About ATME College of Engineering

ATME College of Engineering Mysuru, established in the year 2010 is approved by AICTE New Delhi and affiliated to Visvesvaraya Technological University Belagavi, Karnataka. Currently, 10 UG programs and 2 PG program (MCA & MBA) are offered to students.

Founders are managing various kind of enterprises like infra companies, manufacturing units, and IT service. Founders are aware of the need of the industry and trying to cater to such needs by developing industry-ready engineers through ATME College of Engineers. ATME has created a futuristic infrastructure with 3 lakh sq ft of built-up area, state of the art labs, a cluster of seminar halls & Auditorium with all modern gadgets, Library, Central computing facility, etc. All this has been done within a span of 8 years and can proudly be said that our infra is at par with any institution with a standing of 20-25 year.

ATMECE is re-accredited for 3 years by NBA for Civil Engineering, Electronics & Communication, Electrical & Electronics, and Mechanical Engineering Courses. Computer Science Course is accredited by NBA for 3 Years. ATMECE is an ISO 9001-2015 certified college and is awarded "The Best Emerging Private Engineering College in Karnataka" and "Most Promising Upcoming Private Engineering College in Karnataka" for two consecutive years. ATMECE has secured QS I-Gauge Gold Ranking. ATMECE has been listed as one of the "Swachh Institute of the Country in 2019-20".

ATMECE is proud of achieving accreditation by NAAC with A+ grade and is one among seven engineering colleges in Karnataka and one of the 47 Engineering colleges at the national level granted with A+ in the very First Cycle.

All the Departments in the Institute are recognized as research centers from VTU to pursue MS (Research) and Ph.D. The Institute has received more than 5 crores of external funding for various research & consultancy projects in the last 5 years. ATMECE has collaborated with more than twenty-five Industries and Institutes across the globe.

Vision

Development of academically excellent, culturally vibrant, socially responsible and globally competent human resources.

Mission

- To keep pace with advancements in knowledge and make the students competitive and capable at the global level
- To create an environment for the students to acquire the right physical, intellectual, emotional and moral foundations and shine as torchbearers of tomorrow's society
- To strive to attain ever-higher benchmarks of educational excellence

Department of Civil Engineering

The Department of Civil Engineering came into existence in the year 2011 offering UG program in Civil Engineering with an intake of 60. The Department of civil engineering is growing tremendously over the years. With this small span of time the department has nurtured young minds to produce bright able Civil Engineers to the society. The department has expertise in almost the entire spectrum of civil engineering namely in Highway technology, Planning, Design, Construction and Management. The department with its multifaceted faculty continues to maintain and cultivate its strong links with infrastructural industry, academics and research. Various lab facilities are provided to students here. The labs here provide expertise in Structural Engineering, Transportation Engineering, Geotechnical Engineering, Environmental Engineering, Hydraulics and Surveying. With this state of art infrastructure, the students involve them in research with the guidance of expertise faculties.

The UG program is accredited by NBA for a period of 3years in two consecutive cycles. The department has varied laboratories with excellent facilities in order to carry out the Research and Consultancy works. Department has received funding up to Rs. 10lakhs sponsored by Central & State Govt agencies. Department is actively involved in Consultancy works. Department has good numbers of faculty and student publications. Department has MoU's with many organizations to bridge the gap between academics & Industry. The department has received funding from ATAL, AICTE for the second consecutive time to conduct the FDP.

Vision

To develop globally competent civil engineers who excel in academics, research and are ethically responsible for the development of the society.

Mission

- To provide quality education through faculty and state of art infrastructure.
- To identify the current problems in society pertaining to Civil Engineering disciplines and to address them effectively and efficiently.
- To inculcate the habit of research and entrepreneurship in our graduates to address current infrastructure needs of society

Program Specific Outcomes (PSOs)

PSO 1 – Provide necessary solutions to build infrastructure for all situations through competitive plans, maps and designs with the aid of a thorough Engineering Survey and Quantity Estimation.

PSO 2 – Assess the impact of anthropogenic activities leading to environmental imbalance on land, in water & in air and provide necessary viable solutions revamping water resources and transportation for a sustainable development

About ATAL

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of faculties and students to make them more employable to acquire global competencies.

About the FDP

Disaster management and resilience infrastructure encompass a comprehensive approach to preparing for, responding to, and recovering from disasters while minimizing their impact on communities and ecosystems. In view of focusing on equipping educators and professionals with the knowledge and skills necessary to address the complexities of disaster management in today's context, the department of Civil Engineering has been organizing a 6-Days online Faculty Development Program in the field of Innovative Approaches to Disaster Management and Resilience Infrastructure. This FDP aims to create a more resilient future by preparing participants to address the challenges posed by natural and human-made disasters effectively.

Objectives

- Analyze current resilient infrastructure strategies to determine best practices and gaps in disaster preparedness and recovery.
- Create awareness and assessing the effectiveness of implemented innovative strategies in improving disaster response and resilience.
- Analyze current resilient infrastructure strategies to determine best practices and gaps in disaster preparedness and recovery.

Expected Outcomes

- Development of infrastructure that can withstand extreme weather events and natural disasters, reducing repair costs and downtime.
- Compilation of successful case studies that highlight innovative practices in disaster management, serving as models for future initiatives.
- Streamlined disaster response processes that reduce response times and optimize resource allocation during emergencies.

Committee Members

Chief Patron	Sri. L Arun Kumar, Hon. Chairman, ATMECE
Patrons	Sri. K. Shivashankar, Hon. Secretary, ATMECE
	Sri. R. Veeresh, Hon. Treasurer, ATMECE
Principal	Dr. Basavaraj L, ATMECE
Advisory Committee	Dr. S R Bhagyashree, Dean-Research, Professor, Dept. of ECE, ATMECE
Convenor	Prof. Manu Vijay, Associate Professor & Head, Dept. of CE, ATMECE
Co-Ordinator	Dr. Suneeth Kumar S M, Professor, Dept. of CE, ATMECE
Co-Coordinator	Mrs. Shruthi H G, Assistant Professor, Dept. of CE, ATMECE
Organizing Committee	Teaching & Non-Teaching Staffs, Dept. of CE, ATMECE

Schedule of FDP

FDP Tittle: **Innovative Approaches to Disaster Management and Resilient Infrastructure**
Start & End Date: **9/12/2024 to 14/12/2024**

Day 1	Day 2	Day 3	Day 4	Day 5	Day6
6:00PM to 6:30PM **Inaugural Session**	6:00PM to 7:30PM **Session 3** Topic: Risk assessment and disaster recovery plans Name of the Expert: Ajay Kumar Movva Designation & Organization: Manager EHS, Kalpataru Projects International Ltd., Nigeria Years of Exp: 13 Years	6:00PM to 7:30PM **Session 5** Topic: Earthquake disaster management Name of the Expert: Dr. S Kavitha Designation & Organization: Professor, Ambedkar Institute of technology, Bangalore Years of Exp: 18 Years	6:00PM to 7:30PM **Session 7** Topic: Tsunami hazards and protective measures Name of the Expert: Dr. S Kavitha Designation & Organization: Professor, Ambedkar Institute of technology, Bangalore Years of Exp: 18 Years	6:00PM to 7:30PM **Session 9** Topic: Geotechnical schemes for net zero targets Name of the Expert: Dr. Sreevalsa Designation & Organization: Associate Prof, NITK, Surathkal Years of Exp: 18 Years	2:00PM to 3:30PM **Session 11** Topic: Designing of earthquake resilient structures Name of the Expert: Dr. Sudhahar A Designation & Organization: MD, Dimensions consultants Years of Exp: 19 Years
6:30PM to 8:00PM **Session 1** Topic: Introduction to Disaster Management – Flood Rescue management Name of the Expert: Dr. Tarek Merabtene Designation & Organization: Professor, University of Sharjah Years of Exp: 23 Years	7:30PM to 9:00PM **Session 4** Topic: Causes of landslides and innovative retaining walls for the collapsed portion Name of the Expert: A C Shivakumar Designation & Organization: Consultant, Design Academy Years of Exp: 41 Years	7:30PM to 9:00PM **Session 6** Topic: Detailing for earthquake resistant design of RCC structures Name of the Expert: Dr. G. S Suresh Designation & Organization: M D, SKYLARK Engineering Consultant Years of Exp: 36 Years	7:30PM to 9:00PM **Session 8** Topic: Effects of infills on seismic resilience of moment resisting frames Name of the Expert: Dr. Raghavendra Prasad Designation & Organization: MD , Bhamy's constructions, Mysuru Years of Exp: 18 Years	7:30PM to 9:00PM **Session 10** Topic: Geotechnical aspects in Disaster Management Name of the Expert: Dr. S. K Prasad Designation & Organization: Professor & HOD, VVCE, Mysuru Years of Exp: 42 Years	3:30PM to 5:00PM **Session 12** Topic: Adopting construction for disaster prone area monolithic housing & Case studies Name of the Expert: Nagesh Puttaswamy Designation & Organization: Independent Civil Engineering consultant, Concrete technologist & trainer Years of Exp: 39 Years
8:00PM to 9:30 PM **Session 2** Topic: Role of Emerging Technologies in Disaster Management Name of the Expert: Dr. Surendra H J Designation & Organization: Professor & HOD, Atria Institute of Technology, BOE chairman-VTU Years of Exp: 13 years					5:00PM to 6:30PM **Session13** Topic: System for emergency assistance, response and communication hub Name of the Expert: Dr. Pruthvi Raj U Designation & Organization: Professor, NITK, Surathkal Years of Exp: 17 Years
					6:30PM to 7:30PM **Online test & feedback**
					7:30PM to 8.00PM **Valedictory Session**

Approved List of Participants

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6	DR. ARUNA RAWAT	ASSISTANT PROFESSOR	UNIVERSITY INSTITUTE OF TECHNOLOGY
7	DR. DARSHAN C SEKHAR	ASSISTANT PROFESSOR	BMS COLLEGE OF ENGINEERING, BANGALORE
8	DR. DEEPTI PATEL	ASSISTANT PROFESSOR	BMCET
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11	DR. DURGALAKSHMI S	ASSISTANT PROFESSOR	VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES
12	DR. DUSHYANTH V BABU R	ASSISTANT PROFESSOR	FET - JAIN (DEEMED TO BE UNIVERSITY)
13	DR. GOPALAKRISHNA V GAONKAR	ASSISTANT PROFESSOR	JAIN (DEEMED TO-BE UNIVERSITY)
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15	DR. INDRAJEET SAHU	ASSISTANT PROFESSOR	VARDHAMAN COLLEGE OF ENGINEERING
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26	DR. NAVEEN KUMAR S.	ASSISTANT PROFESSOR	P E S COLLEGE OF ENGINEERING
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47	MISS DIVYA TAMRAKAR	ASSISTANT PROFESSOR	COORG INSTITUTE OF TECHNOLOGY
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85	MR. AMITH B J	ASSISTANT PROFESSOR	MIT THANDAVAPURA
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147	MR. PAVAN KUMAR V	ASSISTANT PROFESSOR	SANKALCHAND PATEL COLLEGE OF ENGINEERING, SANKALCHAND PATEL UNIVERSITY, VISNAGAR
148	MR. PAVANKUMAR N	ASSISTANT PROFESSOR	JYOTHY INSTITUTE OF TECHNOLOGY
149	MR. PRASAD PUJAR	ASSISTANT PROFESSOR	COORG INSTITUTE OF TECHNOLOGY

150	MR. PRASENJIT DAS	ASSISTANT PROFESSOR	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, SJCE MYSURU
151	MR. PUNEETH K	ASSISTANT PROFESSOR	GLOBAL INSTITUTE OF SCIENCE & TECHNOLOGY
152	MR. R THARUN	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	ATME COLLEGE OF ENGINEERING
153	MR. RADHAKRISHNAN SOUNDARAJAN	ASSISTANT PROFESSOR	MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY
154	MR. RAHUL	ASSISTANT PROFESSOR	RVS COLLEGE OF ENGINEERING, DINDIGUL.
155	MR. RAJESHWARAN R	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	SJCE
156	MR. RAMTHILAK	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	ST. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH
157	MR. RON V ROY	RESEARCH SCHOLARS	R V COLLEGE OF ENGINEERING
158	MR. ROOPESH KUMAR B	ASSISTANT PROFESSOR	CHRIST UNIVERSITY, BANGALORE
159	MR. RUDRESH A N	ASSISTANT PROFESSOR	JSS POLYTECHNIC
160	MR. SACHIN DYAVAPPNAVAR	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	ATMECE
161	MR. SACHIN M S	ASSISTANT PROFESSOR	JAIN COLLEGE OF ENGG AND TECHNOLOGY , HUBLI
162	MR. SACHIN V	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	BGS INSTITUTE OF TECHNOLOGY
163	MR. SADASHIVA MURTHY TH	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	THE NATIONAL INSTITUTE OF ENGINEERING
164	MR. SAINATH VAIDYA	ASSISTANT PROFESSOR	NATIONAL INSTITUTE OF ENGINEERING MYSORE
165	MR. SANJAY N MR. SHAIK SAMEER	ASSISTANT PROFESSOR	KBN UNIVERSITY
166	MR. SHANKAREGOWDA	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	VEMANA INSTITUE OF TECHNOLOGY
167	MR. SHARATH B	ASSISTANT PROFESSOR	ANNAMACHARYA INSTITUTE OF SCIENCE AND TECHNOLOGY TIRUPATHI
168	MR. SHARATH H P	ASSISTANT PROFESSOR	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
169	MR. SHASHI KIRAN C R	ASSISTANT PROFESSOR	DR. AMBEDKAR INSTITUTE OF TECHNOLOG
170	MR. SK MURSID ALAM	ASSISTANT PROFESSOR	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING, MYSORE
171	MR. SRIVATHSA H U	ASSISTANT PROFESSOR	R V COLLEGE OF ENGINEERING
172	MR. SUBRAMANYA P G	ASSISTANT PROFESSOR	GLOBAL INSTITUTE OF SCIENCE AND TECHNOLOGY
173	MR. SUJEET PATIL	ASSISTANT PROFESSOR	ATME COLLEGE OF ENGINEERING

174	MR. SUNNY K	ASSISTANT PROFESSOR	SJMIT
175	MR. SUVANKAR DE	ASSISTANT PROFESSOR	PDA ENGINEERING COLLEGE
176	MR. SWAPNIL ARVIND RAUT	ASSISTANT PROFESSOR	BMS COLLEGE OF ARCHITECTURE, DESIGN & PLANNING
177	MR. TANVIR HOSSAIN	ASSISTANT PROFESSOR	GLOBAL INSTITUTE OF SCIENCE AND TECHNOLOGY
178	MR. UDAY SHANKAR S	ASSISTANT PROFESSOR	THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY
179	MR. UNNAM ANIL	ASSISTANT PROFESSOR	GLOBAL INSTITUTE OF SCIENCE AND TECHNOLOGY
180	MR. VADIRAJ RAO	ASSISTANT PROFESSOR	JSS SCIENCE AND TECHNOLOGY UNIVERSITY
181	MR. VAGEESH H P	ASSISTANT PROFESSOR	THE NATIONAL INSTITUTE OF ENGINEERING MYSURU
182	MR. VARUN S	ASSISTANT PROFESSOR	THE NATIONAL INSTITUTE OF ENGINEERING, MYSORE
183	MR. VASU	LAB TECHNICIAN	R V COLLEGE OF ENGINEERING
184	MR. VELURI VENKATA AMAR NARASING RO	ASSISTANT PROFESSOR	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
185	MR. VENKATESH A L	INDUSTRY BUREAUCRATS/TECHNICIANS/ PROFESSIONALS	GALGOTIAS UNIVERSITY
186	MR. VIJAY KOTHARI	ASSISTANT PROFESSOR	VARDHAMAN COLLEGE OF ENGINEERING(A),KACHARAM,SHAMSHABAD,HYDERABAD,TELANGANA,INDIA-501218.
187	MR. VIKRANT KOTHARI	INDUSTRY BUREAUCRATS/TECHNICIANS/ PROFESSIONALS	CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY
188	MR. VINAYAK RAO S R	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	BHAGWAN MAHAVIR UNIVERSITY, SURAT
189	MR. VISWANATH GOPISETTY	ASSISTANT PROFESSOR	VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY
190	MR. VIVEK PRASAD H G	ASSISTANT PROFESSOR	CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY
191	MR. Y R SURESH	ASSISTANT PROFESSOR	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY HYDERABAD
192	MRS. AISHWARYA R	ASSISTANT PROFESSOR	JSS SCIENCE & TECHNOLOGY UNIVERSITY
193	MRS. AKHILA CG	ASSISTANT PROFESSOR	JYOTHY INSTITUTE OF TECHNOLOGY
194	MRS. ANUSHA K N	INDUSTRY BUREAUCRATS/TECHNICIANS/ PROFESSIONALS	RMK ENGINEERING COLLEGE
195	MRS. ANUSHA M	ASSISTANT PROFESSOR	NITTE EDUCATION TRUST
196	MRS. ARCHANA P	ASSISTANT PROFESSOR	PESCE MANDYA
197	MRS. ASHARANI G S	ASSISTANT PROFESSOR	P E S COLLEGE OF ENGINEERING, MANDYA
198	MRS. B.MARY SONIA GEORGE	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	SREE NARAYANA GURU COLLEGE OF ENGINEERING AND TECHNOLOGY

199	MRS. BHARATHI B	ASSISTANT PROFESSOR	ATME COLLEGE OF ENGINEERING
200	MRS. BHARGAVI C	ASSISTANT PROFESSOR	JYOTHY INSTITUTE OF TECHNOLOGY
201	MRS. BHAVYASHREE B N	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
202	MRS. CHANDANASHREE B	ASSISTANT PROFESSOR	MAHARAJA INSTITUTE OF TECHNOLOGY THANDAVAPURA
203	MRS. CHANDINI M S	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	MALNAD COLLEGE OF ENGINEERING
204	MRS. DIVYA P	ASSISTANT PROFESSOR	PESCE
205	MRS. DIVYASHREE M	ASSISTANT PROFESSOR	PES COLLEGE OF ENGINEERING
206	MRS. EZHILARASI E	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	PERI INSTITUTE OF TECHNOLOGY, MANNIVAKKAM
207	MRS. GOWTHAMI U KUMAR	ASSISTANT PROFESSOR	DAYANANDA SAGAR COLLEGE OF ARCHITECTURE
208	MRS. JEEVITHA B	ASSISTANT PROFESSOR	DAYANANDA SAGAR COLLEGE OF ARCHITECTURE
209	MRS. KAVYA K M	ASSISTANT PROFESSOR	JSS SCIENCE TECHNOLOGY AND UNIVERSITY
210	MRS. KIRAN JUNEJA J	ASSISTANT PROFESSOR	PES COLLEGE OF ENGINEERING
211	MRS. MADHUSHREE C	ASSISTANT PROFESSOR	MALNAD COLLEGE OF ENGINEERING
212	MRS. MAHENDRA KUMAR H M	ASSISTANT PROFESSOR	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING
213	MRS. N HEMAVATHI	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY
214	MRS. NAMITHA AP	ASSISTANT PROFESSOR	ATME COLLEGE OF ENGINEERING
215	MRS. NAMRATHA BHARADWAJ	ASSISTANT PROFESSOR	BMS COLLEGE OF ARCHITECTURE DESIGN & PLANNING
216	MRS. NAVYASHREE H R	ASSISTANT PROFESSOR	BGS INSTITUTE OF TECHNOLOGY
217	MRS. NUDI SHREE	ASSISTANT PROFESSOR	MALNAD COLLEGE OF ENGINEERING
218	MRS. POOJA BALASAHEB SURYAWANSHI	ASSISTANT PROFESSOR	VDF GROUP OF INSTITUTION LATUR
219	MRS. PUSHPA K	ASSISTANT PROFESSOR	SJCE, MYSURU
220	MRS. RAMYA HN	ASSISTANT PROFESSOR	CHANNABASAVESHWARA INSTITUTEOF TECHNOLOGY
221	MRS. RAMYA SHREE S	INDUSTRY BUREAUCRATS/TECHNICIANS/ PROFESSIONALS	JAIN UNIVERSITY

222	MRS. RASHMI B R MRS. ROOPANJALI S	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	MALNAD COLLEGE OF ENGINEERING
223	MRS. RUTUJA SAGAR SHINDE	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING
224	MRS. SAHANA BASTI	ASSISTANT PROFESSOR	TCET
225	MRS. SARITHA SASINDRAN	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	VEMANA INSTITUTE OF TECHNOLOGY
226	MRS. SHAMYA SUKUMARAN M	ASSISTANT PROFESSOR	SNGCET PAYYANUR
227	MRS. SHARMILA R	ASSISTANT PROFESSOR	SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY , PAYYANUR
228	MRS. SHILPA VALSAKUMAR	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	PESCE MANDYA
229	MRS. SHRITHI S BADAMI	ASSISTANT PROFESSOR	SNGCET PAYYANUR
230	MRS. SHRUTHI A N	ASSISTANT PROFESSOR	R. V. COLLEGE OF ENGINEERING
231	MRS. SHRUTHI H G	ASSISTANT PROFESSOR	NIE, MYSORE
232	MRS. SHWETHA G C	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	ATME COLLEGE OF ENGINEERING
233	MRS. SHWETHA K G	ASSISTANT PROFESSOR	JAIN COLLEGE OF ENGINEERING AND TECHNOLOGY , HUBLI
234	MRS. SNEHA PANKAJ MADNAIK	ASSISTANT PROFESSOR	NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY BENGALURU
235	MRS. SWATHI RANI K S	ASSISTANT PROFESSOR	DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR
236	MRS. THOTA GIREESHMA	RESEARCH SCHOLARS	SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING
237	MRS. VEDAPRADA R	ASSISTANT PROFESSOR	NIE MYSORE
238	MRS. YAZHINI T C	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	VEMANA INSTITUTE OF TECHNOLOG
240	MRS. YOGITHA H M	FACULTY MEMBERS OF THE AICTE APPROVED INSTITUTIONS	JSS POLYTECHNIC MYSURU

Inaugural Session

The Inaugural Session of the Faculty Development Program was held on 9th December 2024 at 6:00pm in online mode through MS team platforms. Mrs. Shobha Arun, Head -CTEA, L & T limited Mysuru was the Chief Guest of the Inaugural function. Mr. Manu Vijay, Associate Professor & Head, Department of Civil Engineering, ATMECE welcomed the gathering. Dr. Basavaraj L, Principal, ATMECE Mysuru presided the event. Mrs. Shruthi H G, Assistant professor and Co-coordinator of the event brief up about the 6 day online FDP on "Innovative Approaches to Disaster Management and Resilience Infrastructure" funded by ATAL, AICTE. "Dr. Suneeth Kumar S M, Professor, Department of Civil Engineering proposed the vote of thanks. Resource persons, Staff members of ATMECE and participants from various premier institutes, PG scholars and Industry persons witnessed the event.

Inaugural Function

ATME College of Engineering

Cordially Invites you to the

Six Day Online Faculty Development Program on

"INNOVATIVE APROACHES

TO DISASTER MANAGEMENT RESILIENT INFRASTRUCTURE"

Date: 9 to 14th December 2024

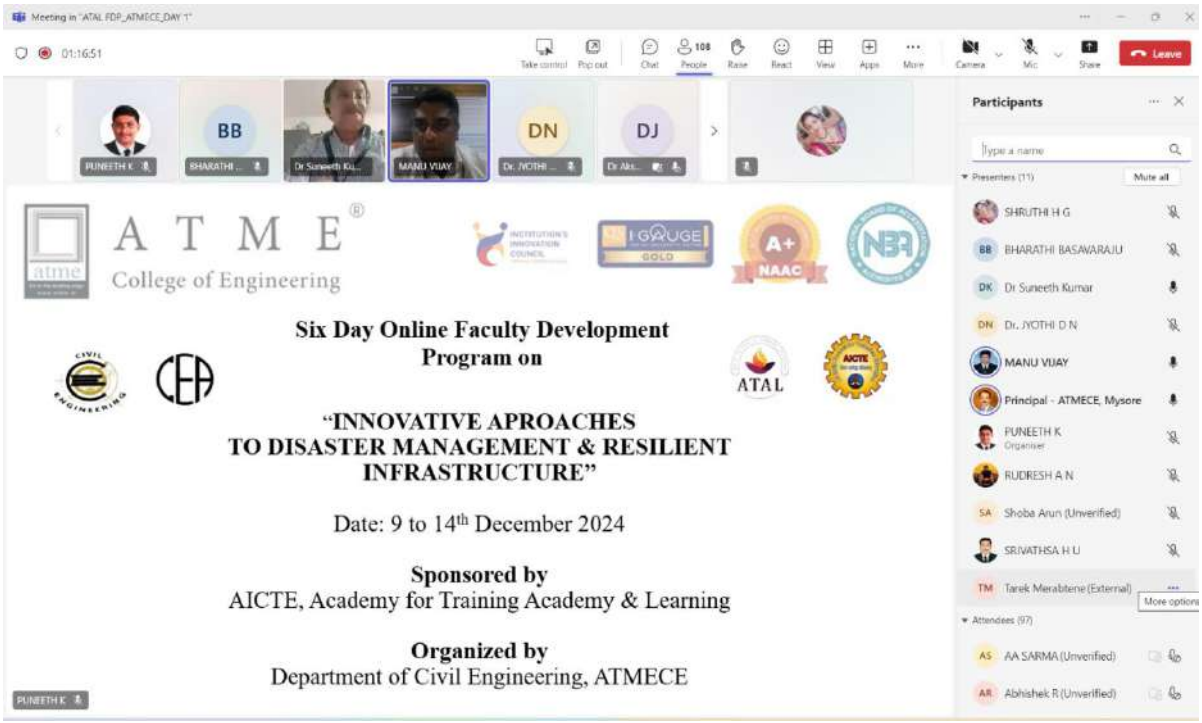
Sponsored by

AICTE, Academy for Training Academy & Learning

Organized by

Department of Civil Engineering, ATMECE

	Chief Patron	
	Sri. L Arun Kumar Hon Chairman ATMECE Mysuru	
	Chief Guest	
	Mrs. Shoba Arun Head -CTEA, L & T, Mysuru	
	Presided by	
	Dr. Basavaraj L ATMECE, Mysuru	
	Patrons	
Sri. K. Shivashankar Hon. Secretary, ATMECE, Mysuru		Sri. R. Veeresh Hon. Treasurer, ATMECE, Mysuru
Principal		**Advisory Committee**
Dr. Basavaraj L ATMECE, Mysuru		Dr. S R Bhagyashree Dean-Research, Professor, Dept. of ECE, ATMECE
Convener		**ATAL FDP Co-Ordinator**
Prof. Manu Vijay Associate Professor & HOD, Dept. of CE, ATMECE		Dr. Suneeth Kumar S M Professor, Dept of CE, ATMECE Mrs.Shruthi HG Assistant Professor, Dept of CE, ATMECE
	Organizing Committee	
	Teaching & Non-Teaching Staffs Dept. of CE, ATMECE	


Meeting in "ATAL FDP_ATMECE_DAY 1"
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Participants
ATME
College of Engineering
Six Day Online Faculty Development Program on
"INNOVATIVE APROACHES TO DISASTER MANAGEMENT & RESILIENT INFRASTRUCTURE"
Date: 9 to 14th December 2024
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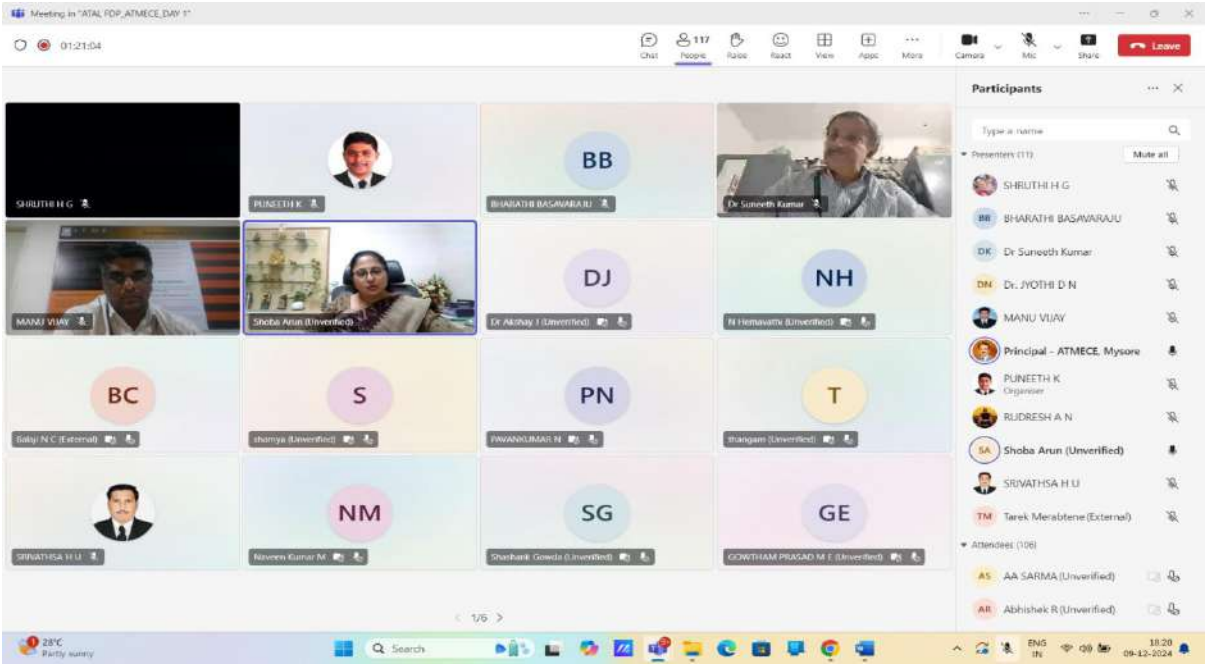
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Participants

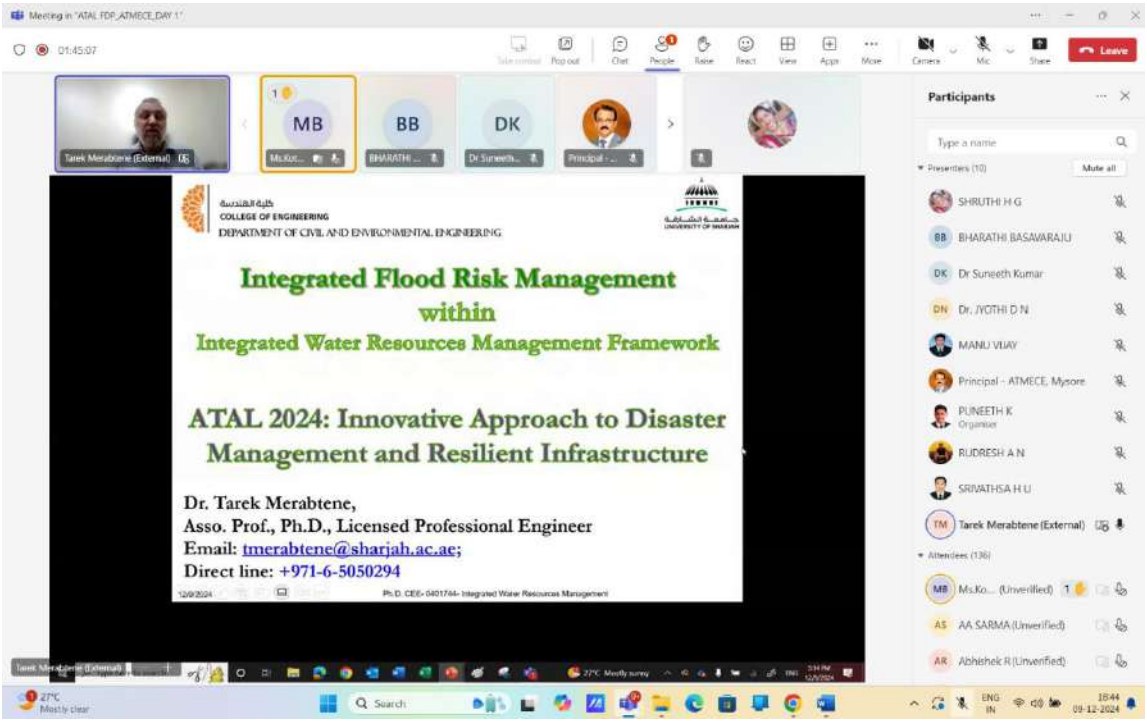
Session – 1

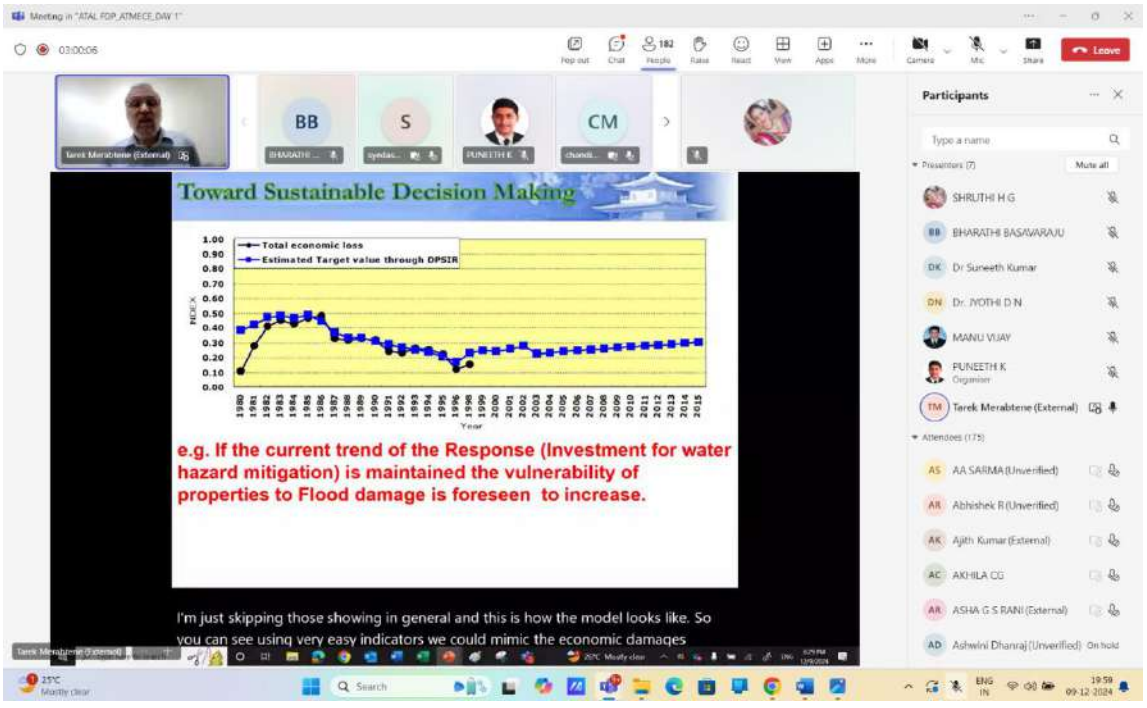
Dr. Tarek Merabtene
Associate Professor
University of Sharjah

Dr. Tarek Merabtene is an Associate Professor of Water Resources and Hydraulics Engineering at the University of Sharjah (UoS), United Arab Emirates. He is currently appointed Director of the Office of International Relations. After earning his Master's degree from Ecole National Polytechnique, Algiers, Algeria, in 1990 and his Ph.D in Water Resources Management from Kyushu University, Fukuoka, Japan, in 1998.
Prior to joining UoS in 2008, Dr. Merabtene occupied several academic positions at Ecole National Polytechnique Algiers, Kyushu University Japan, United Arab Emirates University and Higher Colleges of Technology UAE. He also occupied strategic positions at renowned Japanese consulting firms and research institutions. He was appointed Senior Engineer and Principal Water Manager by CTI Engineering Co. Ltd., Tokyo, Japan, one of the world's top 100 global consulting firms. He was a key player for the establishment of Japan International Center for Water Hazard and Risk Management under the auspices of UNESCO (ICHARM) at which he was later appointed as Chief Scientist & Project Manager.
His Areas of research interest include Water hazards and risk management (Flood and Drought), Hydrologic modeling and Climate change, Water governance and research on water sustainability issues, Application of Artificial Intelligence to Water and Environmental Engineering problems, Integrated water management under Climate Change and Climate Variability scenarios, and Assessment and optimization of water distribution Systems.

Introduction to Disaster Management – Flood Rescue management

Dr. Tarek Merabtene addressed the participants and he explained the concepts of disaster management and flood rescue management. Flood Rescue Management is a critical aspect of disaster management that focuses on providing immediate response and relief during flood disasters. Floods can result from heavy rainfall, dam breaches, or rising rivers, often leading to widespread destruction of infrastructure, homes, and loss of life. Effective flood rescue operations are crucial in saving lives, minimizing injuries, and providing necessary relief to affected communities. Effective flood rescue management is vital for mitigating the impacts of floods and ensuring that affected communities receive the assistance they need to recover and rebuild their lives. Coordination, communication, and preparedness are key components of an efficient disaster response.


COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
Integrated Flood Risk Management
within
Integrated Water Resources Management Framework
ATAL 2024: Innovative Approach to Disaster Management and Resilient Infrastructure
Dr. Tarek Merabtene,
Asso. Prof., Ph.D., Licensed Professional Engineer
Email: tmerabtene@sharjah.ac.ae;
Direct line: +971-6-5050294
Participants


Toward Sustainable Decision Making
Total economic loss
Estimated Target value through DPSIR
e.g. If the current trend of the Response (Investment for water hazard mitigation) is maintained the vulnerability of properties to Flood damage is foreseen to increase.
I'm just skipping those showing in general and this is how the model looks like. So you can see using very easy indicators we could mimic the economic damages
Participants

Session – 2

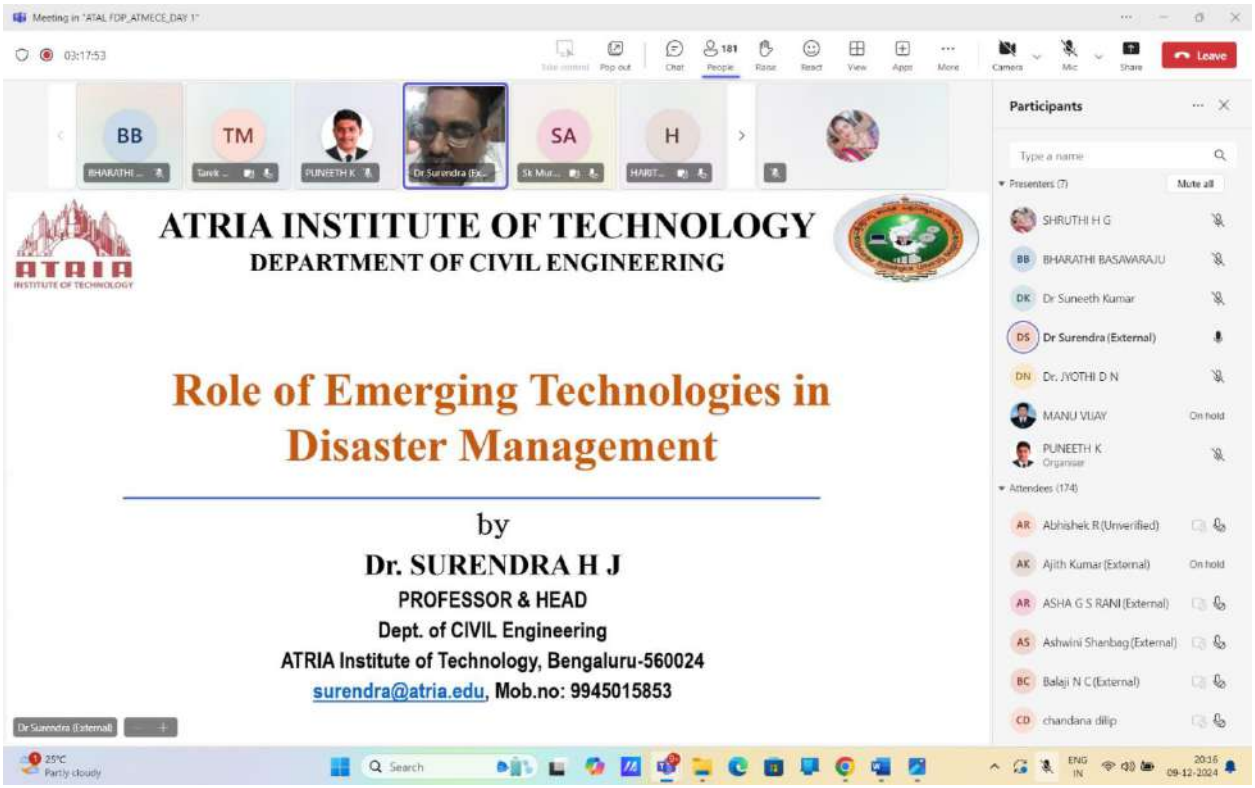
Dr. Surendra H J
Professor & HOD,
Dept. of CE,
Atria Institute of technology,
Bengaluru

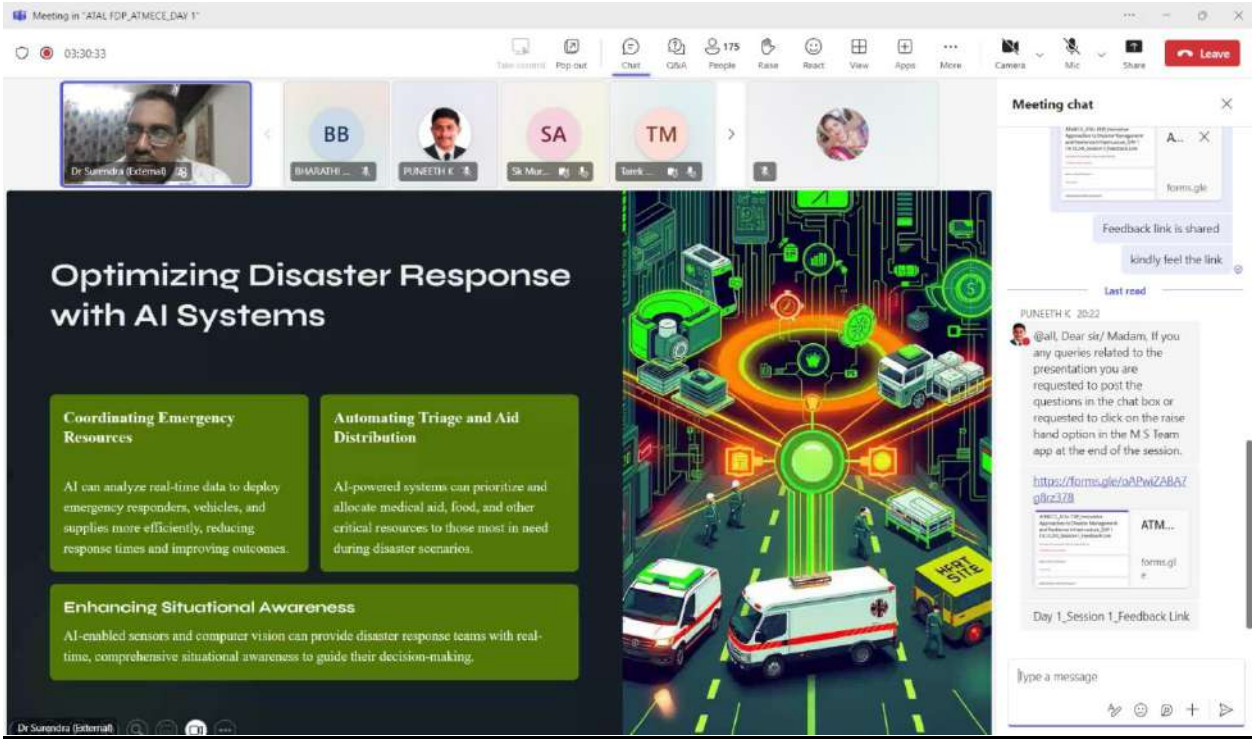
Dr. Surendra H J currently holds the position of Associate Dean (R&D), Professor and Head at the Department of Civil Engineering in ATRIA Institute of Technology, located in Bengaluru, Karnataka, India. He earned his M.Tech in Water Resources Engineering from the National Institute of Technology, Karnataka, Surathkal, in 2012, and completed his Ph.D. in Civil Engineering, specializing in Soft Computing Techniques, from the National Institute of Technology Karnataka (NITK) Surathkal, in 2017. His research focuses on the application of Soft Computing in Civil Engineering for sustainable development, particularly in the areas of water, Environment, and agriculture. As a Recognized Research supervisor under Visvesvaraya Technological University (VTU), Dr. Surendra has supervised numerous undergraduate, postgraduate, and Ph.D. projects. He has authored over 25 research papers published in national and international journals and conferences, along with book chapters. Dr. Surendra is a Fellow of the International Association for Engineering and Management Education and a Life Member of the Indian Society of Technical Education and the India Association of Hydraulics. He has received funding from VGST, AICTE, KSCST, and the McAfee Scholar. Additionally, he has organized numerous Faculty Development Programs (FDPs), workshops, seminars, and training programs.

Role of Emerging Technologies in Disaster Management

Dr. Surendra H J in his presentation gave a brief overview on Emerging technologies which are transforming disaster management by enabling more effective prediction, response, and recovery efforts. Technologies like artificial intelligence (AI), the Internet of Things (IoT), and geographic information systems (GIS) allow for real-time monitoring and early warning systems, helping predict natural disasters such as floods, hurricanes, or earthquakes. AI-driven models analyze vast datasets to anticipate disaster events and optimize resource allocation, while IoT sensors monitor environmental conditions, providing early alerts to vulnerable populations. Geospatial tools help map risk zones, facilitating better planning and evacuation strategies.

In addition to predictive tools, technologies like drones, robotics, and augmented reality (AR) play a crucial role in disaster response. Drones offer aerial surveillance of disaster-affected areas, helping locate survivors, assess damage, and deliver aid to hard-to-reach places. Robotics assist in search and rescue operations, especially in hazardous environments. AR helps responders visualize disaster scenarios, improving decision-making during crisis situations. Additionally, mobile applications, blockchain, and communication platforms ensure timely alerts and resource distribution, further enhancing coordination and efficiency in disaster management. These technologies collectively help save lives, reduce risks, and expedite recovery efforts.


ATRIA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
Role of Emerging Technologies in Disaster Management
by
Dr. SURENDRA H J
PROFESSOR & HEAD
Dept. of CIVIL Engineering
ATRIA Institute of Technology, Bengaluru-560024
surendra@atria.edu, Mob.no: 9945015853
Participants


Optimizing Disaster Response with AI Systems
Coordinating Emergency Resources
AI can analyze real-time data to deploy emergency responders, vehicles, and supplies more efficiently, reducing response times and improving outcomes.
Automating Triage and Aid Distribution
AI-powered systems can prioritize and allocate medical aid, food, and other critical resources to those most in need during disaster scenarios.
Enhancing Situational Awareness
AI-enabled sensors and computer vision can provide disaster response teams with real-time, comprehensive situational awareness to guide their decision-making.
Meeting chat
Feedback link is shared
kindly feel the link
Last read
@all, Dear sir/ Madam, If you any queries related to the presentation you are requested to post the questions in the chat box or requested to click on the raise hand option in the M S Team app at the end of the session.
Day 1_Session 1_Feedback Link

Session – 3

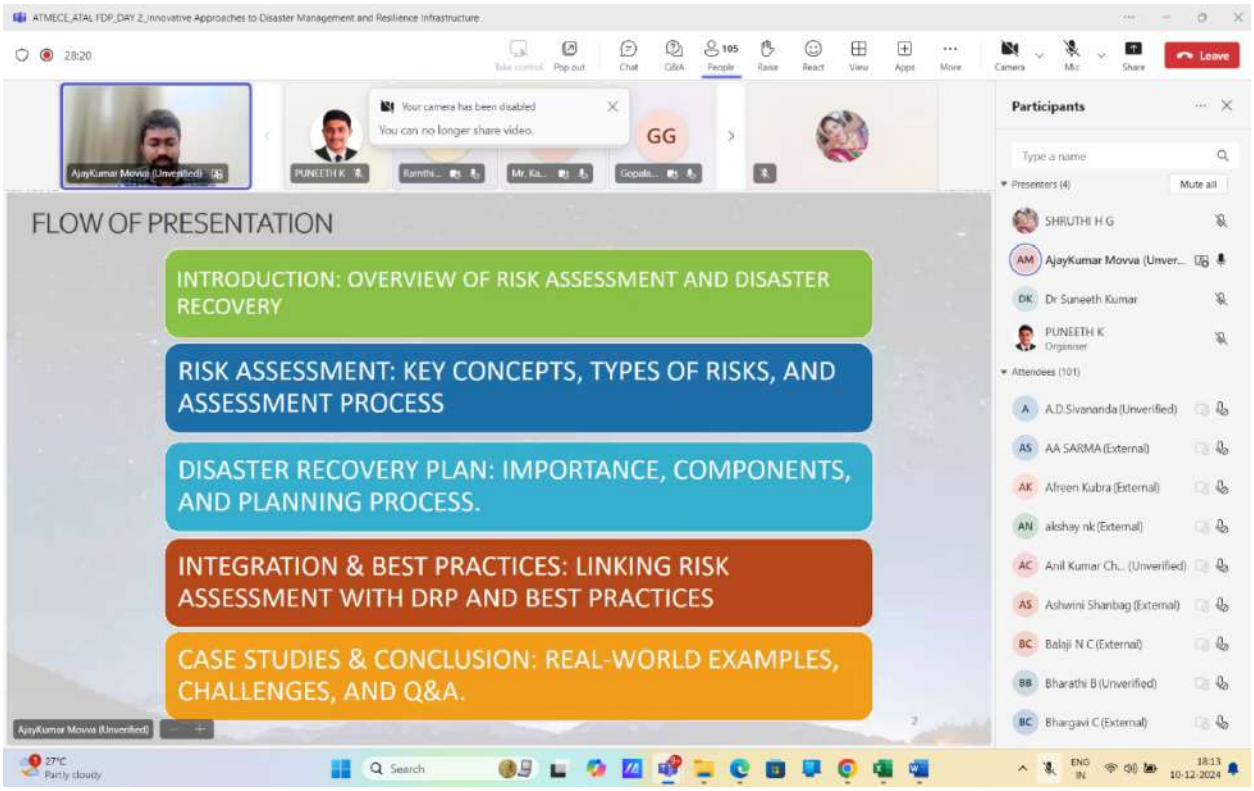
Mr. Ajay Kumar Movva
Manager EHS,
Kalpataru International project Ltd.,
Nigeria

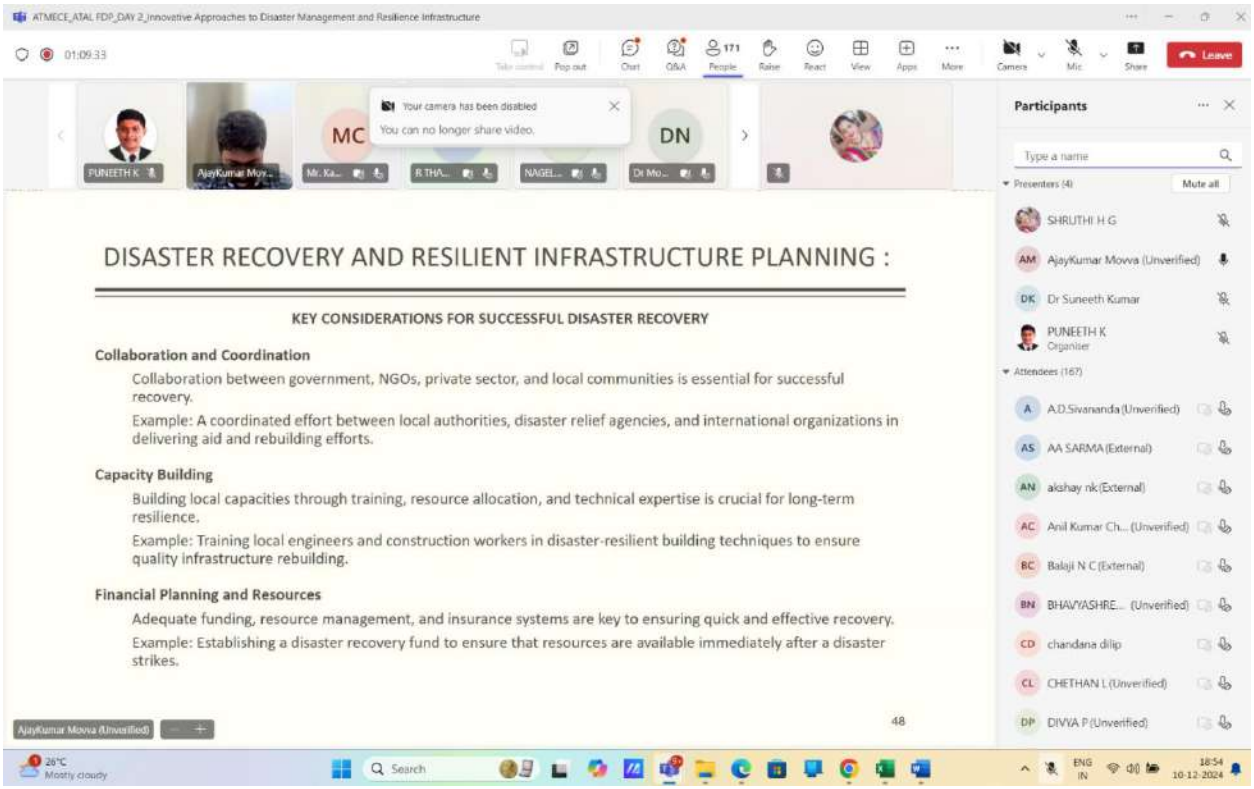
Mr. Ajay Movva is a professional with over 13 years of experience in the Health, Safety, Environment, and Fire (HSEF) domain, having worked on a wide range of infrastructure projects across India, UAE, and Africa. Throughout his career, Ajay has been involved in diverse projects, including seaports, nuclear power plants, underground and elevated metro systems, as well as power transmission and substations. His expertise spans the implementation and management of safety protocols, risk assessments, environmental compliance, and emergency response measures.

Risk assessment and disaster recovery plans

Mr. Ajay Kumar Movva started his presentation by explaining the Risk assessment and disaster recovery plans which are critical components of effective disaster management, focusing on identifying potential hazards, evaluating their impact, and preparing strategies to mitigate risks. Risk assessment involves systematically analyzing environmental, social, and economic factors to determine the probability and severity of disaster events such as floods, earthquakes, or industrial accidents. By assessing vulnerabilities, organizations and governments can prioritize resources and develop tailored strategies for disaster prevention and preparedness. This process includes creating risk maps, understanding historical data, and evaluating the capacity of infrastructure and local communities to withstand and recover from disasters.

Disaster recovery plans are designed to restore normalcy after a disaster, focusing on the swift and efficient recovery of essential services, infrastructure, and communities. A comprehensive disaster recovery plan includes emergency response protocols, resource mobilization, and recovery timelines to minimize downtime and reduce the long-term impact on communities. It involves coordination between local authorities, emergency services, and humanitarian organizations to provide relief and rehabilitate affected areas. The recovery plan also includes strategies for rebuilding infrastructure, restoring economic activities, and supporting the mental and physical well-being of the affected populations. Effective disaster recovery ensures that communities not only recover from the immediate impacts but also build resilience against future events.


ATMECE_ATAL FDP_DAY 2_Innovative Approaches to Disaster Management and Resilience Infrastructure
Participants
FLOW OF PRESENTATION
INTRODUCTION: OVERVIEW OF RISK ASSESSMENT AND DISASTER RECOVERY
RISK ASSESSMENT: KEY CONCEPTS, TYPES OF RISKS, AND ASSESSMENT PROCESS
DISASTER RECOVERY PLAN: IMPORTANCE, COMPONENTS, AND PLANNING PROCESS.
INTEGRATION & BEST PRACTICES: LINKING RISK ASSESSMENT WITH DRP AND BEST PRACTICES
CASE STUDIES & CONCLUSION: REAL-WORLD EXAMPLES, CHALLENGES, AND Q&A.


ATMECE_ATAL FDP_DAY 2_Innovative Approaches to Disaster Management and Resilience Infrastructure
Participants
DISASTER RECOVERY AND RESILIENT INFRASTRUCTURE PLANNING :
KEY CONSIDERATIONS FOR SUCCESSFUL DISASTER RECOVERY
Collaboration and Coordination
Collaboration between government, NGOs, private sector, and local communities is essential for successful recovery.
Example: A coordinated effort between local authorities, disaster relief agencies, and international organizations in delivering aid and rebuilding efforts.
Capacity Building
Building local capacities through training, resource allocation, and technical expertise is crucial for long-term resilience.
Example: Training local engineers and construction workers in disaster-resilient building techniques to ensure quality infrastructure rebuilding.
Financial Planning and Resources
Adequate funding, resource management, and insurance systems are key to ensuring quick and effective recovery.
Example: Establishing a disaster recovery fund to ensure that resources are available immediately after a disaster strikes.
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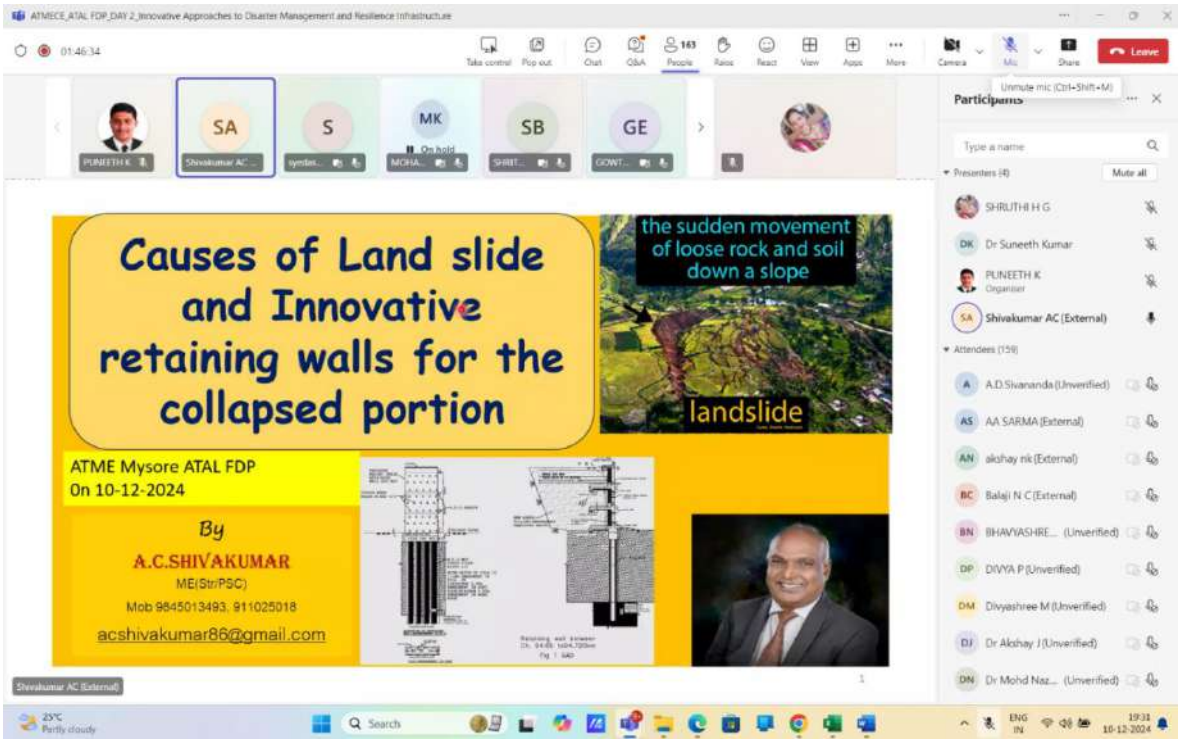
Session – 4

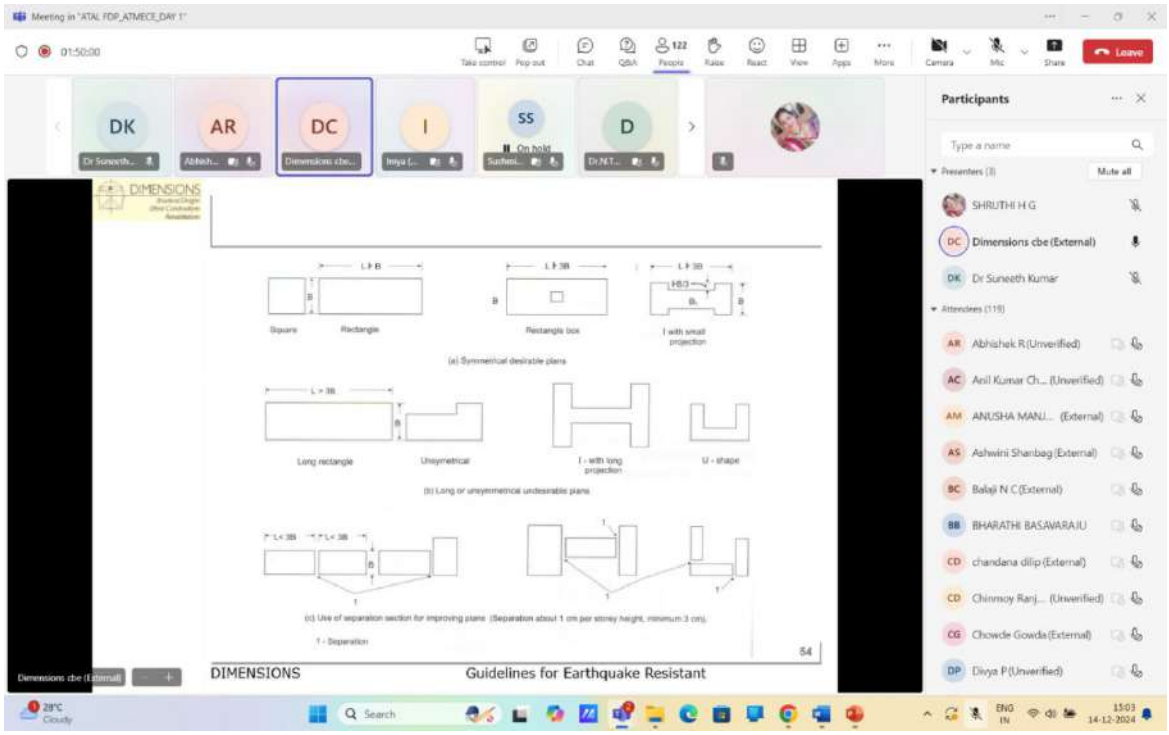
Mr. A C Shivakumar
Design Academy
Consulting Civil Engg,
Bengaluru.

Mr. A C Shivakumar Completed M. E. in Pre-stressed concrete from Bangalore University. He is working as consultant for Bridges, Rigid pavements, Deep excavations, Design Academy Consulting Civil Engineers, Bangalore. He has received Eminent Engineer 2022 award by ACCE(I), Bangalore Centre., ACC(I) award 2022 at Hyderabad for the work of slope protection at Ch 79 km on sampaje ghat road NH275 Madikeri to Mangalore. He has attended many training programmes and seminar attended. He has a membership of professional societies in Life member for Indian concrete institution, Life member for association of consulting civil engineers. He has given many talks in FDP programmes and attended seminars. He has extensively involved in structural design of major and minor bridges, bridge hydrology, and design of foundations and restoration of bridges.

Causes of landslides and innovative retaining walls for the collapsed portion

Mr. A C Shivakumar started his presentation with the concepts of landslides which are primarily caused by a combination of natural and human-induced factors, including heavy rainfall, earthquakes, volcanic activity, deforestation, and soil erosion. When the stability of a slope is compromised by these factors, it can lead to the collapse of soil, rocks, and debris down a slope. Additionally, human activities such as construction, mining, and poor land-use practices can exacerbate the risk of landslides by disturbing natural terrain and drainage patterns. To prevent further damage and mitigate the risk of future landslides, innovative retaining walls have been developed. These walls, made from materials like reinforced concrete, geogrids, and soil nails, help stabilize weakened slopes by absorbing and redistributing the forces acting on them. Advanced designs, including modular retaining walls and green walls, not only provide structural support but also enhance the environmental resilience of slopes, promoting better water drainage and vegetation growth, which further reduces erosion and stabilizes the terrain.


Causes of Land slide and Innovative retaining walls for the collapsed portion
the sudden movement of loose rock and soil down a slope
landslide
ATME Mysore ATAL FDP
On 10-12-2024
By
A.C.SHIVAKUMAR
ME(Str/PSC)
Mob 9845013493, 911025018
acshivakumar86@gmail.com


DIMENSIONS
Guidelines for Earthquake Resistant
54

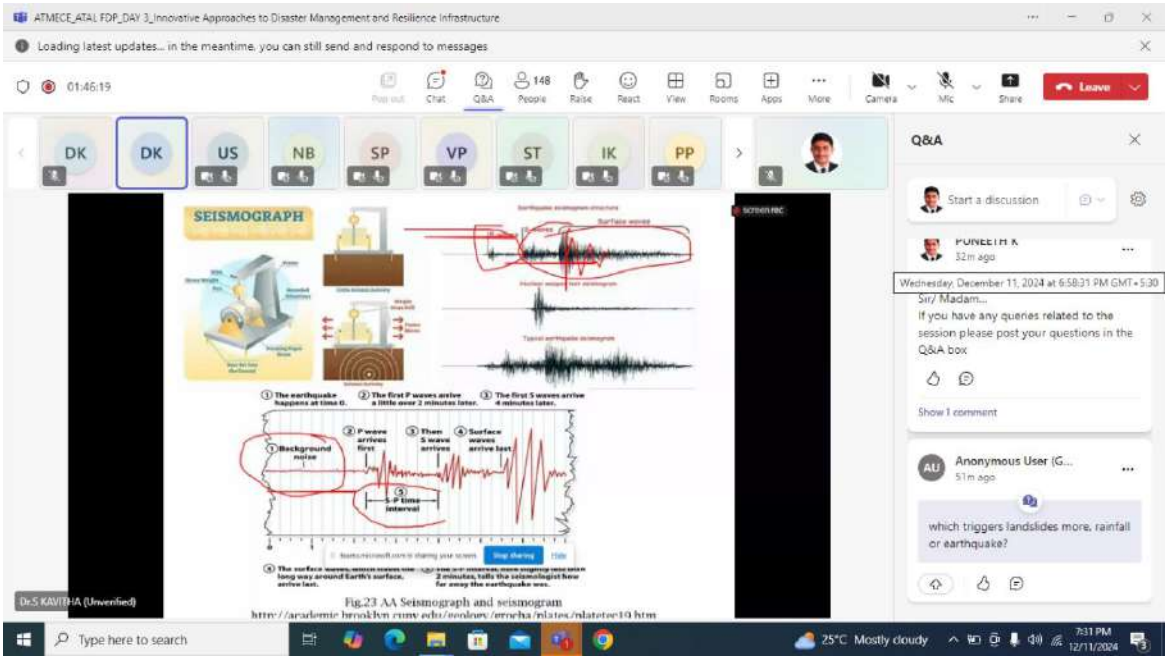
Session – 5

Dr. S. Kavitha
Professor & HOD,
Dept. of CE,
Dr. Ambedkar Institute o
Technology, Bengaluru

Dr. Kavitha S, presently working as a professor & HOD, Department of Civil Engineering, Dr. Ambedkar Institute of technology, Bangalore. She has an overall 17.7 years, 13 years experience in Teaching for engineering, post graduates and research scholars and 4.7 years experience in designing, estimating, drafting and structural engineering works. She has a life membership in professional bodies as in Indian Society for Technical Education, New Delhi, The Institution of Engineers (India) – Calcutta and International Institute of Research in Multidisciplinary. She has received BEST PAPER AWARD in international conference on research & developments in engineering, pharmacy & management - 5th ICRDEPM-2021 on June 2021. GREEN WOMEN ACHIEVER AWARD declared On Women Day 2021 For Green Contribution in Category "Built Environment" By Institution of Green Engineers, Chennai on March 2021. She has become session chair in many National and International conferences, delivered lecturers in many seminars. Published papers in many conferences and received funding for patent publications.

Earthquake disaster management

Dr. S Kavitha started her session with brief explanation of concept of earthquake disaster management involves a coordinated approach to mitigate the impact of seismic events through preparedness, response, recovery, and risk reduction strategies. Preparedness includes educating communities about earthquake risks, developing early warning systems, and ensuring that buildings and infrastructure are designed to withstand seismic forces. During an earthquake, immediate response efforts focus on search and rescue operations, medical care, and ensuring the safety of affected populations. Emergency teams, including local authorities and humanitarian organizations, work to provide essential services such as food, water, and shelter. Post-disaster recovery involves rebuilding infrastructure, restoring livelihoods, and offering psychological support to survivors. Risk reduction measures, such as seismic retrofitting of buildings, land-use planning, and enforcing construction codes, help minimize the damage caused by future earthquakes. Effective earthquake disaster management relies on early preparedness, rapid response, and long-term resilience-building efforts to safeguard lives and communities.


ATMECE_ATAL FDP_DAY 3_Innovative Approaches to Disaster Management and Resilience Infrastructure
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SEISMOGRAPH
Fig.23 AA Seismograph and seismogram
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If you have any queries related to the session please post your questions in the Q&A box
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which triggers landslides more, rainfall or earthquake?
Dr.S KAVITHA (Unverified)
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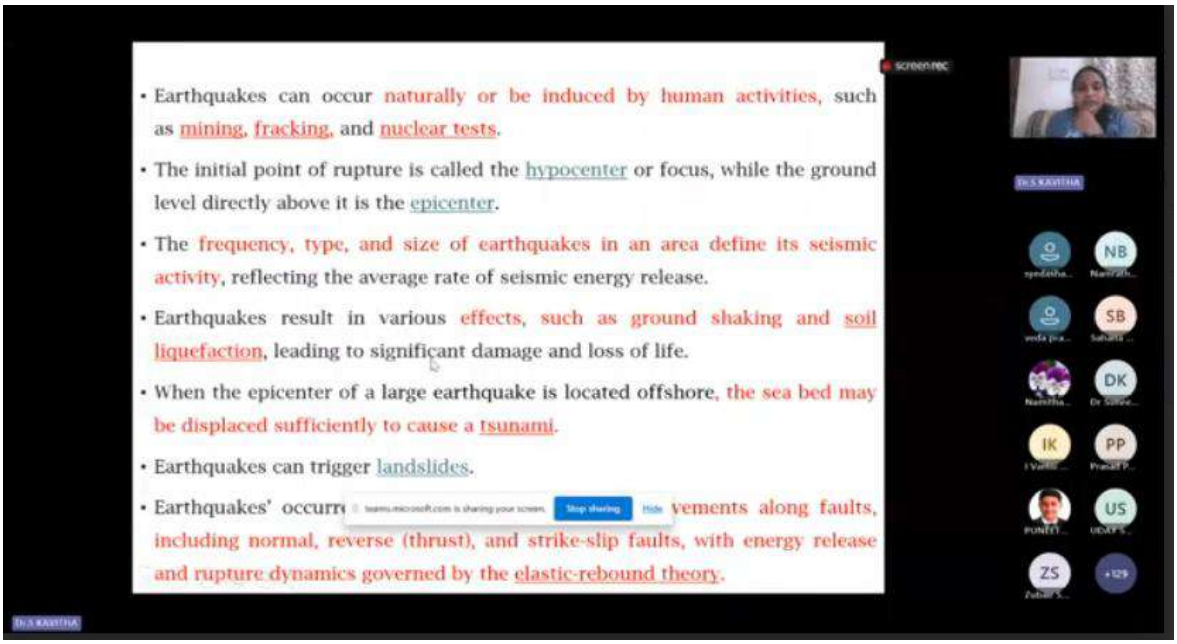
• Earthquakes can occur naturally or be induced by human activities, such as mining, fracking, and nuclear tests.
• The initial point of rupture is called the hypocenter or focus, while the ground level directly above it is the epicenter.
• The frequency, type, and size of earthquakes in an area define its seismic activity, reflecting the average rate of seismic energy release.
• Earthquakes result in various effects, such as ground shaking and soil liquefaction, leading to significant damage and loss of life.
• When the epicenter of a large earthquake is located offshore, the sea bed may be displaced sufficiently to cause a tsunami.
• Earthquakes can trigger landslides.
• Earthquakes' occurr
Stop sharing
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vements along faults, including normal, reverse (thrust), and strike-slip faults, with energy release and rupture dynamics governed by the elastic-rebound theory.
screen.rec
Dr.S KAVITHA
NB
SB
DK
IK
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US
ZS

Session – 6

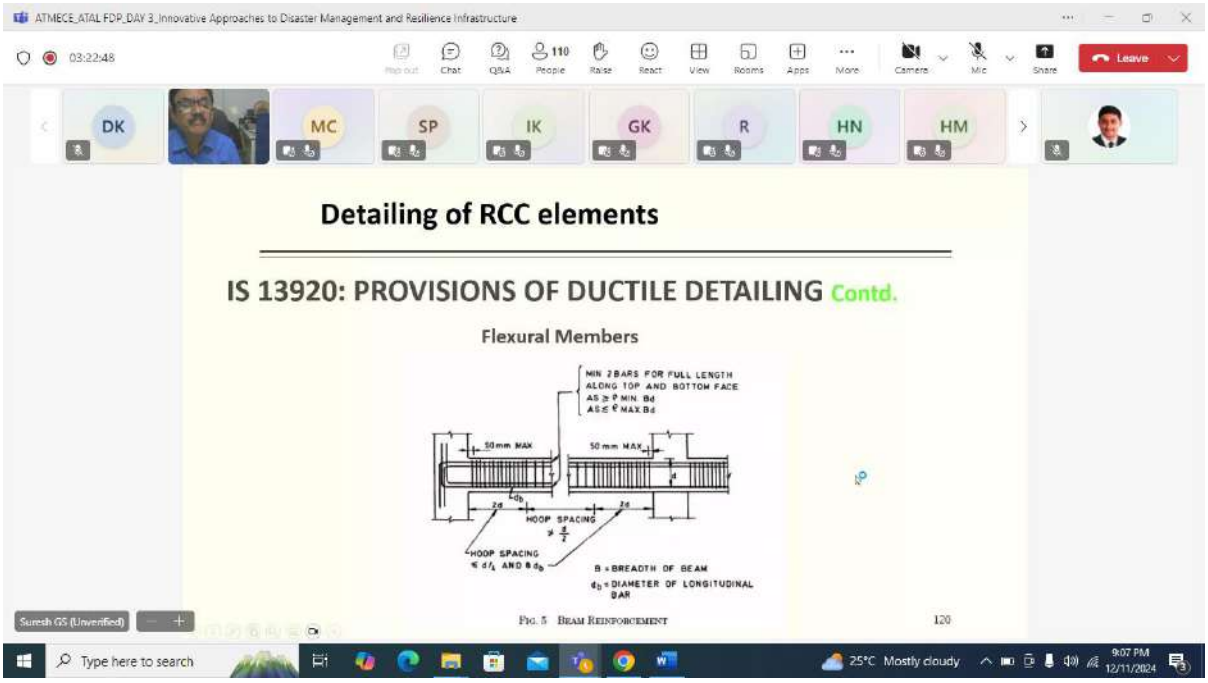
Dr. G. S Suresh
MD Skylark Engineering,
Consultant, Bengaluru

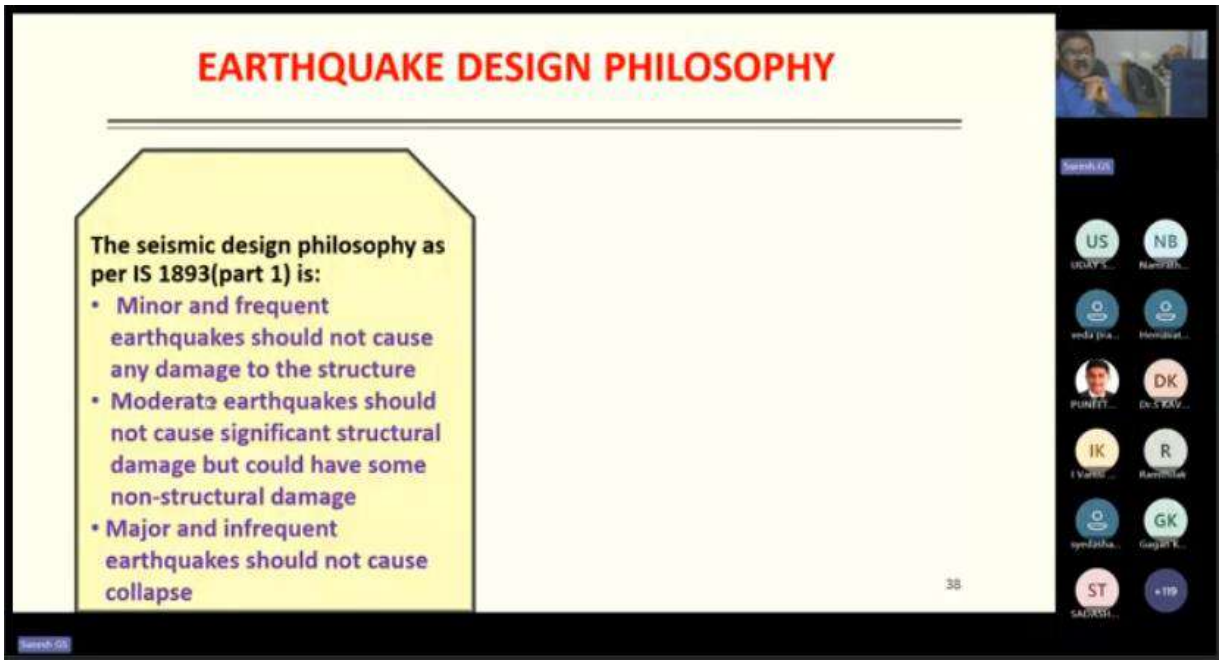
Dr. G. S Suresh completed his BE in Civil Engineering, NIE , Mysuru, M.Tech in structural Engineering in Indian Institute of Technology, Bombay and Ph.D in Structural Engineering, Indian Institute of Science, Bangalore. He is working as a Professor in NIE, Mysuru. He has a teaching experience of 37 years, he has a research guidence of masters 15 students, Msc 1 students and Ph.D 5 students. He has published 102 papers, carried out 7 sponsored projects, published 3 books and recieved 8 awards.

He is a Chairman for Mysore center during 2013-15. introduced many new activities for professionals and students, viz., Engineer's day, Design Safe, RAGI, Ultratech-ACCE Awards, M.Tech Thesis award, Quiz for PG students and for UG Students (CATALYST) .

Detailing for earthquake resistant design of RCC structures

Dr. G S Suresh started his presentation with the concept of earthquake-resistant design of Reinforced Cement Concrete (RCC) structures focuses on ensuring that buildings and infrastructure can withstand seismic forces without collapsing or suffering significant damage. Key design principles include ensuring sufficient strength, ductility, and flexibility in the structure. RCC structures are reinforced with steel bars to enhance tensile strength, and proper detailing is essential to ensure these reinforcements work effectively during an earthquake. This includes proper placement of reinforcement bars, using adequate cover to prevent corrosion, and designing joints and connections that allow for energy dissipation and deformation without failure. The building's foundation is also designed to resist seismic forces, with provisions like deep foundations or base isolators to absorb ground movement. Additionally, the structure is designed to distribute forces uniformly across its elements, using shear walls, bracing, and moment-resisting frames to resist lateral forces. Modern design codes, like those based on seismic hazard maps, guide engineers to incorporate these features into the RCC structure to enhance its earthquake resilience, ensuring safety during seismic events.


ATMECE_ATAL FDP_DAY 3_Innovative Approaches to Disaster Management and Resilience Infrastructure
Leave
Detailing of RCC elements
IS 13920: PROVISIONS OF DUCTILE DETAILING Contd.
Flexural Members
MIN 2 BARS FOR FULL LENGTH ALONG TOP AND BOTTOM FACE
50 mm MAX
50 mm MAX
HOOP SPACING
HOOP SPACING
B = BREADTH OF BEAM
DIAMETER OF LONGITUDINAL BAR
FIG. 5 BEAM REINFORCEMENT
120
Suresh GS (Unverified)
Type here to search
25°C Mostly cloudy
9:07 PM
12/11/2024


EARTHQUAKE DESIGN PHILOSOPHY
The seismic design philosophy as per IS 1893(part 1) is:
• Minor and frequent earthquakes should not cause any damage to the structure
• Moderate earthquakes should not cause significant structural damage but could have some non-structural damage
• Major and infrequent earthquakes should not cause collapse
38

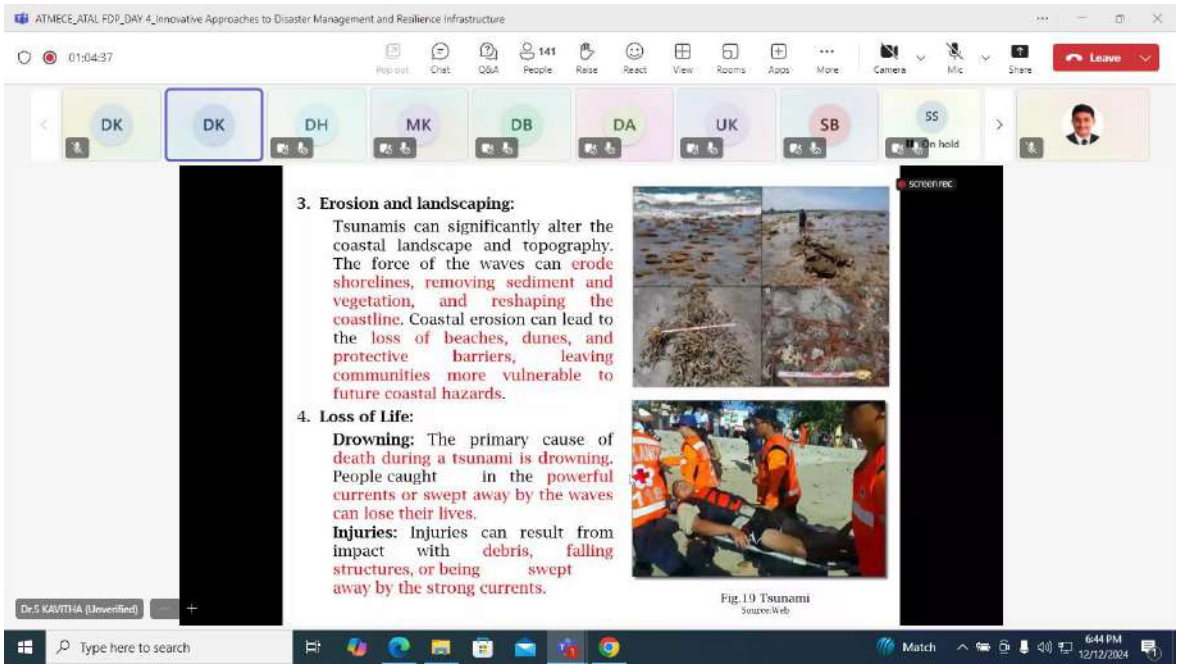
Session – 7

Dr. S. Kavitha
Professor & HOD,
Dept. of CE,
Dr. Ambedkar Institute of Technology, Bengaluru

Dr. Kavitha S, presently working as a professor & HOD, Department of Civil Engineering, Dr. Ambedkar Institute of technology, Bangalore. She has an overall 17.7 years, 13 years experience in Teaching for engineering, post graduates and research scholars and 4.7 years experience in designing, estimating, drafting and structural engineering works. She has a life membership in professional bodies as in Indian Society for Technical Education, New Delhi, The Institution of Engineers (India) – Calcutta and International Institute of Research in Multidisciplinary. She has received BEST PAPER AWARD in international conference on research & developments in engineering, pharmacy & management - 5th ICRDEPM-2021 on June 2021. GREEN WOMEN ACHIEVER AWARD declared On Women Day 2021 For Engineers, Chennai on March 2021. She has become session chair in many National and International conferences, delivered lecturers in many seminars. Published papers in many conferences and received funding for patent publications.

Tsunami hazards and protective measures

Dr. S Kavitha started her session by giving brief details of about the tsunami hazards which are a significant coastal threat, primarily caused by undersea earthquakes, volcanic eruptions, or landslides that displace large volumes of water, generating massive waves that can devastate coastal areas. These waves travel at high speeds across oceans and gain immense height as they approach shallow waters near shorelines. Tsunami hazards include flooding, destruction of infrastructure, loss of life, and long-term environmental damage. To mitigate these risks, protective measures include the development of early warning systems that can detect seismic activity and monitor oceanic changes to provide timely alerts to coastal populations. Coastal communities also implement evacuation plans, establishing tsunami evacuation routes and safe shelters. Additionally, tsunami-resistant infrastructure such as elevated buildings, seawalls, and flood barriers are constructed to reduce damage, while public education programs promote awareness and preparedness. Coastal zoning regulations help restrict development in high-risk areas, reducing exposure to tsunamis. Effective disaster management and coordinated response efforts are crucial in minimizing the impact of tsunamis and ensuring the safety of affected communities.



Session – 8

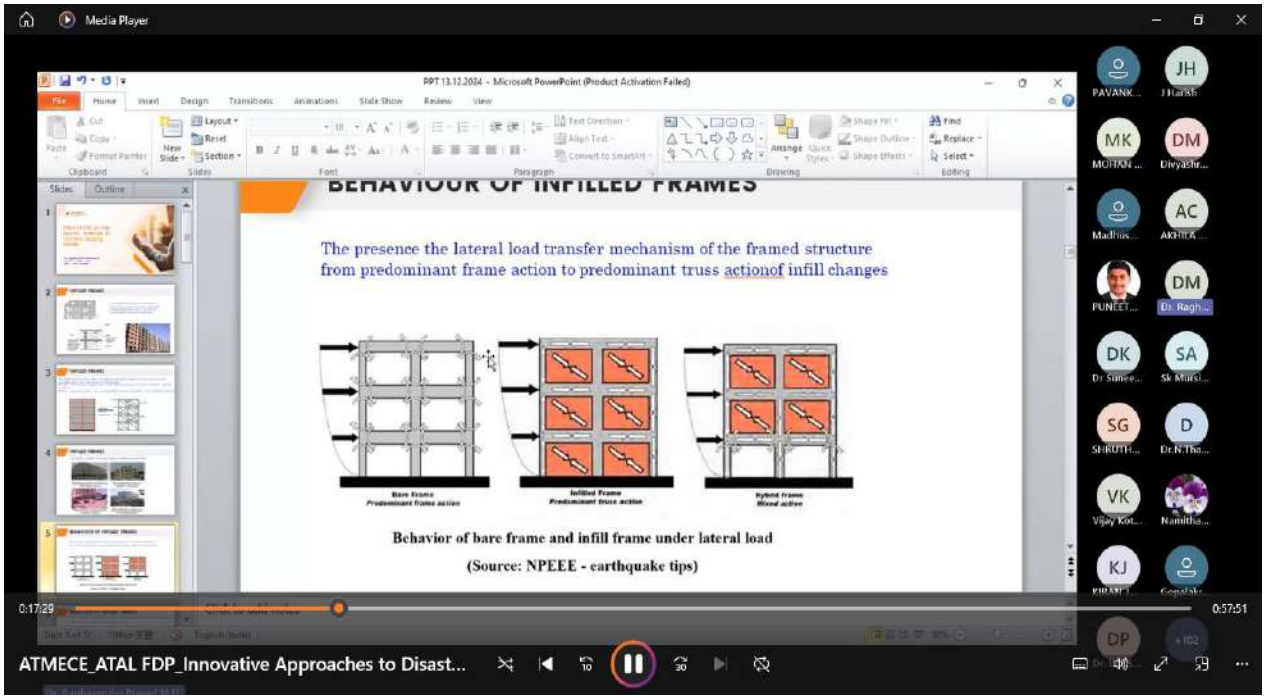
Dr. Raghavendra Prasad
MD, Bhamy's construction,
Mysuru

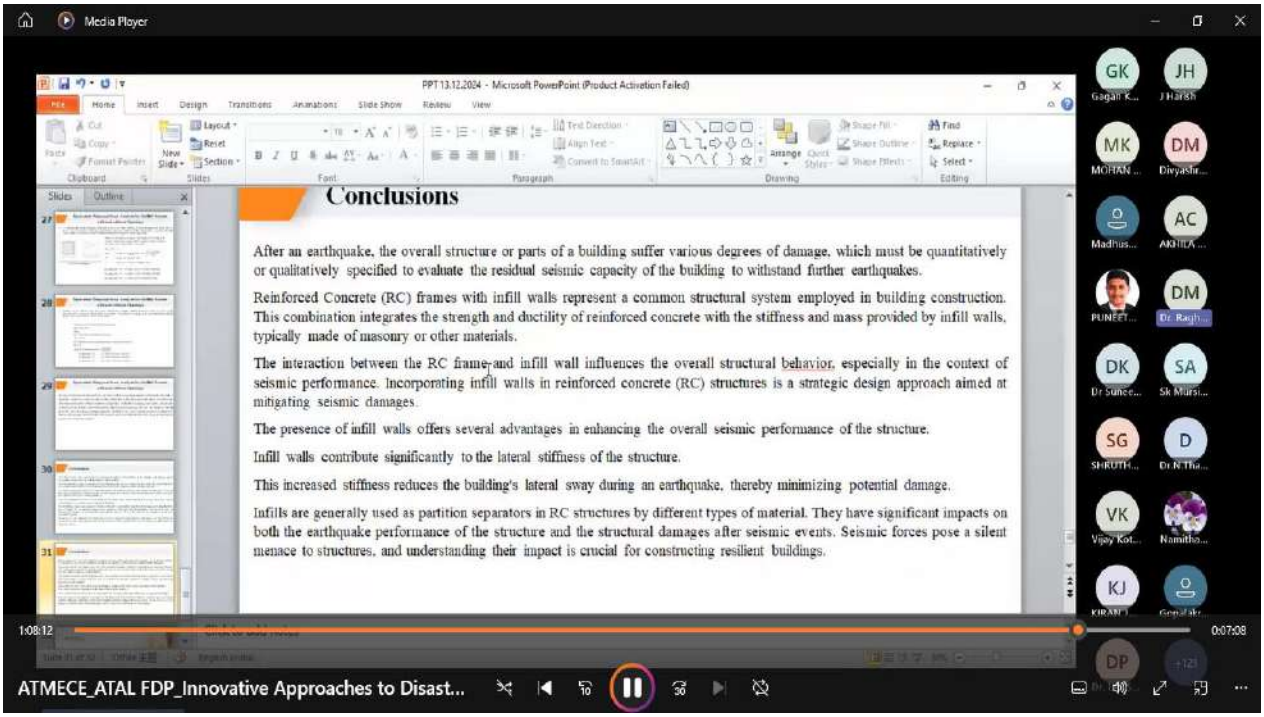
Dr. Raghavendra Prasad obtained his Bachelor's Degree in Civil Engineering in 1998 from University of Mysore and Master's Degree in Industrial structures from VTU, Belagavi in 2001. In the year 2017, he was awarded Ph.D. (Structures) in the field of Structural Engineering from VTU, Belagavi. Brings in outstanding achievements and experience in Civil and Structural Engineering fields, holding key positions in the private sector. He has provided technical and management leadership expertise in conceptualizing strategies and synchronizing numerous work projects across the country. He pursued his passion for teaching by mentoring students at GSSS Institute of Engineering & Technology for Women, Mysuru as Assistant Professor. His consolidated work experience encompasses business development, planning, piloting, designing, construction and commissioning of Industrial projects across India.

Effects of infills on seismic resilience of moment resisting frames

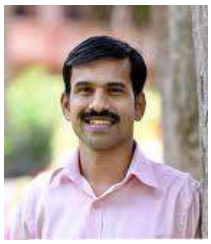
Dr. Raghavendra prasad started his session with the concept of explaining the presence of infills in moment-resisting frames (MRFs) can significantly impact the seismic resilience of a structure, both positively and negatively. Infilled walls, typically made of brick or concrete, alter the dynamic behavior of MRFs by increasing the overall stiffness and strength of the frame, which can enhance resistance to lateral seismic forces. However, the infills can also introduce challenges, such as creating unintended load paths, increasing the risk of brittle failure, or causing the infills to act as rigid elements that interfere with the frame's intended flexible response during an earthquake. In some cases, infills can lead to sudden, non-ductile failures that compromise the overall stability of the structure. Properly accounting for the effects of infills in seismic design is essential, requiring

engineers to consider the interaction between the infill and frame, ensuring that the infill does not adversely affect the performance of the moment-resisting frame. This involves designing for adequate flexibility, ensuring connections between the frame and infill are appropriately detailed, and possibly reducing the rigidity of infills through materials or techniques that enhance the structure's ability to dissipate seismic energy without catastrophic failure.





Session – 9

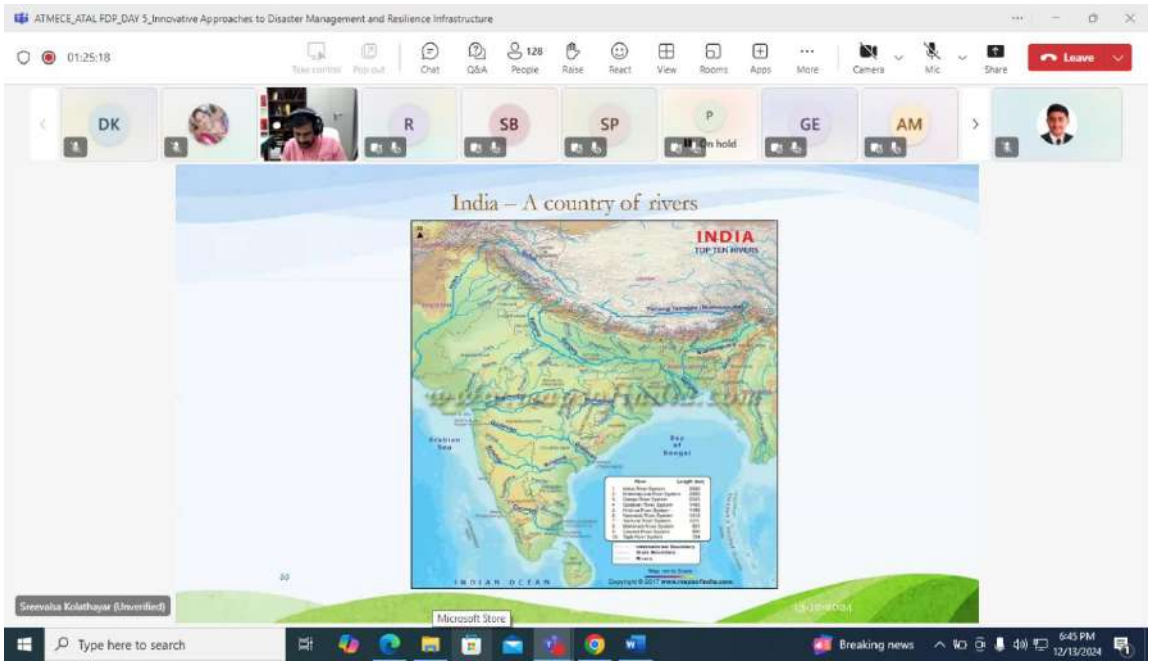


Dr. Sreevalsa
Associate professor,
NITK, Surathkal

Dr. Sreevalsa Kolathayar is Professor-In-Charge of the Institute Innovation Council (IIC) and an Associate Professor in the Department of Civil Engineering at the National Institute of Technology Karnataka (NITK), one of the premier technical institutions in India. Dr. Sreevalsa authored/edited 21 books, published over 150 research articles, and holds five patents. His books are globally recognized and used as reference/textbooks in prestigious institutions such as MIT, Stanford, IITs & NITs. He received several awards and honors for my contributions, including the IEI Young Engineer Award, the South India's Most Inspiring Young Teacher Award, and the ISET DK Paul Research Award. Dr. Sreevalsa is involved in various professional and academic activities, such as serving on the editorial boards of international journals, the technical committees of ASCE Geo-Institute, and the working groups of BIS CED 39. He has twelve funded R&D projects worth INR 10 crores and completed over 100 civil engineering consultancy projects. His goal is to positively impact society and the environment through innovation and research in civil engineering.

Geotechnical schemes for net zero targets

Dr. Sreevalsa started the session by giving the information about the Geotechnical schemes which play a crucial role in achieving net-zero targets by addressing the environmental impacts of construction and promoting sustainable land use practices. These schemes focus on optimizing the use of soil and foundation systems to reduce carbon emissions and enhance energy efficiency in buildings and infrastructure. Techniques such as ground-source heat pumps, which leverage the earth's stable temperature for heating and cooling, contribute to reducing energy consumption. Geotechnical solutions like the use of low-carbon materials (e.g., recycled aggregates or geo-materials) for foundations, coupled with sustainable land management practices, help minimize the carbon footprint of construction projects. Additionally, designing foundations with enhanced soil stabilization methods reduces the need for energy-intensive materials like concrete and steel. By incorporating these sustainable geotechnical methods, engineers can significantly reduce the environmental impact of construction, support energy efficiency, and contribute to achieving net-zero carbon goals, all while ensuring structural integrity and long-term sustainability.



Session – 10

Dr. S K Prasad
Professor & HOD
VVCE, Mysuru

Dr. S. K. Prasad is the Professor and Head of Civil Engineering at Vidyavardhaka College of Engineering, previously serving as a Professor at Sri Jayachamarajendra College of Engineering, Mysuru. With over 39 years of teaching and research experience, he holds a Bachelor's degree in Civil Engineering from the University of Mysore, where he graduated with a first rank in 1982, earning four gold medals. He also holds a Master's degree in Geotechnical Engineering from the Indian Institute of Technology, Kanpur, obtained in 1985, and a doctoral degree from the University of Tokyo, Japan, funded by an Asian Development Bank scholarship. He has delivered invited lectures in Japan, Malaysia, USA, and Singapore, and has chaired and served as a keynote speaker at numerous conferences. Prasad developed the Earthquake Engineering Laboratory at his college, designing and fabricating a manual shaking table and weight sounding equipment. Prasad was a member of the National Technical Committee on Natural Disaster Management & Mitigation of the Indian Geotechnical Society and is a member of Technical Committee TC 203 on Geotechnical Hazards & Earthquake related problems of the International Society of Soil Mechanics & Geotechnical Engineering.

Challenges in making infrastructure resilience

Dr. S K Prasad started his session with the concept of building infrastructure resilience faces several challenges, including limited funding, outdated designs, and inadequate risk assessments. Many existing infrastructures were not built to withstand extreme events like earthquakes, floods, or hurricanes, leaving them vulnerable to damage. Updating and retrofitting these structures often

requires significant investment and time, which can be a barrier for governments or private entities. Additionally, incorporating resilience into new infrastructure requires advanced planning, accurate hazard assessments, and the use of durable, sustainable materials that may be more expensive than traditional options. Climate change and urbanization further complicate the issue, as they introduce more unpredictable and severe weather patterns, stressing existing systems. The lack of standardized policies, regulations, and skilled labor in some regions also hinders the implementation of resilient infrastructure solutions. Overcoming these challenges requires a coordinated effort among governments, engineers, and communities to prioritize resilience, secure funding, and ensure long-term sustainability in infrastructure development.

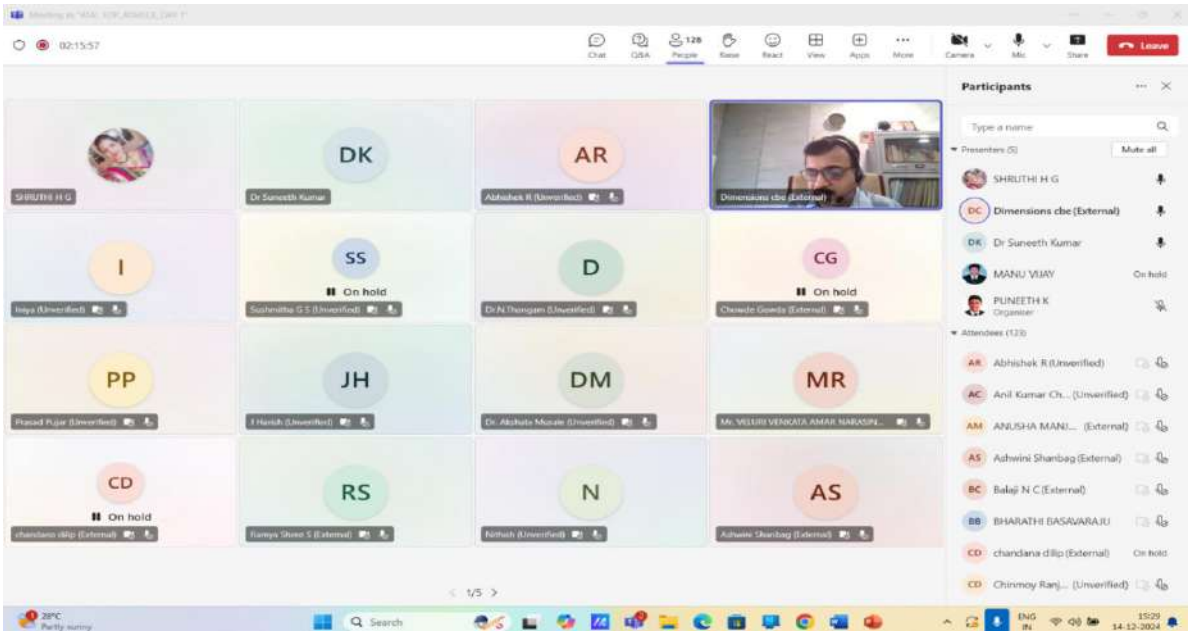
Session – 11

Dr. Sudhahar A
MD, Dimensions Consultants, Bengaluru

Dr. A. Sudhahar is a Chartered Engineer, practicing as a Civil Engineering consultant offering Structural, Architectural and Project Management consultancy services in and outside India through his consultancy firm "DIMENSIONS". He is also the technical director for b-bams pvt Ltd, Mumbai, which offers Structural Audit, Repair, Rehabilitation and Retrofitting Services. Formerly, he was the Regional Head -Technical Services – South and West region- India, for ACC Cements Limited. He is presently the Chairman of the Indian Concrete Institute, Coimbatore Centre and the Chairman Elect for the Association of Consulting Civil Engineers (India), Coimbatore Centre

Designing of earthquake resilient structures

Dr. Sudhahar A gave a brief explaining on designing earthquake-resilient structures involves incorporating principles that ensure a building can withstand the seismic forces generated during an earthquake, minimizing damage and protecting occupants. The design process includes using materials with high strength and ductility, such as reinforced concrete and steel, to absorb and dissipate seismic energy. Key design elements include flexible, reinforced foundations, seismic braces, shear walls, and moment-resisting frames, which allow the structure to move with the ground motion rather than resist it, preventing structural failure. Additionally, proper detailing of connections and joints is critical to avoid brittle failure and enhance the building's ability to deform safely under stress. Seismic isolation techniques, like base isolators, may also be incorporated to decouple the building from ground motion, further improving resilience. Advanced structural analysis tools, informed by seismic hazard data, guide engineers in designing for the specific seismic risks of a region. These measures collectively contribute to the structural integrity and safety of buildings, reducing the potential for catastrophic damage and loss of life during an earthquake.



Session – 12

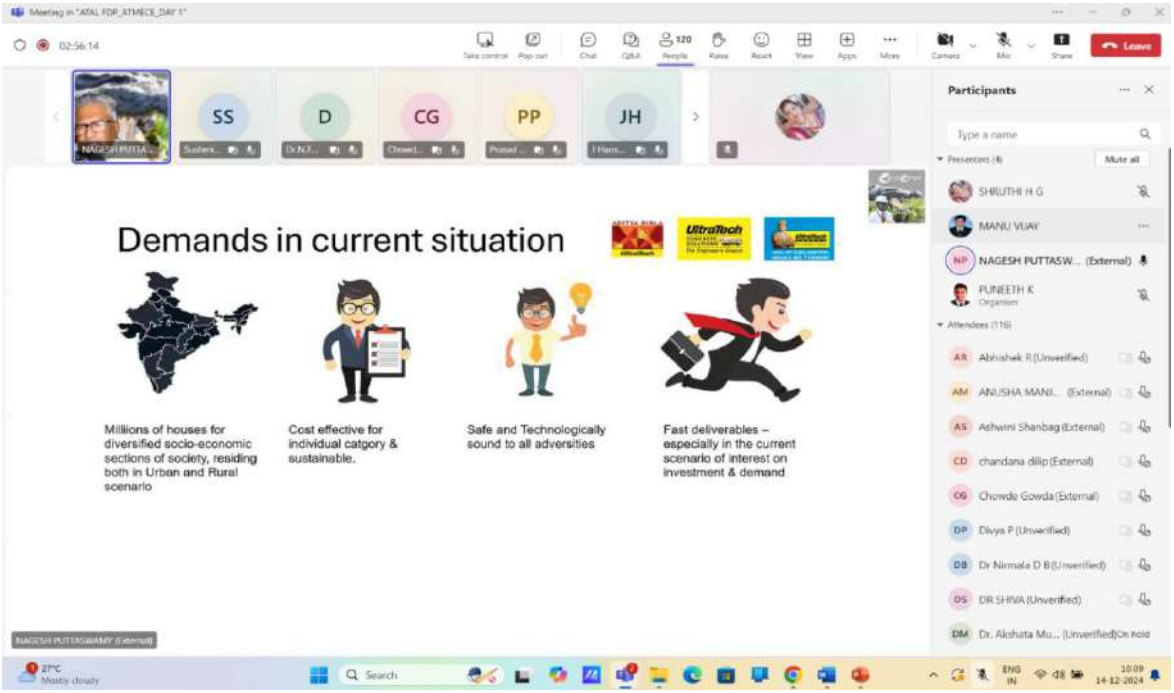
Mr. Nagesh Puttaswamy
Independent Civil Engg. Consultant, Bengaluru

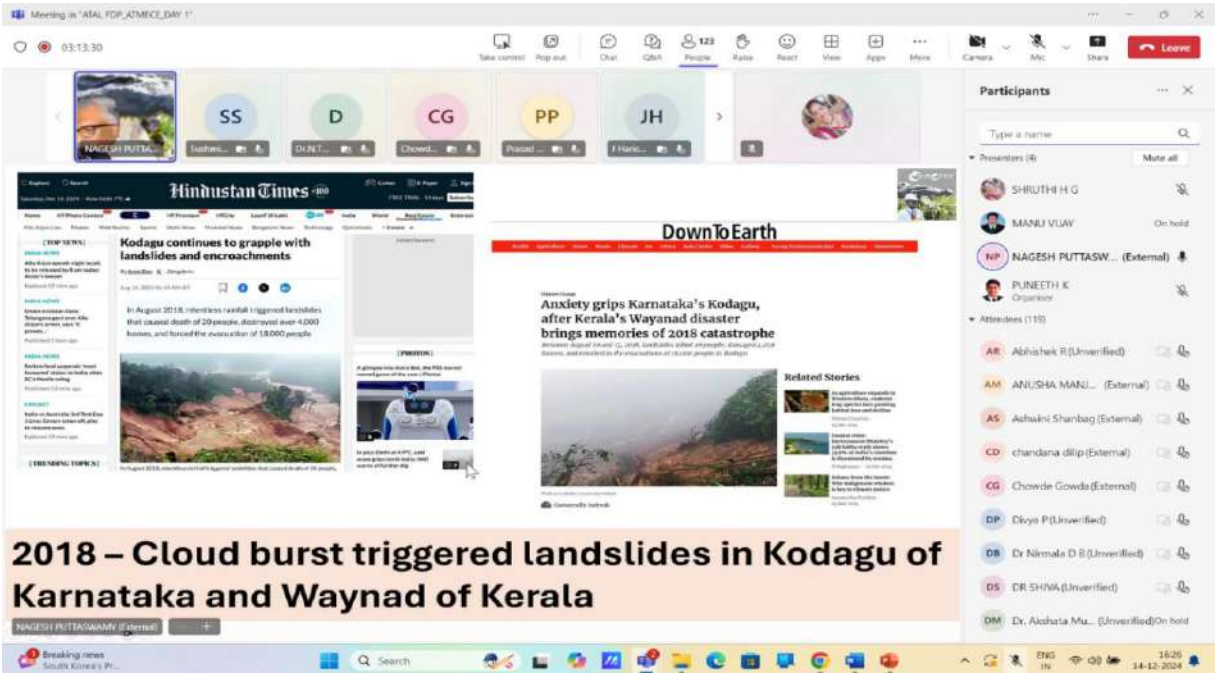
Mr. Nagesh Puttaswamy is a passionate Civil engineer working with concrete & construction as profession & involved with Crocodiles as a passion. Hence, he is popularly known as "ConCroc". Er. ConCroc Nagesh Puttaswamy assists engineering students in their dissertation works he has been involved in UG, PG and Doctoral dissertation works when students have taken research in Concrete and Concrete construction related projects. He has presented papers in many national and international seminars, conferences in India and outside of India. He is appreciated for his training session on the presentation skills, communication and orientation behavioral aspects for young professionals to equip them for professional life. He is the technical advisor and consultant for Nuance studio Bengaluru for the manufacture of UHPC products for architectural applications, he is involved with them in developing concrete and improvising their products. Er. Nagesh Puttaswamy is also a consultant for M/s SK SteelTech Pvt Ltd (SK SUPER TMT), mentor for the techno sales personnel of the company

Adopting construction for disaster prone area monolithic housing & Case studies

Mr. Nagesh Puttaswamy started his session with a detail explanation on adopting monolithic housing construction for disaster-prone areas offers a highly effective solution to minimize damage during natural disasters such as earthquakes, floods, and hurricanes. Monolithic structures, which are built using continuous, solid materials such as reinforced concrete or cast-in-place concrete, provide exceptional strength and stability, making them resistant to structural failure under extreme conditions. These buildings are designed to withstand lateral forces, including seismic movements,

by distributing loads evenly across their entire structure, reducing the risk of collapse. Case studies from earthquake-prone regions like Japan and Nepal highlight the success of monolithic housing in protecting lives and reducing repair costs. In Japan, for example, the adoption of reinforced concrete monolithic construction in residential buildings has proven to be highly effective in mitigating earthquake damage. Similarly, in flood-prone areas, elevated monolithic structures help prevent water damage, ensuring durability and safety. The integration of modern construction techniques and sustainable materials further enhances the resilience of these buildings, promoting long-term safety and reducing the vulnerability of communities in disaster-prone zones.





Session – 13

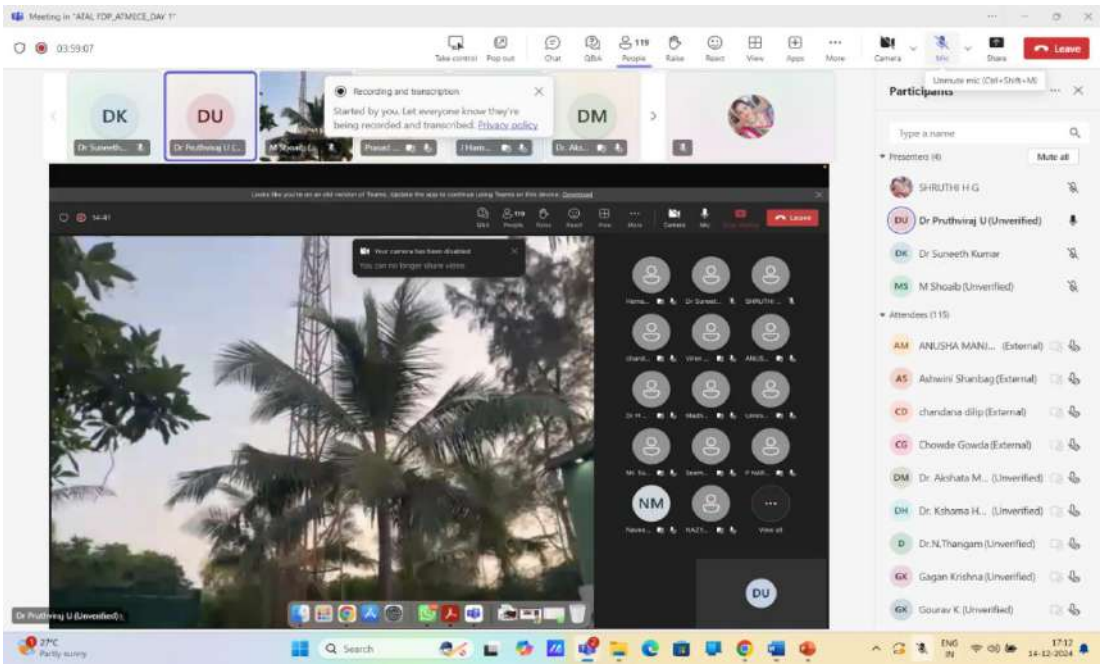
Dr. Pruthvi Raju
Professor, NITK,
Surathkal

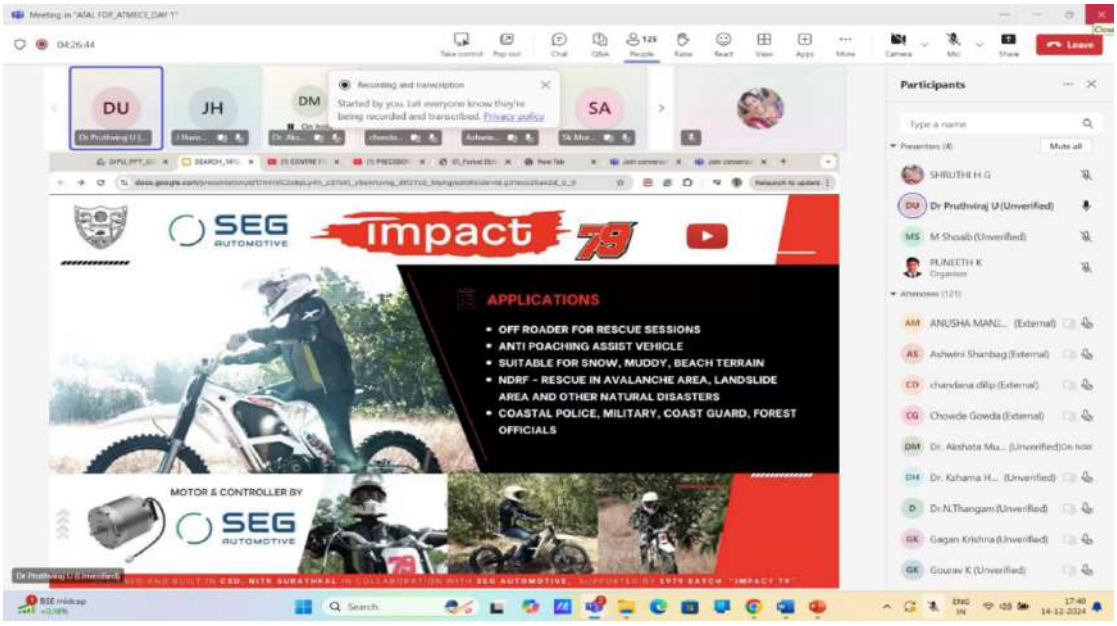
Dr. Pruthvi Raju is working as a associate professor in Department of Water Resources & Ocean Engineering National Institute of Technology Karnataka, Surathkal. He has completed 32 projects funded with 32 Cr, 20 journal paper publications, has published 20 papers in conferences, he has completed with 64 consultancy projects funded with 3.7 Cr and he has given talks in many more workshops and in seminars around 413. His research interest is towards structural analysis, Wave structured interactions, Open-source product development, wildlife conservation and in autonomous navigation systems.

System for emergency assistance, response and communication hub

A system for emergency assistance, response, and communication hub is critical for coordinating disaster management efforts and ensuring effective, timely relief during emergencies. It integrates various communication technologies and tools, such as satellite phones, radio networks, and mobile apps, to facilitate real-time information sharing between emergency responders, government agencies, and affected communities. The hub serves as a central point for gathering data on disaster impacts, coordinating rescue and relief operations, and distributing resources such as food, water,

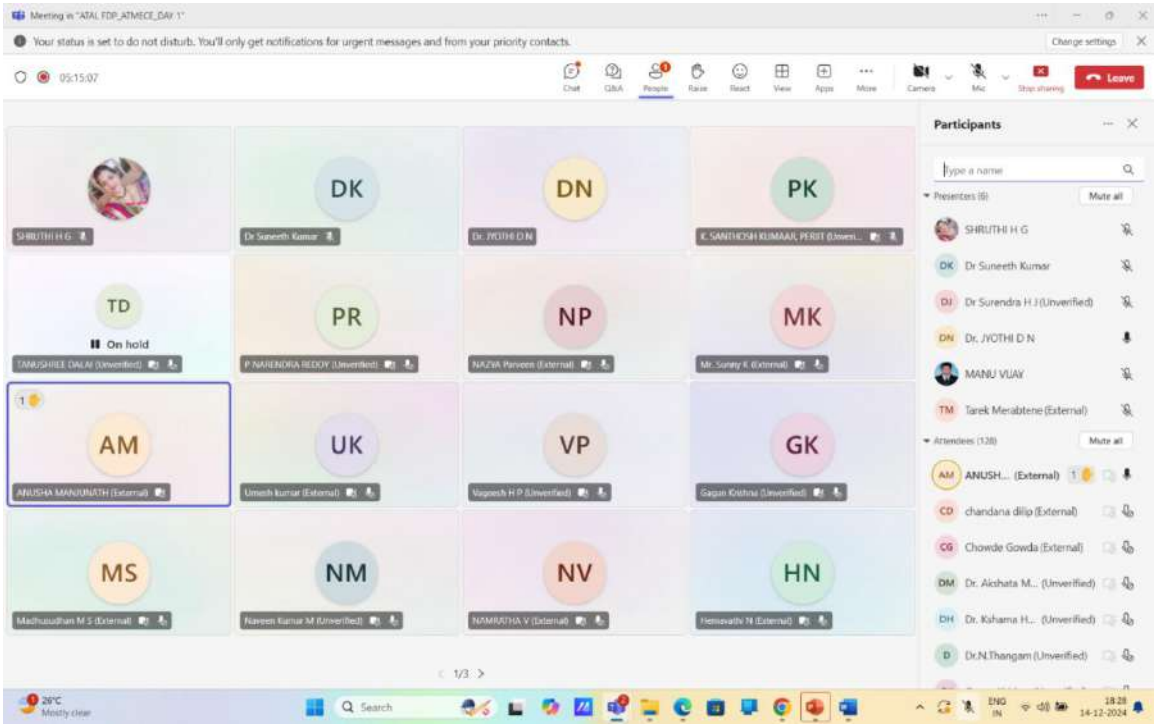
medical supplies, and shelter. It allows for the rapid deployment of emergency teams, ensuring that help reaches the affected populations as quickly as possible. The system also includes the use of advanced technologies like drones and GIS (Geographic Information Systems) to map affected areas, assess damage, and prioritize resources. By providing seamless communication and efficient resource management, these hubs help minimize the impact of disasters, improve response times, and ensure that recovery efforts are streamlined and effective.





Valedictory

Mr. Manu Vijay, Associate Professor & Head Department of Civil Engineering thanked all the participants for being the part of Six Day Online Faculty development program and insisted all the participants to provide the same support in the upcoming events from ATMECE. It was a great Initiative by ATAL Academy. We are thankful to AICTE for giving us this opportunity to conduct Six Day Online FDP for faculty members of technical institute of India, PhD scholars and Industry persons with free of cost. We got good response for registration as well as for the conduction of online FDP with very informative sessions from the eminent resource persons from India and Foreign.



Online FDP session video link:

https://drive.google.com/drive/folders/1oYqBKHexcSH2wMd1Ie3luJ7mNV2WumgM?usp=sharing

Publicity of online six day FDP link : https://atme.edu.in/event/aicte-sponsored-six-days-online-faculty-development-program

https://www.instagram.com/p/DDW_aAxopeV/?igsh=a3o3eDRrdW5hdnVq

https://www.instagram.com/p/DC1gy1qq22J/?igsh=aHhtZ3c2dmhjOXU3

Participants feedback video link:

https://youtu.be/iVa7SH5Yp9o?si=ANacOkRQyiKA5N1r

Signature of the Co-Ordinator
Department of Civil Engineering
ATME College of Engineering
Mysuru-570028

Signature of Head of the Institute
PRINCIPAL
ATME College of Engineering
13th KM Mysuru-Kanakapura-Bangalore Road
Mellahalli, MYSORE-570028