



Advances in Construction Technology and Management (ACTM-2021)

11th and 12th March, 2021

Organised by
Department of Civil Engineering College of Engineering Pune (COEP)

Schedule of ACTM 2021

Time	Day-I, 11-03-2021, Thursday - Schedule
9.00 am-10.00 am	Inauguration
10.00 am-10.30 am	Keynote Address by Dr. Rishi Gupta (University of Victoria, Canada)
10.30 am to 1.00 pm	Session-1 (Seven Parallel Themes)
1.00 pm to 1.30 pm	Lunch Break
1.30 pm-2.00 pm	Keynote Address by Er. Nitin Nyati
2.00 pm to 4.30 pm	Session-2 (Seven Parallel Themes)
4.30 pm-5.00 pm	Keynote Address by Dr. M. V. Reddy
5.00 pm to 6.30 pm	Session-3 (Five Parallel Themes)
	Day 1 Closing note
Time	Day-II, 12-03-2021, Friday - Schedule
9.30am -10.00am	Keynote Address by Prof. Yusuf A. Mehta (Rowan University, USA)
10.00am to 12.30pm	Session-4 (Seven Parallel Themes)
12.30 pm to 1.30 pm	Lunch Break
2.00 pm to 4.30 pm	Session-5 (Thought Provoking Session)
3.30 pm-4.00 pm	Industry Interaction Session
4.00 pm-4.30 pm	Valedictory Function

Advances in Construction Technology and Management (ACTM-2021)**11th and 12th March, 2021**

Organised by Department of Civil Engineering College of Engineering Pune (COEP)

Day-II, 12-03-2021, Friday - Schedule**Keynote Address by Prof. Yusuf A. Mehta (Rowan University, USA) (9.30am -10.00am)**<https://coep.webex.com/coep/j.php?MTID=m6242652f8ac0299871ed8c3e52244456>**Theme : Structural engineering**

Sr. No.	Paper ID	Title of paper	Authors	Presentation Time
Session-4(I) : Session Chair: Dr. V R Rode (SGSITS Indore), Session Co-Chair:Dr. Pradeep Kankeri (PDPU)				
Meeting Link: https://coep.webex.com/coep/j.php?MTID=m140ee6ae6dedd6583955afe9098d68c1				
1	ACTM2021_04_419	Effect of lateral stiffness on structural framing systems of tall buildings with different heights	Dr. ASHA RAO	10.00 am-10.15am
2	ACTM2021_04_563	Effect of Edge Configuration on Pressure Distribution of An Irregular Octagonal Plan Oval-Shaped Building Using CFD	Mr. Arun Kumar,Dr. Ritu Raj	10.15 am-10.30am
3	ACTM2021_04_370	Finite Element Analysis of Piled Raft Foundation Using Plaxis 3D	Mr. Sunil Ahirwar,Mr. Anupam Verma	10.30 am-10.45 am
4	ACTM2021_04_377	Numerical Study on Dynamics Analysis of Combined Pile Raft Foundation (CPRF) on Soft Clays	Mr. Sunil Ahirwar,Mr. Rishabh Gupta	10.45 am-11.00 am
5	ACTM2021_04_107	Research progress on the torsion behavior of externally bonded RC beams: Review	Mr. Rajesh Rajguru,Dr. Manish Patkar	11.00 am-11.15 am
6	ACTM2021_04_120	Mitigation of ground vibrations using metamaterials - A review	Prof. Yeshwant Prabhu Chodnekar,Dr. K. G. Guptha,Dr. Jagadish Vengala	11.15 am-11.30 am
7	ACTM2021_04_079	Critical study of wind effect on RC structure with different permeability	Mr. Udaysingh Patil,Mr. Ankush Asati	11.30 am-11.45 am
8	ACTM2021_04_583	Influence of Semirigid Joints on Response of Steel Railway Plate Girder Bridge	Mr. Udaysingh Patil,Mr. Maansingh Patil,Dr. A. D. Pandey	11.45 am-12.00 pm
9	ACTM2021_04_260	Effect of Isolated Wind Incidence on Local Peak Pressure	Ms. Supriya Pal	12.00 pm-12.15 pm
10	ACTM2021_04_425	Analysis of bolted end-plate connections to concrete-filled steel columns	Mr. Sushant Karambli,Dr. H K Munot	12.15 pm-12.30 pm
Session Summary by Session Chair				
Session-4(II): Session Chair: Dr. Milinda Mahajan, Session Co-Chair: Dr. Hemanth Chore (NIT Jalandhar)				
Meeting Link:https://coep.webex.com/coep/j.php?MTID=m70659d3da7a4f7089faac0e646064bca				

1	ACTM2021_04_204	BIM Clash Detection of PEB Structure using MBS (Metal Building Software)	Ms. SAYALI PILARE	10.00 am-10.15am
2	ACTM2021_04_532	Crack Simulation and Monitoring of Beam-Column joint by EMI Technique using ANSYS	Mr. Tejas Shelgaonkar,Dr. Suraj Khante	10.15 am-10.30am
3	ACTM2021_04_167	NONLINEAR ANALYSIS OF AN IRREGULAR (L SHAPED) FLAT SLAB BUILDING (G+11 STOREY) FOR PROGRESSIVE COLLAPSE	Ms. SUSHMA H METAGUDDA,Mr. AKHILESH H B,Ms. Niveditha M,Ms. Bhagyashree Khandare,Mr. Rushikesh Bandal	10.30 am-10.45 am
4	ACTM2021_04_173	Parametric Study of Curved Prestressed Concrete Box Girder	Ms. Supriya Ranadive,Dr. Sudhir Patil	10.45 am-11.00 am
5	ACTM2021_04_316	Analysis, Design and Parametric Study of Box Culvert	Prof. Swaroopa Sail	11.00 am-11.15 am
6	ACTM2021_04_503	Seismic Response of RC Elevated Liquid Storage Tanks using Semi-Active Magneto-Rheological Dampers	Mrs. Manisha Waghmare,Prof. Suhasini Madhekar,Prof. Vasant Matsagar	11.15 am-11.30 am
7	ACTM2021_04_287	Evaluation of Limiting Drift Ratios for Unreinforced and Containment Reinforced Masonry Buildings	Mr. Abhishek Mathada,Dr. Amrut Joshi,Dr. Nanjunda Rao	11.30 am-11.45 am
8	ACTM2021_04_189	Investigating the efficacy of the hybrid damping system for two-dimensional Multistory building frames using time history analysis.	Mrs. Apoorva Kote,Dr. Rajendra Joshi	11.45 am-12.00 pm
9	ACTM2021_04_115	Study on Seismic Analysis and Design of Reinforced Concrete Exterior Beam-Column Joint	Mr. Yogesh Sonawane,Dr. Shailendrakumar Dubey	12.00 pm-12.15 pm
10	ACTM2021_04_205	Design and Analysis of PEB Warehouse using MBS (Metal Building Software) and RAM Connection	Mr. YASH WARE	12.15 pm-12.30 pm
Session Summary by Session Chair				
Session-4(III): Session Chair: Dr. Madhukar Wakchaure (Amrutvahini COE, Sangamner), Session Co-Chair: Dr. Anup Suryavanshi				

[Meeting Link: https://coep.webex.com/coep/j.php?MTID=m5628d09a464f742c4303ec74873faa98](https://coep.webex.com/coep/j.php?MTID=m5628d09a464f742c4303ec74873faa98)

1	ACTM2021_04_558	The Impact of Perforation Orientation in Buckling Behaviour of Storage Rack Uprights	Mrs. KADEEJA SENSY,Mr. ASHISH GUPTA,Prof. Swaminathan K,Dr. Vijaya Venkadesh Kumar J	10.00 am-10.15am
2	ACTM2021_04_601	A Study on Finite Element Beam Elements in Analysis of Industrial Storage Racks	Mr. Midhun raj,	10.15 am-10.30am
3	ACTM2021_04_386	FRP Strengthened Reinforced Concrete Beams under Impact Loading: A state of Art	Mr. Swapnil Gorade,Prof. Deepa Joshi,Prof. Radhika Menon	10.30 am-10.45 am

4	ACTM2021_04_409	Effect of single and sequential underground blasting on structures designed as per well accepted seismic code	Dr. Sumit kumar, Prof. Sekhar Chandra Dutta, Prof. Bharathi Ganesh	10.45 am-11.00 am
5	ACTM2021_04_604	Design of Symmetrically Web Tapered I Section Compression Member	Mr. Ateet Rai, Mr. Prashanth V, Dr. J Vijaya Vengadesh Kumar	11.00 am-11.15 am
6	ACTM2021_04_163	SEISMIC EVALUATION OF REGULAR AND IRREGULAR MULTI-STOREY RC BUILDING WITH AND WITHOUT FLAT SLAB	Mr. Prabhu Kinagi, Mr. Manjunath Ishwaragol, Mr. Basavaraj Hotti, Mr. Sangnagouda Patil	11.15 am-11.30 am
7	ACTM2021_04_610	ANN Model for Predicting Thermally Deteriorated Steel Concrete Bond Strength	Mr. Akash Deep, Dr. Kishor S Kulkarni	11.30 am-11.45 am
8	ACTM2021_04_498	Finite element analysis of concrete filled double skin tube columns subjected to compressive loading	Ms. Shruti Pandey, Dr. R.R. Joshi	11.45 am-12.00 pm
9	ACTM2021_04_561	Influence of Support Conditions for Idealized Perforation in Local Buckling Behaviour of Simple Rack Uprights	Mr. Ashish Gupta, Mrs. Kadeeja Sensy, Mr. Vijaya Vengadesh Kumar J	12.00 pm-12.15 pm
10	ACTM2021_04_506	Investigation on concrete infilled ultra-thin hollow cold formed steel columns for light weight structures	Mr. Sagar Dumbre, Dr. Ishwar Sonar	12.15 pm-12.30 pm
11	ACTM2021_04_500	Fragility assessment of mid-rise flat slab structures	Mr. Balaji Dhumal, Dr. Vaishali Dawari	12.30 pm-12.45 pm
Session Summary by Session Chair				
Lunch Break (12.30 pm to 1.30 pm)				
Session-5) Thought Provoking Session (Meeting Link:)				
https://coep.webex.com/coep/j.php?MTID=m6268c22c7c29f03df24b70493cd9d397				
1				1.30 pm-1.45 pm
2				1.45 pm-2.00 pm
3				2.00 pm-2.15 pm
4				2.15 pm-2.30 pm
5				2.30 pm-2.45 pm
6				2.45 pm-3.00 pm
7				3.00 pm-3.15 pm
Industry Interaction Session (3.30 pm-4.30 pm)				
https://coep.webex.com/coep/j.php?MTID=md1698c71bc62473338d03abce1d79b90				
Valedictory Function (4.30pm-5.00pm)				
https://coep.webex.com/coep/j.php?MTID=m30f3de02619e05572e8aab4db0018791				

Advances in Construction Technology and Management (ACTM-2021)**11th and 12th March, 2021**

Organised by Department of Civil Engineering College of Engineering Pune (COEP)

Day-II, 12-03-2021, Friday - Schedule**Keynote Address by Prof. Yusuf A. Mehta (Rowan University, USA) (9.30am -10.00am)**<https://coep.webex.com/coep/j.php?MTID=m6242652f8ac0299871ed8c3e52244456>**Theme : Construction technology and management**

Sr. No.	Paper ID	Title of paper	Authors	Presentation Time
Session-4(I): Session Chair: Dr. R K Jain (Principal, JSPM, Pune), Session C-Chair: Dr. S S Pimplikar (MIT Kothrud, Pune) (Meeting Link:)				
Meeting Link		https://coep.webex.com/coep/j.php?MTID=m31c570b5c993d36d402684fdc6349409		
1	ACTM2021_06_434	Application of Material Management Techniques on a Commercial Building in Nashik City	Ms. Shrutika Shahane	10.00 am-10.15am
2	ACTM2021_06_470	Reforms in Regulations and Redevelopment of Buildings of Housing Societies in Mumbai City	Mr. VINOD VANVARI,Dr. Sumedh Mhaske	10.15 am-10.30am
3	ACTM2021_06_122	Review of Cause and impact of Road Project Delay in Afghanistan and comparison with other countries.	Dr. manas kumar,Mr. Obaidullah Elham	10.30 am-10.45 am
4	ACTM2021_06_113	A CRITICAL REVIEW ON SAFETY MANGEMENT IN CONSTRUCTION INDUSTRY OF GUJARAT REGION	Ms. Anuja Rajguru,Dr. MohammedShakil Malek,Dr. Devang Shah	10.45 am-11.00 am
5	ACTM2021_06_084	Integrating BIM With ERP Systems Towards an Integrated Multi-user Interactive Database: Reverse-BIM Approach	Dr. M. Arsalan Khan	11.00 am-11.15 am
6	ACTM2021_06_085	Application of Game Theory to Manage Project Risks Resulting from Weather Conditions	Mr. Abd Alrahman Ghali,Prof. Vaishali M .Patankar	11.15 am-11.30 am
7	ACTM2021_06_218	STUDY ON EFFICIENCY AND EFFECTIVENESS OF LAST PLANNER SYSTEM AND PARETO AS A LEAN CONSTRUCTION TOOL IN MEDIUM SIZE CONSTRUCTION FIRM	Ms. Rochana R	11.30 am-11.45 am

8	ACTM2021_06_614	Container House Using GFRG Panels	Mr. Pravin Shinde,Ms. Jagruti Rokade,Mr. Kunthal Payal,Mr. Manish Pardeshi,Mr. Swapnil Mahindrakar,Prof. Aniruddh Chavan	11.45 am-12.00 pm
9	ACTM2021_06_106	COMPOSITE CONSTRUCTION IN LIGHT GAUGE STEEL AND FERROCEMENT PANELS FOR LOW COST HOUSING	Dr. Arun Purandare,Dr. Amrut Joshi	12.00 pm-12.15 pm
10	ACTM2021_06_226	Influence of factors associated to pelletization on bentonite admixed fly ash-based geopolymer aggregates	Mr. B P Sharath,Dr. B B Das	12.15 pm-12.30 pm
11	ACTM2021_06_410	Evaluation Of Total Quality Management Factors That Affect Construction Of Water Treatment Plant	Mr. Vaibhav Dike,Dr. N. A. Hedao	12.30 pm-12.45 pm
Session Summary by Session Chair				
Session-4(II): Session Chair: Dr. Swanand Kulkarni, Session Co-Chair: Dr. Smita Patil (Meeting Link:)				
Meeting Link		https://coep.webex.com/coep/j.php?MTID=ma16b3ebc5284330f9292ca44678d9777		
1	ACTM2021_06_281	Analysis of Financial Risk Parameters for Built Operate Transfer Road Projects in India	Mr. Aditya Mane,Dr. Vasudha Katare,Dr. Gayatri Vyas	10.00 am-10.15am
2	ACTM2021_06_194	Environmental impact analysis of building material using building information modeling and life cycle assessment tool	Mr. KUNAL BONDE	10.15 am-10.30am
3	ACTM2021_06_338	RISK EVALUATION IN INDIAN CONSTRUCTION INDUSTRY USING FUZZY LOGIC	Mr. Amey Pawar,Dr. Namdeo Hedao	10.30 am-10.45 am
4	ACTM2021_06_337	A STUDY OF FACTORS INFLUENCING SAFETY MANAGEMENT DURING COVID-19 PANDEMIC IN INDIAN CONSTRUCTION INDUSTRY	Mr. BHAVESH CHAUHAN,Ms. DIPALI PATIL	10.45 am-11.00 am
5	ACTM2021_06_171	Comparative Energy Analysis of Building by Using Building Information Modeling	Mr. Saurabh Shinde,Dr. Namdeo Hedao	11.00 am-11.15 am

6	ACTM2021_06_346	Comparative analysis of various walling materials for finding sustainable solutions using Building Information Modeling	Mr. Amey Bagul,Dr. Vasudha Katare	11.30 am-11.45 am
7	ACTM2021_06_356	Development of Project Definition Rating Index (PDRI) for Tunnels	Mr. Umesh Hule,Dr. Mahadeo Ranadive	11.15 am-11.30 am
8	ACTM2021_06_202	Analysis of clashes and its impact on construction project using Building Information Modelling	Mr. Samkit Gandhi,Dr. Namdeo Hedao	11.45 am-12.00 pm
9	ACTM2021_06_280	Analysis of Tunnel Infrastructure using Building Information Modelling	Mr. Vaibhav Patil,Dr. M. S. Ranadive	12.00 pm-12.15 pm
10	ACTM2021_06_296	Data Management by Using Building Information Modelling and Geographic Information System	Mr. Chetan Patil	12.15 pm-12.30 pm
Session Summary by Session Chair				
Lunch Break (12.30 pm to 1.30 pm)				
Session-5) Thought Provoking Session (Meeting Link:)				
https://coep.webex.com/coep/j.php?MTID=m6268c22c7c29f03df24b70493cd9d397				
1				1.30 pm-1.45 pm
2				1.45 pm-2.00 pm
3				2.00 pm-2.15 pm
4				2.15 pm-2.30 pm
5				2.30 pm-2.45 pm
6				2.45 pm-3.00 pm
7				3.00 pm-3.15 pm
Industry Interaction Session (3.30 pm-4.30 pm)				
https://coep.webex.com/coep/j.php?MTID=md1698c71bc62473338d03abce1d79b90				
Valedictory Function (4.30pm-5.00pm)				
https://coep.webex.com/coep/j.php?MTID=m30f3de02619e05572e8aab4db0018791				

Advances in Construction Technology and Management (ACTM-2021)**11th and 12th March, 2021**

Organised by Department of Civil Engineering College of Engineering Pune (COEP)

Day-II, 12-03-2021, Friday - Schedule**Keynote Address by Prof. Yusuf A. Mehta (Rowan University, USA) (9.30am -10.00am)**<https://coep.webex.com/coep/j.php?MTID=m6242652f8ac0299871ed8c3e52244456>**Theme : Environmental and water resources engineering**

Sr. No.	Paper ID	Title of paper	Authors	Presentation Time
https://coep.webex.com/coep/j.php?MTID=m6242652f8ac0299871ed8c3e52244456				
Session-4(I): Session Chair: Dr. Sunil B Thakare (Principal APCOE, Pune), Session Co-Chair: Dr. A. D. Thube (COEP) (Meeting Link: https://coep.webex.com/coep/j.php?MTID=m08ab8d2cd70a63b44174f8275609c01d)				
1	ACTM2021_08_459	Comparison of pressure-driven approaches of modelling water distribution networks	Mr. Bhargav Mane,Dr. Nitin Mohite	10.00 am-10.15am
2	ACTM2021_08_585	Survey of Urban Flood Management; Necessity of Smart City Planning	Ms. Vishakha Naik,Dr. Shilpa Kewate	10.15 am-10.30am
3	ACTM2021_08_407	Inter-Basin Pipeline Water Grid for Maharashtra	Mr. Raibbhann Sarnnobat,Mr. Pritam Bhadane,Mr. Vaibhav Markad,Prof. R.K. Suryavanshi	10.30 am-10.45 am
4	ACTM2021_08_587	Floodplain Mapping of Pawana River using HEC-RAS	Mr. Tejas Bhagwat	10.45 am-11.00 am
5	ACTM2021_08_590	Performance evaluation of varying OLR & HRT on two stage Anaerobic Digestion Process of Hybrid Reactor (HUASB) for blended Industrial wastewater as substrate	Mrs. RAJANI SARANADAGOUDAR	11.00 am-11.15 am
6	ACTM2021_08_252	Selection of best Solid Waste Management System for Pune-City Using AHP Model	Ms. Akshata Kothale	11.15 am-11.30 am
7	ACTM2021_08_380	Modelling and Reduction of Evapotranspiration	Ms. snehal wagh	11.30 am-11.45 am

8	ACTM2021_08_289	ANTHROPOGENIC IMPACTS ON FOREST ECOSYSTEMS USING REMOTELY SENSED NDVI DATA	Mr. GAURAV GANDHI	11.45 am-12.00 pm
9	ACTM2021_08_056	WAVE FORCE CONTROL ON SUBMERGED HIDDEN CAISSON BY INSTALLING THE POROUS COVER	Mr. CHIRANJEEVI TADI,Dr. Venkateswarlu V,Mr. Ravi Kumar Kondaveeti,Mr. Anil Kodimela,Dr. Chandrasekhar Rao Tanimki	12.00 pm-12.15 pm
10	ACTM2021_08_618	Mapping Ground Water Potential Zone of Fractured Layers by Integrating Electric Resistivity Method and GIS Techniques	Dr. Kesava Rao,Dr. Chandramohan Ramamurthy	12.15 pm-12.30 pm
Session Summary by Session Chair				
Session-4(II): Session Chair: Dr. R K Rai (GCOE Amravati), Session Co-Chair: Dr. N. M. Mohite (COEP) (Meeting Link: https://coep.webex.com/coep/j.php?MTID=m16665327a47746878c64c461c7c30a79)				
1	ACTM2021_08_453	RFID Based Waste Management Tracking System for Smart Campus-An Initiative	Mr. Ajey Joshi,Mr. Karthik Patil,Mrs. Minal Salunke,Mrs. Lalitha M,Ms. Sushmita Tatti,Ms. Sujata Kulkarni,Mr. Sagar Bammigatti,Prof. M.R Patil	10.00 am-10.15am
2	ACTM2021_08_597	Analysis of Morphometric Parameters of Watershed using GIS	Ms. Bhairavi Pawar	10.15 am-10.30am
3	ACTM2021_08_373	Migration of Pollutants in Layered Soil	Dr. SMITA PATIL	10.30 am-10.45 am
4	ACTM2021_08_229	NDVI: Vegetation Performance Evaluation Using RS and GIS	Ms. Anjali Khillare,Dr. Kailas Patil	10.45 am-11.00 am
5	ACTM2021_08_613	Numerical analysis of Pithoragarh cloudburst event	Mr. Prasad Kunjeer,Dr. Aruna Thube	11.00 am-11.15 am
6	ACTM2021_08_625	Sustainable Development in Circular Economy: A Review	Mr. Mohnish Waikar	11.15 am-11.30 am
7	ACTM2021_02_183	Performance Evaluation of Storm water Management and its Impact	Mr. Arun Bagi,Mr. Sandeep Wathar,Mr. Nayeemulla Inamdar ,Mr. Mohammed Umar Faeoouque Patel	11.30 am-11.45 am
8	ACTM2021_02_333	Innovative concept of floating photovoltaic plant for small scale rural water body	Ms. Nitiksha Vyas,Dr. Dhruvesh Patel,Mr. Naimish Bhatt	11.45 am-12.00 pm

9	ACTM2021_08_270	Innovative Arch Type Bridge cum Bandhara for economical and quick Implementation of Jal Jeevan Mission	Mr. Pramod Bongirwar, Dr. Sanjay Dahasahasra	12.00 pm-12.15 pm
Session Summary by Session Chair				
Lunch Break (12.00 pm to 1.00 pm)				
Session-5) Thought Provoking Session (Meeting Link:)				
https://coep.webex.com/coep/j.php?MTID=m6268c22c7c29f03df24b70493cd9d397				
1				1.30 pm-1.45 pm
2				1.45 pm-2.00 pm
3				2.00 pm-2.15 pm
4				2.15 pm-2.30 pm
5				2.30 pm-2.45 pm
6				2.45 pm-3.00 pm
7				3.00 pm-3.15 pm
Industry Interaction Session (3.30 pm-4.30 pm)				
https://coep.webex.com/coep/j.php?MTID=md1698c71bc62473338d03abce1d79b90				
Valedictory Function (4.30pm-5.00pm)				
https://coep.webex.com/coep/j.php?MTID=m30f3de02619e05572e8aab4db0018791				