**Webinar Series Title:** An Insight into New Paradigm of Civil Engineering Practices

**Organized by:** Department of Civil Engineering (CED-School of Technology)

**Coordinator:** Dr. Ankit Deshmukh (Assistant Professor, CED)

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| **Chief Patron** | **Patron** | **Chairman** |
| Dr. S. Sundar Manoharan | Dr. Sunil Khanna | Dr. Tejas Thaker |
| (Director General, PDEU) | (Director, School of Technology) | (Associate Professor & HOD, CED) |

**Objectives:** The department of civil engineering presenting webinar series of 20 lectures. Each lecture is delivered by PDEU faculties, dictating advancement in the various field of civil engineering research.

**About School of Technology**

School of Technology intends to focus on technological education, research, and service that anticipates and meets the needs of tomorrow's world. With departments of Chemical, Mechanical, Electrical, Computer ICT and Civil Engineering along with centers of excellence in different fields like Solar and Nuclear Science & Technology, it is expected that engineering graduates from School of Technology will care about issues that technology can make difference whether these issues are health, security, economic well- being or sustainability of world and values.

**Civil Engineering Department**

Department of Civil Engineering started its journey in 2010, aims to provide an arena for students to boost their technical acquaintance & prove themselves as a better professional in the community. Along with a Bachelor’s degree in Civil engineering, the department also runs an M. Tech program in the field of Environmental Engineering, Transportation Engineering & Infrastructure Engineering & Management. The department is well equipped with excellent lab facilities along with experienced faculties to develop a research temperament, which is an integral part of the Department.

**Webinar link with QR code (to be created):** (We will have one presentation each week the scheduled dates are provided)

**Webinar schedule from 10th of June**

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| **Title: An Insight into New Paradigm of Civil Engineering Practices** | | | | | |
|  | **Name of Faculty** | **Grouping** | **Presentation topic** | **Keywords** | **Date Assigned** |
| 1 | Dr. Tejaskumar Thaker | Geotechnical, Transport, & Infrastructure Engineering | Seismic Site Characterization and Prediction of Liquefaction Potential | Seismic, Site Characterization, Liquefaction | Week 1: 10-06-2021 |
| 2 | Dr. Tejaskumar Thaker | Geotechnical Site Explorations: Global and Indian Perspectives | Soil Explorations, Site Investigation | Week 18: 04-10-2021 |
| 3 | Dr. Uma Chaduvula | Application of Geosynthetics in Civil Engineering | Geosynthetics, soil stabilization, pavements, slope stabilization | Week 12: 23-08-2021 |
| 4 | Dr. Ayyanna Habal | Recycling of Bituminous Pavements | Cold Recycling, Hot recycling, Pavement materials, Highway Engineering, QA, QC, Bitumen, Aggregates | Week 10: 09-08-2021 |
| 5 | Dr. Pranav Peddinti | Uncertainty aspects in flexible pavement design | Flexible pavement, Fatigue, Rutting, Variability | Week 3: 21-06-2021 |
| 6 | Mr. Manivel M | Insights of Electric vehicle adoption-Indian road user perspective | Electric vehicle, Charging station, E-bike,E-car | Week 9: 02-08-2021 |
| 7 | Dr. Debasis Sarkar | Integrated Project Delivery | Project Management, Integrated Project Delivery, Multiparty Agreement | Week 8: 26-07-2021 |
| 8 | Dr. Rajesh Gujar | Transportation Growth: Indian Scenario | Transportation growth, Indian transportation growth drivers, Challenges in transportation growth | Week 14: 06-09-2021 |
| 9 | Dr. Manas Bhoi | Constitutive modelling of Geomaterial. | Elastic parameters, plastic parameters, flow rule, mohr-coulomb model, cam-clay model | Week 17: 27-09-2021 |
| 12 | Dr. Lavish Pamwani | Structural engineering | Dynamic analysis of MDOF system using MATLAB | Dynamic analysis, Vibrations, Structural Dynamics | Week 16: 20-09-2021 |
| 13 | Mr. Vasudeo Chaudhari | Fragility Analysis of Structure through OpenSees | Fragility Analysis, Incremental Dynamic Analysis | Week 15: 13-09-2021 |
| 14 | Dr. H R Dhananjaya | Mindlin-Reissner Theory based plate bending finite elements using Integrated Force Method | Mindlin-Reissner Theory, Plate bending finite elements, Shear locking, Integrated Force Method | Week 6: 12-07-2021 |
| 15 | Mr. Ronak Motiani | Effect of the Unreinforced Masonry infill (URM) on seismic performance of RC buildings | Unreinforced Masonry infill, seismic performance | Week 11: 16-08-2021 |
| 16 | Dr.Pradeep | Modeling and Analysis of R.C. beam using ANSYS | R.C Beam, ANSYS | Week 7: 19-07-2021 |
| 17 | Dr. Niragi Dave | Green Construction Materials For a Sustainable World | Concrete, Sustainable Materials, Strength, Durability. | Week 19: 11-10-2021 |
| 18 | Dr. Daya Kaul | Water Resource & Environment Engineering | Application of Dispersion Model (AERMOD) for pollution assessment | Aermod, air pollution, dispersion modeling, odor | Week 2: 14-06-2021 |
| 19 | Dr. Anurag Kandya | Application of Satellite Data for measuring Urban Pollution | Satellite Data, Air Pollution | Week 4: 28-06-2021 |
| 20 | Dr. Ankit Deshmukh | How do catchments physio-climatic characteristics control its vulnerability to climate and land use change? | Climate change, Water Resource, Catchments, Bottom-up framework, Hydrologic Modeling. | Week 20: 18-10-2021 |
| 21 | Dr. Dhruvesh Patel | RS, GIS and UAV(Drone) for better Planning and Management - A case application of Water Resources Engineering | RS, GIS, Advance Mapping, Surveying | Week 5: 05-07-2021 |
| 22 | Mr. Naimish Bhatt | Green energy and infrastructure development | Green materials, Infrastructure, Sustainability | Week 13: 30-08-2021 |