



A Report on

**AICTE Training and Learning (ATAL)
Academy Sponsored Online Faculty
Development Program Entitled:**

Innovative Materials and Construction Technologies for Sustainable Construction Practices

**Start Date: 23/12/2024 to
End Date: 28/12/2024**

Organized by

**Department of Civil Engineering
MET's Institute of Engineering, Bhujbal Knowledge City,
Adgaon, Nashik, 422003, Maharashtra
<https://metbkcengg.ac.in>**



A 6-day AICTE Training and Learning (ATAL) Academy Sponsored Online Faculty Development Program on

Innovative Materials and Construction Technologies for Sustainable Construction Practices

AICTE Training and Learning (ATAL) Academy sponsored workshop was conducted from 23rd to 28th December 2024 in which around 165 participants from different parts of the country participated. The speakers for the 6-day workshop on “Innovative Materials and Construction Technologies for Sustainable Construction Practices” were

Dr. PONNADA MARKANDEYA RAJU, Professor of Civil Engineering, MVGR College of Engineering (A), Vizianagaram



Educational Qualifications: Ph.D. from JNTU Hyderabad in 2009. M.E. Structures from Andhra University, Visakhapatnam in 2003 B.Tech. Civil Engineering from Nagarjuna University, GUNTUR in 2001 D.CAD. from SBTET, Govt. of Andhra Pradesh in 2002. Pursuing M.Tech. Computer Science and Technology from Andhra University (2024-26)
Experience (22 years)

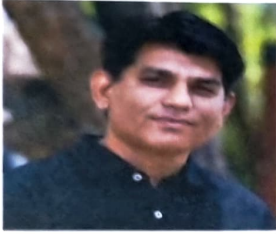
Dr. PONNADA MARKANDEYA RAJU, Senior Lecturer, Department of Civil Engineering, University of Peradeniya, Peradeniya, Sri Lanka.



Educational Qualifications: PhD : Hokkaido University, Japan (2008),
MEng: Hokkaido University, Japan (2005).
BScEng(Hons) : University of Peradeniya, Sri Lanka (2002),
Civil Engineering
Experience (22 years) June 2009 - To till date: Senior Lecturer, Department of Civil Engineering, Faculty of Engineering, University of Peradeniya, Sri Lanka



Dr. Suhas E. Tyade, Dy. General Manager, Reliance Industries Mumbai



Educational Qualifications: Ph.D. from National Institute of Technology Surat, M.E. Structures from Government college of Engineering, Karad, Maharashtra.

Experience: (22 years)

Dr. Yogesh D. Patil, Professor, S V National Institute of Technology, Surat.



Educational Qualifications: PhD, Structures, S V National Institute of Technology, , Surat

Research area is earthquake engineering, Utilization of waste material in concrete. Fibre reinforced concrete, Steel. And. Reinforced concrete beam column joint.

Experience (24 years)

Dr. Gaurang R. Vesmawala, Asso. Professor, S V National Institute of Technology, Surat.



Educational Qualifications: PhD, Structures, S V National Institute of Technology, , Surat

The research area: Earthquake Engineering. Structural health monitoring. Optimum design of space structures. Neural network application in structural engineering. And computer analysis.

Experience (23 years)

Dr. Najeeb Shariff Mohammad, Assistant Professor, Department of Civil Engineering, IIT Bombay



Educational Qualifications: Ph.D. Structures, from IIT Madras
Research Areas: Behaviour of structural concrete, Nonlinear analysis of structures, Time-dependent behaviour of structures, Structural evaluation of 3D printed concrete members

Experience (12 years)



Dr. Y. V Navandar Assistant Professor, Dept. of Civil Engineering, NIT Calicut, Kerala



Educational Qualifications: Ph.D. Civil Engineering, (SVNIT, Surat)

Research Areas: Traffic Engineering, Transportation Economics, Inland Water Transportation, Road Safety, Infrastructure Management, Port Management, Logistics, Multimodal Transportation

Experience (12 years)

Er. Mayur Patil, Partner & Senior Design Engineer at Associated Structural Engineers LLP, Thane, Mumbai



Educational Qualifications: MTech. Structures, from S V National Institute of Technology, Surat

Expertise Areas: Steel Design, Finite Element Analysis, Foundation Design, Structural Analysis.

Experience (14 years)

Dr. Swapnil B. Kharmale, Assistant Professor, Applied Mechanics, Government College of Engineering and Research, Awasari, Pune, Maharashtra.



Educational Qualifications: PhD. Civil Engineering. Department, Indian Institute of Technology Bombay
MTech. Structures VJTI Mumbai,

Research Areas: Performance-Based Seismic Design, Earthquake Resistant Design of Steel Structure, Advances in Cold-Formed Steel Structure, Vibration Control of Renewable Energy Structures

Experience (14 years)

Er. Siddharth D. Vavhule, Executive Engineer at, Maharashtra State Road Development Corporation Mumbai.



Educational Qualifications: M.E. (Structural Engineering) Government College of Engineering, Aurangabad.

Expertise Areas: Transportation Engineering, Structural Design & Analysis.

Experience (11 years)

The schedule of the workshop was as below



The schedule of the workshop was as below-


ATAL Online 6 Day Faculty Development Programme's 2024-25 Schedule

FDP Thrust Area: Sustainable Engineering.

FDP Title: Innovative material and construction technologies for sustainable construction practices

Start Date: 23/12/2024

End Date: 28/12/2024

Day 1		Day 2		Day 3		Day 4		Day 5		Day 6	
6:00pm To 6:30pm	Session-1	6:00pm To 7:30pm	Session-3	6:00pm To 7:30pm	Session-5	6:00pm To 7:30pm	Session-7	6:00pm To 7:30pm	Session-9	2:00PM to 3:30PM	Session-11
Inaugural Session-1		Topic: Innovative Construction Practices In Telecom Tower: Requirement and selection Criteria. Name of the Expert: Dr. S. E. Tayde Designation & Organization: DGM, Jio Tower Projects, Reliance Industries Mumbai Years of Exp:22	Topic: Beyond Traditional Concrete: Exploring Sustainable Alternatives. Name of the Expert: Dr. P Markandeya Raju. Designation & Organization: Prof., MVGR College of Engineering (A), Vizianagaram, Vaizag. AP Years of Exp:22	Topic: Innovative design and construction techniques in RC structures. Name of the Expert: Dr. Y. D. Patil, Designation & Organization: Professor, NIT Surat Years of Exp: 24	Topic: 3D concrete printing: Structural design challenges and opportunities Name of the Expert: Dr. Najeeb Shariff Mohammad, Designation & Organization: Ass. Prof., IIT Bombay Years of Exp:12	Topic: Strengthening of RCC Buildings - Case studies Name of the Expert: Mr. Mayur Patil Designation & Organization: Associate structural engineers LLP Pvt. Ltd Mumbai India. Years of Exp:14	Topic: Pre-Engineering Building Technology For Resilient Construction Name of the Expert: Dr. Swapnil B Kharmale Designation & Organization: Associate Prof., COE, Awsari, Pune Years of Exp:14	Topic: Self Drilled Micropile foundation: A Novel Construction Technique Name of the Expert: Dr. S. E. Tayde Designation & Organization: DGM, Jio Tower Projects, Reliance Industries Mumbai Years of Exp:22	Topic: Thin White Topping: A Sustainable approach to pavement rehabilitation as per IRC 76:2015 Name of the Expert: Mr. Siddharth D. Vavhule Designation & Organization: Executive Engineer, MSRDC Mumbai Years of Exp:11	Topic: Sustainable urban mobility: Smart Infrastructure system and solutions. Name of the Expert: Dr. Y. V. Navandar Designation & Organization: Asst. Professor, NIT Calicut, Kerala Years of Exp: 12	Topic: Sustainable urban mobility: Smart Infrastructure system and solutions. Name of the Expert: Dr. Y. V. Navandar Designation & Organization: Asst. Professor, NIT Calicut, Kerala Years of Exp: 12
6:30pm To 8:00 pm	Session-1	7:30PM To 9:00PM	Session-4	7:30pm To 9:00pm	Session-6	7:30pm To 9:00pm	Session-8	7:30pm To 9:00pm	Session-10	3:30PM to 5:00PM	Session-12
Topic: Proposed revisions in IS 456 towards sustainable design of RC structures Name of the Expert: Dr. P Markandeya Raju. Designation & Organization: Prof., MVGR College of Engineering (A), Vizianagaram, Vaizag. AP Years of Exp:22		Topic: Sustainable Practices for Repair and Rehabilitation of Structures Name of the Expert: Dr. G.R. Vesmawala Designation & Organization: Professor, NIT Surat Years of Exp:23	Topic: Structural material and design challenges in high rise building construction Name of the Expert: Mr. Mayur Patil Designation & Organization: Associate structural engineers LLP Pvt. Ltd Mumbai India. Years of Exp:14	Topic: Sustainable material and design challenges in high rise building construction Name of the Expert: Mr. Mayur Patil Designation & Organization: Associate structural engineers LLP Pvt. Ltd Mumbai India. Years of Exp:14	Topic: Structural material and design challenges in high rise building construction Name of the Expert: Mr. Mayur Patil Designation & Organization: Associate structural engineers LLP Pvt. Ltd Mumbai India. Years of Exp:14	Topic: Pre-Engineering Building Technology For Resilient Construction Name of the Expert: Dr. Swapnil B Kharmale Designation & Organization: Associate Prof., COE, Awsari, Pune Years of Exp:14	Topic: Thin White Topping: A Sustainable approach to pavement rehabilitation as per IRC 76:2015 Name of the Expert: Mr. Siddharth D. Vavhule Designation & Organization: Executive Engineer, MSRDC Mumbai Years of Exp:11	Topic: Self Drilled Micropile foundation: A Novel Construction Technique Name of the Expert: Dr. S. E. Tayde Designation & Organization: DGM, Jio Tower Projects, Reliance Industries Mumbai Years of Exp:22	Topic: Sustainable urban mobility: Smart Infrastructure system and solutions. Name of the Expert: Dr. Y. V. Navandar Designation & Organization: Asst. Professor, NIT Calicut, Kerala Years of Exp: 12	Topic: Sustainable urban mobility: Smart Infrastructure system and solutions. Name of the Expert: Dr. Y. V. Navandar Designation & Organization: Asst. Professor, NIT Calicut, Kerala Years of Exp: 12	Topic: Sustainable urban mobility: Smart Infrastructure system and solutions. Name of the Expert: Dr. Y. V. Navandar Designation & Organization: Asst. Professor, NIT Calicut, Kerala Years of Exp: 12
8:00pm To 9:30pm	Session-2										
Topic: IoT In Smart Infrastructure Name of the Expert: Dr. Vasantha Wickramasinghe, Shri Lanka Designation & Organization: Senior Lecturer University of Peradeniya, Peradeniya, Sri Lanka Years of Exp:22											
Online test & feedback											
Valedictory Session											

The inauguration was held on 23rd December 2024 online at 6:00 pm. Chief Guest of the program was Prof. Dr. Yogesh D. Patil, Department of Civil Engineering S.V. National Institute of Engineering, Surat, patron Dr. Vijaykumar Wani, Principal, METs Institute of Engineering Bhujbal Knowledge City Nashik, Convener Dr. Pavan N Ghumare, HOD and Coordinator were chaired the function with participants of the FDP from different part of the nation were present.

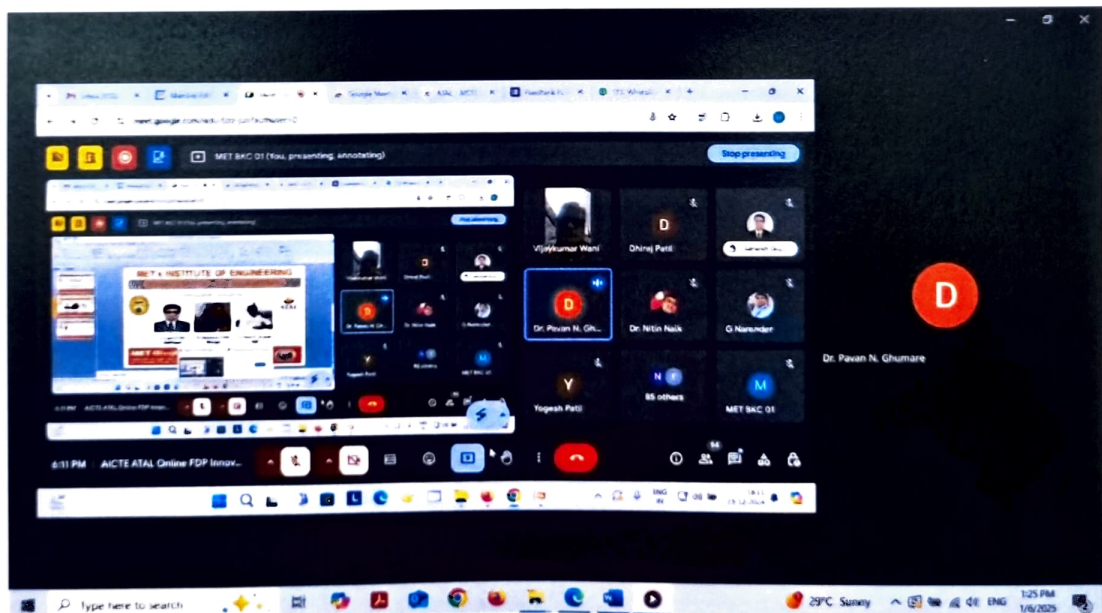
Convener of the FDP Dr. Pavan N. Ghumare, welcome the participant for this online FDP. He enlightens the benefit of FDP and briefly described role of the FDP title in industry and research to achieve the development.

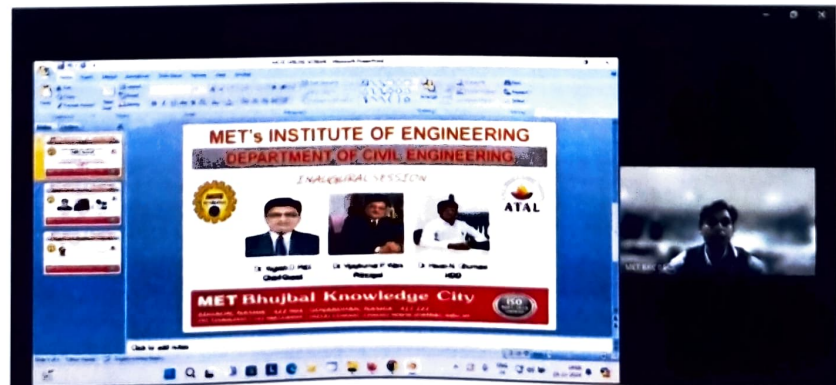
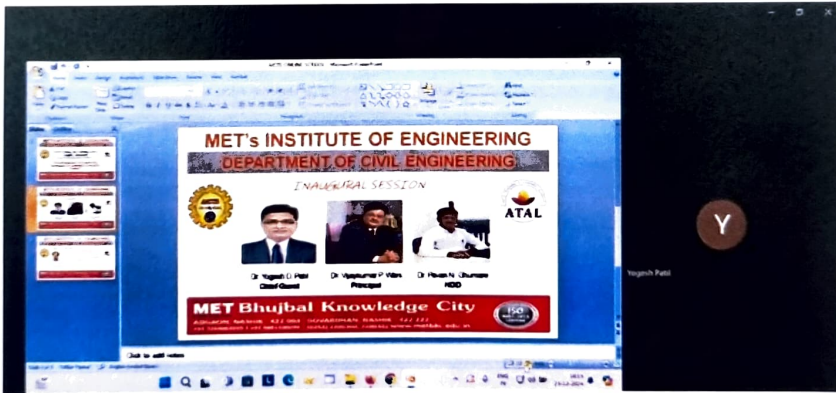
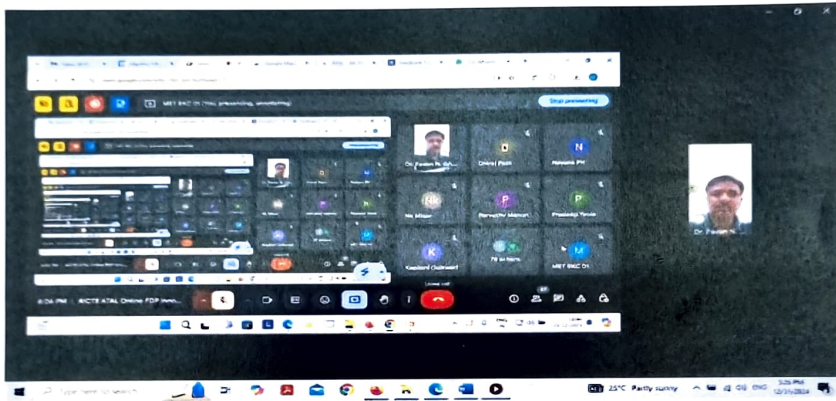
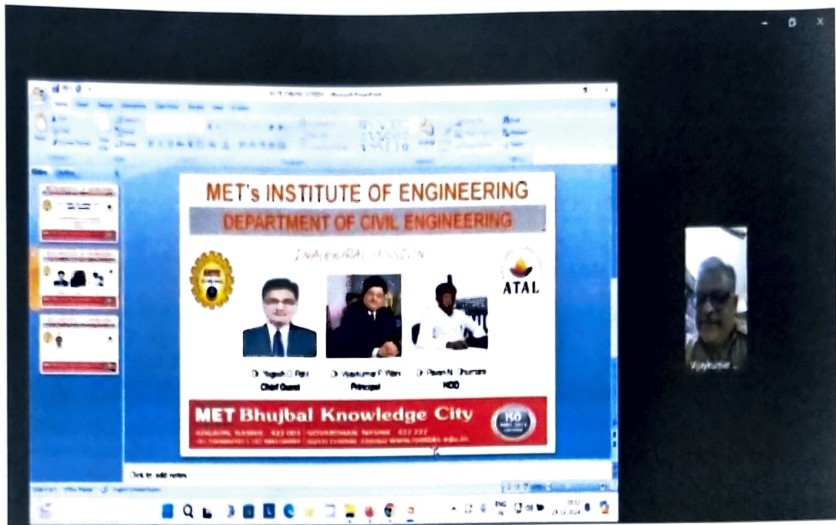
Patron Dr. Vijay Kumar Wani address the participant about online AICTE sponsored FDP and various initiative by the ATAL Academy to Enhance the knowledge sharing and research in the Nation. He also addresses the participant regarding responsibilities of civil engineer to achieve the sustainable development with minimum impact on surrounding environment. He also focused and discuss on why we need the sustainable development and what should be the cost for to become develop Nation. He made emphasis on to use discarded or waste material in the construction industry to reduce the adverse impact on surrounding environment.

The chief guest of FDP, Dr. Yogesh Patil. Congratulate for the subject which has been taken for the FDP. He underlined briefly address participants for the need of the Innovative Materials and construction techniques in construction Sector for sustainable development. He also discussed the sum of the critical problem of construction industry. Like. The Role of construction sector in the development of the nation on other side the adverse effect of construction industry activity on surrounding environment. Finally, he officially inaugurated and wish good luck for the FDP to the participants.

Coordinator proposed the Vote of Thanks.

Some screenshots of the inaugural function are as below.





The list of participants was: -

Sr.No	Name of Participant	Sr.No	Name of Participant
1	Kavita Suryabhan Kene	84	Dr. Akshaykumar Motilal Bhoi
2	Laxmi Hadimani	85	Prof.Atul Baliram Adhao
3	Rajesh Kawaduji Parve	86	Ravi U Angadi
4	Professor Ms.Kotha Himabindu	87	Aher Pritesh Dattatraya
5	Vikram Gupta	88	Nayan Gajananrao Sanap
6	Shivanand Irappa Mendigeri	89	Manjunath N K
7	Divakar Pamanji	90	Sneha Madanrao Jadhav
8	Shantha Kumar K	91	Dr P Kodanda Rama Rao
9	Mr. Lalit Rajendra Desale	92	Dr. Mahesh Kumar C L
10	Rahul R Balekundri	93	Dr.M.M.Saravanan
11	Toshnil Haribhau Boraste	94	Kalyani Ramesh Mamdyal
12	Dr.Akram Salim Pathan	95	Shwetha K G
13	Mr. Aniket Vilas Nemade	96	Dr Purushottam Naktode
14	Laxman Khandu Lahamge	97	N Hemavathi
15	Kanneganti Jyothishya Brahma Chari	98	Sandeepkumar Jayi
16	Parvathy Menon Pr	99	Mr. Sheik Rahaman
17	Chedupatti Pushpalatha	100	Mohd Parvez Alam
18	Tridev Pawar	101	Dr Prerna Singh Lavania
19	Mrs. Savita Vinaykumar Jatti	102	Dr. Sunita Shekhawat
20	Prashant Ganpat Chavan	103	Mercy S
21	Dr. Veerendrakumar Khed	104	Mr. Hiranman Ananda Shirsath
22	Nayana P Hoolikanthimath	105	Tushar Ramnath Shinde
23	Dharani Arasu	106	Dr. K.Thulasirajan
24	Dr Pappu Kumar	107	Mrs. Adte Ruqaiyya Bano Afzal
25	Dr. Ajay Kumar	108	C.Kesava Raja
26	Dr Ansari Ubaidurrahman Salik Ahmed	109	Prashant Vasudev Suryawanshi
27	Mr. Jigar Rameshbhai Zala	110	Dr. Suresh P S
28	Mr.Sureshkumar M	111	Ar. Kishori Kulkarni
29	Mallikarjun A Indi	112	Gawande Yogesh Bhagwanrao



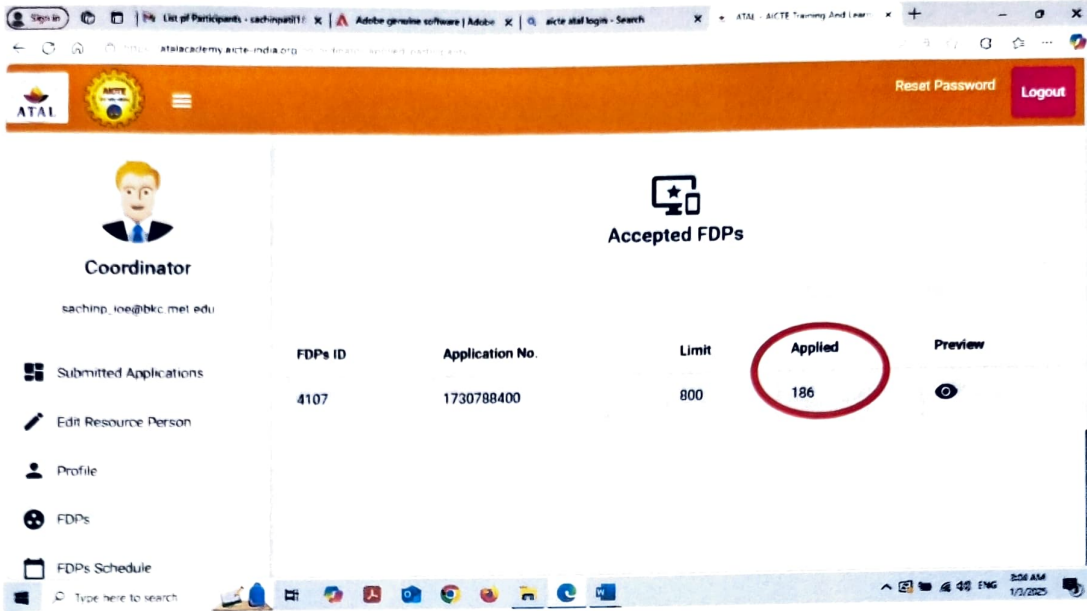
Sr.No	Name of Participant	Sr.No	Name of Participant
30	Sunil Jayprakash Payghan	113	Vikas Yashwant Pawar
31	Suchita Ishwar Padole	114	Satish Manohar Waysal
32	Dr.Prashant Dyneswar Hiwase	115	Manoj Uttamrao Deosarkar
33	Dr. Neena Devi	116	Prof. Nidhi Jejurikar
34	Dr. Nitin Shankarrao Naik	117	Deelip B Kalekar
35	Swapnil Ravindra Joshi	118	K.Sharmiladevi
36	Mr.Ganesh S.Gujrathi	119	Anbarasu A
37	Mr. Hrushikesh Namdev Kedar	120	Prof Naveen Kumar S M
38	Gowthami U Kumar	121	Pramod Keshav Kolase
39	R Divya	122	Hiralal Mohan Pawar
40	Mr. Piyush Pandit Kadam	123	Prof. Minal Mahesh Deshmukh
41	Dr. Nalina M M	124	Ambikesh Kumar Yadav
42	Mrs. Subhashini S. Ramteke	125	Meenakshi Uchibagle Chauragade
43	Chandra Prakash Gour	126	Sameer Prakashrao Chambulwar
44	Akshay Gupta	127	Rojalini Nayak
45	Ravindra Trambak Jagtap	128	Rahul Rajendra Kshatriya
46	Shilpi Bhatnagar	129	Dr Avinash Shrishail Patil
47	Kanika Nagpal	130	Dr. Ganesh B. Kawale
48	Sachin Pundalik Harkal	131	Ketan Arunkumar Salunke
49	Lavisha Verma	132	Dr. Belin Jude A
50	Vasantha Priya M	133	Mrs. Neetu Yadav
51	Prashant Shivajirao Patil	134	Mr. Saurabh Sanjay Kasliwal
52	R Tharun	135	Mrs. Vidula Ranjit Waskar Patil
53	Rekha S. Kinagi	136	Mr. Shreedhar Deepak Patil
54	Neha Rohan Pimpale	137	Mr. Pramod Suresh Sathe
55	Madhuri Zhumbarlal Khairnar	138	Mrs. Savita Achyut Jangale
56	Mrs. Nidhi K. Misar	139	Mr. Gaurav Chandrakant Vispute
57	Abha Gupta	140	Mr. Walmik Shankar Marathe
58	Ankita Ashok Turate	141	Mrs. Nirmal Rahul Borse
59	Venkatesan G	142	Mr. Atul Nandkumar Kunjar
60	Yeole Pradeep Murleedhar	143	Miss Ashwathi R
61	Ar. Shrutika Joshi	144	Miss Kalyani Pramod Vankar
62	Shivani	145	Mrs. Vrushali Patil
63	Mrs.Priyanka Vinayak More	146	Mr. Vijay Dipak Vadnore



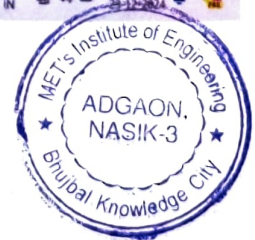
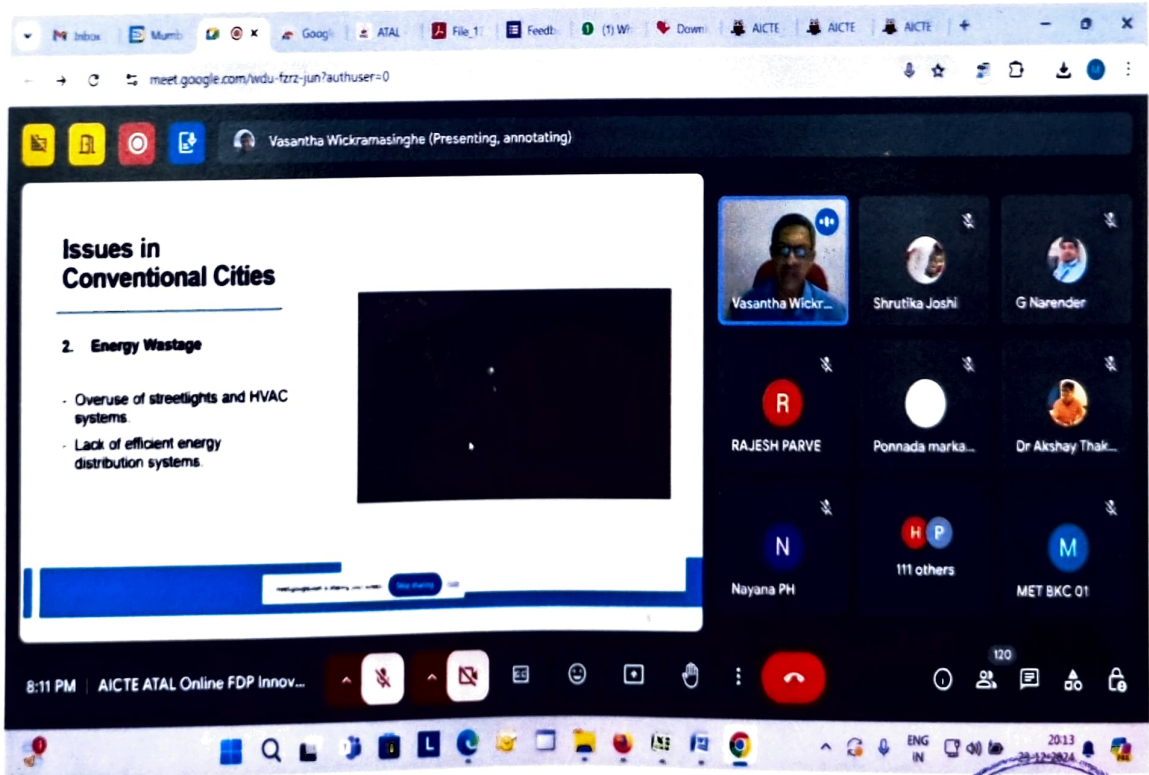
Sr.No	Name of Participant	Sr.No	Name of Participant
64	Dr Chidanand Patil	147	Miss Purva Rathore
65	G Narendra	148	Dr. Mahalingam T
66	Punit Bhanwar	149	Mr. Smrutiranjana Nayak
67	Abhishek R	150	Miss Madhuri Eknath Nikam
68	Mr.Vaibhav Kisan Ingle	151	Miss Mansi Namdeo Patil
69	Abhijit Madhavrao Thakare	152	Mr. Vijay Vignesh. A
70	B.Sakthi Navaneethan	153	Mrs. Kapilani Shamrao Gaikwad
71	Munthala Swathi	154	Dr. J.Abdul Bari
72	Santosh Sanap	155	Mrs. Devathi Vnv Laxmi Alekhya
73	Uday Arunrao Kakde	156	Mr. Gaurav Sanjay Jagatp
74	Shidhi Swarupa Nayak	157	Dr. Akshay Anil Thakare
75	Parag Suresh Bhoi	158	Mrs. Darshana Khillare
76	Dr. P. Sivasankaraiah	159	Mrs. Krishna Veni
77	Yogita Subhash Fulse	160	Mr. Nikhil Jambhale
78	Naresh Patil	161	Dr. Tejas D Doshi
79	Trupti Deepak Maslekar	162	Dr. Amrendra Kumar
80	K.Maharaja	163	Miss D.Mahhamitra
81	Rohit Kailas Pote	164	Mr. Swapnil Prakashpant Bijwe
82	Hardik Sevakdas Mandwe	165	Miss Basavarajeshwari Patil
83	Dr.Neelu Basant		

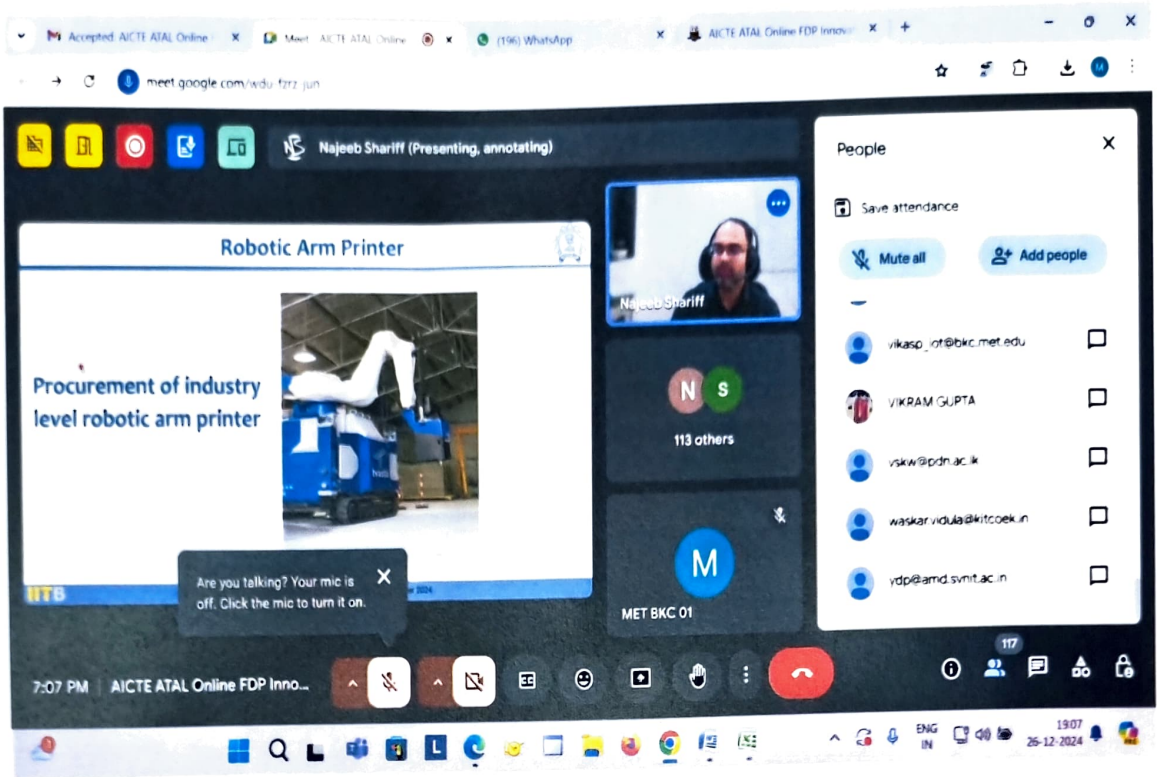


The screenshots of the participants Applied to FDP:

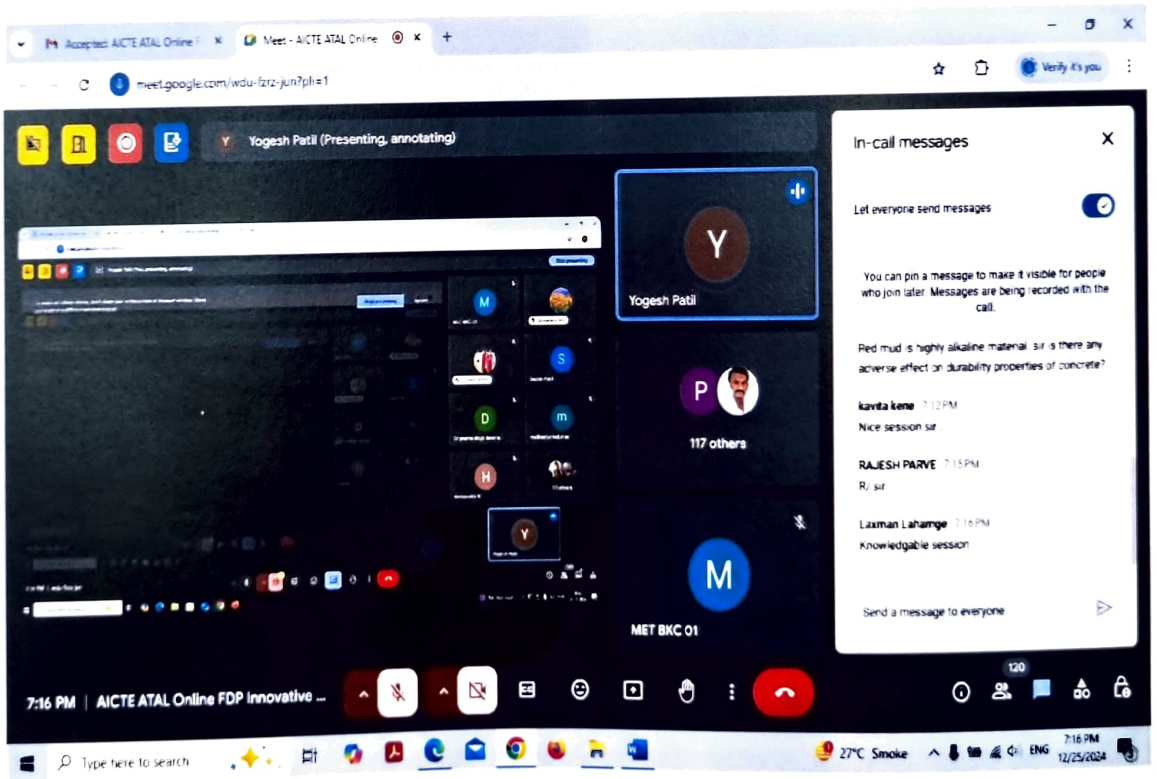


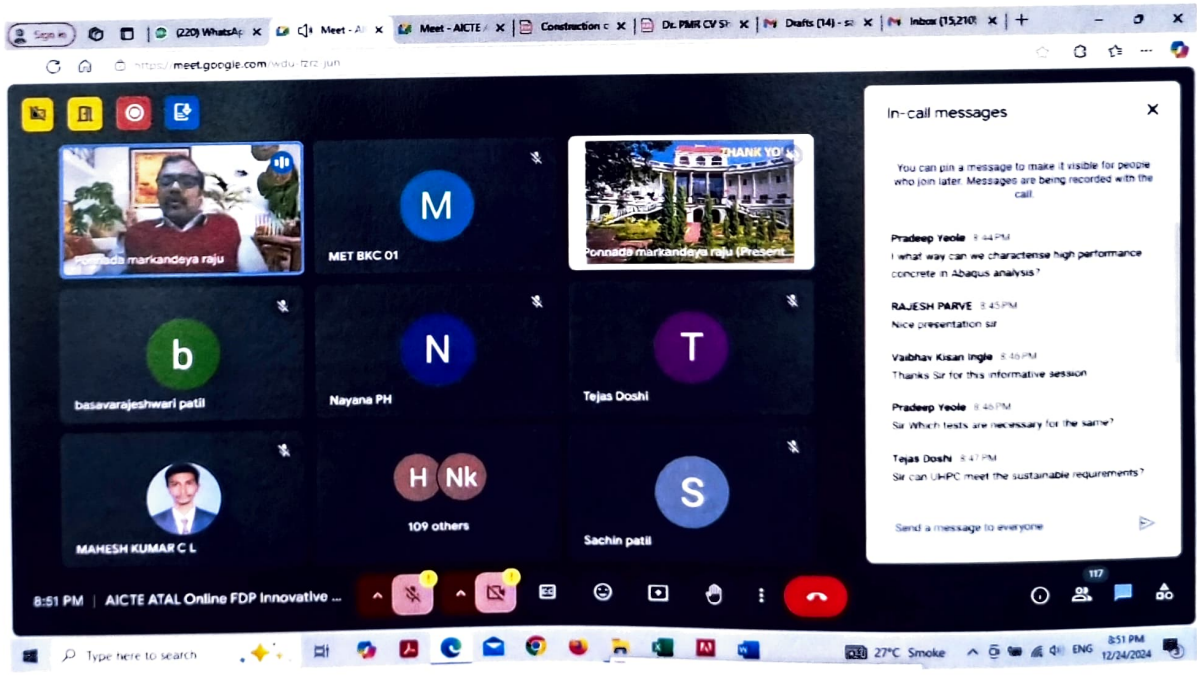
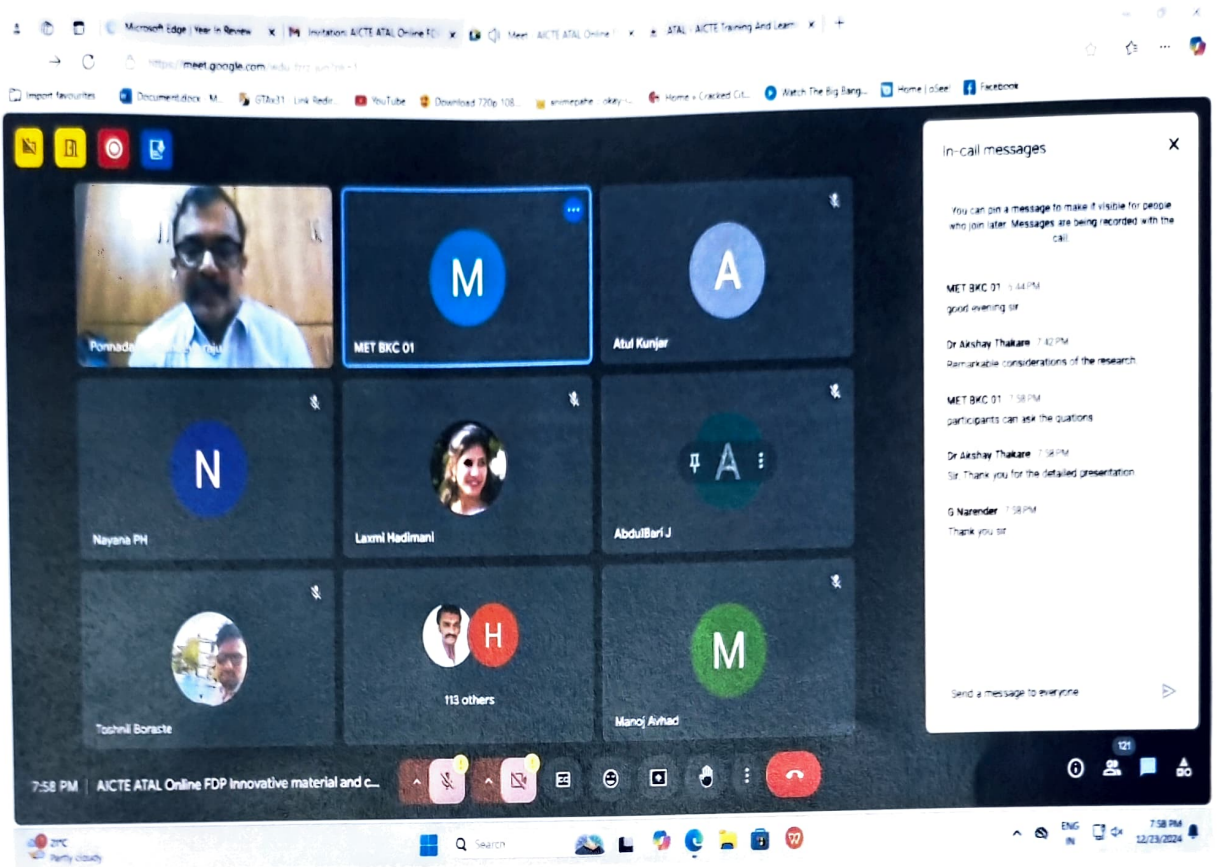
The screenshots of the Expert and participants are:

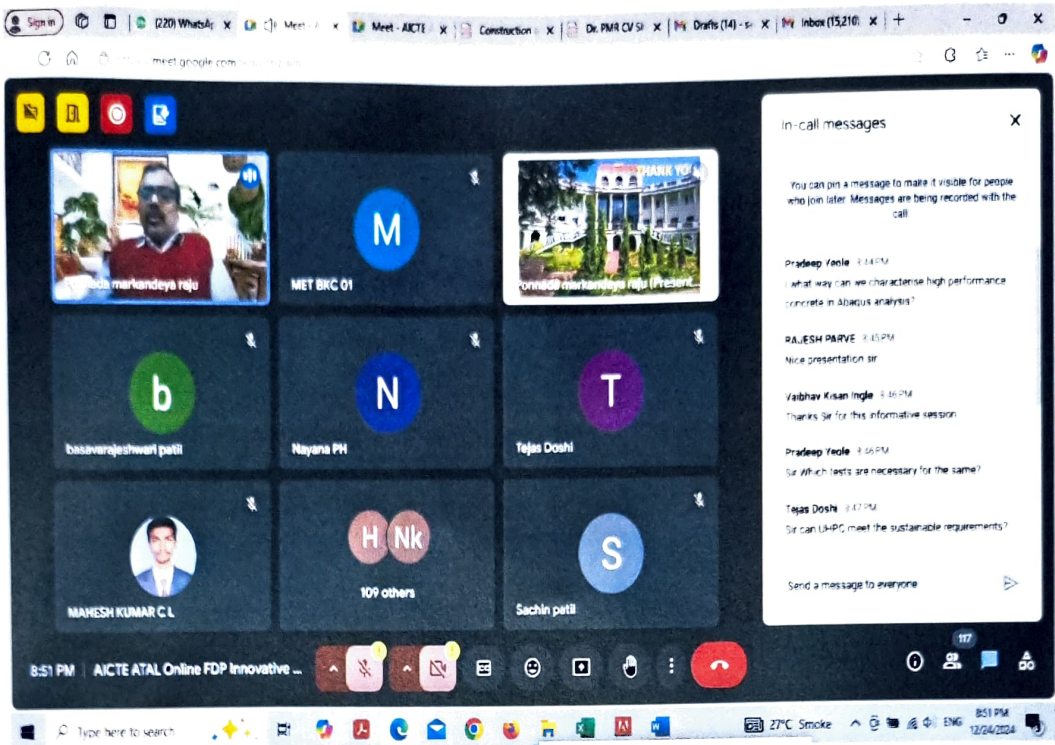




Some of the feedback received for the workshop are as below







In-call messages

You can pin a message to make it visible for people who join later. Messages are being recorded with the call.

Pradeep Yedle 8:44 PM
What way can we characterize high performance concrete in Abaqus analysis?

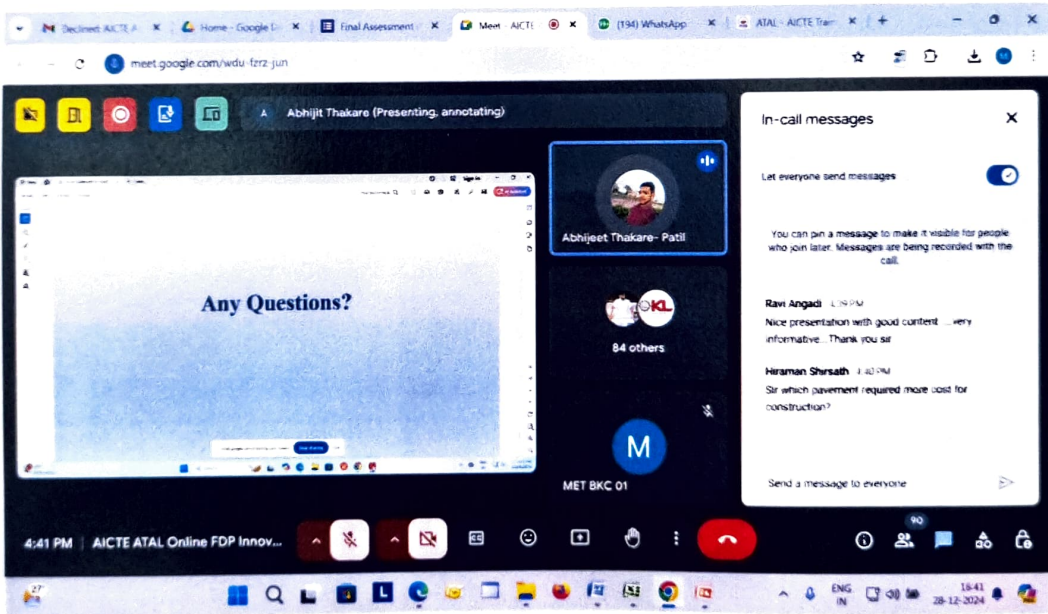
RAJESH PARVE 8:45 PM
Nice presentation sir

Vaibhav Kisan Ingle 8:46 PM
Thanks Sir for this informative session

Pradeep Yedle 8:46 PM
Sir Which tests are necessary for the same?

Tejas Doshi 8:47 PM
Sir can UHPC meet the sustainable requirements?

Send a message to everyone



In-call messages

Let everyone send messages

You can pin a message to make it visible for people who join later. Messages are being recorded with the call.

Ravi Angadi 4:39 PM
Nice presentation with good content...very informative... Thank you sir

Hiraman Shirsath 4:40 PM
Sir which pavement required more cost for construction?

Send a message to everyone





It was a great Initiative by ATAL Academy. I am thankful to AICTE for giving me this opportunity to conduct online FDP for faculty members of technical institute of India free of cost. I got huge response for registration as well as lots of compliment of arranging the online workshop, content and hands on.

Sachin Sopan Patil.

Coordinator, AICTE, ATAL FDP
Assistant Professor,
Department of Civil Engineering,
MET's Institute of Engineering, Nashik

Dr. Pavan N. Ghumare

H.O.D.
Department of Civil Engineering,
MET's Institute of Engineering, Nashik

Dr. V. P. Wani

Principal
MET's Institute of Engineering,
Nashik

