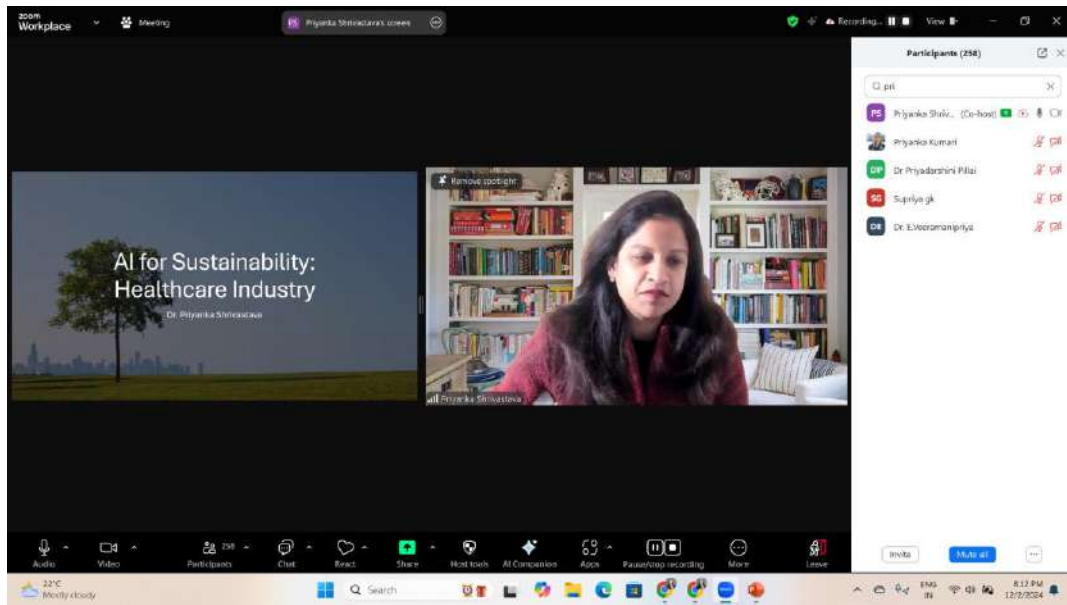
The second session, presented by **Dr. Priyanka Shrivastava (International Resource Person)**, concentrated on smart mobility solutions, including the application of AI for sustainability, to improve urban efficiency. Her talk addressed the challenges of urban congestion and introduced innovative transportation models such as Mobility-as-a-Service (MaaS) and autonomous vehicles.

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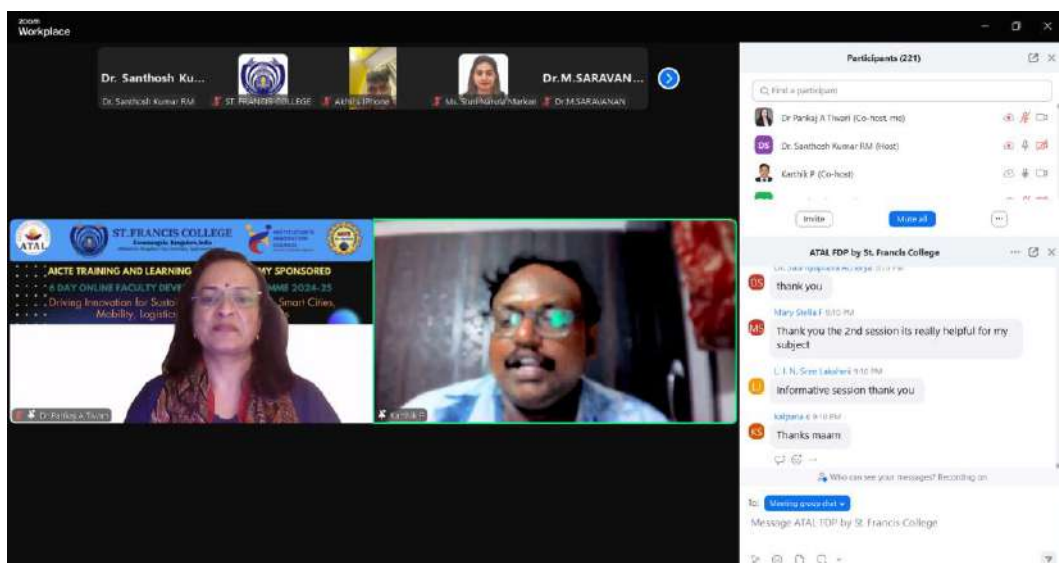


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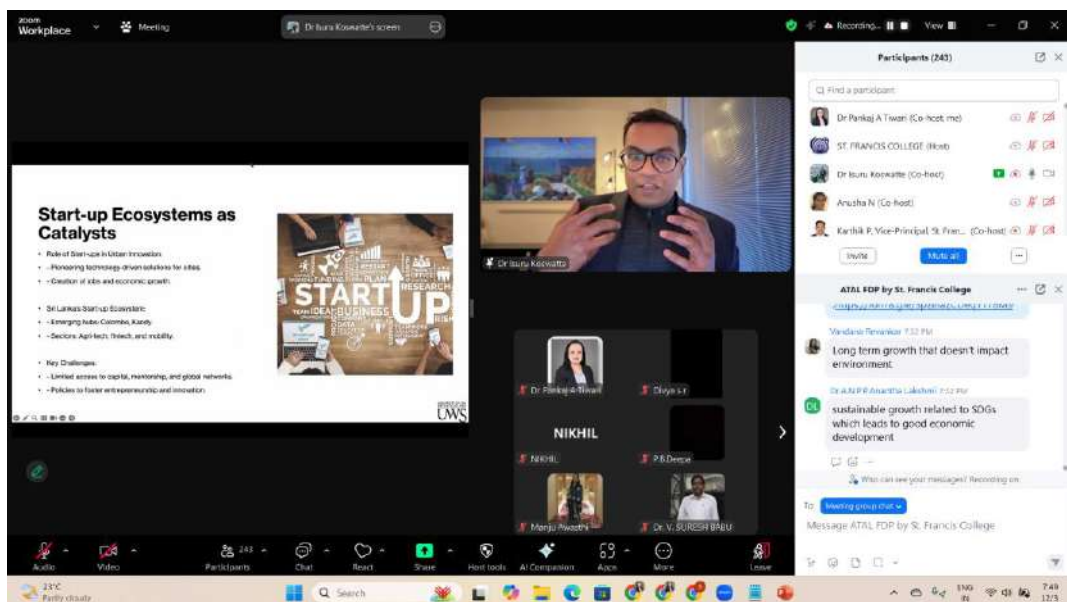
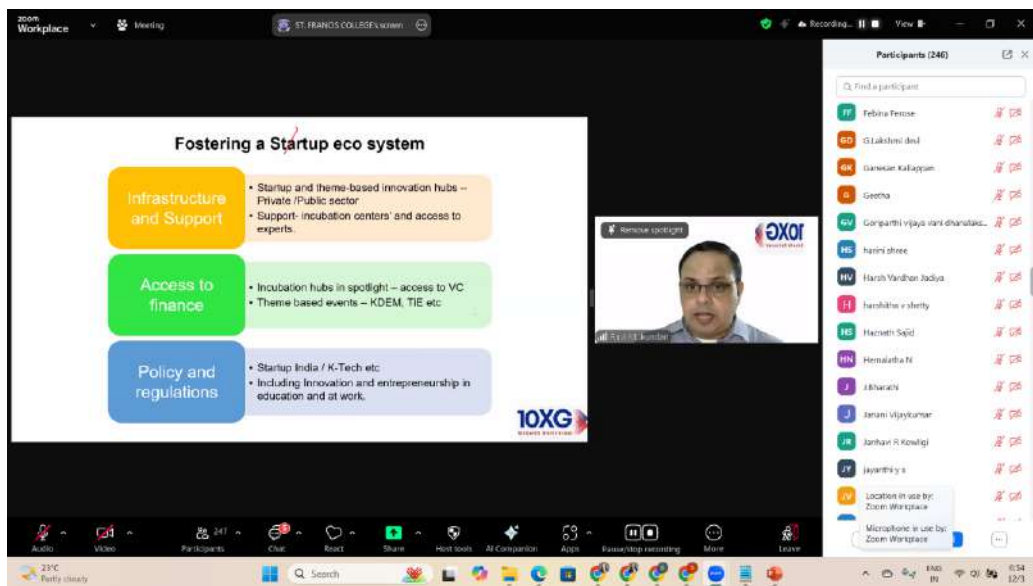


Day 2 focused on the influence of Industry 4.0 on urban logistics and entrepreneurship. **Dr. Isuru Kosawatte (International Resource Person)** and **Dr. Ashok Matani** examined the digital transformation of logistics systems, showcasing how technologies such as blockchain, IoT, and data analytics enhance supply chain efficiency.

In the following session, **Ravi Mukundan** discussed strategies for developing start-up ecosystems in smart cities, emphasizing the need to cultivate innovation hubs, provide mentorship, and attract investments to foster entrepreneurial growth.



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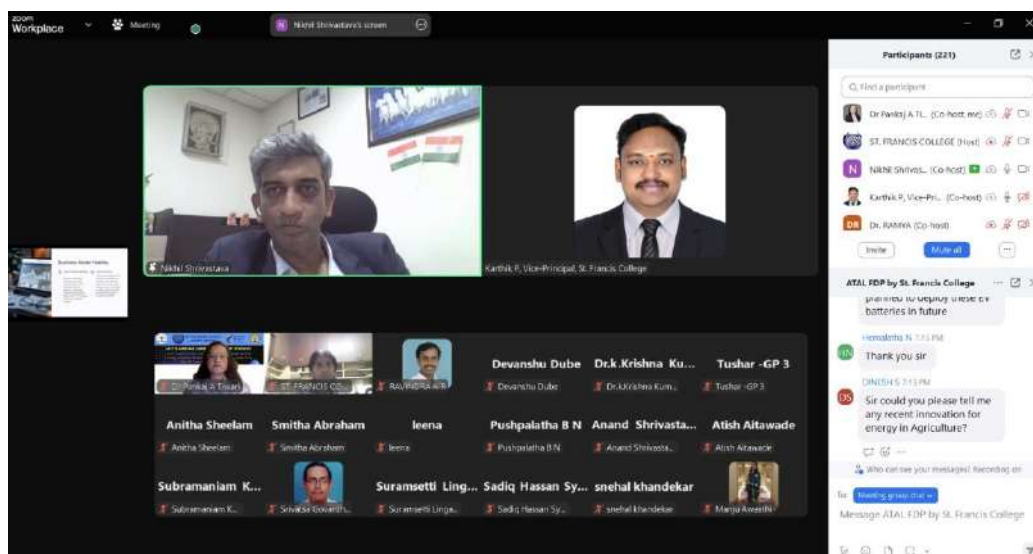
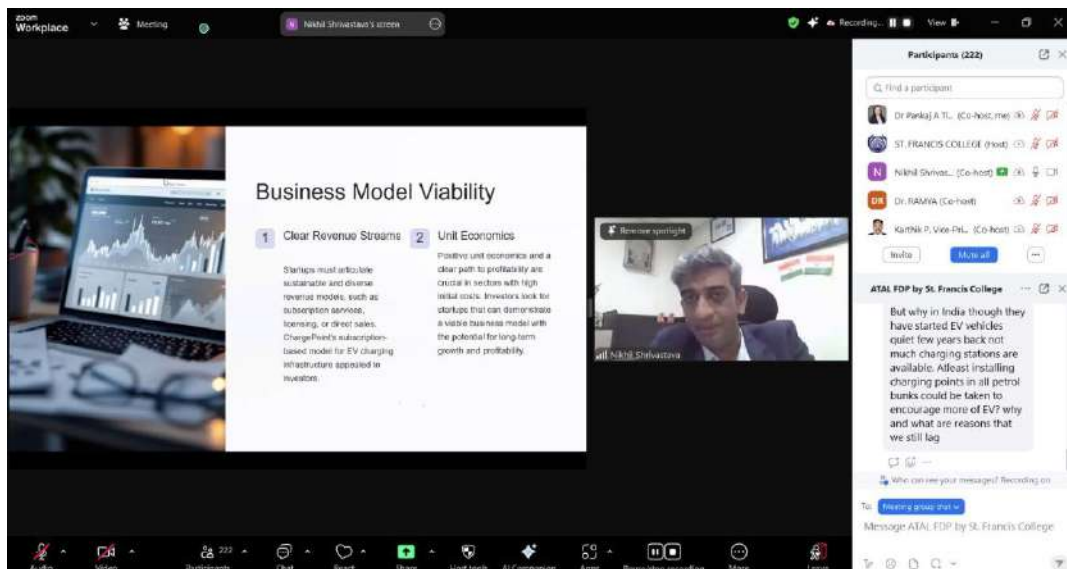


## SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on

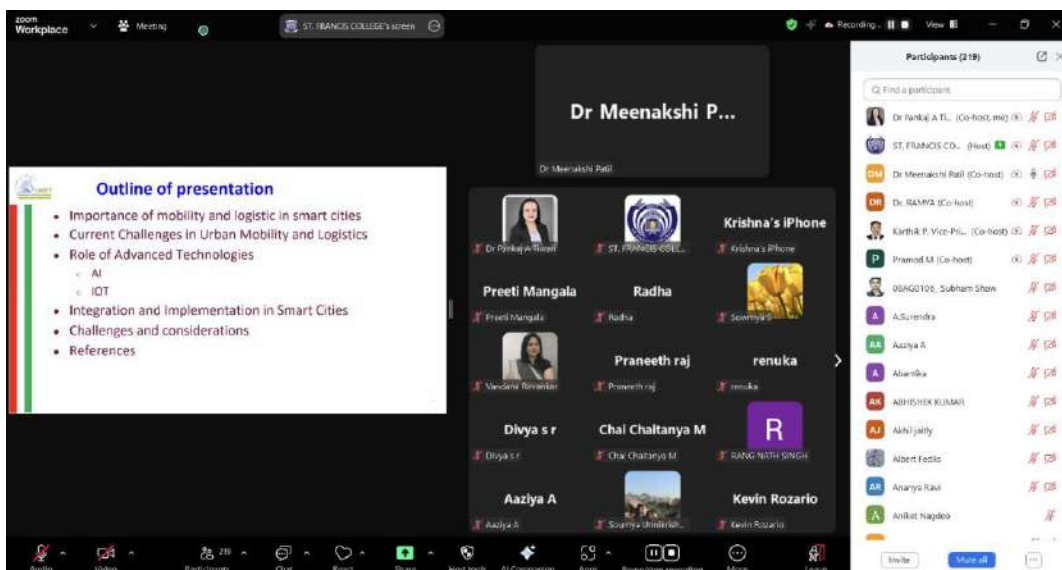
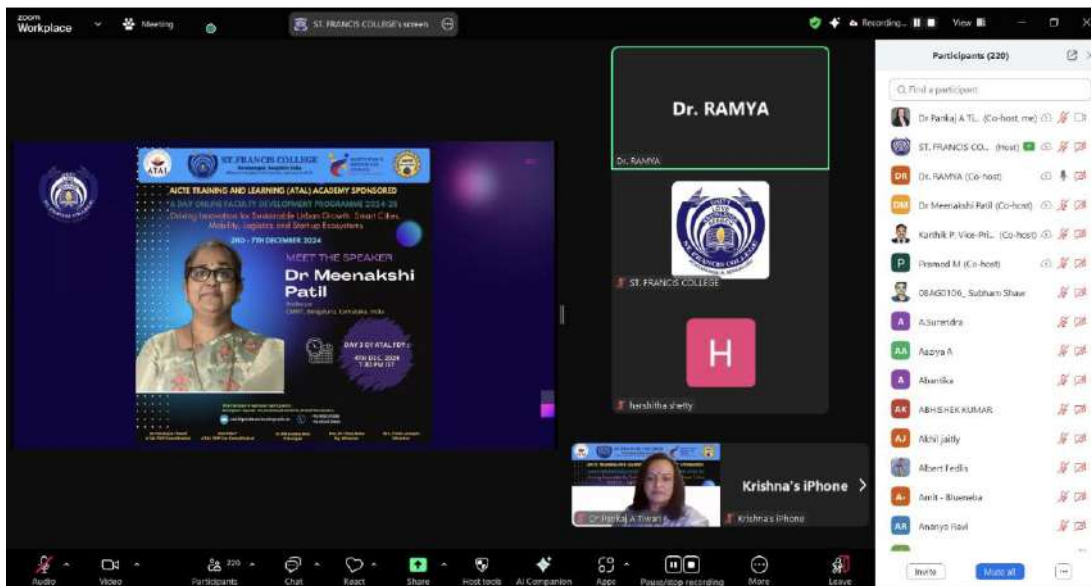
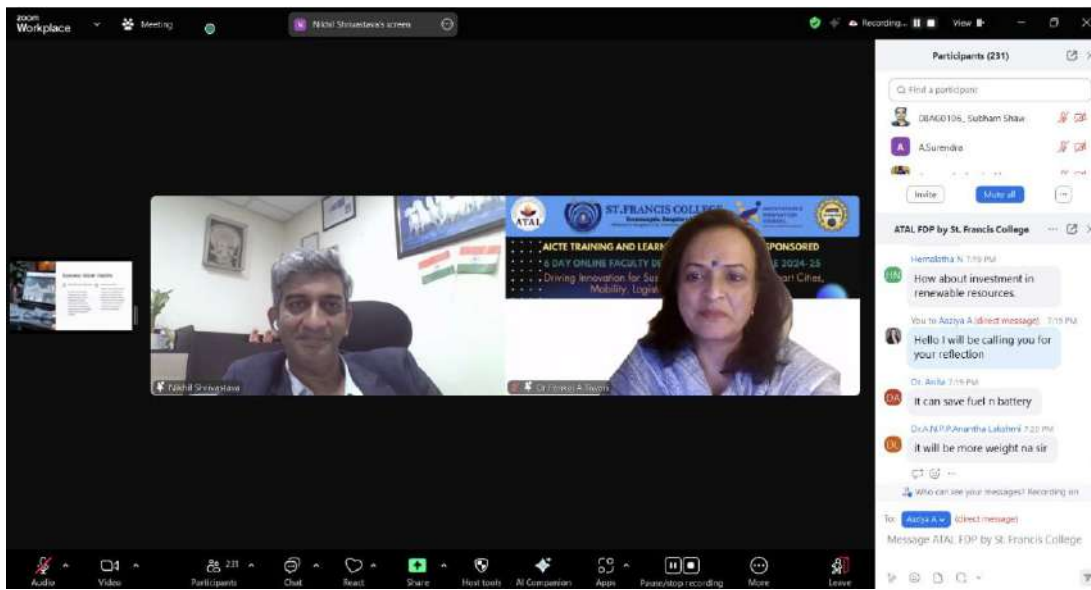
### “Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems”

Day 3 focused on energy, mobility, and the integration of cutting-edge technologies. **Nikhil Srivastava** explored the role of entrepreneurship in driving the future of energy and mobility, highlighting the impact of clean energy solutions and shared mobility systems on sustainable development.

Later, **Dr. Meenakshi Patil** provided insights into leveraging AI and IoT for smart mobility and logistics, demonstrating how these technologies improve operational efficiency, enhance safety, and elevate customer satisfaction.

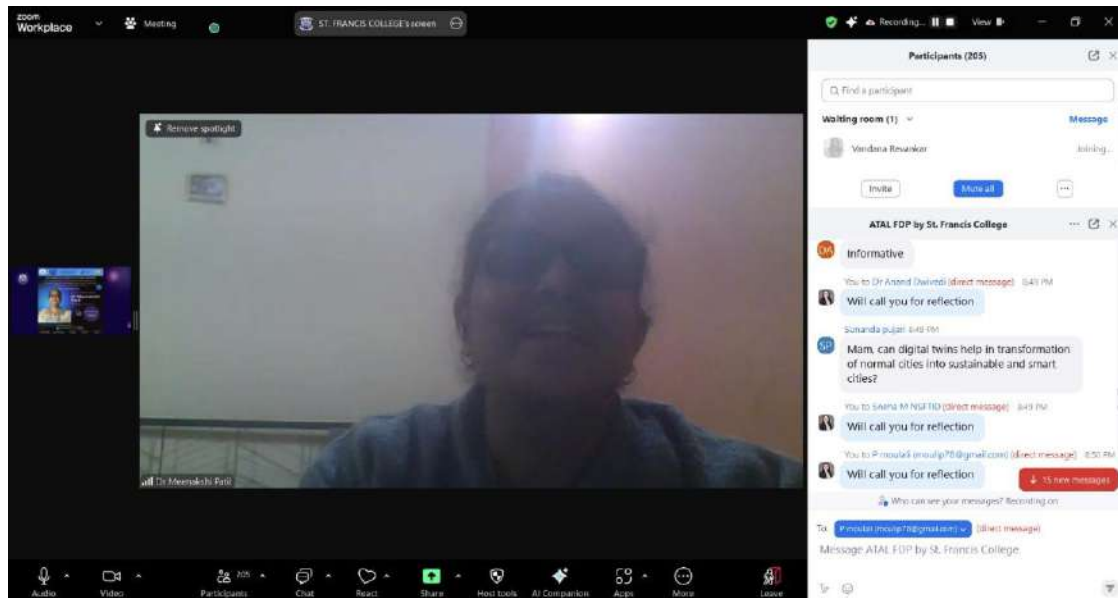


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 “Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics  
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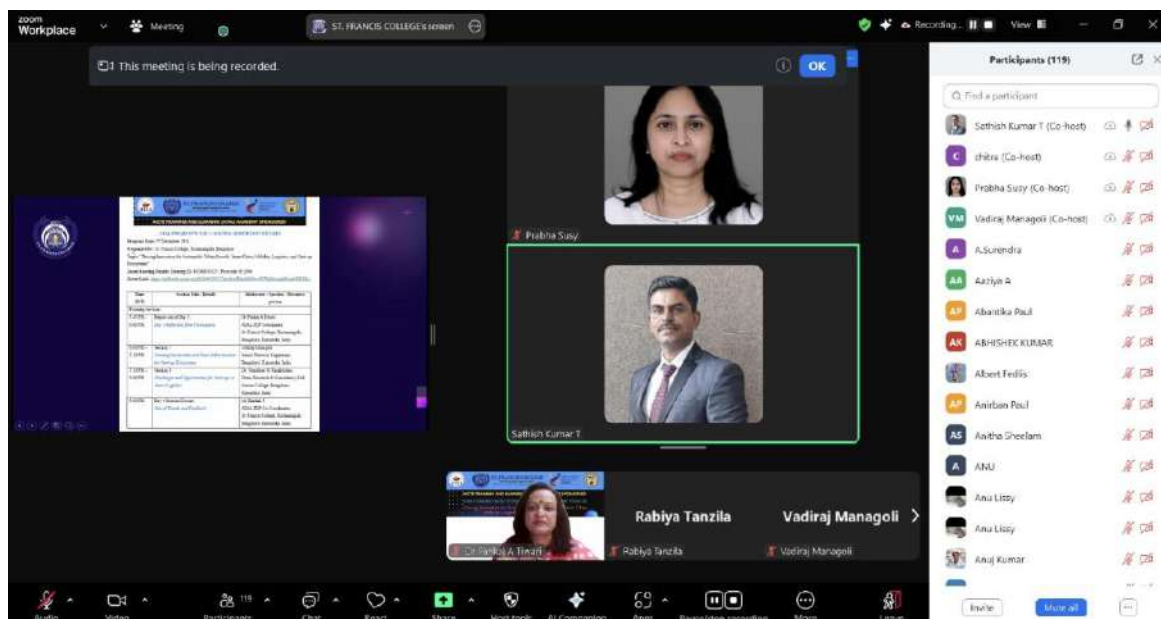


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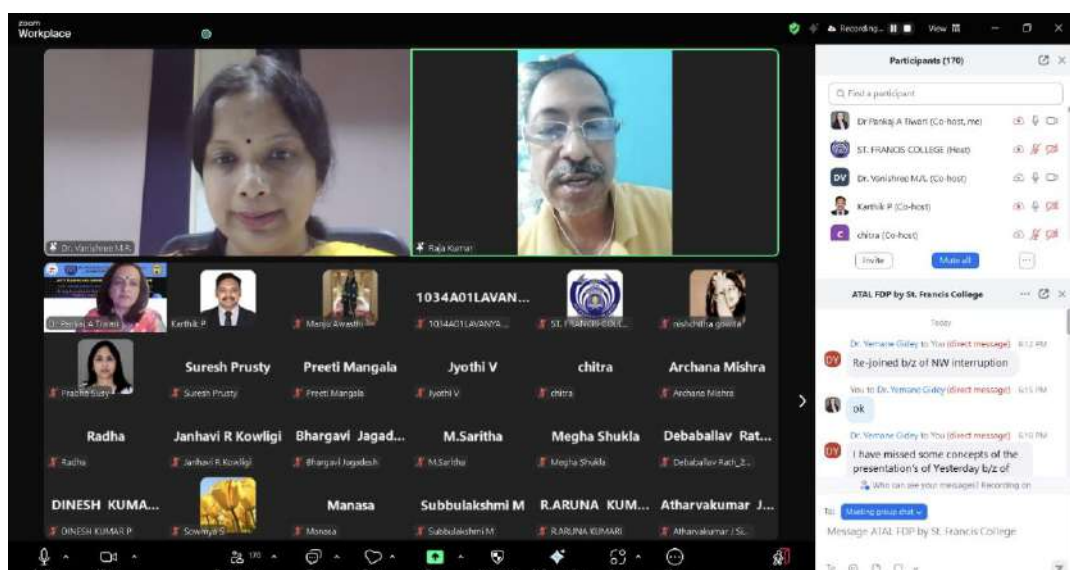
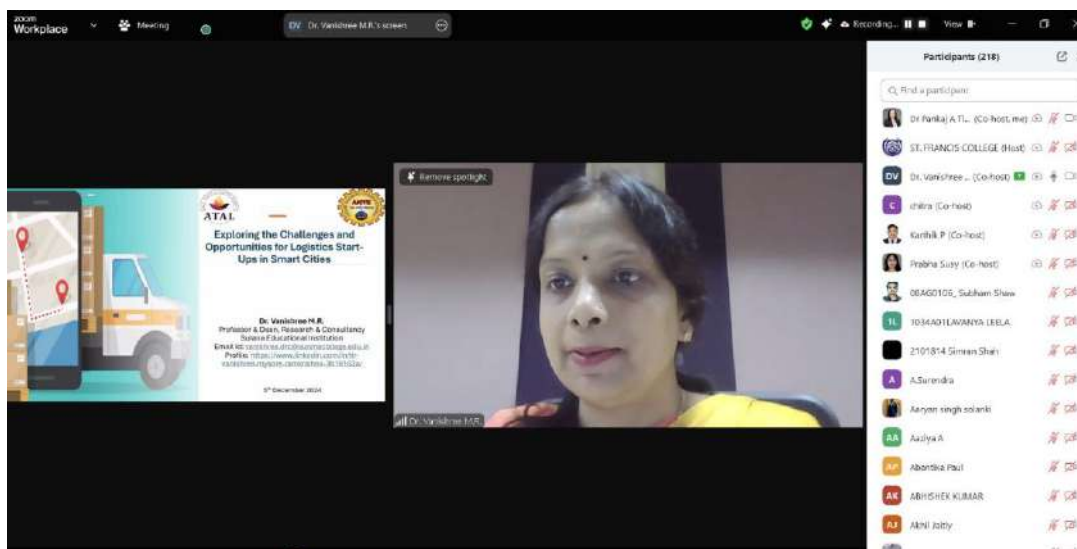
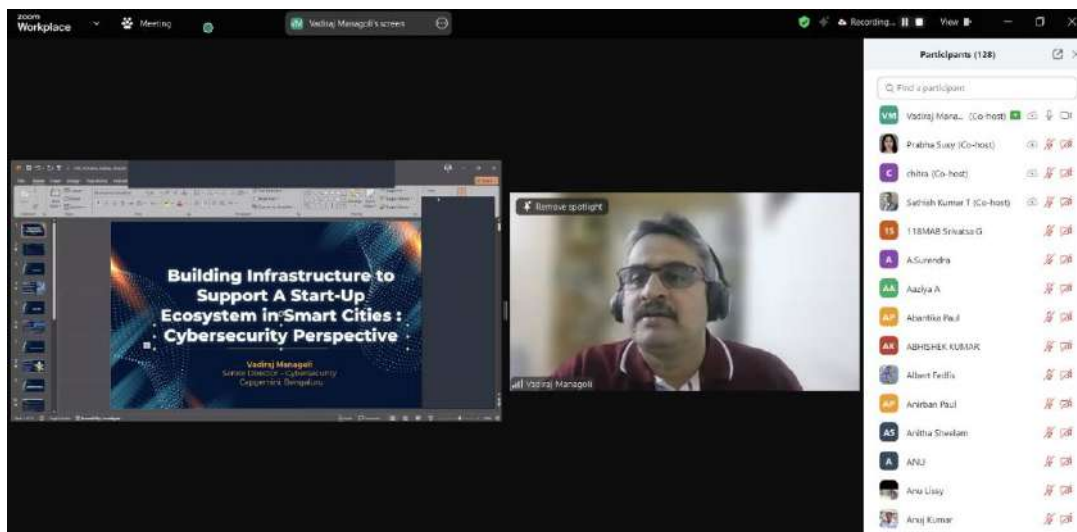
### “Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems”



Day 4 centered on sustainability and infrastructure development. In the first session, **Vadiraj Managoli** shared valuable insights on building sustainable and smart infrastructure to nurture start-up ecosystems. He outlined strategies for effective urban planning, optimizing resource utilization, and encouraging collaboration among governments, academia, and industry. The second session, led by **Dr. Vanishree M. Ramakrishna**, examined the challenges and opportunities for start-ups in smart logistics. She highlighted the importance of innovative logistics solutions in tackling urban issues such as last-mile delivery and eco-friendly transportation.



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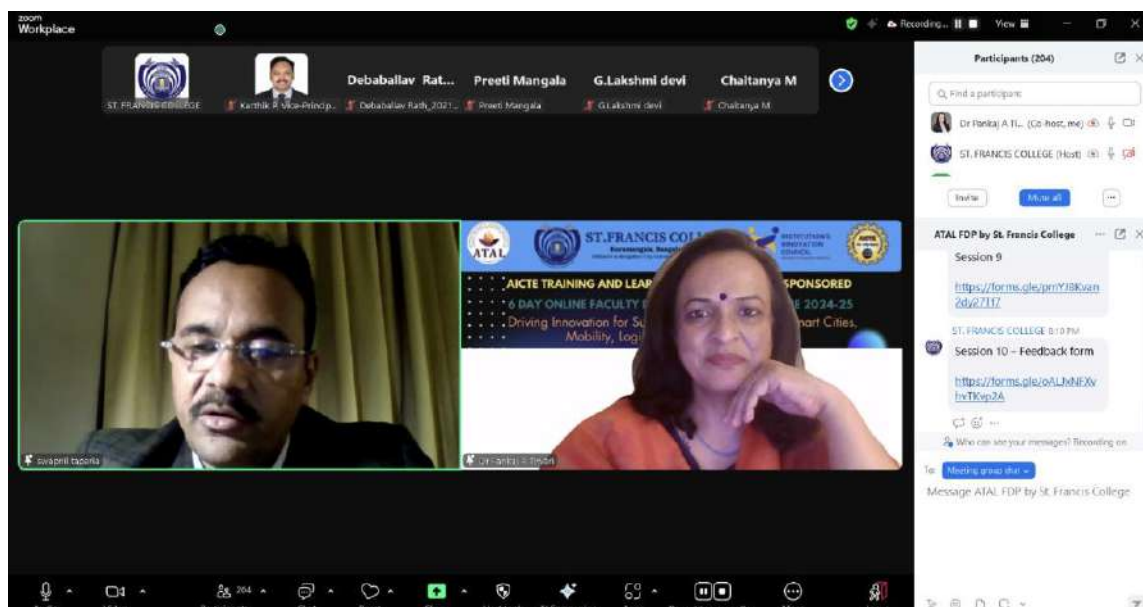
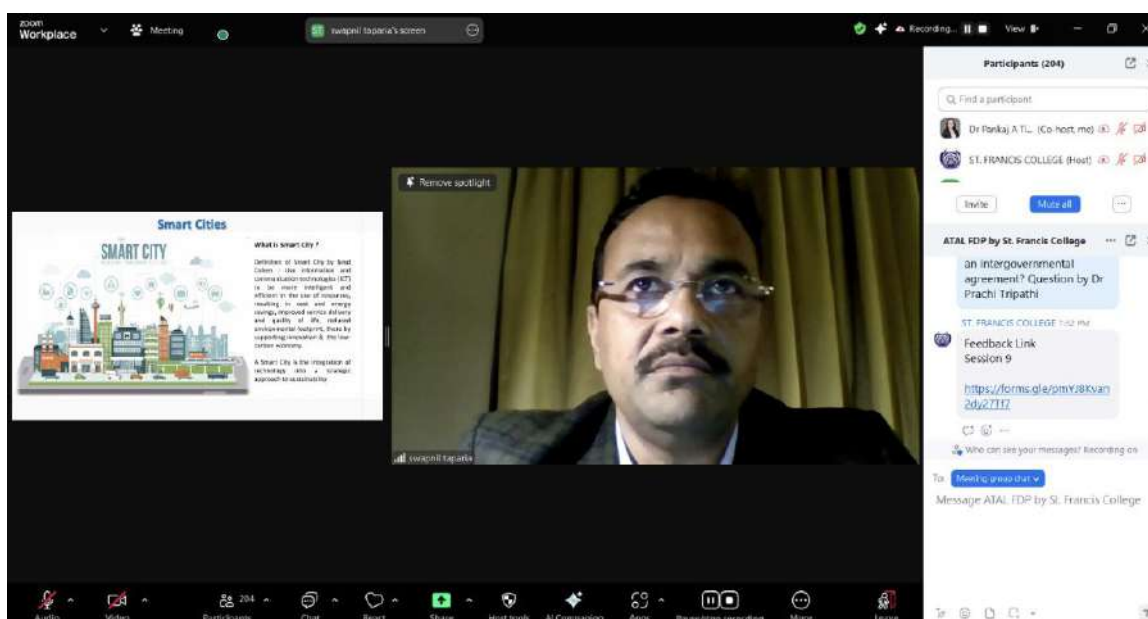
### “Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems”

Day 5 emphasized collaboration and efficiency in logistics. **Monica Smith (International Resource Person)**, in her session on public-private partnerships (PPPs) for smart city development, stressed the significance of aligning public policies with private-sector innovations to promote inclusive urban growth. Following this, **Swapnil Taparia (International Resource Person)**, explored smart logistics and supply chain management, highlighting strategies to streamline supply chains and minimize environmental impacts through the use of advanced technologies.

The screenshot displays a Zoom meeting in progress. The main content is a presentation slide with the following text: "Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-Up EcoSystems". Below the title, it lists "Public-Private Partnerships", "Vendor Management", and "Business Models". The presenter is identified as "Monica M Smith" from "Tradewinds Career Consulting". The slide also features the logo of St. Francis College. The Zoom interface shows Monica Smith in a video window, a participant list on the right with 127 members, and the standard Zoom control bar at the bottom.

This screenshot shows a Zoom meeting with a different presentation slide. The slide is titled "Development of Strategic Partner Program" and includes a flowchart with five stages: Strategy, Scope, Suitability, Partner Management, and Transition to RFP. Each stage has a brief description. The Zoom interface shows Monica Smith speaking, a participant list on the right with 202 members, and a chat window at the bottom right with a message from Lakshmi Devi: "Lakshmi Devi Ma'am, your question has been noted and will be addressed by the resource person at the end of the session".

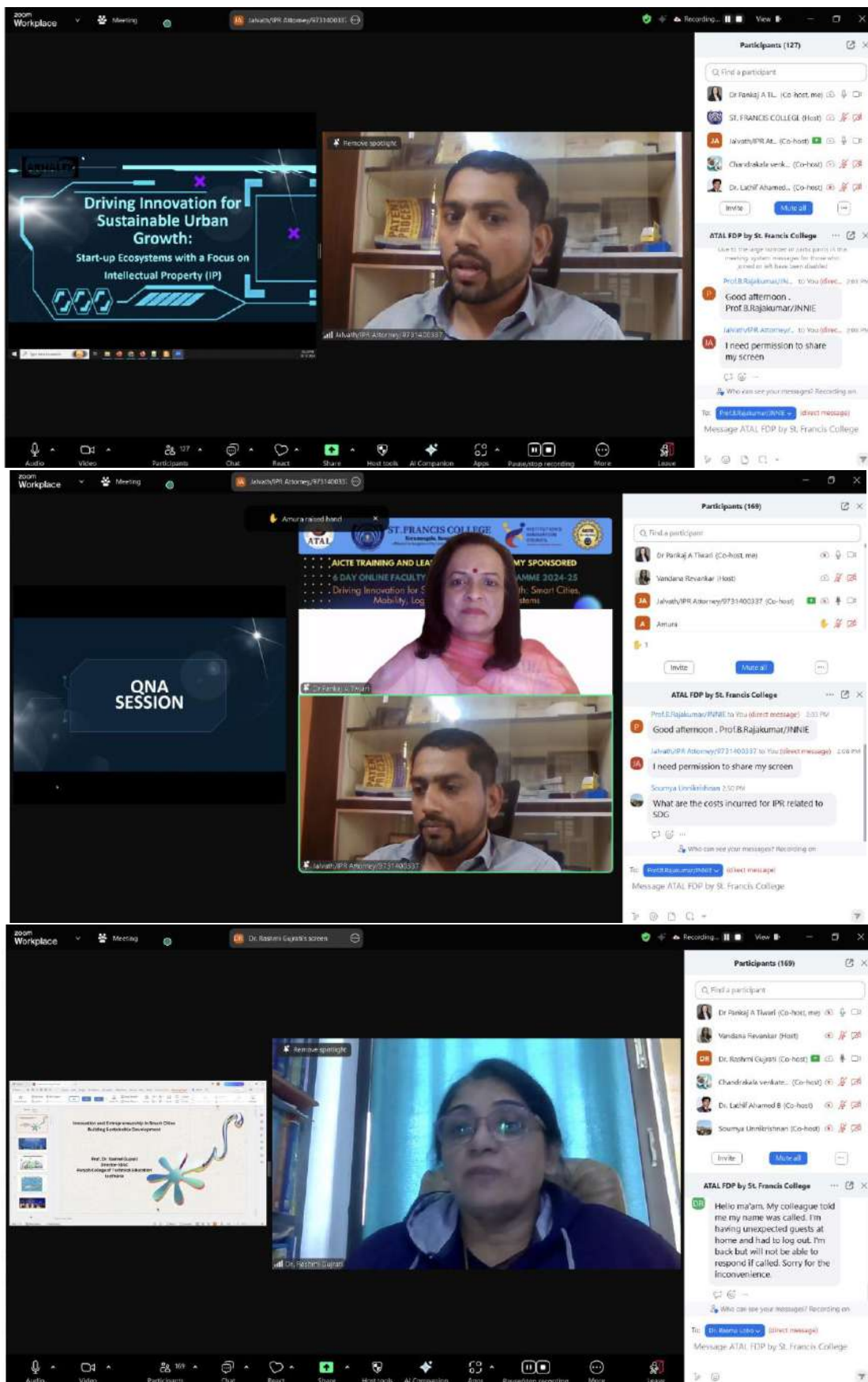
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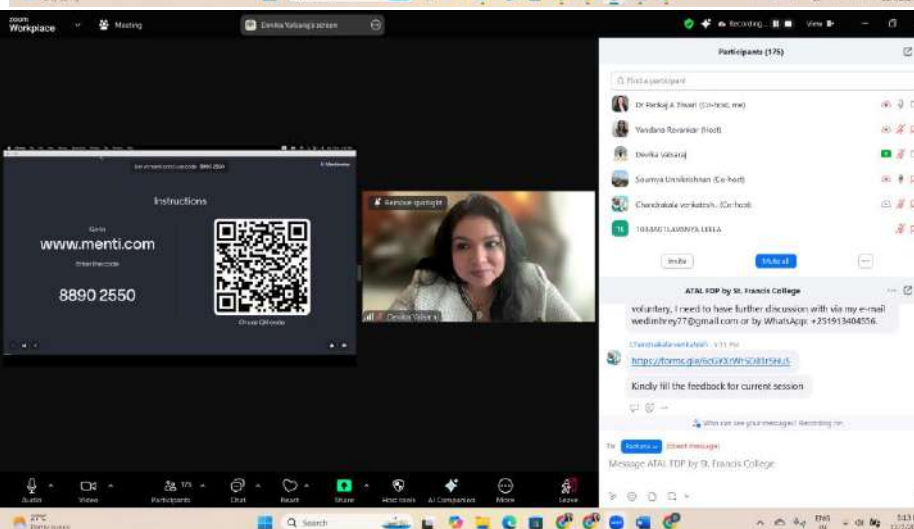
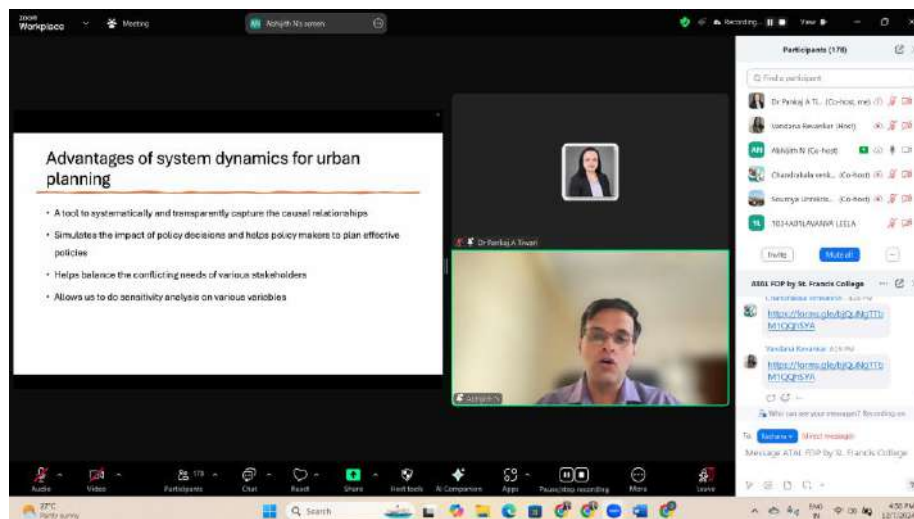
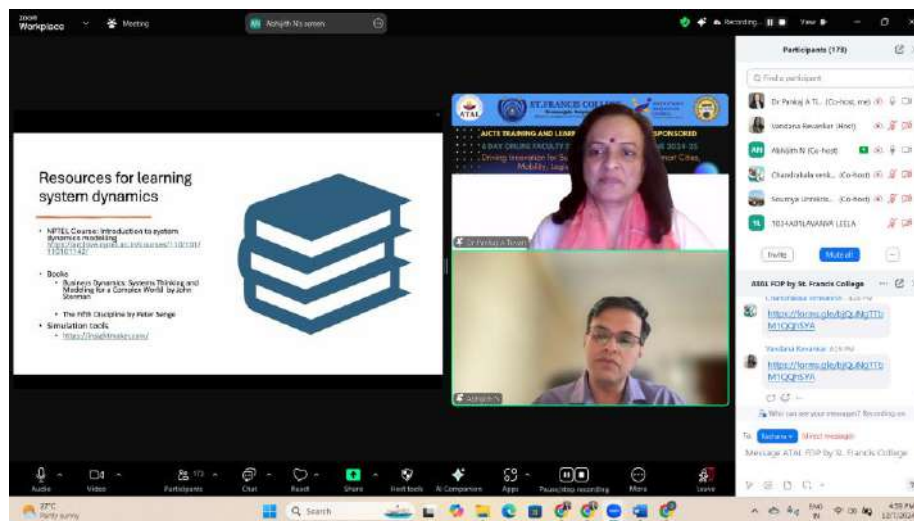
Day 6, the concluding day, focused on innovation and policy frameworks. **Dr. Rashmi Gujrati** opened with a session on the synergy between innovation and entrepreneurship in creating sustainable start-ups within smart cities, showcasing successful models that incorporate sustainability principles. In the subsequent session, **Jalvath A and Abhijith Neerkaje** explored system dynamics for sustainable urban planning, emphasizing the integration of smart mobility and logistics to ensure the success of smart cities. The day concluded with an insightful session by **Devika Valsaraj (International Resource Person)**, who discussed policies, regulations, and the start-up ecosystem in smart cities, highlighting how effective regulatory frameworks can foster innovation and stimulate economic growth.



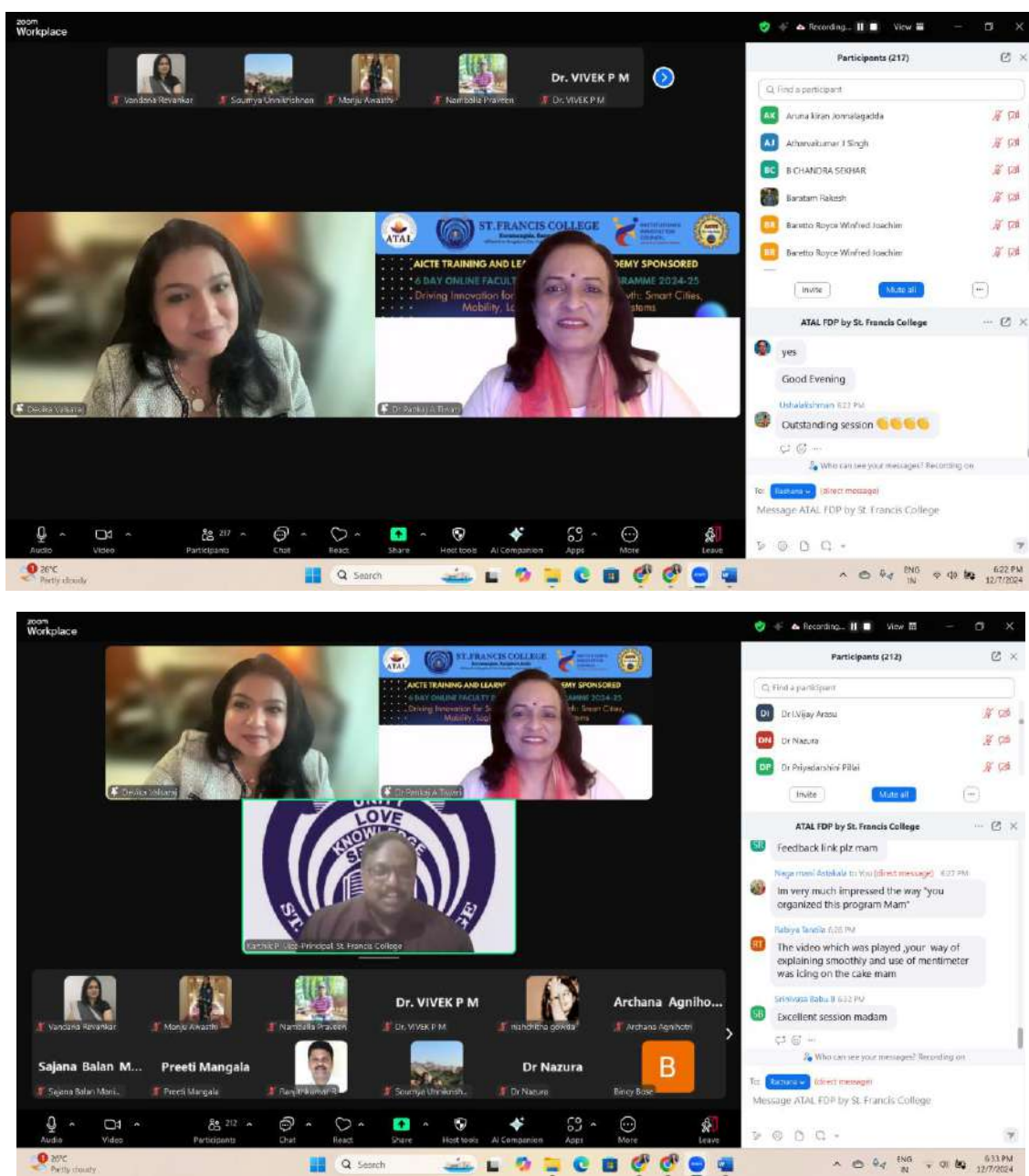
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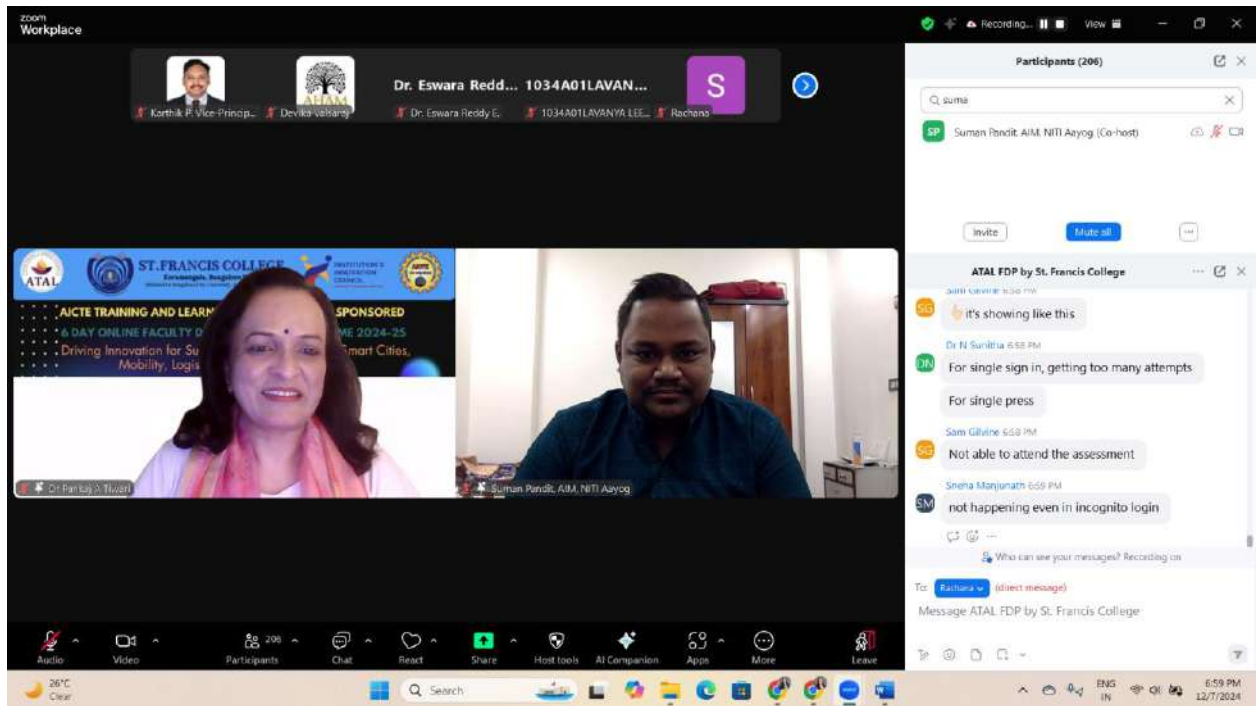


The program concluded with an online test and feedback session, followed by a valedictory address delivered by **Suman Pandit (ATAL Innovation Mission, NITI Ayog)**. He praised the participants for their active involvement and encouraged them to leverage the knowledge gained to address real-world urban challenges.

This FDP effectively bridged the gap between theoretical insights and practical application, offering participants a well-rounded understanding of smart cities and their contribution to sustainable urban development. It underscored the critical roles of innovation,

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entrepreneurship, and collaboration, empowering participants to play an active role in shaping the future urban landscape.



**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics  
and Start-up Ecosystems”**

**LIST OF ATAL REGISTERED PARTICIPANTS**

S.No.	Name	Email	Phone
1	Dr. Mahaboob Peera Kamatalam	kmpeera.civ@srit.ac.in	8985091020
2	Mr. Alakunta Surendra	surendra9917@gmail.com	9676029917
3	Mr. SOMDEB ROY BARMAN	barmansomdevroy@gmail.com	6291106098
4	Mrs. R ARUNA KUMARI	arunakumarir.civ@srit.ac.in	9392464151
5	Mrs. K.Nagamani	astakalanagamani@gmail.com	9676837194
6	Mr. ATISH AITAWADE	aitawadeatish@gmail.com	9916171452
7	Dr. RAJI THOMAS	rajithomas28@yahoo.com	8333939618
8	Mrs. PENDLI BHARATHI	pendli.bharathi06@gmail.com	8790215513
9	Dr. Saumyaprava Acharya	saumyaprava.acharya@gmail.com	8093547005
10	Mrs. DARNA SWAPNA	swapnaraju824@gmail.com	8459255066
11	Mr. UMA MAHESWARA REDDY SEELAM	sumr1406@gmail.com	9949212979
12	Miss V.KUSUMA NIHARIKA	vkusumaniharikafme@smec.ac.in	8125357515
13	Dr. Umamaheshwari S	umamaheshwari@jssuni.edu.in	9986636939
14	Miss NISHA GARG	nisha.garg@meri.edu.in	9911299096
15	Miss Krishna Raj	krishna@mescas.org	9526849361
16	Miss Kavya S	kavya@mescas.org	8606619818
17	Mr. BARATAM RAKESH	rakeshbaratam6@gmail.com	9491576177
18	Dr. Ganesan kaliappan	ganesankaliappan@gmail.com	9894123331
19	Mr. B.RAJAKUMAR	mailbrk75@gmail.com	9894534789
20	Mr. Vinoth Kumar M	vinothkumarm@jnn.edu.in	9600355935
21	Mrs. Bharathi MG	bharathing@gmail.com	9845642560
22	Mr. PUSULURI SIVA KRISHNA	psivakrishna95@gmail.com	8985299003
23	Mrs. Vinutha V	vinuthavinash@gmail.com	9845244086
24	Dr. Ravikiran Petluri	ravikiran.petluri@gmail.com	9738121210
25	Mrs. Latha B	lathaprasad3105@gmail.com	9901002235
26	Mrs. Swathi R	swathir19@gmail.com	9962244897
27	Mrs. D Neelima	neelu5899@gmail.com	8639122712
28	Dr. M.Yellaiah Nayudu	naidugpcet@gmail.com	9885927459
29	Mr. NAMBALLA PRAVEEN	namballapraveen321@gmail.com	6281079055
30	Mr. Matthala Srikanth	srikanth.matthala@gmail.com	9110321155
31	Mr. NIMMALA LAKSHMAN	lakshmann172@gmail.com	8688635496
32	Mr. THOTAPALLI MANOJ	manojthotapalli@gmail.com	7396421773
33	Mr. SATHISH KUMAR T	sathishkumart119@gmail.com	9964029936
34	Miss Rishita Bonu	rishitabonu@gmail.com	7893168656
35	Mrs. Dr. Radha Ganapathy	radhaganapathy@jyotinivas.org	9448839331
36	Mrs. ANANTHA LAKSHMI M	lakshmi.muniraj@gmail.com	9632454981
37	Mr. Alok Upadhyay	alokupadhyay623@gmail.com	7897098810
38	Miss Yeshaswini S	yeshaswini.s.1@gmail.com	9066778089
39	Mrs. Sowmya S	soumya13s@gmail.com	9980000233
40	Dr. VIVEK P M	anandvivek16@gmail.com	7667990279
41	Dr. Syed Noorullah	noorullah407@gmail.com	6304967470
42	Mrs. Pushpalatha B N	pushpalatha26@gmail.com	9886633515
43	Miss veeramalla satya renuka	vsatyarenuka@gmail.com	8500316922

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on**

**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics  
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S.No.	Name	Email	Phone
44	Dr. K. Ramadevi	ramakalyank@gmail.com	8008966683
45	Miss JAYANTHI Y S	jayanthi.y@stfranciscollege.edu.in	9110697650
46	Mr. Anuj Kumar	anuj.kumar@meri.edu.in	9891289932
47	Dr. THANAPACKIAM	thanapackiam@stfranciscollege.edu.in	9739477134
48	Mr. SWAPNIL SHANKAR PATIL	swapnil.patil0707@gmail.com	9881909896
49	Dr. Soniya K	soniyaofficial@gmail.com	9751016657
50	Mrs. B CHITRA	cmapril22@gmail.com	9886721267
51	Mrs. Nethra R	nethra.r@stfranciscollege.edu.in	9952360061
52	Mr. KATRU ABHISHEK DESHAI	katruabhishekdeshai@gmail.com	9347795963
53	Mr. Kevin Rozario	kevin.r@stfranciscollege.edu.in	8660846094
54	Mr. Dr. Soheb Munir	sohebm@lnt.ac.in	8109222591
55	Dr. P. RAMANATHAN	ramanathanp2010@gmail.com	7904500575
56	Mrs. SABITHA S	sabithastfrancis@gmail.com	9480057840
57	Mrs. PRABHA SUSY MATEHW	prabha.susan102@gmail.com	9008374400
58	Miss BHAVYA C	bhavyac20.official@gmail.com	9008770165
59	Mrs. SOUMYA UNNIKRISHNAN	soumyasubru@gmail.com	8095537471
60	Miss Bhargavi Jagadish	bhargavi2410@gmail.com	9590050999
61	Mr. KONDURU ANAND	anandkonduru58@gmail.com	9177763536
62	Mrs. Smitha Koshy	smithaligin21@gmail.com	8884287393
63	Dr. Benita Jaison	benita.j@stfranciscollege.edu.in	9740430717
64	Mr. BALLIKURAVA SISINDRI	rohisisindri5@gmail.com	9100273043
65	Mrs. Sajana Balan Manian	sajana.b@stfranciscollege.edu.in	9591585464
66	Dr. MOHAMMED NABEEL K	nabeel.k@cmr.edu.in	7907152074
67	Mrs. Anusha N	anusha.nagaraj03@gmail.com	8747970370
68	Dr. Sam Gilvine Samuvel	gilvine21@gmail.com	8754028752
69	Dr. Swastika Tripathi	tripathiswastika@gmail.com	8191928723
70	Mr. RAVADA SAI KUMAR	ravadasaikumar2000@gmail.com	7893283205
71	Mrs. L.J.N.Sree Lakshmi	sreelakshmi.ljn@gmail.com	9494763019
72	Dr. Dr. Kota Padmaja	padmajakota@raghupharmacy.com	9908834194
73	Dr. Nazura Javed Kutty	nazura.j@stfranciscollege.edu.in	9845207806
74	Mrs. Maithri	maithripr@gmail.com	9902445005
75	Mrs. J S DEEPIKA	jsdeepika10@gmail.com	9959325165
76	Mrs. K Sri Chaitanya Reddy	srichaitanya2507@gmail.com	7075202360
77	Mr. ANGADI VENKATA KRISHNA	angadi.venkatakrishna123@gmail.com	8008840452
78	Mrs. Janani Vijaykumar	janani.jnc@gmail.com	9353120581
79	Dr. PREETI MANGALA	preetimangala@jyotinivas.org	9845967108
80	Mrs. Seema S	seema.srinivas.vasista@gmail.com	7090057198
81	Dr. Leena Nair	leenanair@jyotinivas.org	9845082482
82	Mrs. V M shruthi	shruthivm07@gmail.com	8892103501
83	Mr. VIJAY ANAND P	vijayanand.p@cmrit.ac.in	7358181716
84	Miss yerra lavanya	lavanyaa2030@gmail.com	9014935100
85	Mr. Sane Anil Kumar	anil042894@gmail.com	8919500607
86	Miss Kammara Meghana	meghanakammara2001@gmail.com	9441334135

**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics  
and Start-up Ecosystems”**

S.No.	Name	Email	Phone
87	Mr. Tanniru Prakash	prakashpower11@gmail.com	7095856064
88	Mrs. SOWRATHI RAJESWARI	rajeswarividhatri16@gmail.com	6302340423
89	Mrs. Divya S R	divyasr@vijayacollege.ac.in	9481247306
90	Mrs. Muthamma B U	muthamma.bu@cmr.edu.in	9591797458
91	Dr. VINJAVARAPU ANITHA KUMARI	vsnanithabharathi@gmail.com	9492293877
92	Dr. Mrs Dr Anujab	anujab@jyotinivas.org	9341424465
93	Mr. Nikhil Dilip Patil	patil.nikhiladcbp@gmail.com	8928115252
94	Dr. Archana Agnihotri	archana.23.agnihotri@gmail.com	9452531377
95	Miss TULASI ROUTULA	tulasirouthula@gmail.com	6303751986
96	Dr. Jaigopi K	jaigopi.k@gmail.com	9448685008
97	Dr. SUNITHA K M	sunithayashi@gmail.com	9980733094
98	Dr. Pratima Bhat	pbhat3381@gmail.com	9480716277
99	Mrs. Beena N	snsr1209@gmail.com	9480428125
100	Mr. Devanshu Dube	devanshudube@gmail.com	9911503232
101	Mr. Shivakumara	shivakumara@stfranciscollege.edu.in	9620870533
102	Mrs. K PUSHPA RANI	rani536@gmail.com	7799375067
103	Mrs. HARSHITHA V SHETTY	harshithashetty@aiet.org.in	9844714630
104	Mrs. Vandana N Revankar	revankar.vandana@gmail.com	9742204097
105	Dr. Swati Saxena	swatisaxena352@gmail.com	8299730580
106	Mr. SHEKAR KUKUNOOR	shekar.kukunoor@mlrinstitutions.ac.in	8712257663
107	Mr. KIRAN C B	kirancb6688@gmail.com	7353290684
108	Mr. P. DINESH KUMAR	dineshkumar.p2010@gmail.com	9944741197
109	Dr. P B Deepa	deepa.p@stfranciscollege.edu.in	9632991981
110	Mrs. A Sangeetha	sangeetha.a@mlrinstitutions.ac.in	9441828553
111	Mrs. Savitha D	savitha_d@cmr.edu.in	9008093004
112	Dr. RAMAKRISHNA	rama.k@stfranciscollege.edu.in	9945460723
113	Mrs. Anima Chaturvedi	anima.eco1893@gmail.com	8741889514
114	Mr. Akhil Jaitly	akhil.jaitly@meri.edu.in	8368155561
115	Mrs. Bharathi G	bharathi.g@stfranciscollege.edu.in	9916327222
116	Mrs. Soniya Joseph	soniyajoseph0123@gmail.com	7025038588
117	Dr. Geetha S	ask2geetha@gmail.com	9663742560
118	Dr. Dr Rajesh P S	sitrajeshps@gmail.com	9980357137
119	Miss Jyothi V	jyothi.v1984@gmail.com	9481604459
120	Mr. Srivatsa Govardhana	gsrivatsa73@gmail.com	9866378361
121	Miss ANANYA RAVI	ananya3298@gmail.com	8762388195
122	Mrs. Anu L	daniel03anu2016@gmail.com	9632357445
123	Mrs. Neeshma Sreevalsan	neeshma.s@stfranciscollege.edu	8921162025
124	Mrs. SAILAJA RONGALI	rongalisailaja2011@gmail.com	6304138463
125	Dr. E. Veeramanipriya	priyaphysics12@gmail.com	8531024057
126	Miss Anu Varghese	anumat.058@gmail.com	9961232058
127	Mrs. Vinutha r bhatta	vinodhinibhat@gmail.com	6364044172
128	Dr. Iyappan M	iyappastat@gmail.com	8122506441
129	Mrs. MARY STELLA F	mary.stella@stfranciscollege.edu.in	6364718546
130	Mr. Srinivasa Babu B	sbabubhs@gmail.com	9449106569
131	Dr. Hemambika Sadasivuni	sada.hema4@gmail.com	6301727341
132	Dr. Ramya K	ramya.k@stfranciscollege.edu.in	9538740485

**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems”**

S.No.	Name	Email	Phone
133	Miss Nikhitha S Thomas	nikhitha.s@stfranciscollege.edu.in	8904937810
134	Dr. Priyanka Puri	dr.priyankapuri@rayatbahra.com	9646142542
135	Mrs. goriparthi vijaya vani dhanalakshmi kuma	goriparthivani@gmail.com	8367333393
136	Mrs. Premala	kashipremala@gmail.com	8310590098
137	Mrs. Anitha Sheelam	anithastar333@gmail.com	7093683652
138	Dr. SARAVANAN M	sarandgl2k@gmail.com	9443274296
139	Mr. J. JAYAPRAKASH	jayaprakash.ba.007@gmail.com	9344272229
140	Dr. stuti Narula markan	stutinarula.markan@meri.edu.in	9873221179
141	Dr. Reema Orison Lobo	reema.orison@gmail.com	9886214118
142	Mrs. Rachana	rachana.imc@srinivasuniversity.edu.in	9845791255
143	Mr. Albert Fidelis	albert.f@stfranciscollege.edu.in	7829590939
144	Mrs. G.Loganayagi	loganayagigopi74@gmail.com	9600991238
145	Mrs. Shivanjali Kesharwani	shivanjali281983@gmail.com	9035174189
146	Miss Pujari Sunanda	sunandap0099@gmail.com	7013779043
147	Mrs. SOPPANA S	soppana.rishi@gmail.com	7200300249
148	Dr. Indumathi S	indunaiker@gmail.com	9880845033
149	Dr. Manju Awasthi	manjuawasthi1965@gmail.com	9936337844
150	Dr. Soumya K	soumya.ramesh436@gmail.com	8095843510
151	Dr. Bincy Bose	bincysnehal@gmail.com	9909909663
152	Mr. Yuvaraj M	yuvarajmohanselvam@gmail.com	9962096578
153	Miss Deepa V	deepa011298@gmail.com	7538801609
154	Mr. Y Sivananda Reddy	sivareddys143@gmail.com	9949945920
155	Mrs. Sneha Manjunath	sneha.m@nitte.edu.in	7406254091
156	Mr. Channappa	channareddy789@gmail.com	8618813191
157	Miss DOKKU MANASA	manasadokku2229@gmail.com	9618829565
158	Mrs. Sowmya S	sowmya.s@stfranciscollege.edu.in	8050872209
159	Miss Chandrakala V	chandrakalavvenkatesh@gmail.com	6363545335
160	Dr. Dr Rajeena	syedrajeena@gmail.com	9986560320
161	Mr. ARJUN GOVIND	mailarjungovind@gmail.com	9400651418
162	Miss NAGESHWARI	nageshwarijob@gmail.com	8050773139
163	Dr. Muthuraja. A	a.muthuraja2010@gmail.com	9678335991
164	Miss S NUSRAT YASMEEN	syasmeen@ashokacollege.in	7569504741
165	Dr. Musaib Ahmad Shariff B A	bamusaibahmadshariff@gmail.com	8123412613
166	Mr. Maddila Chai Chaitanya	chaitanyamaddila039@gmail.com	9398122480
167	Mrs. VEENA S	sveena802@gmail.com	9656817903
168	Dr. Priyadarshini Pillai	priya.pillai07@gmail.com	7674888618
169	Mr. Dr Anand Kumar Dwivedi	adwivedi11@gmail.com	8090298604
170	Mr. Chowdary Kishore	kishorechowdary9800@gmail.com	6301798379
171	Dr. Archana Mishra	archanamishra_kn03@csjmu.ac.in	9793607000
172	Dr. Amit Prakash Raghuvanshi	raghuvanshi.ap@gmail.com	8799310855
173	Dr. Yemane Gidey Gebrerufael	wedimhrey77@gmail.com	9845195206
174	Dr. Dhruv	llbdhruvadocate@gmail.com	9990776889
175	Miss AAZIYA A	aaziya.hvbs@gmail.com	7010015557
176	Mr. HARISHKUMAR M	harichintu1992@gmail.com	9845814323
177	Dr. CHANDRIKA REDDY P	chandrikapreddy@gmail.com	9880687861
178	Dr. Bharath V	bharath.v@kristujayanti.com	8884230232
179	Mrs. Kalpana S	kalpanasreeramadasu@gmail.com	7036829952



**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics  
and Start-up Ecosystems”**

S.No.	Name	Email	Phone
180	Mr. NALLURI NAGARAJU	dsp.nagarajunalluri@gmail.com	9642399321
181	Miss uddandapu venkata sai supraja	uddandapusupraja@gmail.com	8317502057
182	Dr. Jyoti Neeli	jyoti.neeli@gmail.com	9845129372
183	Mrs. Lalam Ramanamma	ramanivarahalu@gmail.com	8074866391
184	Mrs. Divya priya	divya.degala@gmail.com	8297362255
185	Miss Filcy C J	filcy.c@stfranciscollege.edu.in	9916689200
186	Mrs. Divya H	divya.h@stfranciscollege.edu.in	9108548509
187	Mrs. Supriya GK	supriya.basthi@gmail.com	8762413043
188	Dr. K V Ramanath	kvr1075@gmail.com	9448239487
189	Mr. CHANDRA SHEKHAR M B	charanamritartist@gmail.com	9008609618
190	Dr. Sujaya H	sujayaloknath@gmail.com	8861928555
191	Mrs. SUMAN DINESH MALODEY	suman.rangadhale@gmail.com	8861256519
192	Miss Swetha K R	swetha.k@stfranciscollege.edu.in	9886526790
193	Mrs. RABIYATHL BASRIYA KM	rabiyaabasriya257@gmail.com	9884381155
194	Mr. AHAMED ATHIQ SAZZATH A	ahamedsazzath@gmail.com	7904144912
195	Dr. Neha	dr.neha2917@gmail.com	7017788784
196	Mr. Vignesh Prabbhu N	vignesh.prabhu@stfranciscollege.edu.in	7899346494
197	Miss Rekha V S	rekhavs05@gmail.com	7338366355
198	Mr. Baretto Royce Winfred Joachim	roycebaretto11@gmail.com	7760837961
199	Dr. I VIJAY ARASU	vijay.arasu1@gmail.com	9994217071
200	Mrs. Smitha Biji	smitha.abraham@gmail.com	8123987925
201	Miss Shafiya Taj	shafiya.taj@stfranciscollege.edu.in	7619687429
202	Dr. Priyanka kumari	priyanilpawan@gmail.com	7010891901
203	Dr. G Sundararajan	chemsundar01@gmail.com	9790493544
204	Dr. Archana Tiwari	drarchanatiwari69@gmail.com	9452529269
205	Mr. Harish S	harish.s@stfranciscollege.edu.in	9742154084
206	Mrs. Subbulakshmi M	subbulakshmiapcommerce@gmail.com	8825559364
207	Dr. BHUPENDRA BAHADUR TIWARI	drbhupendra.eco@gmail.com	9838001910
208	Dr. Rakesh Deb Roy	rakesh4963@gmail.com	9774131983
209	Dr. Guruprasad Pai B	guruprasadpai@aiet.org.in	9740840530
210	Mr. srikanth s s	srikanth.esamaya@gmail.com	9901540696
211	Mrs. SAIQUA ZAREEN	saiquaaisha13@gmail.com	9030917408
212	Mrs. Mrudangam saritha	mrudangamsaritha@gmail.com	9177649965
213	Mrs. N BHARGAVI	bhargavinayuni@gmail.com	9440164681
214	Miss Poonum Shankarasa Raibagi	poonamraibagi09@gmail.com	8884566907
215	Miss Vidushi Pandit	panditvidushi8@gmail.com	7983922996
216	Dr. GIRIRAJKUMAR	girirajkumar.biradar@gmail.com	9448166196
217	Mr. Sharanraj k	sharankumar2640@gmail.com	8248294509
218	Miss Chimata Daydeepya Chowdary	chimata.mb24104@isbr.in	7729098999
219	Miss Siddhi Kumari	kumarisiddhi200@gmail.com	7488818230
220	Mr. Praneeth raj	praneeth0218@gmail.com	9591064402

**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics  
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S.No.	Name	Email	Phone
221	Mr. Aaryan Singh Solanki	aaryan20solanki20@gmail.com	8619507479
222	Miss Takur Shashikala	takur.mb24091@isbr.in	9390363536
223	Miss Muskan Khetrapal	khetrapalmuskan@gmail.com	8543818559
224	Mr. Koustav Ghosh	ghoshkoustav921@gmail.com	9883885072
225	Mr. ANIRBAN PAUL	anirban.pg24027@isbr.in	8486630337
226	Miss Sruthy A Menon	sruthianilmenon01@gmail.com	9526781043
227	Mr. Subham Shaw	shubhamshaw4557@gmail.com	9123378496
228	Miss Archana panda	archanapanda369@gmail.com	7978719447
229	Mr. Harsh Vardhan Jadiya	harshvardhanjadiya31@gmail.com	6265390438
230	Mr. Shahid Afridi shiak	shahidafridishaik.mb24074@isbr.in	8073279170
231	Miss Shivani Chandrakar	shivanichnadrakar06@gmail.com	9111989188
232	Mr. SADIQ HASSAN SYED	sadiqhasann@gmail.com	9491432686
233	Mrs. Divya M	divya.m@stfrancis.edu.in	7353964069
234	Mr. Aranganathan AD	aranganathanown1@gmail.com	6381215620
235	Mr. Yash Tiwari	ytiwari.mb24078@isbr.in	7982935305
236	Mrs. Meena M V	meenav31396@gmail.com	7483546794
237	Dr. UMESH C	umesh.c@kristujayanti.com	9611846698
238	Mrs. Reshma R	reshmabkr91@gmail.com	9164374455
239	Mr. B T SUBHASH CHANDRA NAIDU	subhashchandra477@gmail.com	8978733497
240	Mrs. Kalyani Kondapalli	kalyanikondapalli80@gmail.com	9901352244
241	Mr. B CHANDRA SEKHAR	chandra0025@gmail.com	9030955799
242	Dr. Kavyashree	k_kavyashree@yahoo.in	8105285317
243	Mr. Rojin Varughese Philip	rojinvarugheseiphilip@gmail.com	9497167492
244	Mr. K SHAIK MOHAMMED UMAR	kgmuz13@gmail.com	9392453418
245	Miss Punita Patra	punitapatra09@gmail.com	8249113849
246	Miss Shaniya Shabbir	shaniya.mb24095@isbr.in	8969033294
247	Miss Azmeera Manjula	manjula.mba24099@isbr.in	6305088117
248	Mrs. Harini shree.R.G	shreema982@gmail.com	7358729830
249	Mr. Madhav Dargar	madhav.mb24033@isbr.in	8302569942
250	Dr. Dr VHS PALLAVI	pallavihannah38@gmail.com	9885102592
251	Miss Shreya jayakumar	shreyjkumar@gmail.com	6380762254
252	Miss kritika bhatt	kritika.mb24030@isbr.in	9084041002
253	Mr. Rachapudi Prasad	prasadkn18@gmail.com	7032343290
254	Mr. Atharvakumar Jitendrabahadur Singh	atharvasingh672@gmail.com	6359415281
255	Mr. R VIGNESH	civilvigneshravi@gmail.com	6383622064
256	Mrs. G.Lakshmi Devi	lakshmid.gmc@gmail.com	9494048445
257	Miss Teherir Rehena	teherir.mb24093@isbr.in	9836693903
258	Miss Zisha Aazmi	zisha.aazmi@gmail.com	8618707848
259	Mr. Abhishek Kumar	abhishekkumar58107@gmail.com	7294969876
260	Miss simran shah	simran.mb24085@isbr.in	6263358261
261	Mrs. P.Neelima	neelima.saikavya@gmail.com	9290483378
262	Mr. JAMI SURESH Prusty	suresh.prusty2003@gmail.com	9607455964
263	Miss SHWETA SHAH	shwetakhushi398@gmail.com	9151331115
264	Miss Nitya Singh	singhnitya733@gmail.com	7887048252
265	Mr. Rayan Agha	iamrayanagha007@gmail.com	7349211549

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on**

**“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics  
and Start-up Ecosystems”**

S.No.	Name	Email	Phone
266	Mr. Deballav Rath	deballav.pg24069@isbr.in	9078756614
267	Miss S AFSHAN ANJUM	shaikafshanjum@gmail.com	9032147921
268	Mrs. ARCHANA J	archanajagadesan6@gmail.com	6380586033
269	Dr. Anita	anita.e15610@cumail.in	8279862929
270	Miss neha pal	palneha.2019bdn@gmail.com	8101494209
271	Mr. Tushar Maity	tusharmaity511@gmail.com	7326949145
272	Mr. CH.VAMSI	chennuruvamsi123@gmail.com	6371999515
273	Miss Ratri Chatterjee	kalyan.chatterjee65@gmail.com	8967689528
274	Miss Abaptika Paul	abantikapaul200113@gmail.com	7576023637
275	Miss Janhavi R Kowligi	jrkwligi393@gmail.com	8951736915
276	Miss Megha Shukla	megha.mb24034@isbr.in	9473810216
277	Dr. Dr N Sunitha	narlasunitha31@gmail.com	9966166153
278	Miss Silpi Sikha Rajkhowa	silpisikha36@gmail.com	7002655160
279	Mrs. ARCHANA SINGH	archana.mediacrave@gmail.com	9878488237
280	Mr. BHUVNESH MISHRA	bhuvneshmishra2509@gmail.com	9205267086
281	Dr. JNPP Anantha Lakshmi	anantalakshmi2020@josephcollege.ac.in	9704694939
282	Miss Vidhi Awasthy	vidhiawasthi2154@gmail.com	7415896419
283	Mrs. Rabiya Tanzila	rabiyananzila@gmail.com	9032770865
284	Mr. PINJARI MOULALI	moulip78@gmail.com	9989714692
285	Mrs. Yelumarthi Renuka	renukayelumarthi@raghupharmacy.com	9959280717
286	Mr. DINESH S	spdinesh1995@gmail.com	8147052229
287	Mr. Tulsi Yadav	tulsi23yadav@gmail.com	6290869344
288	Mrs. Nishchitha Gowda CG	nishi94gowda@gmail.com	9845585601
289	Dr. V.SURESH BABU	vustepallisuresh@gmail.com	9030930416
290	Mrs. ARUNA KIRAN JONNALAGADDA	arunakiranj@gmail.com	8142609009
291	Miss Pragati Bhadra	bhadrapragati246@gmail.com	9108289209
292	Mr. Rahul V S	rahul.v@stfranciscollege.edu.in	9538405292
293	Dr. VISHAL SAXENA	vishalbpsingh@gmail.com	8765044747
294	Dr. A PANNEERSELVAM	panneer.phy@gmail.com	9894381436
295	Dr. Chidananda H L	chidanandahl@gmail.com	9611647150
296	Miss Sanskruti Purohit	purohitsankriti@gmail.com	9692008942
297	Miss Dhanyashalini.K	dhanyainfo70@gmail.com	9384946224
298	Mrs. Nimmagadda Sharmilee	n.sharmila1973@gmail.com	9876543200
299	Mrs. Febina Ferose	febinaferose@gmail.com	9400394338
300	Miss RAMA DEVI KS	rama.krupa24@gmail.com	7892085985
301	Mr. Vishesh Mishra	visheshmishra2@gmail.com	9839522687
302	Mr. P Siva Kumar	shivraammittal@gmail.com	7386989201
303	Mr. Aravendra Kumar Sharma	aravendra.sharma@gmail.com	8505965808
304	Miss Lakshmi Narayan	lmn98lakshmi@gmail.com	8147688186
305	Dr. HARSHITHA K	harshithak.ramitha@gmil.com	9535810101
306	Dr. Pushpalatha P	pushpalatha.p@stfranciscollege.edu.in	9980214845
307	Dr. Dr. Santhosh Kumar RM	rmkumar13982@gmail.com	9686408414
308	Dr. LATHIF AHAMED B	b_lathif@yahoo.co.in	9986904275
309	Dr. poornima jogi s	poornima.29@stfranciscollege.edu.in	8431388588
310	Dr. Jagadeesh Babu	jagadeesh.b@stfranciscollege.edu.in	9880123307
311	Miss Aishwarya P	p.aishwarya@cmr.edu.in	9448970548

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics  
and Start-up Ecosystems”**

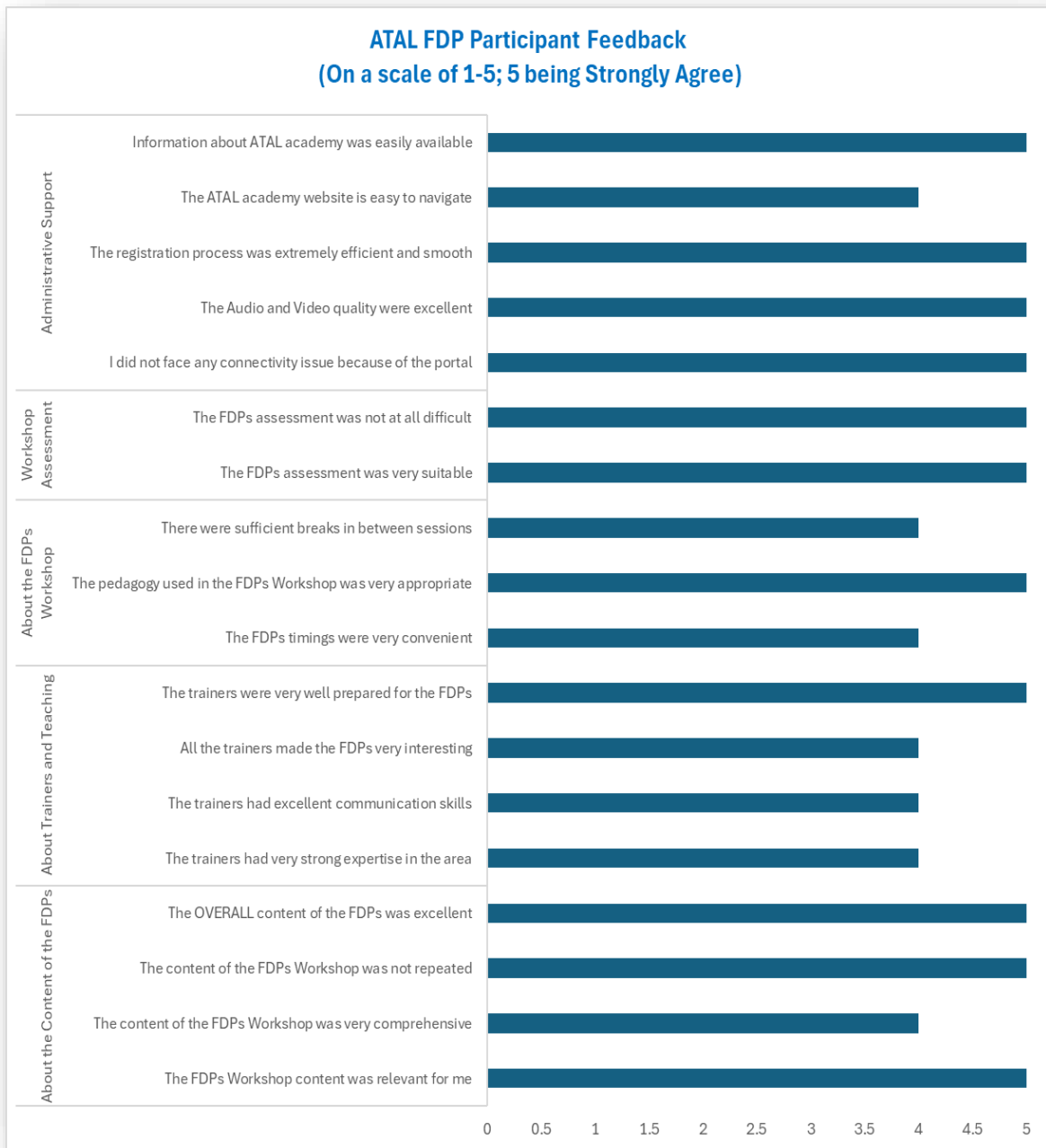
<b>S.No.</b>	<b>Name</b>	<b>Email</b>	<b>Phone</b>
312	Mr. SURAMSETTI LINGAIAH	lingaiah.bang@gmail.com	9490019691

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**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
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**FEEDBACK RECEIVED FROM CERTIFIED PARTICIPANTS\*\***



**OVERALL** – how would you rate the FDPs Workshop? (This question is answered on a 10-point scale with 1 being Highly UNLIKELY to Recommend and 10 being Will definitely Recommend)

**RESPONSE RECEIVED: 9** (\*\*Total ATAL FDP certified participants = 264)

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
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# **REFLECTION JOURNAL**

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and Start-up Ecosystems”**

**REFLECTION JOURNAL – I**

**SUMMARY OF REFLECTIONS FROM DIFFERENT PARTICIPANTS (CAPTURED  
FROM ZOOM RECORDINGS):**

**Key Learnings (Outcomes)**

**Learning 1:** The FDP emphasized the transformative potential of smart cities in achieving sustainable urban development by integrating advanced technologies and inclusive planning.

**Learning 2:** Understanding the role of AI, IoT, and other Industry 4.0 technologies in optimizing logistics and mobility systems for urban efficiency and environmental sustainability.

**Learning 3:** The significance of fostering innovation and entrepreneurship within start-up ecosystems in smart cities to drive economic growth and sustainability.

**Learning 4:** Insights into public-private partnerships (PPPs) as a critical mechanism for smart city development, enabling collaboration between governments and private entities.

**Learning 5:** Exploration of policies and regulatory frameworks that support the growth of start-up ecosystems while ensuring innovation aligns with urban challenges.

**Learning 6:** The importance of clean energy solutions and shared mobility systems in shaping the future of energy and transportation in smart cities.

**Learning 7:** Strategies for sustainable urban planning through system dynamics, integrating technology with infrastructure for long-term urban success.

**Learning 8:** The practical applications of digital transformation in logistics, including blockchain and data analytics, to streamline supply chain operations.

**Learning 9:** Understanding the challenges and opportunities faced by start-ups in areas like last-mile delivery and green transportation.

**Learning 10:** The importance of fostering a collaborative approach across academia, industry, and government to build innovative and sustainable urban solutions.

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**Key Lessons (Concepts/Ideas) for Implementation**

- Lesson 1: Leveraging AI and IoT for improving urban mobility and logistics efficiency.
- Lesson 2: Developing start-up ecosystems with a focus on sustainability and entrepreneurship.
- Lesson 3: Promoting public-private partnerships to align urban policies with innovative solutions.

**Implementation Plan**

**Lesson 1: Leveraging AI and IoT for Urban Mobility and Logistics**

- Description: Applying AI and IoT technologies to address challenges in transportation and logistics, enhancing efficiency and reducing environmental impact.
- Action Steps:
  - Conduct workshops on AI and IoT applications in urban logistics.
  - Collaborate with local stakeholders to pilot technology-driven mobility solutions.
  - Monitor and analyze data from IoT-enabled devices to improve urban traffic management.
- Timeline: 3-6 months for workshops and stakeholder collaboration, with pilot implementation within a year.

**Lesson 2: Developing Sustainable Start-Up Ecosystems**

- Description: Creating an environment that supports innovation, mentorship, and investment opportunities for start-ups focusing on sustainable solutions.
- Action Steps:
  - Organize hackathons and start-up pitch events to identify innovative ideas.
  - Establish mentorship programs connecting start-ups with industry experts.
  - Facilitate access to funding through partnerships with venture capital firms.
- Timeline: Initial events and mentorship programs to commence within 3 months; funding facilitation within 6-12 months.

**Lesson 3: Promoting Public-Private Partnerships**



**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
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- Description: Fostering collaboration between public institutions and private enterprises to address urban challenges through innovative solutions.
- Action Steps:
  - Initiate dialogues between government bodies and private companies.
    - Design pilot projects showcasing the benefits of public-private collaborations.
    - Develop policy recommendations based on pilot outcomes to scale efforts.
- Timeline: Dialogues to begin within 2 months; pilot projects to start within 6 months.

**Overall Reflection**

The ATAL FDP proved to be a transformative experience, enriching participants' understanding of the intersection between technology, sustainability, and entrepreneurship within the framework of smart cities. The program offered actionable insights and practical frameworks that can be applied to drive meaningful change in professional practices. By equipping attendees with tools to foster collaboration, innovation, and sustainability, the FDP significantly enhanced their capacity to address real-world urban challenges effectively.

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**REFLECTION JOURNAL - II**

**PARTICIPANTS REFLECTION (FEEDBACK):**

<b>S.No.</b>	<b>Participant Details</b>	<b>Key Learnings (Outcomes) / Reflection/ Feedback</b>
1.	Mr. J. Jayaprakash, Assistant Professor, department of English, RAAK ARTS and Science College, Perambai	I would like to extend my heartfelt gratitude to the AICTE Training and Learning (ATAL) Academy and St. Francis College for organizing the Faculty Development Program on "Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics, and Start-up Ecosystems," held from 02/12/2024 to 07/12/2024. The program was immensely insightful and provided valuable knowledge. I have successfully downloaded my certificate from the ATAL portal and will cherish the learnings from this enriching experience. A special note of thanks to the coordinator, Dr. Pankaj A. Tiwari, and all the esteemed resource persons for their invaluable contributions and support throughout the program.  Thank you once again for this wonderful opportunity!
2.	Prof Manju Awasthi Assistant Professor DBS college Kanpur	The seminar was a highly informative and insightful platform for exploring the intersection of technology, urban development, and sustainability. The discussions on smart cities were particularly engaging, providing valuable perspectives on how cities can leverage technology to improve livability, reduce environmental impact, and enhance citizen

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
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and Start-up Ecosystems”**

S.No.	Participant Details	Key Learnings (Outcomes) / Reflection/ Feedback
		engagement. The seminar covered a wide range of relevant topics, from sustainable mobility and logistics to fostering a vibrant start-up ecosystem.
3.	Dr. Thanapackiam Assistant Professor Department of Commerce & Management St. Francis College	I would like to express my sincere gratitude to the organizing team, especially Dr. Pankaj Tiwari, for her meticulous planning and execution of this FDP. The efforts have created a platform that has brought together industry and academia, providing us with invaluable insights into sustainable urban growth, smart cities, logistics, and the startup ecosystem. Thank you for the opportunity to learn from these esteemed experts. Their pragmatic perspectives have enriched our understanding and inspired us to think critically about the future of our cities. This ATAL-FDP offers the unique opportunity to learn from industry and academic experts who bring diverse perspectives and real-world experience. Participants gained insights into the latest trends, challenges, and opportunities in smart city development. Let’s work together to build smarter, more sustainable, and more equitable cities for generations to come.
4.	M. Subbulakshmi Assistant professor Department of commerce	Respected Team - Its nice to be part of FDP, The resources person are super. Thanks for creating great platform for great learning.

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
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S.No.	Participant Details	Key Learnings (Outcomes) / Reflection/ Feedback
	Alpha arts & science college, Porur, Chennai -116	
5.	Dr. Priyadarshini Pillai Head of the Department (Biological Sciences) Research Coordinator IIC President Jyoti Nivas College Autonomous, Bangalore	Dear Ma'am, Sharing the reflection for your reference-  The Faculty Development Program (FDP) held from December 2nd to 7th, organized by St. Francis College, Bangalore, under the coordination of Dr. Pankaj Tiwari, was a transformative and enlightening experience. Esteemed speakers, including Mr. Manivannan P , Ms. Priyanka Shrivastava, and other distinguished resource persons, shared invaluable insights on topics such as smart cities, sustainable urban development, and AI-driven mobility solutions. Their sessions provided a deeper understanding of cutting-edge innovations and sustainable practices. Heartfelt congratulations to the management of St. Francis College for successfully completing this impactful FDP. Their dedication and vision in organizing such a well-structured program have set a benchmark for academic excellence and professional growth.
6.	Divya H Assistant Professor St. Francis College	The FDP successfully highlighted the importance of integrating innovation into urban growth strategies. It emphasized the role of smart technologies and sustainable practices in transforming cities into hubs of mobility and logistics efficiency. The sessions provided

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
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<b>S.No.</b>	<b>Participant Details</b>	<b>Key Learnings (Outcomes) / Reflection/ Feedback</b>
		<p>valuable insights into emerging trends in smart cities, including IoT applications, green mobility solutions, and efficient urban logistics. Experts shared case studies and real-world implementations, enhancing the practical understanding of the topics. The program encouraged active participation and networking among faculty, fostering collaboration opportunities for future research and projects. Overall it was enriching experience. I wholeheartedly thank our college management and organizing committee for this wonderful learning opportunity.</p>
7.	<p>Prof.,B.RAJAKUMAR Professor , Department of AI &amp; DS J.N.N INSTITUTE OF ENGINEERING, CHENNAI</p>	<p>I would like to extend my heartfelt gratitude to the organizing team of St. Francis College for hosting an insightful and enriching 6 days ATAL Faculty Development Program. The meticulously planned sessions, knowledgeable resource persons, and interactive activities made the program exceptionally engaging and impactful.</p> <p>The focus on AI in various disciplines provided valuable insights and practical approaches that are directly applicable to both academic and research domains. The seamless execution and well-structured agenda truly reflected the effort and dedication put in by the organizing team.</p> <p>I look forward to participating in future FDPs at St. Francis College and would be delighted to recommend this program to my peers for its</p>

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
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S.No.	Participant Details	Key Learnings (Outcomes) / Reflection/ Feedback
		quality and relevance. Thank you once again for the opportunity to be a part of this excellent information
8.	Dr. V. Anitha Kumari, Assistant Professor, SIR C R REDDY COLLEGE OF PHARMACEUTICAL SCIENCES, ELURU, A.P	Thank you so much mam for your kind consideration, patience and support for me@Registration & other related issues araised during all the sessions of ATAL FDP. Mam, I got 80% of marks and just now downloaded my Participation Certificate. Once again Thank you mam. Hope to meet you in the upcoming sessions
9.	Pushplatha BN Registrar, CMR University, Bangalore	Mam thank you so much. The sessions were eye opening. Very fruitful. Received certificate as well
10.	Dr. Raji Thomas Assistant Professor, St. Martin's Engineering College, Dhulapally, Kompally, Telangana-500100	Dear madam, it was nice experience with you all. Nice coordination from all your colleague. Congratulations to all. Thank You so much.



**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics  
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**REFLECTION JOURNAL - III**

**RESOURCE PERSON REFLECTION:**

S.No	Resource Person Details	Key Learnings (Outcomes) / Reflection/ Feedback
1.	Nikhil Shrivastava Director Blueneba Technologies Pvt Ltd +91 9999277000 <a href="http://www.Blueneba.com">www.Blueneba.com</a>	<p>Dear Dr. Pankaj, I would like to extend my gratitude to you, Karthik Sir and complete team of St. Francis college involved in ATAL FDP program. The program was extremely interesting and very well organized. I also participated in few other speaker's session and I found them to be very knowledgeable and practical.</p> <p>I hope I was also able to deliver a good session and update the participants about Solar Energy, Govt policies promoting renewable energy and also about the Entrepreneur Journey and opportunities in the energy/mobility industries.</p> <p>The Q&amp;A session was very interactive with some very practical questions asked by the participants. I look forward to participating and contributing in similar programs.</p> <p>Once again I would like to thank you for providing me an opportunity to present my views in this seminar.</p>
2.	Dr Meenakshi Patil Professor, CMRIT, Bangalore	<p>Congratulations for successfully completing it. Nice organization of sessions perfectly planned. You got many registrations with active participation.</p>
3.	Ravi Mukundan, CEO -10X	<p>Dear Dr.Pankaj , Greetings of the day !</p> <p>At the outset,would like to congratulate you and your team on a splendid FDP conducted by St Francis College. The theme was extremely relevant and the speakers were aptly put together.It was a pleasure speaking to the participants and would like to thank you for the opportunity.</p>

**SIX DAY ATAL ONLINE FDP (2<sup>nd</sup> Dec. 2024 to 7<sup>th</sup> Dec. 2024) on  
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S.No	Resource Person Details	Key Learnings (Outcomes) / Reflection/ Feedback
		<p>Sharing a brief reflection from my end on the experience and the event. Thanking you once again.</p> <div style="text-align: right;">  </div> <p style="text-align: right;">Date :11 December 2024</p> <p>Dear Dr Pankaj,</p> <p>At the outset, I would like to extend my heartfelt gratitude to the faculty of St. Francis College for organizing the insightful ATAL Faculty Development Program (FDP) focused on fostering innovation and startups within the smart city context. The meticulous planning and execution of the event were truly commendable, making it a resounding success.</p> <p>The theme of the event, revolving around innovation and smart cities, was highly relevant and thought-provoking. It provided a platform for vibrant discussions and knowledge sharing on the emerging trends and opportunities in creating smart cities. Kudos on getting such a diverse array of speakers who brought a wealth of expertise and global perspectives, enriching the discourse significantly.</p> <p>I would particularly like to acknowledge the participants, whose enthusiasm and engagement were the driving forces behind the success of this event.</p> <p>The question-and-answer sessions were particularly stimulating, with participants raising pertinent queries about the practical challenges and potential solutions in fostering innovation in urban environments. Questions ranged from the integration of AI and IoT in smart cities to the sustainability of startup ecosystems, reflecting the level of engagement among the attendees.</p> <p>In conclusion, this event not only highlighted the critical role of innovation in urban development but also underscored the importance of collaborative efforts in shaping the future of smart cities. I am grateful for the opportunity to be part of this enriching experience and look forward to future engagements that continue to inspire and drive positive change.</p> <p>Thank you once again to you, the organizers, speakers and participants for making this event truly memorable.</p> <p>Best regards,</p> <div style="text-align: center;">  </div> <p>Ravi Mukundan CEO and Lead Consultant 10XG Ventures Private Limited</p> <div style="text-align: right;"> <p>+91 9993099699</p> <p>ravi@10XG.in</p> <p>www.10XG.in</p>  </div>



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S.No	Resource Person Details	Key Learnings (Outcomes) / Reflection/ Feedback
4.	Dr Vanishree Mysore Ramakrishna, Dean, Surana College	Hearty Congratulations 🙌🙌 Ma'am. As team capitan your efforts are appreciated. Proud moment
5.	Lt. Col. Monish Ahuja (Rtd.), Chairman - PRESPL	 <p style="text-align: center;">3<sup>rd</sup> December 2024</p> <p><b>Dr Pankaj A Tiwari</b> AICTE FDP Coordinator St. Francis College Koramangala, Bengaluru</p> <p>Dear Dr Pankaj Tiwari,</p> <p>Greetings of the day from PRESPL!</p> <p>I am writing to extend my heartfelt appreciation for inviting me to participate as a Speaker at the 6-Day online Faculty Development Programme 2024-25 sponsored by AICTE Training and Learning (ATAL) Academy organised by St. Francis College, Bangalore scheduled from 2nd December to 7th December 2024.</p> <p>It was an honor to be part of this important initiative, focused on the theme "Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, and Start-up Ecosystems." I truly enjoyed the opportunity to contribute to the session on "Smart Energy Systems for Sustainable Urban Development in Smart Cities." The diverse and engaged audience made for an enriching experience, and I believe that the discussions we had were meaningful for all involved.</p> <p>I would like to express my gratitude for the seamless coordination and support provided throughout the event. The professionalism and warmth of your team ensured that everything ran smoothly, and I was impressed by the quality of the discussions and the depth of interest shown by the participants.</p> <p>Thank you once again for this opportunity. I look forward to future collaborations and wish the program continued success in advancing knowledge in such critical areas of urban development.</p> <p>Yours truly, For Punjab Renewable Energy Systems Private Limited</p>  <p><b>Lt Col Monish Ahuja (Rtd.)</b> Chairman &amp; Managing Director Email id: monishahuja@prespl.com ; ahujamonish@gmail.com Mobile no.: +91 88980 57100 &amp; +91 90046 73858 Land line: +91 22 2757 0498</p>

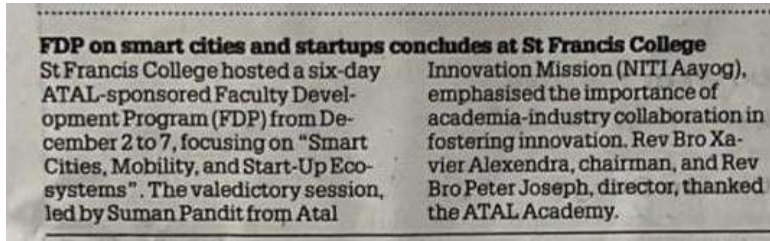
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S.No	Resource Person Details	Key Learnings (Outcomes) / Reflection/ Feedback
6.	Devika Valsaraj HR Leader	Thank you for the invite, Dr Tiwari- enjoyed interacting with the participants. Congratulations on a successful event roll-out. And thank you for your patience with my schedule last couple of weeks.
7.	Monica Smith, CEO – Tradewinds Career Consulting	<p>It was truly an honor to participate in such a well-organized and fascinating set of seminars. I am deeply grateful to you.</p> <p>Monica</p>  <p style="text-align: right;">December 12, 2024</p> <p>To the attention of: Dr. Pankaj A. Tiwari Professor Karthik P Saint Francis College, Koramangala, Bangalore Rural, Karnataka, India</p> <p>Dear Esteemed Professors,</p> <p>I thank you both for inviting me to speak at your very exciting and applicable Faculty Development Programme, “Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems.” The week-long seminar offered strong enrichment for St. Francis College’s faculty and guests.</p> <p>Each day of the event offered deep-dive information and insights into a topic on which all nations are currently focusing. The week’s agenda was extremely thorough. Each speaker’s topic fit very well into your overall agenda to cover the entire spectrum of sustainable urban growth.</p> <p>I was delighted that the attendance numbers for the full session where I presented “Public-Private Partnerships: Vendor Management Business Models” were very robust. The engagement was strong all the way to the end. I only wish we could have had a longer Q&amp;A period. I am very happy to remain available for any additional questions the attendees may have.</p> <p>Once again, I am delighted to have participated in a programme so well organized and informative.</p> <p>I wish you all best wishes for the end of 2024 and a wonderful 2025!</p> <p>Sincerely, Monica M. Smith CEO, Tradewinds Career Consulting</p>

“Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems”

MEDIA UPDATE

- Times of India (TOI), Education Times, Bangalore Edition, dated 16<sup>th</sup> December 2024 (Image attached).



- Social Media Update (LinkedIn update)

[https://www.linkedin.com/posts/dr-pankaj-tiwari-pmp-8921315\\_atalfdp-innovationnation-atalinnovationmission-activity-7271046175992999936-HdMc?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/dr-pankaj-tiwari-pmp-8921315_atalfdp-innovationnation-atalinnovationmission-activity-7271046175992999936-HdMc?utm_source=share&utm_medium=member_desktop)



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**Dr. Pankaj Tiwari, PMP** • You  
Project Management Professional, Professor of Practice, Innovation ...  
1w • 🌐

Day 6 of the ATAL Faculty Development Program focuses on “Policy, Regulation, and Start-up Ecosystems in Smart Cities” led by the dynamic **Devika Valsaraj**. This session highlights the crucial role of policy frameworks and regulatory mechanisms in fostering innovation and enabling start-ups to thrive within smart city ecosystems. Ms. Devika will discuss how progressive policies can create an environment conducive to sustainable urban development while empowering start-ups to address urban challenges with innovative solutions. Participants will gain valuable insights into building resilient ecosystems, navigating regulatory landscapes, and aligning entrepreneurial efforts with smart city goals. We are excited to explore how policy and start-up synergy can transform urban living and drive sustainable growth. Looking forward to another thought-provoking and impactful session!  
St. Francis College Bengaluru Prof. Karthik P  
#ATALFDP #PolicyAndRegulation #SmartCities #StartUpEcosystems #UrbanInnovation #Sustainability

**Dr. Pankaj Tiwari, PMP** • You  
Project Management Professional, Professor of Practice, Innovation ...  
1w • 🌐

The six-day ATAL Faculty Development Program (FDP), themed “Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics, and Start-up Ecosystems,” will conclude with a grand Valedictory Ceremony. We are honored to have **Suman Pandit** as the Chief Guest, who will deliver an inspiring address on “Towards an Innovation Nation.” His talk will focus on the transformative role of the ATAL Innovation Mission and ATAL Tinkering Labs in fostering innovation, nurturing young talent, and shaping India's future as a global innovation leader. This event will mark the culmination of a week filled with insightful sessions, engaging discussions, and impactful learning experiences. We look forward to celebrating the success of this FDP with all participants, resource persons, and organizers.  
St. Francis College Bengaluru Prof. Karthik P  
#ATALFDP #InnovationNation #ATALInnovationMission #TinkeringLabs #SustainableGrowth #SmartCities #UrbanInnovation

**AICTE TRAINING AND LEARNING (ATAL) ACADEMY SPONSORED**  
6 DAY ONLINE FACULTY DEVELOPMENT PROGRAMME 2024-25  
Driving Innovation for Sustainable Urban Growth: Smart Cities, Mobility, Logistics and Start-up Ecosystems  
2ND - 7TH DECEMBER 2024

**MEET THE SPEAKER**  
**Devika Valsaraj**  
LinkedIn Top Leadership Development Voice & Founder and HR Director of AHAM Leadership Consulting

**DAY 6 OF ATAL FDP**  
7TH DEC. 2024  
5.00 PM IST

International & National Participants:  
Send your request as mentioned email to attend the session.  
atal.fdp@stfranciscollege.edu.in +91-9846333286 +91-98523 35941

Dr. Pankaj A Tiwari ATAL FDP Coordinator  
Karthik P ATAL FDP Co-Coordinator  
Dr. SN Subba Rao Principal  
Bro. Dr. Thrus Anto Dy. Director  
Bro. Peter Joseph Director

**AICTE TRAINING AND LEARNING (ATAL) ACADEMY SPONSORED**  
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2ND - 7TH DECEMBER 2024

**MEET THE CHIEF GUEST**  
**Suman Pandit**  
Young Professional (YP)  
Atal Innovation Mission, NITI Aayog

**DAY 6 OF ATAL FDP**  
7TH DEC. 2024  
5.30 PM IST

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**ASSESSMENT QUESTIONS (WITH ANSWER KEY)**

**Module: Smart Cities**

1. **What is the primary goal of smart cities?**

- a) Industrialization
- b) Sustainable urban living
- c) Increased population density
- d) Elimination of rural areas

**Answer:** b) Sustainable urban living

2. **Which technology is most associated with smart cities?**

- a) Blockchain
- b) Internet of Things (IoT)
- c) Augmented Reality
- d) Cryptocurrency

**Answer:** b) Internet of Things (IoT)

3. **What does ICT stand for in the context of smart cities?**

- a) Internet Communication Tools
- b) Information and Communication Technology
- c) Intelligent City Transformation
- d) Innovation and Creativity Technology

**Answer:** b) Information and Communication Technology

4. **Which of the following is an example of a smart city initiative?**

- a) Automated waste management systems
- b) Establishing new industrial zones
- c) Expanding rural farmlands
- d) Limiting the use of renewable energy

**Answer:** a) Automated waste management systems

5. **Which country launched the Smart Cities Mission in 2015?**

- a) USA
- b) India
- c) Japan

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d) China

**Answer:** b) India

**Module: Smart Mobility**

**6. What is a key component of smart mobility?**

- a) High population density
- b) Integrated public transportation
- c) Building more highways
- d) Increasing private vehicle ownership

**Answer:** b) Integrated public transportation

**7. Which of these technologies enables ride-sharing apps like Uber?**

- a) IoT
- b) GPS
- c) Blockchain
- d) 5G

**Answer:** b) GPS

**8. What does EV stand for in mobility solutions?**

- a) Electric Vehicles
- b) Enhanced Velocity
- c) Energy Variability
- d) Eco Vision

**Answer:** a) Electric Vehicles

**9. Which of these is a benefit of smart mobility?**

- a) Increased air pollution
- b) Improved traffic management
- c) Reduced use of public transportation
- d) Decreased connectivity

**Answer:** b) Improved traffic management

**10. Which of the following promotes sustainable transportation?**

- a) Carpooling
- b) Single-passenger cars

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- c) Diesel trucks
- d) Increased air travel

**Answer:** a) Carpooling

**Module: Smart Logistics**

**11. What is the goal of smart logistics?**

- a) Minimize operational costs and environmental impact
- b) Focus on manual supply chain management
- c) Increase warehouse storage only
- d) Avoid digital technology integration

**Answer:** a) Minimize operational costs and environmental impact

**12. Which technology supports real-time tracking in logistics?**

- a) Blockchain
- b) GPS
- c) Virtual Reality
- d) Quantum Computing

**Answer:** b) GPS

**13. What does SCM stand for in logistics?**

- a) Supply Chain Management
- b) Sustainable City Model
- c) Smart City Movement
- d) Secure Chain Mechanism

**Answer:** a) Supply Chain Management

**14. Which of these is an example of green logistics?**

- a) Electric delivery vehicles
- b) Diesel-powered shipping
- c) Manual inventory tracking
- d) Non-automated warehouses

**Answer:** a) Electric delivery vehicles

**15. What is an advantage of digitized logistics systems?**

- a) Delays in order processing

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- b) Real-time data access
- c) Manual report generation
- d) Increased costs

**Answer:** b) Real-time data access

**Module: Start-up Ecosystems**

**16. What is a start-up ecosystem?**

- a) Isolated business setups
- b) Network of support systems for new ventures
- c) Sole reliance on large corporations
- d) Random development of new companies

**Answer:** b) Network of support systems for new ventures

**17. Which of the following supports a start-up ecosystem?**

- a) Incubators
- b) Lack of funding
- c) High taxation policies
- d) Limited mentorship

**Answer:** a) Incubators

**18. What does MVP stand for in start-up terminology?**

- a) Most Valuable Partner
- b) Minimum Viable Product
- c) Maximum Venture Profit
- d) Market Value Proposition

**Answer:** b) Minimum Viable Product

**19. Which sector has seen the most start-up innovations in smart cities?**

- a) Renewable energy
- b) Automobile repairs
- c) Retail management
- d) Traditional farming

**Answer:** a) Renewable energy



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**20. What is the role of venture capital in start-ups?**

- a) Providing large-scale production equipment
- b) Offering funds for business growth
- c) Limiting financial resources
- d) Eliminating small-scale businesses

**Answer:** b) Offering funds for business growth

**Cross-Module Questions**

**21. What is the triple bottom line of sustainability?**

- a) Profit, Planet, People
- b) Planet, Energy, Economy
- c) People, Politics, Power
- d) Population, Profit, Purpose

**Answer:** a) Profit, Planet, People

**22. Which of these is a key benefit of innovation in urban growth?**

- a) Improved quality of life
- b) Increased urban congestion
- c) Reduced digital connectivity
- d) Decreased economic development

**Answer:** a) Improved quality of life

**23. What does PPP stand for in urban development?**

- a) Public-Private Partnership
- b) People-Planet-Productivity
- c) Profit-Purpose-Planning
- d) Production-Pollution-Prevention

**Answer:** a) Public-Private Partnership

**24. Which technology helps reduce traffic congestion in smart cities?**

- a) Traffic prediction algorithms
- b) Manual road signage
- c) Diesel-powered vehicles

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d) Increased roadblocks

**Answer:** a) Traffic prediction algorithms

**25. What does circular economy focus on?**

a) Waste reduction and resource reuse

b) One-time resource consumption

c) Linear production processes

d) Only economic growth

**Answer:** a) Waste reduction and resource reuse

**26. Which UN goal aligns with sustainable urban growth?**

a) Goal 11: Sustainable Cities and Communities

b) Goal 2: Zero Hunger

c) Goal 8: Decent Work and Economic Growth

d) Goal 5: Gender Equality

**Answer:** a) Goal 11: Sustainable Cities and Communities

**27. Which is a barrier to smart city implementation?**

a) Lack of digital infrastructure

b) Excessive technology usage

c) Decreased population density

d) Increased renewable energy adoption

**Answer:** a) Lack of digital infrastructure

**28. Which of the following promotes sustainable logistics?**

a) Smart warehouse management systems

b) High dependence on fossil fuels

c) Overproduction of goods

d) Lack of data analysis

**Answer:** a) Smart warehouse management systems

**29. What is a challenge for start-ups in urban ecosystems?**

a) Limited access to funding

b) Increasing mentorship support

c) Overabundance of resources

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d) Decreased market competition

**Answer:** a) Limited access to funding

**30. How can mobility innovations benefit smart cities?**

a) By reducing pollution and improving accessibility

b) By increasing vehicle dependency

c) By limiting public transport options

d) By reducing connectivity between areas

**Answer:** a) By reducing pollution and improving accessibility

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**ORGANIZING TEAM (DAYWISE) FROM HOST INSTITUTION**

<b>ATAL FDP Coordinator</b>	<ul style="list-style-type: none"> <li>• Dr Pankaj A Tiwari, Associate Professor, IIC Convenor</li> </ul>
<b>ATAL FDP Co-Coordinator</b>	<ul style="list-style-type: none"> <li>• Mr Karthik P, Assistant Professor, Vice Principal</li> </ul>
<b>Day</b>	<b>Team Member / Faculty Name</b>
<ul style="list-style-type: none"> <li>• Day 1</li> </ul>	<ul style="list-style-type: none"> <li>• Dr Nazura Javed, Associate Professor &amp; HoD</li> <li>• Dr Annie John, Assistant Professor</li> <li>• Dr Sharath Kumar, Assistant Professor</li> <li>• Dr Santhosh Kumar R M, Assistant Professor &amp; HoD</li> </ul>
<ul style="list-style-type: none"> <li>• Day 2</li> </ul>	<ul style="list-style-type: none"> <li>• Ms Anusha N, Assistant Professor</li> <li>• Ms Nethra R, Assistant Professor</li> <li>• Mr Harish, Assistant Professor</li> </ul>
<ul style="list-style-type: none"> <li>• Day 3</li> </ul>	<ul style="list-style-type: none"> <li>• Dr P B Deepa, Assistant Professor &amp; Asst. HoD</li> <li>• Dr Ramya K, Assistant Professor</li> <li>• Mr Pramod, Assistant Professor</li> </ul>
<ul style="list-style-type: none"> <li>• Day 4</li> </ul>	<ul style="list-style-type: none"> <li>• Ms Sabitha S, Assistant Professor &amp; HoD</li> <li>• Ms Prabha Susy Mathew, Assistant Professor</li> <li>• Ms B Chitra, Assistant Professor</li> <li>• Mr Sathish Kumar, Assistant Professor &amp; HoD</li> </ul>
<ul style="list-style-type: none"> <li>• Day 5</li> </ul>	<ul style="list-style-type: none"> <li>• Dr Soniya K, Associate Professor</li> <li>• Dr Ramakrishnan, Chief Librarian</li> <li>• Mr Albert Fidelis, Assistant Professor</li> </ul>
<ul style="list-style-type: none"> <li>• Day 6</li> </ul>	<ul style="list-style-type: none"> <li>• Ms Vandana N Revankar, Assistant Professor</li> <li>• Ms Soumya Unnikrishnan, Assistant Professor</li> <li>• Ms Chandrakala V, Assistant Professor</li> <li>• Dr Lathif Ahamed, Assistant Professor &amp; HoD</li> </ul>

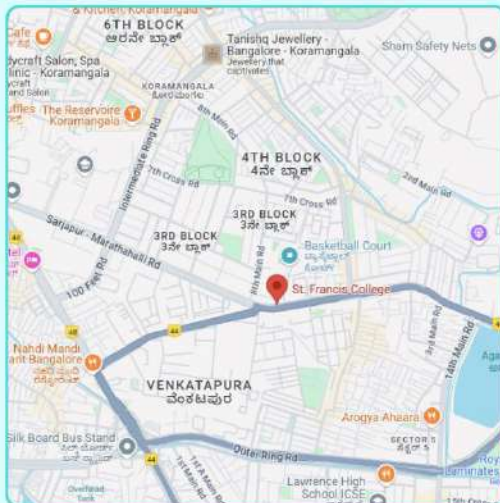
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**ST.FRANCIS COLLEGE**

**Koramangala, Bangalore, India**

Affiliated to Bengaluru City University, Approved By AICTE



**Address:**

**8th Main Rd, 3rd Block,  
Koramangala, Sarjapura Road,  
Bengaluru, Karnataka 560034**

**For further queries:**



**atal.fdp@stfranciscollege.edu.in**



**+91-9845195206  
+91 89519 19041**



**Website: <https://www.stfranciscollege.edu.in>**



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