



ISTE - AICTE
Sponsored one week
Induction/Refresher Programme

Report On

“Recent Advances in Civil Engineering”

27-12-2021 to 04-01-2022



Organised

By

Department of Civil Engineering
Jyothy Institute of Technology
Thathaguni, off Kanakapura Road,
Bengaluru-560082, Karnataka

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01. About the Programme

The programme will focus on fundamental principles that underlie current and anticipated developments and research scope in Civil Engineering. Also given scope on provide fundamental concepts of latest analytical and theoretical aspects of civil Engineering.

ABOUT THE INSTITUTE

Jyothy Institute of Technology An Institution of Excellence in Engineering education, Innovation Research and working towards evolving great leaders for the country's vibrant future. Connecting academia and industry to meet global needs & aiming for a socially responsible, intellectually and emotionally rich teaching learning environment, State of the Art Infrastructure for recognizing and nurturing the potential of each individual to evolve into one's own self leading to welfare of all.

ABOUT THE DEPARTMENT

The Department was established in the year 2011, with UG Programme (BE Civil engineering) and has committed itself to the proclaimed pledge of producing quality civil engineering professionals by the virtue of its very competent faculty and state-of- the-art laboratories. The Civil Engineering department has dedicated itself towards the never ending quest for knowledge and contributing for the development of Karnataka and the country as a whole.



ABOUT THE PROGRAMME

The programme will focus on fundamental principles that underlie current and anticipated developments and research scope in Civil Engineering. Also given scope on provide fundamental concepts of latest analytical and theoretical aspects of civil Engineering.

OBJECTIVES

- The main objectives of the course are to provide an overview, understanding and progress made in development, characterization and applications of different domains of Civil Engineering.
- To bridge the gap between industries and academia.
- Provide a forum to keep themselves abreast of the emerging trends in Civil Engineering.



JYOTHY
INSTITUTE OF TECHNOLOGY



**AICTE - ISTE SPONSORED
ONE WEEK - ONLINE
INDUCTION / REFRESHER
PROGRAMME ON**

***Recent Advances
in Civil Engineering***

29/12/2021 to 04/01/2022

Organised By

Department Of Civil Engineering
Jyothy Institute Of Technology
Thathaguni Off Kanakapura Road,
Bangalore-560082, Karnataka, India
Phone: + 097428 59408

CHIEF PATRONS

Col. Venkat, Director, FDC, AICTE
Prof. Vijay D. Vaidya, Executive Secretary, ISTE
Smt. Seetha Subramanya, Jyothy Charitable Trust
Mr. M. Narasimhan, Jyothy Charitable Trust
Mr. B. K. Ramesh, Jyothy Charitable Trust

ADVISORY COMMITTEE

Dr. K Gopalkrishna, Principal, JIT
Dr. Krishna Venkatesh, Director, CIIRC
Dr. B V V Subrahmanya, Professor, JIT
Dr. A S Arunkumar, Professor, BMSCE
Dr. Prashanth S, Professor & Head, GECH
Dr. Yogendra B E, Professor, MCE

ORGANIZING COMMITTEE

Dr. S Kumar, Associate Professor, JIT
Dr. Harish Kumar S, Assistant Professor, JIT
Mr. Y R Suresh, Assistant Professor, JIT
Mr. Basavaraj H S, Assistant Professor, JIT
Mr. Ganesh C R, Assistant Professor, JIT



IMPORTANT DATES

LAST DATE OF REGISTRATION SELECTION OF INTIMATION
25th DECEMBER 2021 27th DECEMBER 2021

REGISTRATION DETAILS

Seats Limited to 100 participants on first come first serve basis.

ELIGIBILITY CRITERIA

Faculty members of AICTE affiliated institutions.

RESOURCE PERSONS

Eminent Speakers from IISc, IITs, NITs, Pvt & Govt Institutions, Industry and R&D Labs

REGISTRATION FEES

There is no registration fee.

ELIGIBILITY TO GET CERTIFICATE

The certificates shall be issued to only those participants who have attended the program with minimum 80% attendance & scored minimum 60% marks in the tests, both daily and final as per AICTE-ISTE rules.

EXPECTED OUTCOMES

The participants will learn the basics of the following technical areas:

- Ground improvement techniques.
- Soil dynamics and earthquake engineering
- Earth and water retaining structures
- Fire resisting structures
- Advances in concrete technology
- Geosynthetics & Natural fibre
- Traffic theory for Intelligent Transportation System (ITS)
- Impacts of climate change on the water environment and responses
- Integrated hydrological and river modelling
- Recent advances in computational methods for optimal management of water resources systems
- E-tabs, ArcGIS, SAP model applications

REGISTRATION LINK & CONTACT

<https://forms.gle/rHfN6ZZzVFmzt7FF6>

FOR CORRESPONDENCE

Dr. Kumar R Rao
Professor & Head
Dept. of Civil Engineering
Jyothy Institute of Technology
Bangalore-560082

COORDINATOR

Dr. Sreekeshava K S
Assistant Professor, Department of Civil Engineering
Mob: 8970240185
sreekeshava.ks@jyothyit.ac.in



**ISTE - AICTE
Sponsored one week
Induction/Refresher Programme**

On

“Recent Advances in Civil Engineering”

Chief Guests:

Col. B Venkat, Director (Faculty Development), AICTE

Prof. Vijay D. Vaidya, Executive Secretary, ISTE

Chaired by:

Dr. K Gopalakrishna

Principal, JIT

Online Meeting Zoom id-

<https://us02web.zoom.us/j/82487334533?pwd=QUJhYkkySGpPVGt5Uk9oeTk3MStxZz09>

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Bengaluru-560082, Karnataka**

INAGURAL PROGRAM SCHEDULE

29th / December / 2021

29-12-2021, Wednesday	
Online Meeting Zoom id- https://us02web.zoom.us/j/82487334533?pwd=QUJhYkYjSGpPVGt5Uk9oeTk3MStxZz09	
09.30 am	Welcome speech
09.40 am	Introduction about the Induction Programme
09.45 am	Message from Chief guest- Col.Venkat, Director (Faculty development) AICTE.
09.55 am	Message from Chief guest- Prof.Vijay D.Vaidya, Executive Secretary, ISTE.
10.10 am	Message from Principal- Dr. K. Gopalakrishna, JIT
10.20 am	Vote of thanks

EVENT SCHEDULE

Day-01, 29-12-2021, Wednesday		
Time	Speaker	Topic
11.30 am to 1.00 pm	Dr.Radhakrishna Professor & Head R V college of Engineering Bengaluru-560059	Understanding of Geo-polymers
Feedback form		
2.00 pm to 3.30 pm	Dr.Subhash C. Yaragal Professor & Dean National Institute of Technology Karnataka-575025	Value added materials for sustainable construction
Feedback form		

Online Meeting Zoom id-

<https://us02web.zoom.us/j/82487334533?pwd=QUJhYkYjSGpPVGt5Uk9oeTk3MStxZz09>

Day-02, 30-12-2021, Thursday

Time	Speaker	Topic
9.30 am to 11.00 am	Sri. K N Keshava Prasad Founder, "SHILPA SHRUNGAR" Consultant Architect, Bengaluru, Karnataka.	"Past----Present---- Future" CREATION TO CONSTRUCTION
11.00 am	Dr.Sreekeasha K S Coordinator JIT, Bengaluru	Feedback form
11.30 am to 1.00 pm	Dr.Aravind H Bhashyam Professor CHRIST University, Bengaluru,India.	"Some Interesting Design Aspect of Super tall Structures Taipei 101 and Petronas Tower"
1.00 pm to 1.30 pm	Dr.Sreekeasha K S Coordinator JIT, Bengaluru	Feedback form
2.00 pm to 3.30 pm	Dr.Kiran Kumar B V Professor SKSJTI, Bengaluru, Karnataka	"Roller Compactor cum Rut Analyzer a Boon or Curse to Design and Develop Quality Bituminous Mix"
3.30 pm	Dr.Sreekeasha K S Coordinator JIT, Bengaluru	Feedback form
Test Assessment-(MCQ)		

Online Meeting Zoom id-

<https://us02web.zoom.us/j/82487334533?pwd=QUJhYkYjSGpPVGt5Uk9oeTk3MStxZz09>

Day-03, 31-12-2021, Friday

Time	Speaker	Topic
9.30 am to 11.00 am	Dr.Raghunath S. Professor BMSCE, Bengaluru, Karnataka	“Repair and Rehabilitation of Heritage Masonry Building - a case study”
11.00 am to 11.30 am	Dr.Sreekesava K S Coordinator JIT, Bengaluru	Feedback form
11.30 am to 1.00 pm	Dr.Naveen B P Head & Associate Professor Amity University, Haryana, India.	" Pile Design & Construction Practice for metro projects"
1.00 pm to 1.30 pm	Dr.Sreekesava K S Coordinator JIT, Bengaluru	Feedback form
2.00 pm to 3.30 pm	Sri. V.R.Kowshika Director QCRETE Readymix (India) Pvt Ltd. Bengaluru	“How SCMs have changed the world of Concrete”
3.30 pm to 4.00 pm	Dr.Sreekesava K S Coordinator JIT, Bengaluru	Feedback form
Test Assessment-(MCQ)		

Online Meeting Zoom id-

<https://us02web.zoom.us/j/82487334533?pwd=QUJhYkYjSGpPVGt5Uk9oeTk3MStxZz09>

Day-04, 01-01-2022, Saturday

Time	Speaker	Topic
9.30 am to 11.00 am	Dr.Jagadish Vengala Head, EDC & Associate Professor, PVPSIT, Vijayawada, Andhra Pradesh.	“Sustainable Concrete Construction-Methods and Practices”
11.00 am to 11.30 am	Dr.Sreekesava K S Coordinator JIT, Bengaluru	Feedback form
11.30 am to 1.00 pm	Dr.Rahul S Karale Professor & Head TSSM’s BSCOER, Pune, Maharastra.	“Emerging Contaminants in Water bodies and their treatment”
1.00 pm to 1.30 pm	Dr.Sreekesava K S Coordinator JIT, Bengaluru	Feedback form
2.00 pm to 3.30 pm	Dr.Manoj Kumar M Associate Professor Department of Computer Science & Engineering JIT, Bengaluru, Karnataka	“How IoT is Revolutionizing the Construction Industry”
3.30 pm to 4.00 pm	Dr.Sreekesava K S Coordinator JIT, Bengaluru	Feedback form
Test Assessment-(MCQ)		

Online Meeting Zoom id-

<https://us02web.zoom.us/j/82487334533?pwd=QUJhYkYjSGpPVGt5Uk9oeTk3MStxZz09>

Day-05, 03-01-2022, Monday

Time	Speaker	Topic
9.30 am to 11.00 am	Dr. Narendra Reddy Professor & DBT Ramalingaswami Fellow CIIRC, Bengaluru.	“Civil Engineering through Biomimetics”
11.00 am to 11.30 am	Dr.Sreekeshava K S Coordinator JIT, Bengaluru	Feedback form
11.30 am to 1.00 pm	Dr.Rajkuwar Dubal Professor RSCOE, Pune, Maharastra.	“Performance Based Seismic Design of Special Moment Resistant RC Frames”
1.00 pm to 1.30 pm	Dr.Sreekeshava K S Coordinator JIT, Bengaluru	Feedback form
2.00pm to 3.30 pm	Sri.Suresh Y R President Divine Spark Bangalore South Branch	“Light of Life”
3.30 pm to 4.00 pm	Dr.Sreekeshava K S Coordinator JIT, Bengaluru	Feedback form
Test Assessment-(MCQ)		

Online Meeting Zoom id-

<https://us02web.zoom.us/j/82487334533?pwd=QUJhYkYySGpPVGt5Uk9oeTk3MStxZz09>

Day-06, 04-01-2022, Tuesday

Time	Speaker	Topic
9.30 am to 11.00 am	Dr.U.T Vijay Chief Scientific Officer & Chief Vigilance Officer KSCST, Bengaluru, Karnataka.	“Traditional Water Harvesting Systems and Different Techniques of Rain Water Harvesting”
11.00 am to 11.30 am	Dr.Sreekeasha K S Coordinator JIT, Bengaluru	Feedback form
11.30 am to 1.00 pm	Dr.Radhakrishnan K Professor NMAMIT, Nitte, Karnataka	“Geophysical Exploration and Applications in Civil Engineering”
1.00 pm to 1.30 pm	Dr.Sreekeasha K S Coordinator JIT, Bengaluru	Feedback form
2.00pm to 3.30 pm	Dr.Pradeep G Siddheshwar Senior Professor, Centre for Mathematical Needs Department of Mathematics CHRIST University, Bengaluru, Karnataka.	“Improving quality of higher education through effective implementation of NEP”
3.30 pm to 4.00 pm	Dr.Sreekeasha K S Coordinator JIT, Bengaluru	Feedback form

Test Assessment - (MCQ & Short Answers)

Note-The Certificates shall be issued by AICTE-ISTE for participants who have attended the participants who have attended programme with 80% attendance & scored minimum 60% marks in the tests as per AICTE-ISTE rules.



Dr. Subhash Yaragal

**Professor and Former Dean,
Department of Civil Engineering,
NITK, Surathkal
Karnataka**

- Prof. Subhash Yaragal, obtained his Bachelor's degree in Civil Engineering from National Institute of Technology Karnataka, Surathkal in the year 1987. He obtained his post-graduate and doctoral degrees from Indian Institute of Science Bangalore.
- Dr. Yaragal, joined NITK Surathkal in the year 1996, and is currently serving the department of Civil Engineering as Professor.
- He has completed his Post Doctoral Research from Tokyo, Japan, during 2003 to 2005, in the area of wind hazard mitigation, his publications in Japan have generated lot of research discussions and fruitful results.
- Prof. Yaragal has successfully completed several research funded projects from Government of India, BRNS-BARC, CPRI and MHRD, and others organizations, amounting to more than one crore Indian rupees.
- Prof. Yaragal has published more than 250 technical papers in reputed national and international journals and conferences.
- He has won several prestigious awards, like Prof. Satish Dhawan State Award for Young Engineers for outstanding contributions in Engineering Sciences, an award instituted by The Government of Karnataka, Department of Information Technology, Bio-Technology, and Science and Technology.
- He is serving as an Editorial Board Member of International Journal for Structural Fire Engineering, UK and American Journal of Civil Engineering and Architecture.



Dr.U.T Vijay

**Chief Scientific Officer & Principal Investigator – RWH & KDH
Karnataka State Council for Science & Technology (KSCST)
Indian Institute of Science,
Bengaluru- 560 012, India**

- Dr.U.T.Vijay is serving as Chief Scientific Officer in Karnataka State Council for Science & Technology(KSCST), Indian Institute of Science, Bengaluru since 1986.
- His areas of interest are Water related technologies such as Rain Water Harvesting(RWH), Traditional Water Harvesting Systems(TWHS) & Watershed development, Applications of Geo-spatial technologies for Natural Resources Management and Application of 3D Laser Scanning technologies for Archaeology and Heritage conservation(Digital Heritage).
- He has been associated with various projects and programmes in KSCST such as Rain Water Harvesting, Assessment of Traditional Water Harvesting Systems in Karnataka(Kalyanis/Pushkaranis, Kunte, Gokatte and Katte) to suggest the scientific measures for Restoration and Rejuvenation, preparation of Action plans for Watershed development, Monitoring and Evaluation of Watershed development activities using Geo-spatial technologies, Suvarna Bhumi Yojane.
- He has to his credit a number of National and International publications. He has presented several papers and delivered talks and chairing in various International and National Seminars/Workshops and Training programmes. He is a member of several Expert/Technical Committees of various Academic, R&D organizations and Government departments of GOK and GOI.



Dr. Narendra Reddy
Professor & DBT
Ramalingaswami Fellow,
CIIRC,
Bengaluru

- He was awarded the prestigious Ramalingaswamy Fellowship from Govt. of India .
- Published 100+ research papers in high impact journals in the areas of biotechnology, materials science, polymer science, agriculture and food technology, with highest impact factor being 13.8.
- Presented his research at more than 50 conferences. He has more than 4,000 citations of his research work. His H-index is about 35 and i-10 index is 103, one of the highest amongst his peers.
- Written a book titled “Innovative Bio fibers from Renewable Resources” published by Springer and authored 6 book chapters.
- His patented technology on extracting natural fibers from agricultural residues has been licensed for commercial production.
- Completed multimillion dollar projects in USA and has currently about Rs. 80.00 lakhs worth project ongoing..
- Some of his projects have been funded by the Ministry of Food Processing Industries (MOFPI), DRDO and DBT and he also consults for various companies..



Dr. B.V KIRAN KUMAR

Associate Professor

Department of Civil Engineering,
Govt. Sri Krishna Rajendra Silver
Jubilee Technological Institute,
Bengaluru

- Member of Standing Appellate Committee (SAC) of All India Council for Technical Education (AICTE), New Delhi.
- One of the State Technical Agency (STA) coordinator for the State of Karnataka under Karnataka Rural Road Development Agency (KRRDA) and National Rural Road Development Agency (NRRDA) under prestigious program Pradhan Mantri Gram Sadak Yojana (PMGSY) since 2009.
- Received Project Grants worth more than Rs. 30 Lakhs.
- Published more than 25 papers in International reputed journals.
- Successfully guided 2 Ph.D scholars and 35 M.Tech projects. Currently guiding 4 Ph.D research scholars.
- Board of Examiners for VTU, Belagavi for the Academic year 2014-2015.
- Life member of Indian Road Congress (IRC) and Indian water works Association (IWWA)



Dr. Naveen B. P.

Head and Associate Professor,
Department of Civil Engineering,
Amity University, Haryana

- B.E. (Civil Engineering) from University Visvesvaraya College of Engineering (UVCE), Bangalore., M. Tech. (Geotechnical Engineering) from National Institute of Technology Karnataka, Surathkal, M. S. (Geotechnical Engineering), Ph.D. & Postdoctoral (Geotechnical Engineering) from Indian Institute of Science, Bangalore.
- 14 years of diverse and progressive experience in the field of Geotechnical Engineering, Geo-Environmental Engineering, Metro works, Waste Management, and Ground Improvement.
- Recognized by Aqua Foundation's Academic Excellence Award for Solid Waste Management in 2016 and Oasys Project of the year 2016. Recipient of ISSMGE Foundation Award, Centre for International Co-operation in Science (CICS), Young Researcher and Scholar Icon-2017 Award, Young Educator and Scholar Award 2017 & 2018, IEI Young Engineers Award-2018, Professional Excellence Award -2018, Nominated as Young Geotechnical Engineer-2019; Senior Educator and Scholar Award and Sir M Visvesvaraya Award 2020 recipient.
- 26 papers in Journals (SCI & Scopus), 16 papers in International conferences, 17 in National Conferences Proceedings, 6 patents (filled), 3 research proposals(submitted) 1 Book & 2 Book chapters to his credit.
- Chief Editor of one international Journal in his area of research. He has reviewed several research articles in Elsevier, SAGE, Taylor & Francis and Springer. Overseas working experience having worked in Kenya, Japan, and USA.



Dr. JAGADISH VENGALA

**Head, EDC & Innovation Centre
Associate Professor,
Department of Civil Engineering
PVP Siddhartha Institute of
Technology,
Vijayawada-520007**

- Recipient of Outstanding Concrete Engineer – Andhra Pradesh for the year 2021 by ICI Vijayawada Centre.
- Prof. V. Ramakrishnan’s Young Scientist award for the year 2008-2009 by Indian Concrete Institute.
- “Outstanding Faculty award” for the year 2019 by Venus International Foundation, Chennai.
- National Governing Council Member, Bamboo Society of India for 2021-23.
- Management committee member for Indian Concrete Institute – Karnataka Bangalore Centre during 2007-11 and 2017-2019
- Chaired/Co-chaired more than 25 sessions and delivered 190 invited & guest lectures at various National and International forums.
- Reviewer for Journal of Structural Engineering (ASCE), The Indian Concrete Journal, International Journal of Earth Sciences and Engineering.
- Published more than 50 research papers in various International and National Journals.
- Fellow of Institute of Engineers(India), ACCE (India) and life member Indian Concrete Institute, Bamboo Society of India, , IAWS, ISCA.



Dr. Aravind H Bhashyam

Professor,
CHRIST University,
Bengaluru,
Karnataka

- Professor Bhashyam started his career as a lecturer in MS Ramaiah college of Engineering in the year 1981 and in the year 1985 he has joined as project associate in IIT Madras. He also served more than five years as scientist in SERC Madras.
- Around five years he worked as Design Manager in Structures division, Industrial & Hydro IDEA & RIDING CONSULTING ENGRS, UK New Delhi, India. More than 16 years he worked in Abroad in different capacity such as Project Leader Structural Division MSCEB in Manama Bahrain, Director Structural Division RANHILL Kuala Lumpur Malaysia etc.
- Professor Bhashyam has published more than 30 technical papers in reputed national and international journals and conferences. He delivered expert lectures on Artificial Intelligence to Structural Engineering in University of New South Wales Sydney, Australia. Application of Finite Strip Method for modelling Structural Instability University of Nottingham UK.
- He involved in the application of Finite Strip Method for modelling Structural Instability University of Nottingham UK. Challenges in design of Sky Bridge of Petronas Towers University of Technology, Malaysia.
- Professor Bhashyam worked as consultant for BL Kyshap and sons company, Thorton Tomasetti company, South east Asia etc.
- He involved some of the remarkable projects such as Petronas twin towers Malaysia, worked in project management and structural division responsible for the redesign and erection of the Skybridge connecting twin tower. Involved in the design of Underground stations and Project management, coordination, review structural work for the Light Rail Transit System -2, Kuala Lumpur.
- In year 2011 he returned to India and served as a professor in MSRIT and professor and HOD in BMSIT. Currently working as professor in Civil Engineering, Christ (Deemed to be university) Bangalore.



Dr. RADHAKRISHNA

Professor and Head,

Department of Civil Engineering,

R V College of Engineering,

Bengaluru

- Former Secretary, Indian Concrete Institute, Bengaluru Centre.
- Published over 100+ Research Papers in journal/conference.
- Successfully guided Eight PhD scholars successfully and guiding 6 PhDs, 57 M.tech, 26 BE projects.
- Principal Investigator for a DST – Nano Mission Project on Nano geopolymers worth of Rs. 70 Lakhs.
- Awarded as the “Best Scientist” by VTU, Belagavi during Sept 2008.
- NBA expert for the accreditation of Engineering colleges.
- Editor-in Chief, i-Manager’s Journal of Structural Engineering.



Dr. Radhakrishnan K
Professor
NMAMIT, Nitte,
Karnataka

- Prof. Radhakrishnan K. has been working in the Civil Engineering Department at NMAM Institute of Technology Nitte since 1990 February. He has been awarded with PhD in Civil Engineering from the National Institute of Technology Surathkal working on the Integrated Geohydrological studies of Mulki River basin.
- He is an expert and consultant in groundwater exploration, Geophysical surveying, rainwater harvesting, Remote Sensing and Geographic Information System trained at National Geophysical Research Institute, Hyderabad under UNESCO fellowship and Indian Institute of Remote Sensing (IIRS-ISRO), Dehradun with NNRMS sponsorship. He is a Member of Sakura Science Club, Japan & was the lead faculty for the SAKURA student exchange programme with Ritsumeiken University, Japan during July 2019.
- He is having more than 34 years of teaching experience at UG & PG level, more than 18 years of research experience in the integrated geohydrological studies and about 32 years of field experience in geophysical exploration for groundwater and foundation extended from Kerala, Karnataka, Andhra Pradesh, Tripura to Uttarakhand.
- As an internationally certified freelance soft skill trainer (head trainer) and training designer (JCI Excel) from JCI University, Chesterfield, USA and a National trainer of Junior chamber international India, he has conducted more than 900 soft skill training events throughout South Indian States from Maharashtra to Tamil Nadu since 1998.



Dr. S. Raghunath

Professor,

BMS College of Engineering,
Bengaluru,
Karnataka

- BE (Civil Engineering) and ME (Construction Technology) from UVCE, Bangalore and PhD, (from the Structural Engineering division), Indian Institute of Science, Bangalore, under the mentorship of Prof. K S Jagadish.
- Research interests include Structural Masonry, Experimental Dynamics, Earthquake Resistant Buildings, Alternative Building Materials and Methods, Energy and buildings, Restoration and Structural Strengthening of Heritage Buildings.
- Supervised more than 60 PG dissertations and nine PhD theses. Carried out a few sponsored R&D projects and published about 50 research papers.
- Structural consultant for many governmental and private agencies especially in the area of structural masonry and restoration of heritage buildings.
- Actively involved with Nivasa, an architectural NGO working to enable humane and dignified housing conditions for the urban and rural poor, through design.



Sri.V.R Kowshika

Director,

QCRETE Ready mix (Ind) Pvt.Ltd

Bengaluru,

Karnataka

- V.R. Kowshika Currently working as Director QCRETE READYMIX(INDIA) Pvt Ltd , from JULY 2019 and Executive Director, AMAZECRETE PRIVATE LIMITED.
- Worked as Director Marketing and Technical of ECMAS Construction Chemicals Pvt Ltd. And Director of ECMAS Global Technologies Pvt Ltd (2010-2019).
- General Manager - Technical RMC Ready Mix India Ltd (2007-2010).
- QA/QC Manager Al Turki Cement Products LLC SOHAR, OMAN (2004-2006).
- Concrete Technologist Master Builders Technologies (Al-Khobar) Kingdom of Saudi Arabia (2003-2004).
- Worked as Sales & Technical Manager RMC Ready Mix India Ltd (1999-2003).
- Territory Manager (Technical & Business Development) VAM Organic Chemicals Ltd - Construction chemicals (1996-1998).
- Assistant Manager (Marketing & Technical Services) ESSEN Supplements India Ltd - Construction chemicals (1994-1996).
- Application Engineer FOSROC Chemicals India Ltd (1991-1994).



Sri.K.N Keshav Prasad
Founder, "SHILPA SHRUGAR",
Consultant Architect,
Bengaluru,
Karnataka

- Worked as site Architect in "shilpa sindoor". Involved in the construction of residential building using stone slab as building material (1889-91).
- Worked as chief Architect in "Development Alternatives" (NGO) (1992-1994).
- Involved in the design and execution of several projects using cost effective technologies. The technologies include,
 - 1.Stabilized mud block as a building material.
 - 2-Composite masonry using stone and brick.
 - 3- Random rubble stone masonry.
 - 4-Filler slab roof.
 - 5-Construction of arches, domes vaults and jack arch roofing.
- Designed a village in Latur (Earthquake) Master plan and residential units were designed and executed. The village is designed in 55 acres with all civic amenities and 360 dwelling units. (1995-96).
- Involved in the preparation of report "Housing action plan for the year 2000".This report is submitted to government which provides statistics of existing housing in Karnataka and design concepts for future projects.
- Shilpa Shrungar so far completed 500 plus projects which includes Residential, Commercial, schools, temples, hospitals and resorts.
- He is also served as faculty at school of architecture in MCE, MSRIT and also at Acharya institute of technology.



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in Association with

JYOTHY INSTITUTE OF TECHNOLOGY

Off Kanakapura Road, Thathaguni

Bengaluru-560082

CORDIALLY INVITE YOU FOR THE TECHNICAL TALK ON

**“Improving Quality Of Engineering Higher
Education Through Effective Implementation Of
NEP”**



Dr. Pradeep G Siddheshwar

FIMA(UK), FNASc (INDIA),

Senior Professor,

Centre for Mathematical Needs,

Department of Mathematics,

CHRIST University,

Bengaluru, Karnataka

Organised by

Department of Civil Engineering,

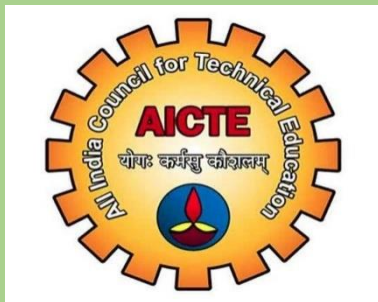
Jyothy Institute of Technology

Thathaguni, Off Kanakapura Road, Bangalore - 560078



Sri.Suresh Y.R
President
Divine Spark
Bangalore South Branch
Karnataka

- Prof. Suresh obtained his Bachelor's degree in Civil Engineering from National Institute of Engineering, Mysore University in the year 1988. He obtained his post-graduation from NIE on Hydraulics secured with first rank with gold medal in the year 1991. He also obtained his master degree on structural engineering in MSRIT-Bangalore in 1997.
- Professor Suresh has 24 years of teaching experiences and taught for UG and PG students, He has more than 10 years of research experiences and also consultant for construction industries.
- Professor Suresh Serving as President of Divine Spark, Bangalore South, (a unit of Divine Park, Saligrama, Udupi, Karnataka). He is Invited Speaker on Spiritual Topics and delivered more than 200 lectures on spiritual topics across Karnataka.
- He is a student councillor, guide, social worker and speakers for many sathsanga and community welfare programmes.



✓**Dr. RAHUL SUBHASH KARALE** obtained his Bachelor degree in Civil Engineering in the year 1999 from Walchand Institute of Technology, Solapur, Maharashtra, M.E. in Environmental Engineering in the year 2001 from Walchand College of Engineering, Sangli, Maharashtra and Doctorate of Philosophy in the year 2015 **from NATIONAL INSTITUTE OF TECHNOLOGY Surathkal KARNATAKA.**

✓Dr. RAHUL SUBHASH KARALE has 17 years of teaching experience

✓Dr. RAHUL SUBHASH KARALE was the PEER REVIEWER for reputed journals like **Springer, Elsevier.** etc

✓Dr. RAHUL SUBHASH KARALE was also peer reviewer of the Virtual Conference on Disaster Risk Reduction- Civil Engineering for a Disaster Resilient Society @ NITK Surthkal

✓Dr. RAHUL SUBHASH KARALE received the patent for the work titled **“Waste Management for Ayurveda and Urban Hospitals using IOT”.**

✓Dr. RAHUL SUBHASH KARALE is Certified as **“ Primary Evaluator for exceptional contribution in “TOYCATHON 2021”**

✓Dr. RAHUL SUBHASH KARALE has published 17 research papers in reputed journals.

✓Dr. RAHUL SUBHASH KARALE is also attended many workshops, seminars and contributed as expert.

Dr. RAHUL SUBHASH KARALE
PROFESSOR AND HEAD DEPARTMENT
OF CIVIL ENGINEERING TSSM's
BHIVARABAI SAWANT COLLEGE
OF ENGINEERING AND RESEARCH,
NARHE, MAHARASHTRA)



Dr. Manoj Kumar M
Associate Professor
Department of Computer
Science & Engineering,
Jyothy Institute of Technology,
Bengaluru

- Member of MISTE, CSI, FSMK.
- Published more than 10 papers in International reputed journals.
- Successfully guided more than 14 projects to at UG and PG level and secured grants from KSCST and TEQUIP.
- Delivered technical talks on security issues in cloud computing and efficient usage of Google Class room.
- Completed the requirements of AWS Academy Graduate - AWS Academy Cloud Foundations in September 2021.
- Completed the requirements of EMC Academic Associate, Information Storage and Management authorized by EMC Education services April 2015.



Dr. Mrs. Rajkuwar Ajit Dubal
Professor & Head
JSPM's,
RAJARSHI SHAHU COLLEGE OF
ENGINEERING
Maharashtra

- Professor Rajkuwar Dubal is currently working as Professor & Head, Civil Department at JSPM's Rajarshi Shahu College of Engineering, Maharashtra.
- Published 15+ research papers in high impact journals in the areas of Structural Engineering, Concrete Technology, Structural Health Monitoring, & Earthquake Engineering.
- She is having 2 Patents and 2 more patents are in approval process.
- Professor Rajkuwar Dubal having more than 15 Years of teaching experience, Industrial Experience & more than 10 years of Research Experience.
- Professor Dubal also fetched the grants from MODROBS & Unnat Bharat Abhiyan around 15lakhs.
- She is the life member of ASCM, ICE, ISTE etc.

“RECENT ADVANCES IN CIVIL ENGINEERING”

Day-01: 29-12-2021 - Inaugural session – 9.30 a.m to 10.45 a.m.

The inaugural session commenced exactly at 9.30 a.m at Jyothy Institute of Technology, Bengaluru main auditorium. The programme has launched through both online and offline blended mode. The chief guests are invited from both AICTE and ISTE. Sri.Col.Venkat, Director (Faculty Development), AICTE and Prof.Vijay D Vaidya, Executive Secretary, ISTE are gestured the event. Dr.Sreekeshava K S, Co-ordinator, AICTE-ISTE refresher programme briefed about the programme and Dr. K Gopalakrishna, Principal, JIT honoured chief guest. Both dignitaries are given useful insights about programme to participants. More than 200 participants registered for refresher programme from various states. As per AICTE-ISTE guidelines 100 participants are selected based on priority given to ISTE life members. Dr.Kumar R Rao, Head, Department of Civil Engineering, and Welcomed all the dignitaries present on stage and participated through online.



Inaugural Event- JIT Auditorium



Inaugural Event- Lightning of Lamp



Chief Guest addressing to participants - Sri.Col.Venkat, Director (Faculty Development), AICTE



Chief Guest addressing to participants - Prof.Vijay D Vaidya, Executive Secretary, ISTE

The first session started at 11.30 a.m on the topic “Understanding of Geo-polymers” by Dr.Radhakrishna, Professor and Head, R.V college of Engineering, Bengaluru. More than 90 Participants participated through online from various institutions all across the India. The speaker explained all advances related to field of Geo-polymers and explained the importance with respect to practical implications of the material.



Cement Concrete
will remain as Very popular material
Good in compression
More advantages
Per capita Usage is next only to **water**
Each ton releases equal amount of **CO₂**
Need of alternative material

Session-01 by Dr.Radhakrishna on Understanding the Geo-polymers

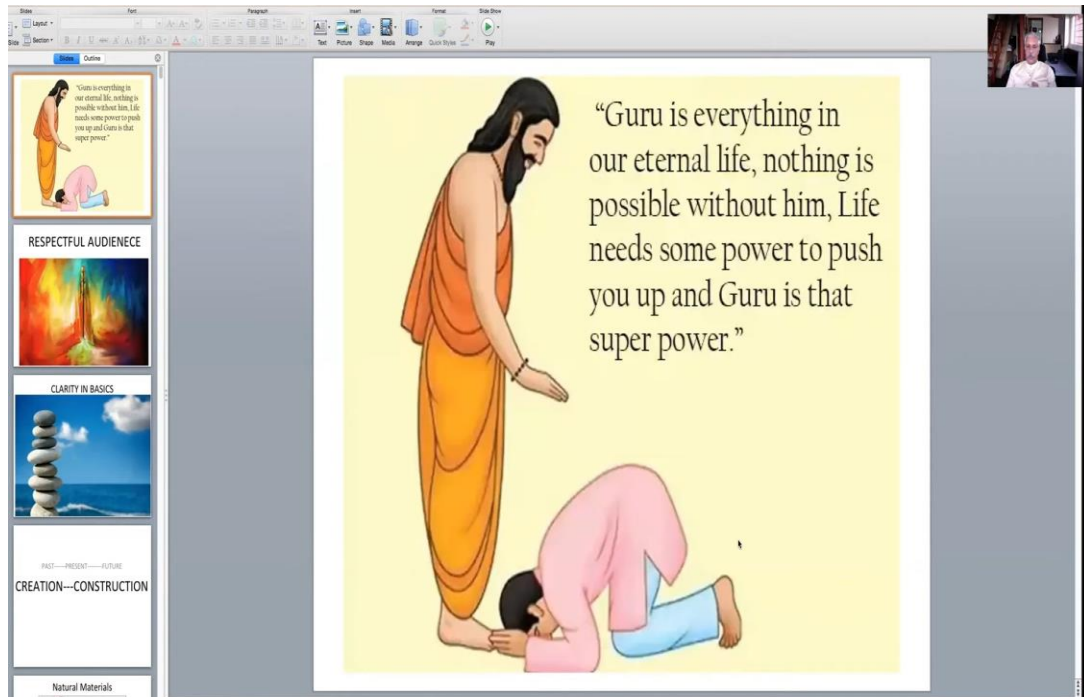
The second session commenced at 2.00 p.m on the topic “value added materials for sustainable construction” by Dr.Subhash C Yargal, National Institute of Technology, Suratkal. In this lecture importance of alternative materials are highlighted with respect to practical significance. The participants are participated with more interest and discussion went well with more than 90 participants through Google meet online platform.

- **The depleting natural resources in the current scenario warrants research to examine viable alternative means, modes and methods for sustainable construction.**
- **Any effort in reduced use of cement is laudable.**
- **Advocate using supplementary cementations materials mostly Siliceous or Aluminous.**

Session-02 by Dr.Subhash C. Yargal on Value added materials for sustainable construction

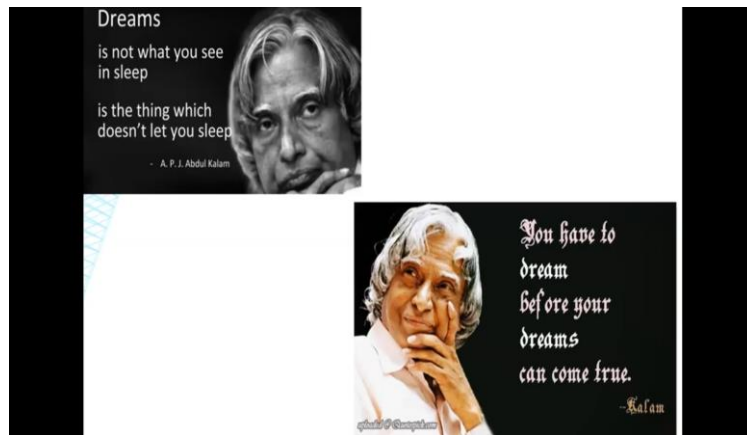
Day-02: 30-12-2021

The second day first session started at 9.30 am on the topic “Past---Present---Future” CREATION TO CONSTRUCTION by famous architect of Bengaluru Sri.K N Keshav Prasad, founder of SHILPASRUNGAR Bengaluru. This is the most interactive session by participants on different construction techniques adopted in past-present situations. The session gives the intense knowledge to participants on trends of construction.



Day-02-Session-01 by Sri.Keshav Prasad on Past---Present---Future CREATION TO CONSTRUCTION

The second session by Dr.Arvind H Bhashyam, Professor, Christ University, on “Some interesting design aspect of super tall structures Taipei 101 and Petronas Tower”, at 11.30 am. The speaker himself involved in the design of Taipei 101 and Petronas tower. The speaker enlightened the knowledge behind the design of structural members and explained practical difficulties faced under construction on site of these structures. The participants interacted very well and got knowledge on practical and analytical investigation on modern structures.



Day-02-Session-02 by Dr. Arvind H Bhashyam, on “Some interesting design aspect of super tall structures Taipel 101 and Petronas Tower”

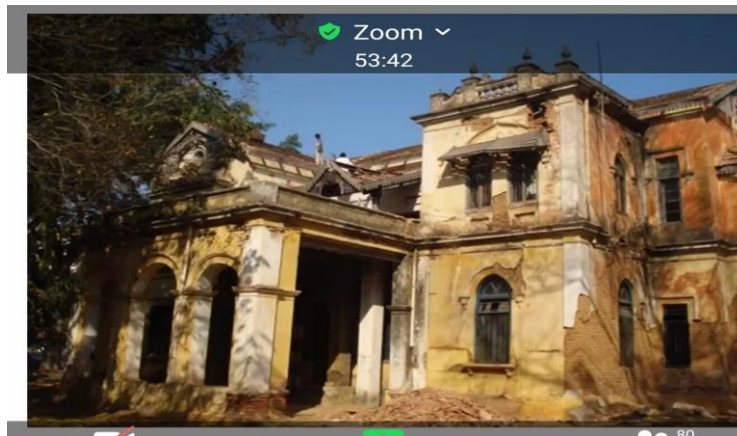
The third session of day-2 related to highway engineering done by Dr.Kiran Kumar, Professor, SKSJTI, Government Engineering College, on the topic “Roller compactor cum rut analyser a boon or curse to design and develop quality bituminous mix”. In this session more than ninety five participants are participated and this session feels like more curious session of the day. The more practical aspects related to highway laying of pavements are discussed with relevant presentation of videos.



Day-02-Session-03 by Dr. Kiran Kumar

Day-03: 31-12-2021

The third day begins at 9.30 am on the topic “Repair and Rehabilitation of Heritage Masonry Building- a case study” by Dr. Raghunath S, Professor, BMSCE. In this session, speaker talk about specific case studies of heritage building of mysuru city. In this lecture speaker explained the different structural components of repair and rehabilitation techniques.



Day-03-Session-01 by Dr.Raghunath S on “Repair and Rehabilitation of Heritage Masonry Building”

The second session by Dr.Naveen B P on “Pile Design & Construction Practice for metro Projects”, in this session speaker explained the realistic project of metro and discussion went very well related to pile foundation.

AICTE ISTE Induction / Refresher Program
“Recent Advances in Civil Engineering”

PILE DESIGN & CONSTRUCTION PRACTICES FOR METRO PROEJCTS

Dr. Naveen BP Ph.D. (IISc)
Associate Professor & Head,
Department of Civil Engineering

AMITY UNIVERSITY GURUGRAM
NAAC 'A' GRADE ACCREDITED UNIVERSITY

Day-03-Session-02 by Dr.Naveen B.P

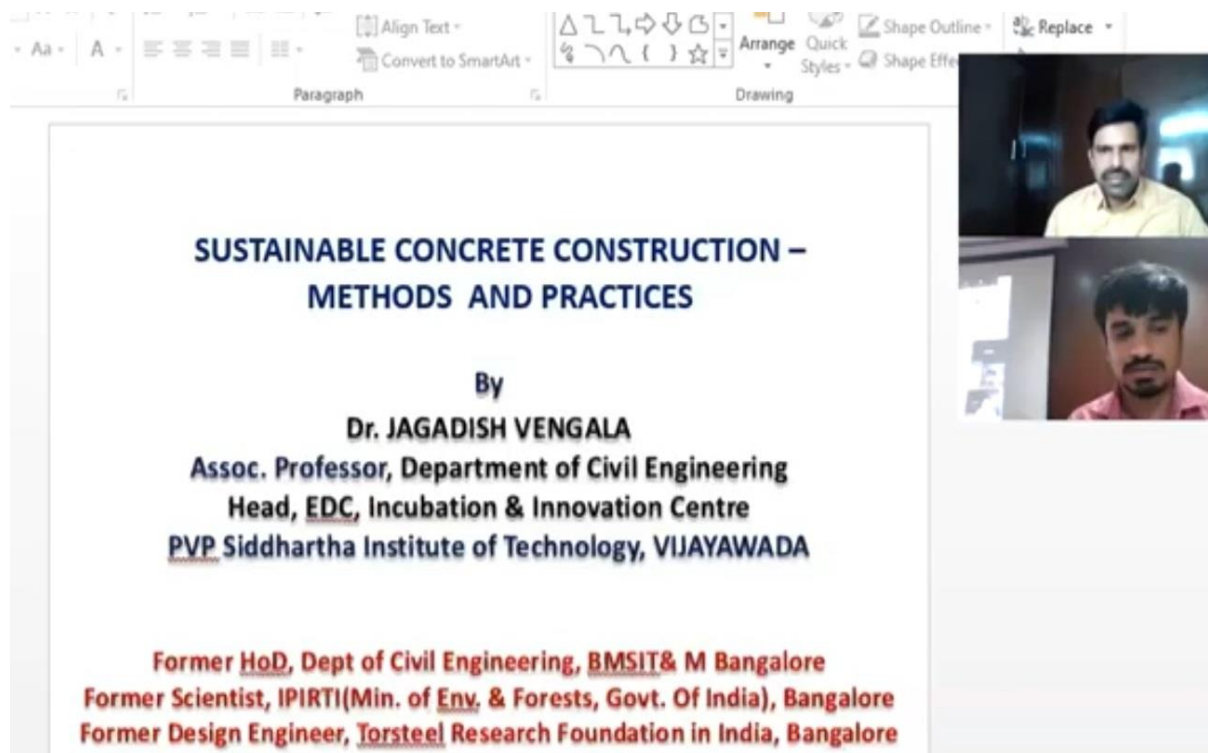
The last session of day-03 on industrial related topic “How SCMs have changed the world of Concrete” by Sri.V R Kowshika, Director, QCRETE RMC, Bengaluru. Speaker lightened on few alternative binding SCMs materials how changed the concrete world in significant manner. The participants gained the practical and research knowledge related construction industry.



Day-03-Session-03 by Dr.V.R Kowshika on How SCMs changed the world of Concrete

Day-04: 01-01-2022

The New Year begins with a marvellous talk on “Sustainable Concrete Construction-Methods and Practices” by Dr.Jagadish Vengala, Head, EDC, PVPSIT, Vijayawada. The speaker explained the detailed behaviour of self-compacting concrete and its significance. Sustainable construction techniques using recent advances concrete construction are discussed in an effective way.



**SUSTAINABLE CONCRETE CONSTRUCTION –
METHODS AND PRACTICES**

By
Dr. JAGADISH VENGALA
Assoc. Professor, Department of Civil Engineering
Head, **EDC**, Incubation & Innovation Centre
PVP Siddhartha Institute of Technology, VIJAYAWADA

Former HoD, Dept of Civil Engineering, **BMSIT& M Bangalore**
Former Scientist, IPIRTI (Min. of **Env. & Forests**, Govt. Of India), Bangalore
Former Design Engineer, **Torsteel** Research Foundation in India, Bangalore

Day-04-Session-01 by Dr.Jagadish Vengala

The second session was related to “Emerging Contaminants in water bodies and their treatment” by Dr.Rahul S Karale, Professor, TSSM’s BSCOER, Pune. The issues related to environmental impact with respect to contaminants are discussed by speaker in very effective manner. The participants are actively participated in discussion of contaminants control with respect to industrial aspects.

EMERGENT CONTAMINANTS IN WATER BODIES AND THEIR TREATMENT

Prof. Dr Rahul S. Karale

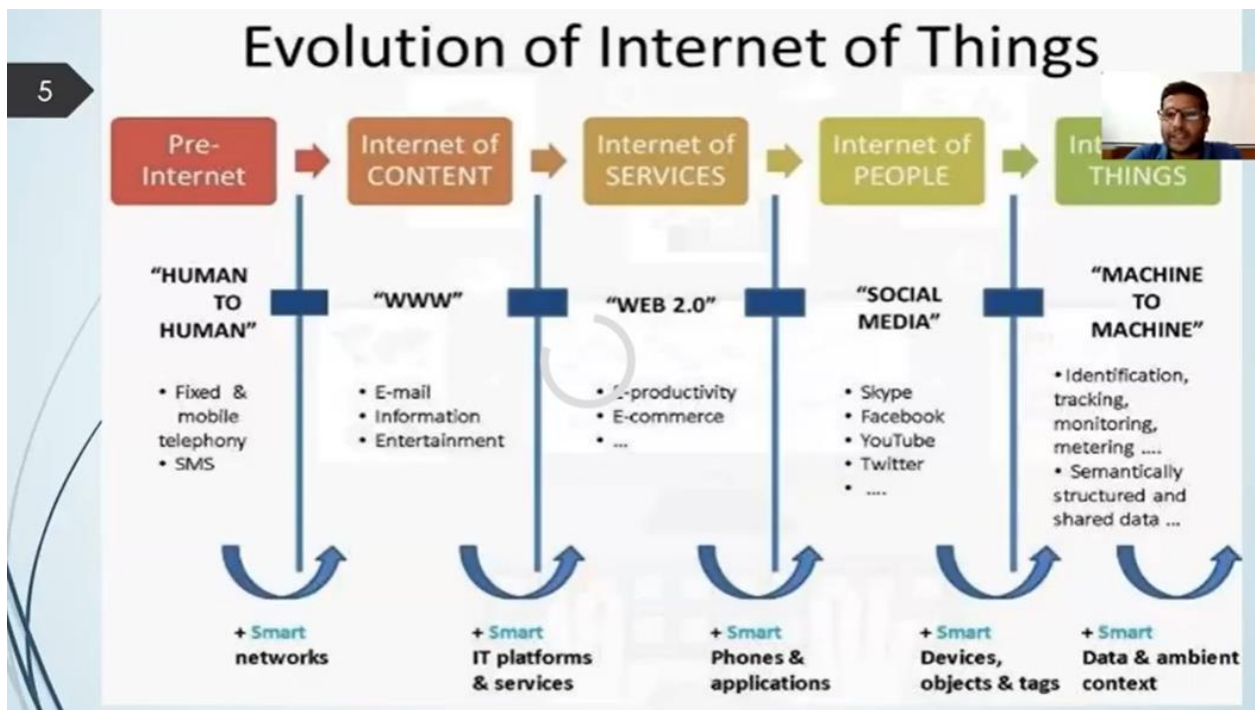
DEPARTMENT OF CIVIL ENGINEERING,
TSSM's BHIVARABAI SAWANT COLLEGE OF ENGINEERING AND RESEARCH, NARHE, PUNE-41
(AFFILIATED TO SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE, MAHARASHTRA).
Saturday, 01 January 2022

1/1/2022

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Day-04-Session-02 by Dr.Rahul S.Karale

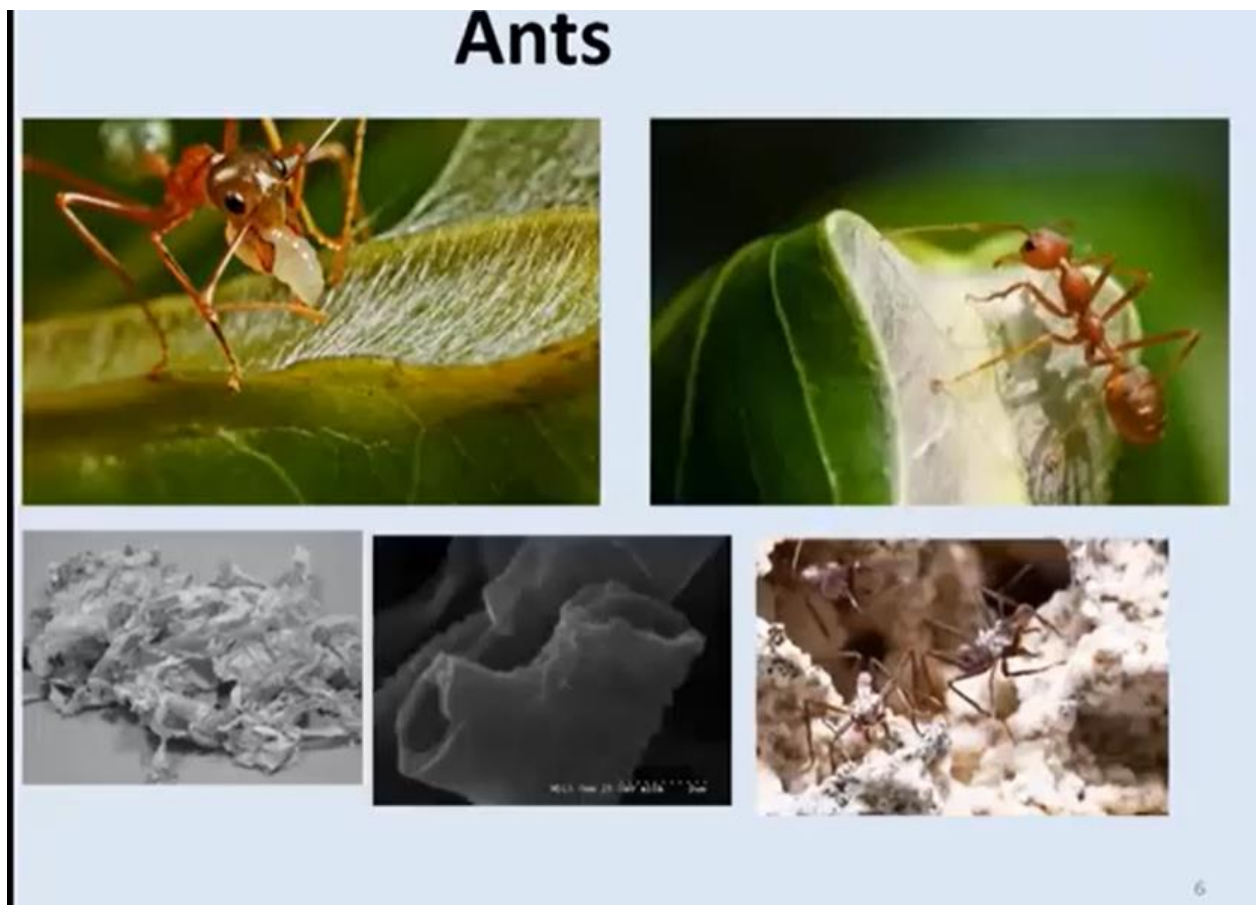
In the final session of day-04, the interdisciplinary talk has been arranged on “How IoT is Revolutionizing the Construction Industry” by Dr.Manoj Kumar M, Associate Professor, Department of Computer Science and Engineering, JIT. The talk got overwhelming response from participants because of interdisciplinary information especially related to how civil engineering can play a role in IT sector.



Day-04-Session-03 by Dr.Manoj kumar

Day-05: 03-01-2022

The session commenced at 9.30 a.m on the topic “Civil Engineering through Biomimetics” by Dr.Naredra Reddy, Professor & DBT Ramalingaswami Fellow, CIIRC. More informative session, Participants got more insights on Biomimetics. This session helps to creative thinking for construction using natural creativity.



Day-05-Session-01 by Dr.Narendra Reddy

In the second session at 11.30 a.m the talk organised on “Behaviour of RC frames under seismic loads” by Dr.Raajkuwar Dubal, Professor, RSCOE, Pune, Maharashtra. In this session most of the things discussed are related to disaster management. The participants participated in more discussion especially related to earthquake and lateral load behaviour of buildings.

Column Discontinuity Cases

- Bare Frame without any discontinuity(CDF0)
- Frame with column discontinuity at ground floor (CDF1)
- Frame with column discontinuity at ground and first floor (CDF2)

Day-05-Session-02 by Dr.Rajkuwar Dubbal

In the final session the talk organised on spiritual theme with respect to stress management by Sri.Suresh Y.R divine park Bengaluru. The talk titled “Light of Life”, in which sir explained how spiritually and mentally we can control our mood in everyday life. The participants interacted with so many clarifications in this session.

SPIRITUALITY

- **“Be Good And Do Good” Through GOD**
- **G – Guides and Guards**
- **O – Observes and Obeys**
- **D – Destroys and Directs**
- **“Spirituality is the Science of the Soul”
(Swami Vivekananda)**



Day-05-Session-0 by Sri.Suresh Y.R

Day-06: 04-01-2022

In the final day of session one the talk organised on “Traditional Water Harvesting Systems and Different Techniques of Rain Water Harvesting” by Dr.U.T Vijay, Chief Scientific officer & Vigilance officer, KSCST, Bengaluru. More than 95 participants are participated in this session and got vast idea on traditional and modern rain water harvesting techniques and also on how to protect traditional kalyanies, ponds and other water sources for future era.

30:17

REC



90% dead

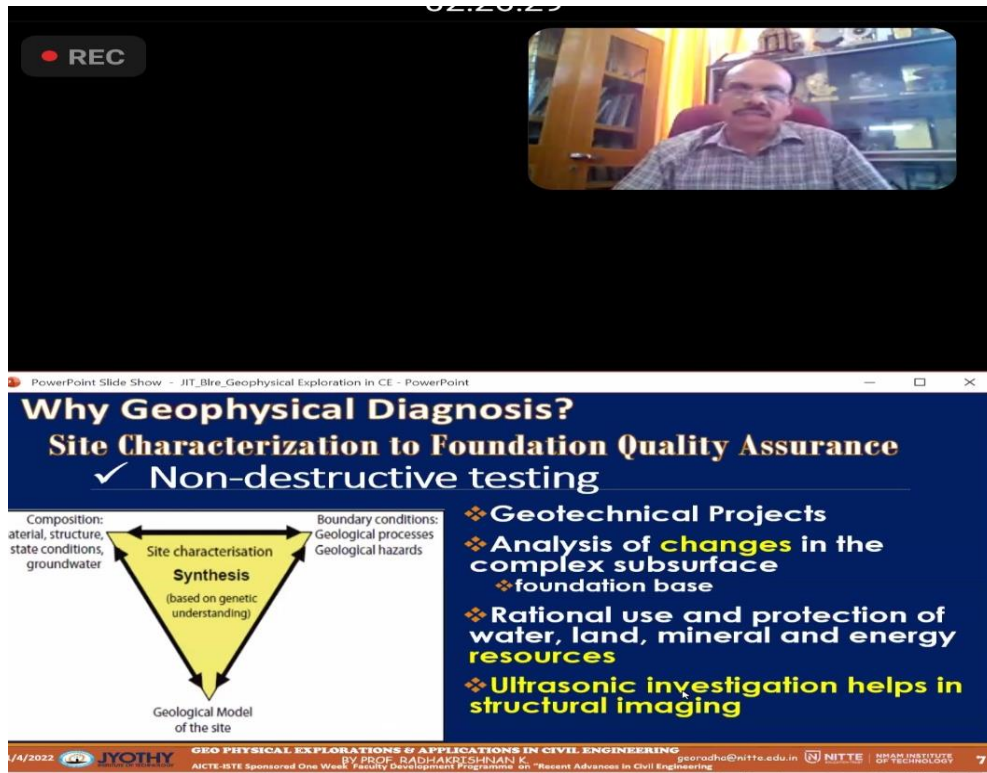
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50% dead

Tube wells/Bore wells

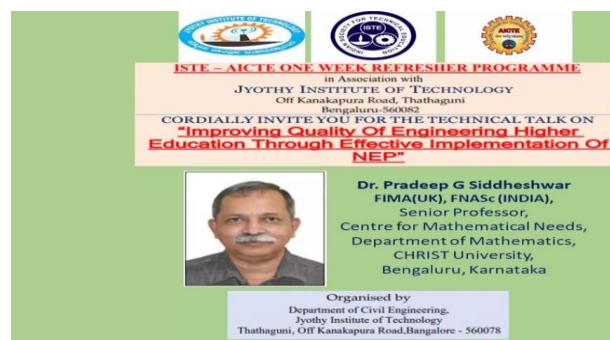
Day-06-Session-01 by Dr.U.T Vijay

In the second session, talk on “Geophysical Exploration and applications in Civil Engineering” by Dr.Radhakrishnan K, Professor, NMAMIT. The talk widely explained with respect to bore hole technology and locating the water table level. Here, speaker explained what are the current latest techniques involved to identify source of ground water table.



Day-06-Session-02 by Dr.Radhakrishnan K

The last day of last session organised on the topic “Improving quality of higher education through effective implementation of NEP” by Dr.Pradeep G Siddheshwar, Professor, CHRIST University. In this session speaker explained the future of education system with reference to NEP. Participants got rich knowledge and interacted well in this session.



Day-06-Session-03 by Dr.Pradeep G Sidheshwar

The valedictory programme conducted at 4 p.m both online and offline blended mode. Dr.Pratapsinh Kakasaheb Desai, President,ISTE, invited as chief guest for this event. The co-ordinator Dr.Sreekeshava K.S has given briefing about success of the event and Chief guest briefed the role of ISTE in improving the engineering education.



Day-06-Valedictory event



DEPARTMENT OF CIVIL ENGINEERING, JYOTHY INSTITUTE OF TECHNOLOGY