

# Mr. Ranjan Abraham

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🌐 <https://www.icet.ac.in/faculties/1/staff-profile>



## Employment History

- April 2010 - . . . . . **Assistant Professor**, Department of Civil Engineering, Ilahia College of Engineering and Technology
- January 2010 - March 2010 **Senior Lecturer**, Department of Civil Engineering, Ilahia College of Engineering and Technology
- August 2006 - December 2009 **Lecturer**, Department of Civil Engineering, Ilahia College of Engineering and Technology

## Education

- 2007 – 2009 **Post Graduation, Mahatma Gandhi University:** M. Tech. in Computer Aided Structural Engineering  
Thesis title: *Development of software for analysis and design of suspension bridges.*
- 1993 – 1997 **Under Graduation, Mahatma Gandhi University:** B. Tech. in Civil Engineering.  
Project title: *Planning and Structural Design of Municipal Bus Station cum Shopping Complex.*

## Research Publications

### Journal Articles

- 1 A. Ansymol and A. Ranjan, "Study on prismatic and non prismatic concrete filled steel tube columns encased with engineered cementitious composite," *International Research Journal of Engineering and Technology*, vol. 7, no. 5, pp. 4306–4313,
- 2 S. Athira and A. Ranjan, "Comparison of dynamic behaviour of structures subjected to blast loads," *International Journal of Engineering Trends and Technology*, vol. 28, no. 9, pp. 468–472,
- 3 S. Hafsamol and A. Ranjan, "Finite element analysis of corrugated web beams, column and slabconnection under loading condition," *International Research Journal of Engineering and Technology*, vol. 6, no. 5, pp. 5418–5422,
- 4 J. Jayalekshmi and A. Ranjan, "Finite element analysis on strengthening of fully prefabricated steel frame under seismic behaviour," *International Research Journal of Engineering and Technology*, vol. 6, no. 5, pp. 5612–5616,
- 5 M. Kylasnath and A. Ranjan, "Performance of high strength concrete prepared by partially replacing fine aggregate with bottom ash," *International Research Journal of Advanced Engineering and Science*, vol. 2, no. 2, pp. 170–174,
- 6 A. Ranjan and T. R. Neelakantan, "Waste material ashes used in concrete – a review," *International Journal of Engineering and Advanced Technology*, vol. 9, no. 1, pp. 192–195,

- 7 A. Ranjan, T. R. Neelakantan, and C. R. Babu, "Self-compacting concrete with alccofine and glass fiber," *International Journal of Engineering and Advanced Technology*, vol. 9, no. 1, pp. 188–191,
- 8 Z. Shaan and A. Ranjan, "Study on steel beam with folded web plates," *International Research Journal of Engineering and Technology*, vol. 7, no. 6, pp. 5121–5127,
- 9 M. Basil Mali and R. Abraham, "Study on geopolymer concrete used for paving blocks," *International Journal of Innovative Research in Advanced Engineering*, vol. 3, no. 9, 2016.
- 10 R. Sasidharan and R. Abraham, "Study of properties of high strength concrete prepared by replacement of fine aggregate with weathered crystalline rock sand & partial replacement of cement with ggbs," *International Journal of Engineering Research & technology (IJERT)*, vol. 5, no. 09, 2016.
- 11 Y. Sumitha and R. Abraham, "Experimental study on bentonite clay powder with silica fume and ggbs as partial replacement of cement in m40 grade concrete," *Int. J. Eng. Res. Technol*, vol. 5, pp. 339–343, 2016.
- 12 C. Jyothis Mary and R. Abraham, "Study of fresh state properties & durability of self compacting concrete with weathered crystalline rock sand as fine aggregate," *International Journal of Engineering Trends and Technology (IJETT)–Volume*, vol. 28, 2015.
- 13 A. Suresh and R. Abraham, "Experimental study on heavy weight concrete using hematite and laterite as coarse aggregate," *Int J Eng Trends Technol (IJETT)*, vol. 28, no. 4, 2015.
- 14 R. Abraham, "Development of a software for analysis and design of suspension bridges," *International Journal of Managment, IT and Engineering*, vol. 3, no. 5, pp. 58–74, 2013.
- 15 E. M. Mathew, S. M. Jamal, and R. Abraham, "Weathered crystalline rock: Suitability as fine aggregate in concrete—a comparative study," *International Journal of Innovative Research in Science, Engineering and Technology*, vol. 2, no. 4, 2013.

## Conference Proceedings



- 1 A. P. A and R. Abraham, "Structural performance of multi sectional cfst columns with double corrugated plate," in *Springer Lecture notes in Civil Engineering [Scopus Indexed], Volume -97, proceedings of SECON 2020, International Conference organized by Federal Institute of Science and Technology, Angamaly, Kerala, 2020.*
- 2 R. Abraham and T. R. Neelakantan, "Blended cement using calcined clay and lime stone for sustainable development – a review," in *Springer Lecture notes in Civil Engineering [Scopus Indexed], Volume -97, proceedings of SECON 2020, International Conference organized by Federal Institute of Science and Technology, Angamaly, Kerala, 2020.*
- 3 S. Babu and R. Abraham, "Potential of laterite stone powder as a partial cement replacement material," in *Proceedings of National Conference on Recent Innovations in Civil Engineering and Technology-2014 (RICET- 14), 2014.*
- 4 K. Jacob and R. Abraham, "Analysis of a conoid," in *Proceedings of National Conference on Recent Innovations in Civil Engineering and Technology-2014 (RICET- 14), 2014.*
- 5 P. A. Zachariah and R. Abraham, "Structural analysis of idukki arch dam using finite element method," in *Proceedings of National Conference on Recent Innovations in Civil Engineering and Technology-2014 (RICET- 14), 2014.*

## Skills

Computer Languages	■ C, C++, VB, VC++, Java, ASP, PHP, HTML, DHTML, XML, WML, Java Script, VB Script
RDBMS	■ M.S. SQL Server, Sybase SQL Server, My SQL

## Skills (continued)






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- Packages       Staad Pro, Auto CAD, M.S. Visual Inter Dev 6.0 and M.S. Site Server 3.0 Commerce Edition, Ansys, NISA, SAP 2000, STRAP
- Operating Systems       M.S. DOS, Windows and Linux

## Miscellaneous Experience

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### Certification/Affiliation

- 2023 January – 2023 March       **Certification. NTPEL:** Development and Applications of Special Concretes.
- 2021 July – 2021 October       **Certification. NTPEL:** Design of Reinforced Concrete Structures.
- 2019 July – 2019 October       **Certification. NTPEL:** Strength of Materials.
- 2019 February – 2019 April       **Certification. NTPEL:** Plastic Waste Management.
- 2018 July – 2018 October       **Certification. NTPEL:** Structural Health Monitoring.

### Seminars/Workshops/FDPs

- 2023       **The art of authoring and publication of academic books**, two days FDP (ICET).
-  **Sustainable Urban Mobility and Public Transport**, three days FDP (KMEA).
- 2022       **Sustainable Developments and Practices in Geotechnical and Geo environmental Engineering**, five days FDP (RSET).
- 2020       **Know Everything Related to Research**, five days online FDP (ICET).
-  **Safety Measures in Transportation Systems**, three days online FDP (MITS).
-  **Industrial relevance of Structural and Concrete Technology**, seven days online FDP (VVIT).
-  **Course Outcome and Assessment**, webinar (KARE).
-  **Emerging Trends in Concrete Technology**, webinar (KARE).
-  **Alternative Materials for Sustainable Concrete-A Research Perspective**, webinar (KARE).
-  **Advanced Concrete Technology**, 35 sessions webinar (ICI, Kochi).
-  **Modern Trends in Construction Industry**, webinar (VVIT).

## Miscellaneous Experience (continued)

- 2019 **■ Innovative Materials for Sustainable Construction**, deminar (ICI, Kochi).
- 2018 **■ Geo-Hazards and Disaster Mitigation**, three days FDP (VJCET).
- 2018 **■ Nano Materials in Concrete**, six days FDP (TKMCE).
- 2014 **■ Recent Advances in Project Management Automation**, five days FDP (MACE).
- Advanced Project Management using Candy**, two days FDP (MACE).
- 2013 **■ Eco-Smart Buildings**, two days FDP (SNGCE).
- 2012 **■ Advanced Concrete Technology**, six days FDP (MACE).
- Innovations in Civil Engineering**, two days conference (SCMS).
- 2009 **■ Sustainable design of Structures using FEM**, five days FDP (SNGCE).

## Duties/Responsibilities

- 2023 **■ Deputy Head of Department**
- P. G. Coordinator**
- Convener - Antiragging Committee**
- Member - Students Welfare Committee**
- Member - Students Grievance Redressal Committee**
- Department MOOC Coordinator**
- Department MoU in charge**
- Staff Coordinator - ICI students chapter**
- Member - Department Advisory Committee**
- Member - Program Assessment Committee**