



International Conference on Resilient Infrastructure and Sustainable Engineering

(MACE RISE '26)

07 - 08 May 2026 (Hybrid Mode)

MACE Kothamangalam, Kerala

Schedule



May 07, 2026

Venue : Seminar Hall 4, Electronics Block

Registration		9.00 am
Inaguration		9.30 am
Break		10.15 am
Keynote Session 1	Dr. Ram V G, Assistant Professor, Department of Civil Engineering, IIT Palakkad	10.30 - 11.15 am
Keynote Session 2	Dr. A.V. Rahul Assistant Professor Civil & Environmental Engineering, IIT Tirupati	11.30 - 12.15 pm
Lunch		12.15 - 1.30 pm

Session 1 - Seminar Hall 4, Electronics Block -07/05/2026(AN)

Google Meet joining info

Video call link: <https://meet.google.com/znd-kzgw-ksk>

Chair: Dr. Jai M Paul

Co -Chair: Dr. Devika Venu

1.30 - 1.45 pm	Nandana A S	Government Engineering College Thrissur	Offline	Hydrological Complexity Assessment Of Two North Indian River Basins Using Recurrence Theoretical Approach	PAPER ID: RISE_01
1.45 - 2.00 pm	Aslaha K A	Mar Athanasius College of Engineering	Offline	Cellular Automata-Driven Lulc Forecasting For Enhanced Flood Risk Assessment In Kollam	PAPER ID: RISE_02
2.00 - 2.15 pm	Aadithyan S Prasad	Amal Jyothi College Of Engineering	Offline	Design And Traffic Impact Assessment Of An Integrated Junction For The Proposed Sabarimala Greenfield Airport Connectivity	PAPER ID: RISE_03
2.15 - 2.30 pm	Sreenanda A	Rajiv Gandhi Institute Of Technology, Kottayam, Kerala	Online	Study On Desalination System Using Modified Solar Still	PAPER ID: RISE_04
2.30 - 2.45 pm	Shino John	Sree Buddha College Of Engineering Alappuzha	Online	Microplastic Contamination In The Pamba River, Kerala: Occurrence, Characteristics, And Environmental Implications Amidst Pilgrimage Activities	PAPER ID: RISE_05
2.45 - 3.00 pm	Jyothis George	Nittr Chennai	Online	Review Of Emerging Approaches In Urban Flood Risk Assessment	PAPER ID: RISE_06
3.00 - 3.15 pm	Gokila B Raj	Rajiv Gandhi Institute Of Technology, Kottayam	Online	Removal Of Polyethylene From Water Using Bio Adsorbent Filtration System: A Sustainable Approach For Environmental Resilience	PAPER ID: RISE_07

Session 2 - Design Studio Lab, MPV Block-07/05/2026(AN)**Chair: Dr. Jiji Antony****Co -Chair: Dr. Indu Susan Raj**

1.30 - 1.45 pm	Adhil Km	Mar Athanasius College Of Engineering	Offline	Influence Of Fiber Shape On The Mechanical Characterization Of Uhpc Developed Using Locally Sourced Materials	PAPER ID: RISE_08
1.45 - 2.00 pm	Agnel V Sojan	Viswajyothi College Of Engineering And Technology Vazhakulam	Offline	Structural Optimization Strategies For Cost-Effective Design Through Value-Based Engineering	PAPER ID: RISE_09
2.00 - 2.15 pm	Ann Mariya Baby	Mar Athanasius College of Engineering	Offline	Comparative Study Of Seismic Analysis Of Soft Storey Building With Transfer Plate System And Isolation Systems	PAPER ID: RISE_10
2.15 - 2.30 pm	Rubina Rasheed	College Of Engineering Trivandrum (CET)	Offline	Flood Hazard Mapping As A Tool For Sustainable Infrastructure Development: A Case Study Of Hebbal Valley River Basin	PAPER ID: RISE_11
2.30 - 2.45 pm	Muhammed Nishad G H	Rajiv Gandhi Institute Of Technology, Kottayam	Offline	Machine Learning Framework For Detection, Classification, And Segmentation Of Concrete Cracks	PAPER ID: RISE_12
2.45 - 3.00 pm	Remya Biju	Saintgits College Of Engineering	Offline	Design, Construction And Floatation Test Of Light Weight Concrete Canoe	PAPER ID: RISE_13
3.00 - 3.15 pm	Hiba Aysha Muhammed	Mar Athanasius College Of Engineering	Offline	Bim-Based Comparative Assessment Of Conventional And Sustainable Building Designs	PAPER ID: RISE_14

Session 3 - Board Room, Main Block-07/05/2026(AN)

Google Meet joining info

Video call link: <https://meet.google.com/snf-kedi-drd>

Chair: Dr. Solly George

Co -Chair: Prof. Eldhose MM

1.30 - 1.45 pm	Muhammed Firoz	Viswajyothi College Of Engineering And Technology	Online	Performance Evaluation Of Plain Cement Concrete Containing Rice Husk Ash And Waste Ceramic Tiles	PAPER ID: RISE_15
1.45 - 2.00 pm	Vivek S Kumar	TKM College Of Engineering, Kollam	Online	Fiber Reinforced Porous Concrete Paver Blocks Incorporating Supplementary Cementitious Materials – Performance And Life Cycle Analysis	PAPER ID: RISE_16
2.00 - 2.15 pm	Deeraj A D	Sems School Of Engineering And Technology	Online	Evaluation Of In-Situ Permeability Using A Calibrated Double Ring Infiltrometer	PAPER ID: RISE_17
2.15 - 2.30 pm	Nivedya Bharath P	Mar Athanasius College of Engineering	Online	Development Of Landfill Liner Material Using Recycled Concrete Aggregate	PAPER ID: RISE_18
2.30 - 2.45 pm	Meenaxi Madhusudan	Rajagiri School Of Engineering And Technology	Online	Strength Improvement Of Micp Stabilised Soil Reinforced With Vetiver Fibres	PAPER ID: RISE_19
2.45 - 3.00 pm	Theras Sebastian	Viswajyothi College Of Engineering And Technology	Online	Performance Of Seawater On The Rheological Properties Of Bituminous Binder	PAPER ID: RISE_20
3.00 - 3.15 pm	Krishnanayana S	Saintgits College Of Engineering	Online	Model Test Of Shallow Foundation On Clayey Soil Using Baggase Fiber	PAPER ID: RISE_21

Session 4 - CAD Lab, PG Block-07/05/2026(AN)

Chair: Prof. Hanna Paulose

Co-Chair: Dr. Anna Mariya Shajan

1.30 - 1.45 pm	Farsana Hamsa	Mar Athanasius College Of Engineering Kothamangalam	Offline	Seismic Analysis Of Steel And Composite Structure With Different Bracing System	PAPER ID: RISE_22
1.45 - 2.00 pm	Sumayya Parvin	Mar Athanasius College Of Engineering	Offline	Construction Stage Vulnerability Analysis Of Steel Buildings: A Case Study Of Progressive Collapse Using Etabs	PAPER ID: RISE_23
2.00 - 2.15 pm	Emy Susan Thomas	Mar Athanasius College Of Engineering	Offline	Influence Of Lime On The Chloride Resistance Of Csab Cement	PAPER ID: RISE_24
2.15 - 2.30 pm	Cyril George Thottumkal	Apj Abdul Kalam Technological University	Offline	Carbon-Based Cementitious Composites For Electromagnetic Interference Shielding: A Comprehensive Review	PAPER ID: RISE_25
2.30 - 2.45 pm	Sreelakshmi Manoj	Saintgits College Of Engineering	Offline	3d-Printed Modular Bridge Using Dovetail And Wedge-Based Interlocking Mechanisms	PAPER ID: RISE_26
2.45 - 3.00 pm	Shiyon K	Mar Athanasius College Of Engineering	Offline	Seismic Performance Evaluation Of Pc Beam-Column Joints Retrofitted With Cfrp Ropes	PAPER ID: RISE_27
3.00 - 3.15 pm	Akhila T S	Mace Kothamangalam	Offline	Performance Evaluation Of Alccofine And Ggbfs In Cementitious Systems	PAPER ID: RISE_28

May 08, 2026

Session 5 - Board Room, Main Block-08/05/2026(FN)

Google Meet joining info

Video call link: <https://meet.google.com/gmr-nunx-rib>

Chair: Er. Wilson K C

Co -Chair: Prof. Bybin Paul

10.00 - 10.15 am	Shubham Nagrale	Central Road Of Research Institute	Online	Advanced Non-Destructive Methods For Evaluating Surface And Subsurface Distresses In Rigid Pavements	PAPER ID: RISE_29
10.15 - 10.30 am	Akash Baiju	St Thomas Institute For Science And Technology, Kattaikonam, Trivandrum	Online	Road Safety Assessment And Black Spot Rectification Proposals At Ezhukone Intersection In Kollam District: A Case Study	PAPER ID: RISE_30
10.30 - 10.45 am	Ashok Ts	Viswajyothi College Of Engineering And Technology, Vazhakulam	Online	Development Of Clsm Mix For Reinstatement Of Utility Fill	PAPER ID: RISE_31
10.45 - 11.00 am	Ananth V Shedgeri	Bms College Of Engineering, Bangalore , Karnataka	Online	Comparative Study Of Forced Gap Behaviour At Various Unsignalised Intersections Using Surrogate Safety Measures	PAPER ID: RISE_32
11.00 - 11.15 am	Ankita Thakare	CSIR Central Road Research Institute New Delhi	Online	Evaluation Of Distresses In Rigid Pavements: Causes And Rehabilitation Measures	PAPER ID: RISE_33
11.15 - 11.30 am	Nandana M S	Mar Athanasius College Of Engineering	Online	Evaluation Of Durability And Water Resistance Of Polyurethane Coated Geotextiles	PAPER ID: RISE_34
11.30 - 11.45 am	Helen Thomas	MACE	Online	Adaptive Green Wave Signal Coordination With V2x Integration For Resilient Traffic Management	PAPER ID: RISE_35

Session 6 - Design Studio Lab, MPV Block-08/05/2026(FN)

Google Meet joining info

Video call link: <https://meet.google.com/uvz-iawb-ovf>

Chair: Dr. Elson John

Co -Chair: Dr. Kichu Paul

Keynote Session		Dr. Deepak Kumar Kamde Assistant Professor Department of Civil Engineering IIT Delhi			
09.00 - 10.00 am					
10.00 - 10.15 am	Aleena Mariyam Jacob	College Of Engineering, Trivandrum	Online	Numerical Study On Shear Performance Of Stud Shear Connectors In Corrugated Steel - Uhpcc Composite Bridge Decks	PAPER ID: RISE_36
10.15 - 10.30 am	Feba Jose	Aisat,Kalamassery	Online	Experimental Investigation On Self-Compacting Concrete With Ggbs And Ferrock As Sustainable Binders	PAPER ID: RISE_37
10.30 - 10.45 am	Hazna Asharaf	Mar Athanasius College Of Engineering	Online	Floating Column In Highrise Building With Outrigger System	PAPER ID: RISE_38
10.45 - 11.00 am	Amith Biju	Viswajyothi College Of Engineering And Technology	Online	Structural Analysis And Design Of A Typical Pre-Engineered Building	PAPER ID: RISE_39
11.00 - 11.15 am	Aysha Sana K S	Mar Athanasius College Of Engineering Kothamangalam	Online	Performance Study Of Rehabilitated Concrete Beams	PAPER ID: RISE_40
11.15 - 11.30 am	Ashfaq C	NIT Calicut	Online	Bond Performance Of Gfrp Rebars Exposed To Severe Environmental Actions	PAPER ID: RISE_41
11.30 - 11.45 am	Devika P	College Of Engineering Trivandrum	Online	Structural Performance Of Sustainable Sandwich Wall Panels Under Axial Loading: Review Of Material Compositions And Connector Configurations	PAPER ID: RISE_42

Session 7 - Room No- 204, MPV Block -08/05/2026(FN)

Google Meet joining info
Video call link: <https://meet.google.com/ddm-hqch-ajb>

Chair: Prof. Anna Paul

Co -Chair: Prof. Sarah Anil

Keynote Session		Dr. Anusha S. Basavaraj Assistant Professor Department of Civil & Infrastructure Engineering, IIT Jodhpur			
09.00 - 10.00 am					
10.00 - 10.15 am	Rose Robin	Mar Athanasius College of Engineering	Online	Delineating Groundwater Potential Zones Using Qgis And Ahp: A Case Study Of Kothamangalam Municipality, Kerala	PAPER ID: RISE_43
10.15 - 10.30 am	Christo Joy	Mar Athanasius College of Engineering	Offline	Assessment Of Micro-Climate Hotspots Using Land Surface Temperature And Land Use Dynamics	PAPER ID: RISE_44
10.30 - 10.45 am	Farisa V Rephy	Mar Athanasius College of Engineering	Offline	Reclaiming The Voids: A Climate-Responsive Approach To Transform Under-Flyover Spaces Into Resilient Urban Assets	PAPER ID: RISE_45
10.45 - 11.00 am	Sarath N S	Mar Athanasius College Of Engineering	Offline	Time Dependent Fire Performance Of Steel & Cfst Building	PAPER ID: RISE_46
11.00 - 11.15 am	Akshara Santhosh	Mar Athanasius College Of Engineering	Offline	Performance Based Seismic Evaluation Of Steel & Cfst Building	PAPER ID: RISE_47
11.15 - 11.30 pm	Minna Mariyam Byju	Mar Athanasius College Of Engineering, Kothamangalam	Offline	Spatiotemporal Assessment Of Urban Growth Patterns In A Metropolitan Region	PAPER ID: RISE_48

Session 8 - CAD Lab, PG Block-08/05/2026(FN)

Google Meet joining info

Video call link: <https://meet.google.com/hgi-ebbj-sxn>

Chair: Prof. Bobby Jacob

Co-Chair: Prof. Raiza Susan George

Keynote Session		Dr. Yuvaraj Dhandapani Lecturer Institute of Functional Surface, School of Mechanical Engineering University of Leeds, UK			
09.00 - 10.00 am					
10.00 - 10.15 am	Mariyam Rinsha M	Mar Athanasius College Of Engineering	Online	Analysis Of Irregular Reinforced Concrete Structures With Hybrid Damping Rubber Bearings (Hdrrb)	PAPER ID: RISE_49
10.15 - 10.30 am	Saafin Vp	Mar Athanasius College of Engineering	Online	Structural Integrity Analysis Of Multistoried Rec Buildings Against Disproportionate Collapse	PAPER ID: RISE_50
10.30 - 10.45 am	Anandu Prakash	Mar Athanasius College Of Engineering, Kothamangalam	Online	Bond-Slip Behaviour Of Steel Reinforcement In Concrete: Analytical And Abaqus Based Composite Study	PAPER ID: RISE_51
10.45 - 11.00 am	Jayanthi R	Atria Institute Of Technology, Bengaluru	Online	Moment Capacity Prediction Of Cold Formed Steel Closed-Box Section Beams – Machine Learning Approach	PAPER ID: RISE_52
11.00 - 11.15 am	Shabna P A	Mar Athanasius College of Engineering	Online	Deflection Based Assessment Of Cold-Formed Steel Emergency Shelters	PAPER ID: RISE_53
11.15 - 11.30 am	Alex Joseph	Mar Athanasius College Of Engineering, Kothamangalam	Online	Numerical Analysis On Lateral Torsional Buckling Of Honeycomb Steel Beams	PAPER ID: RISE_54

Session 9 - Seminar Hall 4, Electronics Block -08/05/2026(FN)

Google Meet joining info

Video call link: <https://meet.google.com/vzo-zxuj-twg>

Chair: Dr. Anoop C.K.

Co -Chair: Dr. Anu James

10.00 - 10.15 am	Jayanthi R	Atria Institute Of Technology, Bengaluru	Online	Structural performance of bolted shear connector in steel concrete composite beams using ABAQUS	PAPER ID: RISE_55
10.15 - 10.30 am	Sruthy M R	Sems School Of Engineering And Technology, Ernakulam, India	Online	Sustainable Rainwater Management For Climate-Resilient Campus Infrastructure	PAPER ID: RISE_56
10.30 - 10.45 am	Dhanya M S	Toc H Institute Of Science & Technology, Arakunnam	Online	Experimental Investigation on pervious concrete with partial replacement of cement with fly ash	PAPER ID: RISE_57
10.45 - 11.00 am	Hannah Gibi	Mar Athanasius College Of Engineering	Online	Shear And Bond Strength Characteristics Of Geopolymer Concrete	PAPER ID: RISE_58
11.00 - 11.15 am	Sarah Ali P A	Toc H Institute Of Science And Technology	Online	Experimental Investigation On Properties Of Concrete With Treated Crumb Rubber & Coconut Fibre	PAPER ID: RISE_59
11.15 - 11.30 am	Athul H	Rajiv Gandhi Institute Of Technology ,Kottayam	Online	Study On Synergetic Effect Of Recycled Concrete Fine Aggregates And Supplementary Cementitious Materials On Cement Mortar	PAPER ID: RISE_60
11.30 - 11.45 am	Dr Rony J S	Amet University	Online	Reliability Analysis For Hybrid Submerged Tension Leg-Type Offshore Wind Turbine Platform Using Inverse First Order Reliability Method	PAPER ID: RISE_61

Session 10 - Room No- 205, MPV Block -08/05/2026(FN)

Google Meet joining info

Video call link: <https://meet.google.com/cmfg-hxmx-pqs>

Chair: Prof. Berlin Sabu

Co -Chair: Prof. Anju Paul

10.00 - 10.15 am	Nekha Jose	Mar Athanasius College of Engineering	Online	Cellular Automata-Driven Lulc Forecasting For Enhanced Flood Risk Assessment In Kollam	PAPER ID: RISE_62
10.15 - 10.30 am	Sarathkumar T R	Viswajyothi College Of Engineering And Technology Vazhakulam	Online	A Neural Network Framework For Accurate Rut Depth Prediction In Flexible Pavement Systems	PAPER ID: RISE_63
10.30 - 10.45 am	Navaneeth V	Mar Athanasius College Of Engineering	Online	Natural Fiber Reinforced Concrete Building Blocks	PAPER ID: RISE_64
10.45 - 11.00 am	Samad Sulaiman	Rajiv Gandhi Institute Of Technology, Kottayam	Online	Quantification And Composition Analysis Of Construction And Demolition Waste In Keralam Towards Sustainable Development	PAPER ID: RISE_65
11.00 - 11.15 am	Abhirami T S	Toch Istitute Of Science And Technology,Arakkunnam	Online	Integration Of Last Planner System (Lps) And Primavera For Lean Construction Management In Residential Building Projects	PAPER ID: RISE_66
11.15 - 11.30 am	Rose Robin, Fathima Siyana P, Pooja Prakash, Revathy Vinod K	Mar Athanasius College Of Engineering, Kothamangalam	Online	Optimizing Unsignalized Intersections: Comparative Analysis Of Webster's Fixed-Time And Vehicle-Actuated Signals	PAPER ID: RISE_67

Lunch	12.30 pm
Valedictory function	1.30 pm