

Staff Name	:	Dr.K.Vijai
Faculty ID	:	TCI18
Designation	:	Professor
Qualification	:	M.E., Ph.D
Teaching experience	:	24 Years 2 Months (Professor – 9 Years 9 Months Associate Professor – 4 Years 4 Months Assistant Professor – 1 Year 4 Months Senior Lecturer – 3 Years Lecturer - 5 Years 9 Months)
Area of specialization	:	Structural Engineering
Subjects handled	:	P.G. <ol style="list-style-type: none"> 1. Stability of Structures. 2. Advanced Concrete Technology 3. Forensic Engineering and Rehabilitation of Structures 4. Structural Optimization 5. Structural Dynamics U.G. <ol style="list-style-type: none"> 1. Design of Reinforced Cement Concrete Elements 2. Design of Steel Structural Elements 3. Strength of Materials. 4. Mechanics of solids 5. Engineering Mechanics 6. Structural Analysis – I & II. 7. Computer Aided Design of Structures. 8. Basic Civil Engineering.
Book Chapters published	:	1 in Springer's Lecture Notes in Civil Engineering
Journals published	:	<ul style="list-style-type: none"> • International Journals: 39 • National Journals: 11 • Scopus Indexed: 28 Publications • Web of Science: 12 Publications • Google Scholar - No. of Citations: 658 H index: 11 • Scopus - No. of Citations: 291 H index: 7 • International / National Conferences: 24

Conference / Workshop
/ Seminar / FDP
Organized

- Webinar on the topic “**Prefab Construction – Building the future**” on 15.07.2020.
- Webinar on the topic “**Challenges in Underground Structures**” on 20.06.2020.
- Webinar on the topic “**Project Management in Construction – an Industry approach**” on 06.06.2020.
- Continuous Professional Development program accredited by Engineering Council of India on “**Advances & Innovations in Repair, Rehabilitation & Retrofitting**” at Fortune Pandiyan Hotel, Madurai during 9th & 10th March 2018.
- National Seminar on “ **Concrete Mix Design**” in association with Association of Consulting Civil Engineers (India), Madurai Centre & Indian Concrete Institute, Madurai Centre on 08.03.2018
- **AICTE Sponsored** Faculty Development Programme on “**Limit State Design of Steel Structures**” from 7th to 20th November 2017.
- National level workshop on “**Civil Engineering applications using Remote Sensing & GIS Techniques**” during 5th and 6th October 2017.
- ISTE Sponsored National Seminar on “**Seismic Resistant Design of Masonry and Reinforced Concrete Structures**” from **23.08.2017 to 24.08.2017**.
- Two Days Workshop on “**Tall Building Design**” was organized from 16.03.2017 to 17.03.2017, in association with Indian Technology Group, **Mumbai**.
- One Day Workshop on “**Civil Software – 3D Max & Revit Architecture**” was organized on 09-02-2017, in association with CADD Centre, Madurai.
- One week FDTP on “**Structural Analysis II**” approved by Anna University, Chennai from 12.12.2016 to 18.12.2016
- One day Workshop on “**Effective pedagogical Practices**” organized through ISTE faculty Chapter in association with CADD Centre, Madurai on 25.11.2016
- One day Faculty Development Workshop on “**ETABS**” in association with CADD Centre, Madurai on 24.11.2016
- One day Workshop on “**Recent Trends in Project Planning & Management**” in association with CADD Centre, Madurai on 23.09.2016.

- One day Workshop on “**Modern Surveying Techniques**” in association with Global CADD Education, Madurai on 27.07.2016.
- One week FDTP on “**Structural Analysis I**” approved by Anna University, Chennai from 01.06.2016 to 07.06.2016.
- ISTE Sponsored National Conference on “**Recent Advancements in Construction Materials and Concrete Technology**” on 27th May 2016.
- One day Seminar on “**Nanotechnology and Modern Construction Practices**” in association with ICI Madurai Centre on 21.03.2016.
- Software Launch program & Tech Talk 2016 on **Infrastructure Management Solutions** in association with CADD Centre on 04.2.2016.
- One week FDTP on “**Engineering Mechanics**” approved by Anna University, Chennai from 30.11.2015 to 06.12.2015.
- “**Environmental Awareness Exhibition**” for school students on 14.10.2015 sponsored by Tamilnadu State Council for Science & Technology.
- One day seminar on “**Recent trends in Construction Materials & Methods**” on 10th September 2015.
- Workshop cum Championship on “**Bridge Design**” was organized on 3rd and 4th March 2015 in association with ARK Technosolutions and Helios, IIT Bombay.
- National level Technical Seminar on “**Emerging Trends in Civil Engineering Software & Prospective Career Opportunities**” on 28th February 2014
- State Level Technical Seminar on “**Construction & Safety aspects of Nuclear Power Plants**” sponsored by NPCIL on 4th October 2012
- AICTE Sponsored two days seminar on “**Earthquake Engineering with Disaster Management**” during 12th & 13th May 2010.
- National Conference on “**Recent Advancements in Construction Materials and Concrete Technology**” on 24th April 2009.

<p>Conference / workshop / Seminar/ FDP attended</p>	<p>:</p>	<ol style="list-style-type: none"> 1. AICTE-ISTE sponsored two weeks Training Programme on "Software Applications in Structural Engineering" during Dec. 6-19, 1999, at CIT, Coimbatore. 2. AICTE-ISTE sponsored two weeks Training Programme on "Computational methods in Civil Engineering", during Nov. 9-22, 2000, at Kongu Engineering. College, Erode. 3. AICTE-ISTE sponsored two weeks Training Programme on "I.T Applications in Civil Engineering" during Dec. 8-20, 2003, at Mepco Schlenk Engineering College, Sivakasi. 4. AICTE sponsored QIP course on "Seismic Resistant Design of Masonry and Reinforced Concrete Buildings" during Jan 17 – 21, 2005, at IISC, Bangalore. 5. One day workshop on "Opportunities for Government funded R&D projects for Engineering educational Institutions", on 5.10.2007 held at J.N.Tata Auditorium, IISC,Bangalore 6. Two days National Seminar on " Recent advances and Future Trends in Valuation", on 2-3, May 2009, Organized by Institution of Valuers, Madurai Branch 7. Two days National Seminar on "Practical Approach to Valuation", on 9-10, Oct 2010, organized by Institution of Valuers, Madurai Branch. 8. AICTE sponsored two weeks faculty development programme on "Design of Steel Structures" during 25th May to 7th June 2012 , at Sona College of Technology, Salem. 9. NPCIL Sponsored State level Technical Seminar on "Construction and Safety Aspects of Nuclear Power Plants" during 4th October 2012 at Sona College of Technology, Salem. 10. National level Technical Seminar on " Emerging Trends in Civil Engineering Software & Prospective Career Opportunities" during 28th February 2014 at Sethu Institute of Technology, Pulloor, Kariapatti 11. One day seminar on "Recent trends in Construction Materials & Methods" at Sethu Institute of Technology on 10th September 2015. 12. Guest lecture on "Developments in the field of concrete Technology" by Er.S.P.Srinivasan organized by ICI, Madurai centre at Fortune Pandiyan Hotel, Madurai on 23rd Dec 2015.
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13. One day workshop on **“Professionalization of Engineers”** organized by Engineering Council of India at Hotel Sangam, Madurai on 29th December 2015.
14. Guest lecture on **“Durability of concrete”** by Dr.K.Arunachalam organized by ICI, Madurai centre at Fortune Pandiyan Hotel, Madurai on 12th January 2016.
15. Tech Talk 2016 on **“Infrastructure Management Solutions”** organized by Sethu Institute of Technology in association with CADD Centre on 4th February 2016.
16. Symposium on **“Smart Cities- Challenges & Constraints”** organized by Thiagarajar College of Engineering, in association with ACCE(I) and ICI Madurai Chapter on 10th and 11th March 2016
17. One day workshop on **“Intellectual Property Rights & Innovations”** organized by Faculty Development Cell of Sethu Institute of Technology on 20.04.2016.
18. First International Conference on Civil Engineering and Materials Science, **Nanyang Executive centre, Singapore** on 1st- 3rd May 2016
19. Guest lecture on **“Tall Buildings”** by Prof.V.Muthu organized by ACCE(I) and ICI, Madurai centre at Fortune Pandiyan Hotel, Madurai on 26th May 2016.
20. **“Geospatial consortium Partnership Collaborative vision development Workshop”** conducted by the University of IOWA, USA in association with Meenakshi Mission Hospital & Research Centre, Madurai on 30th June & 1st July 2016.
21. National Conference on **“Effective Use of Construction Chemicals for durable and sustainable built environment”** jointly organized by ICI, Madurai Centre and ACCE(I) , Madurai Centre on 7th & 8th October 2016 at Hotel Fortune Pandiyan, Madurai.
22. 2nd International Conference on **Structural Architectural and Civil Engineering**, held on 19th - 20th November 2016, in Dubai
23. ISTE Sponsored National Seminar on **“Seismic Resistant Design of Masonry and Reinforced Concrete Structures”** organized by Department of Civil Engineering, Sethu Institute of Technology from 23.08.2017 to 24.08.2017.

		<p>24. National level workshop on “Civil Engineering applications using Remote Sensing & GIS Techniques” organized by Department of Civil Engineering, Sethu Institute of Technology during 5th and 6th October 2017</p> <p>25. AICTE Sponsored two weeks Faculty Development Programme on “Limit State Design of Steel Structures”, organized by Department of Civil Engineering, Sethu Institute of Technology during 7th to 20th November 2017.</p> <p>26. National Seminar on “Concrete Mix Design” in association with Association of Consulting Civil Engineers (India), Madurai Centre & Indian Concrete Institute, Madurai Centre at Sethu Institute of Technology on 08.03.2018.</p> <p>27. Continuous Professional Development program accredited by Engineering Council of India on “Advances & Innovations in Repair, Rehabilitation & Retrofitting” at Fortune Pandiyan Hotel, Madurai during 9th & 10th March 2018.</p> <p>28. AICTE recognized online FDP on “Advanced Construction Technology” organized by NITTTR, Chandigarh during 18.05.2020 to 22.05.2020</p> <p>29. AICTE recognized online FDP on “Clean and Green Technology for Sustainable Environment” organized by NITTTR, Chandigarh during 25.07.2020 to 29.07.2020</p>
Professional Membership	:	<ul style="list-style-type: none"> • Professional Engineer in Board of Registration of Professional Engineer • Fellow of Institution of Engineers • Life Member of Indian Concrete Institute • Life member of Indian Society for Technical Education
Funded project details	:	<ul style="list-style-type: none"> • Received a research grant of Rs.3.65 Lakhs from University Grants Commission under Minor Research Projects Scheme in the year 2017 for the research project titled “Development of low cost roofing elements for rural housing using geopolymer Composites”
Research activities		<ul style="list-style-type: none"> • Recognized research supervisor of Anna University, Chennai for guiding Ph.D. and M.S. (By Research) Scholars.
Projects / Thesis Guided		<ul style="list-style-type: none"> • UG : 31 • PG : 19 • Ph.D : 1 (Completed) & 2 (Guiding)