



**Yukthi 2021**  
 24<sup>th</sup> to 26<sup>th</sup> September 2021  
**GOVERNMENT ENGINEERING  
 COLLEGE  
 KOZHIKODE**

**YUKTHI 2021**  
 International Conference on  
 Emerging Trends in Engineering

**Schedule – First Day- 24-09-2021 (Friday)** Event Platform: Google Meet, Link: [meet.google.com/kcu-ukxh-qbk](https://meet.google.com/kcu-ukxh-qbk)

Day/Date	9:30 to 10:30	11:00 to 11:45	11:45 to 12:30	Lunch Break	1:30 to 2:30	2:30 to 3:30	3:30 to 4.30
24-09-21 Friday	Inauguration	Mechanical Engg slot. Keynote by. Dr. Swaminathan Subramanian, Michigan State University, USA Topic: DNA of Engineering Innovation	Applied Electronics Engg slot. Keynote by Dr. Roy P P IIT Guwahati Topic: Emerging Trends in Nano Devices		General Talk. Keynote by Dr.Pratap Sinh K. Desai Topic: Issues and Challenges in Technical Education	Chemical Engg slot. Keynote by Dr. Suchithra T. G., University of Nottingham, Malaysia Topic: Aviation biofuels – Routes and Challenges	Civil Engineering slot, Keynote address by Dr George K Varghese, Professor, NITC Topic: Environmental Forensics

**Track-2 Coordinated by the Department of Civil Engineering- International Conference on Smart Solutions for Sustainable Infrastructure.**

**Schedule for Second and Third Day- 25-09-2021 (Saturday) 26-09-21 (Sunday)** Event Platform: Google Meet, Link: [www.meet.google.com/aur-vhff-mrg](https://www.meet.google.com/aur-vhff-mrg)

Day/Date	9:30 am to 10.15 am	10:30 am to 12.30 pm	Lunch Break	2:00 pm to 4.30 pm
25-09-2021 Saturday	Keynote address by <b>Dr M V L R Anjaneyulu,</b> <b>Professor, NIT Calicut</b> Topic: Smart mobility	Paper Presentation- Session 1: <b>Transportation and Geotechnical Engineering</b> Chair: : <b>Dr Anitha Jacob</b> Co-Chair: <b>Prof Ansu V</b>		Paper Presentation Session 2: <b>Structural Engineering</b> Chair: <b>Dr Sajith AS Associate Professor, NITC</b> Co-Chair: <b>Dr Ragesh P P</b>
26-09-2021 Sunday		Paper Presentation Session 3: <b>Environmental and Water Resource Engineering</b> Chair: <b>Dr George K Varghese, Professor, NITC</b> Co-Chair: <b>Prof. Raji Karuna</b>		Valedictory and Feedback session.

Session 1: Papers for the first session, which will take place on Saturday, **25 September 2021, from 10:30 a.m. to 12.30 p.m.** under the specialisation **Transportation and Geotechnical Engineering**.

Event Platform: Google Meet, Link for all sessions: [www.meet.google.com/aur-vhff-mrg](http://www.meet.google.com/aur-vhff-mrg)

<b>Paper id</b>	<b>Author and Paper</b>	<b>Broad area</b>
23	Minu Raju, Subash Chand and Jomy Thomas. Estimation of PCU And Saturation Flow for Mixed Traffic Condition at Urban Signalized Intersections	Transportation Engineering
40	Maqsooda J H S and Harikrishna M. Operating Speed Prediction Model for Combined Curve on Two-Lane Two Way Non- Urban Roads	Transportation Engineering
206	Sreelekha M G. Transport Network Circuitry and its Effect on Land Use	Transportation Engineering
232	S. Swathy, Anon M. Shajan, Aysha Babu, K. B. Ejas and M. G. Sreelekha. Land use-Based Accessibility Analysis of Thrissur Corporation using GIS	Transportation Engineering
33	Maria Seby, Mohanan T Amrutha, P A Rosemary, C R Haritha and Mikhil Antony. Comparison of behaviour of sand and clay with woven and non- woven geotextile – A Numerical study	Geotechnical Engineering
34	Sariga Unni, Anitta Jerom, Jithin Prakash, Seethal C. Jessian and R. Sujana. Parametric Study on Bearing Capacity of Geosynthetic Encased Stone Column Installed in Soft Clay	Geotechnical Engineering

Session 2: Papers for the second session, which will take place on Saturday, **25 September 2021, from 2:00 p.m. to 4.30 p.m.** under the specialisation **Structural Engineering**.

Event Platform: Google Meet, Link for all sessions: [www.meet.google.com/aur-vhff-mrg](http://www.meet.google.com/aur-vhff-mrg)

<b>Paper id</b>	<b>Author and Paper</b>	<b>Broad area</b>
6	Sajith Chandran T and Ajith M S. Performance of diagonally stiffened duplex stainless steel plate girder under combined bending and shear	Structural Engineering
31	Rohith K Rajan and Saji K. P. Numerical Investigation of Cyclic Behaviour of Stainless-Steel Ring Damper	Structural Engineering
54	Flora Bosco and Asha Viswanath. Flexural strengthening of 3D printed concrete using reinforcement: A review	Structural Engineering
59	Rahila N and Narayanan N I. Optimization Study on Multi-storey Building with Diagrid Structural System	Structural Engineering
65	Athira Haridas, and S A Rasal, Seismic Behaviour of High Rise Building with Composite Shear Wall: An Overview	Structural Engineering
67	K Vineesh, Unni Kartha G and Neeraja Nair. Buckling Behaviour of Hollow Stainless Steel Sections	Structural Engineering
69	Divyanjali K U and Krishnachandran V N. Seismic analysis of open ground storey structure with shear wall and cross bracings	Structural Engineering
89	Hadee Mohammed and Shakeel Ahmad. Artificial Neural Networks for Evaluation & Prediction the Mechanical Properties of Waste Ceramic Optimal Concrete Exposed to Elevated Temperature	Structural Engineering
114	Divya B. Mathew, Shahira P. M. and M. Nazeer. Comparative study of codal provisions of monosymmetric I beam subjected to point loads in top flange.	Structural Engineering
181	V. Sankaran, B. S. Dhanya and Tiju S. Thomas. Study on the Influence of Interface Friction on Deflection and Stress of Ultrathin Whitetopping Using Finite Element Analysis	Structural Engineering
175	Amal G. Nair, Aparna Anilkumar, Sai Krishnan R., Harikrishnan K. A., B. S. Dhanya and Shiji P. V.. Potential of BIM to detect possible clashes in a building construction	Construction management

Session 3: Papers for the second session, which will take place on Sunday, **26 September 2021, from 10:30 am to 12.30 pm.** under the specialisation **Environmental and Water Resource Engineering.**

Event Platform: Google Meet, Link for all sessions: [www.meet.google.com/aur-vhff-mrg](http://www.meet.google.com/aur-vhff-mrg)

<b>Paper id</b>	<b>Author and Paper</b>	<b>Broad area</b>
45	Amina Rafeek, Anjala Nazar, Baeyou George Zachariah, Bobit Thomas and Aju Mathew George. Phytoremediation As a Novel and Ecofriendly Alternative for Defluoridation : A Review on Potential Application	Environmental Engineering
51	Alvin M George, Amitha K Biju, Divya Raj, Jijimol Mathew and Ajai Thampy. Estimating the Increase in Areal Extent of Quarries in Malappuram District Using Open Source Software	Environmental Engineering
61	Salma Najeeb, Sajith S, Ananthakrishnan V, Ananthu G S and Sethu Surendran. Nitrate Removal from Water Using Bio Adsorbent	Environmental Engineering
73	Ijas I.S., Aryan K.S., Noora Ali, Arsha B.Mohan and Sudhi Mary Kurian. WASTEWATER TREATMENT PLANT FOR A MEDIUM SIZED HOSPITAL	Environmental Engineering
221	Lakshmi Priya. Removal of organic dye from aqueous solution by using MnO <sub>2</sub> doped Fly ash as a photocatalyst and its comparison studies	Environmental Engineering
9	Kiran S R. Convectively-coupled High-frequency Atmospheric waves triggered Kerala floods in 2018 and 2019	Water resources
243	Aiswarya K D, Amarnath J, Archana T R, Haneena P and Shyba A. WATER DEMAND PREDICTION : A NOVEL APPROACH USING ARTIFICIAL NEURAL NETWORK	Water resources