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**Qualification:**

**Ph.D.** (Structural Engineering) – National Institute of Technology, Tiruchirappalli.

**M.E** (Structural Engineering) - Regional Engineering College, Tiruchirappalli.

**B.E** (Civil Engineering) - Government College of Technology, Coimbatore.

**PGDCA**

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**Membership:**

**ISTE (LM 11802)**

**ICI (LM 8936)**

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**Area of Teaching:**

- ❖ Strength of Materials
  - ❖ Structural Analysis
  - ❖ Design of RC
  - ❖ Design of Steel
  - ❖ Repair and Rehabilitation of Structures
  - ❖ CAD in Civil Engineering
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**Research Interests:**

- ❖ Size Effect of Concrete Elements
  - ❖ Fracture Mechanics
  - ❖ Building Materials
  - ❖ Computer Applications
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## PUBLICATIONS - JOURNALS

1. **Nirmala, J., Dhanalakshmi G. and Rajaraman, A., (2015),** “Flow Variations due to damage in Irrigation Structures”, *International Journal of Advanced Information Science and Technology*, Vol. 18, No. 18, pp. 1 to 6, IF 3.564
2. **Nirmala, J. and Dhanalakshmi G., (2015),** “Influence of Nano Materials in the Distressed Retaining Structure for Crack Filling”, *Journal of Construction and Building Materials*, IF-2.265.
3. **Nirmala, J., Dhanalakshmi G. and Rajaraman, A., (2015),** “Influence of Nano Materials in the Distressed Domain during Maintenance”, *Journal of Advanced Materials Research*, pp.132 to 136.
4. **Nirmala, J., Dhanalakshmi G. and Rajaraman, A., (2015),** “Performance of Distressed Irrigation Structure – A Numerical Approach using FEM”, *International Journal of Applied Engineering Research*, (SNIP:0.14)
5. Loheshrajan, P. and Dhanalakshmi G. (2015), “Experiment Study on Strength Behaviour of Self Curing Fly Ash Concrete”, *International Journal of Applied Engineering Research*, ISSN 0973-4562, Vol. 10, Number 13 (2015), pp. 11494 to 11499.
6. **Nirmala J., Dhanalakshmi G. (2012),** “**Numerical Analysis and Study of Nanomaterials for Repair in Distressed Irrigation Structures**”, Proceedings of the two day International Conference on Emerging Trends in Science, Engineering and Technology (INCOSET 2012) at JJ College of Engineering, Tiruchirappalli on 13/12/12. This paper was peer reviewed and published in the IEEE Xplore / Springer Digital Library.
7. **Dhanalakshmi G.,** Jothimani J., Natarajan C. and Rajaraman A. (2007), “Modelling influence on the response of RC beams”, *International Journal of Science, Engineering and Technology*, MANIT, Bhopal. – V-1, 2007. (F.No. 11/10(7)/ 516 Dt. 17.4.07).
8. **Dhanalakshmi G.,** Natarajan C. and Rajaraman A. (2007), “ Size effect and Damage in Concrete Beam Models”, *New Building Materials and Construction World*, B-27, II Floor, Nizamuddin West, NEWDELHI – 110 013.
9. **Dhanalakshmi G.,** Natarajan C. and Rajaraman A. (2006), “Influence of Size effect on response of RC beam”, *Journal of Structural Engineering*, Structural Engineering Research Centre, CSIR Campus, Taramani, Chennai – 600 113, India, V. 34, No.3, August - September, pp. 237-242.

## PUBLICATIONS - CONFERENCES

1. Priyadharshini, M., Selvaraj R. and **Dhanalakshmi** G. (2014), “Effect of Viscosity Modifiers in Cement Mortar”, National Conference on Trendy and Sustainable Development in Civil Engineering (NCTSDCE-14), Department of Civil Engineering, K.S.R. College of Engineering, Tiruchengode, on 03/05/2014, pp. 322.
2. Santhi K., Selvaraj R. and **Dhanalakshmi** G. (2014), “Corrosion Resistant Geopolymer Coating for Steel Reinforcement” National Conference on Trendy and Sustainable Development in Civil Engineering (NCTSDCE-14), Department of Civil Engineering, K.S.R. College of Engineering, Tiruchengode, on 03/05/2014, pp. 289.
3. Santhi K., Selvaraj R. and **Dhanalakshmi** G. (2014), “Study on Geo Polymer for Corrosion Protection in RCC Structures”, TEQIP-II Sponsored International Conference on Innovations and Advances in Civil Engineering towards Green and Sustainable Systems, INACES-2014, Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore, on 28/04/2014 to 30/04/2014, pp. 24.
4. Priyadharshini, M., Selvaraj R. and **Dhanalakshmi** G. (2014), “Characterisation of Viscosity Modifiers of Corrosion Protection in Concrete”, TEQIP-II Sponsored International Conference on Innovations and Advances in Civil Engineering towards Green and Sustainable Systems, INACES-2014, Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore, on 28/04/2014 to 30/04/2014, pp. 20.
5. Archana S., and **Dhanalakshmi** G., (2014), “Waste Plastics as Re-usable Building Material”, National Conference on Technological Innovations in Structural Engineering, Department of Civil Engineering, Ana University-Regional Centre, Coimbatore, on 11/04/2014.
6. Divya P. Paul, and **Dhanalakshmi** G., (2014), “Creep on Fly Ash Concrete”, National Conference on Advancements in Materials, Construction and Sustainable Environment, AMCSE-2014, Department of Civil Engineering, Kalasalingam University, Krishnakoil, on 29/03/2014, pp. 53.
7. Priyadharshini, M., Selvaraj R. and **Dhanalakshmi** G. (2014), “Evaluation of Properties of Cement Mortar Admixed with Viscosity Modifiers”, National Conference on Advancements in Materials, Construction and Sustainable Environment, AMCSE-2014, Department of Civil Engineering, Kalasalingam University, Krishnakoil, on 29/03/2014, pp. 42.
8. Santhi K., Selvaraj R. and **Dhanalakshmi** G. (2014), “Characterization of Geo Polymer for Corrosion Protection in RCC Structures”, National Conference on Advancements in Materials, Construction and Sustainable Environment, AMCSE-2014, Department of Civil Engineering, Kalasalingam University, Krishnakoil, on 29/03/2014, pp. 41.

9. Nathiya K., and **Dhanalakshmi G.**, (2014), “Experimental Investigation on Behaviour of Copper Slag admixed Self Compacting Concrete”, International Conference on Civil Engineering, Building Materials and Environmental Engineering (ICCBE’14), Department of Civil Engineering, Maria College of Engineering and Technology, Kanyakumari, on 28/03/2014, pp. 262.
10. Kanna N., and **Dhanalakshmi G.**, (2014), “Experimental Investigation on High Performance Concrete with Nano Fly Ash as partial replacement of Cement”, International Conference on Civil Engineering, Building Materials and Environmental Engineering (ICCBE’14), Department of Civil Engineering, Maria College of Engineering and Technology, Kanyakumari, on 28/03/2014, pp. 247.
11. Rathiga R., and **Dhanalakshmi G.** (2014), “Study on the effect of fly ash based Geo Polymer Concrete with Glass Fibre”, International Conference on Civil Engineering, Building Materials and Environmental Engineering (ICCBE’14), Department of Civil Engineering, Maria College of Engineering and Technology, Kanyakumari, on 28/03/2014, pp. 58.
12. Murugesan C., and **Dhanalakshmi G.**, (2014), “Experimental Study on Concrete Filled Stainless Steel Tubular Columns”, International Conference on Civil Engineering, Building Materials and Environmental Engineering (ICCBE’14), Department of Civil Engineering, Maria College of Engineering and Technology, Kanyakumari, on 28/03/2014, pp. 21.
13. Senthilkumar V., and **Dhanalakshmi G.**, (2014), “Experimental Study on Replacing Aggregates by Concrete Waste”, International Conference on Civil Engineering, Building Materials and Environmental Engineering (ICCBE’14), Department of Civil Engineering, Maria College of Engineering and Technology, Kanyakumari, on 28/03/2014, pp. 15.
14. Priyadharshini, M., Selvaraj R. and **Dhanalakshmi G.** (2014), “The role of Viscosity Modifiers in Concrete ”, TEQIP-II Sponsored National Conference on Recent Trends in Civil and Environmental Engineering, Department of Civil Engineering (RTCEE), Anna University – BIT Campus, Tiruchirappalli, on 21/03/2014 to 22/03/2014, pp. 42.
15. Santhi K., Selvaraj R. and **Dhanalakshmi G.** (2014), “Anti Corrosive Geo Polymer coating for Steel Reinforcements in Concrete”, TEQIP-II Sponsored National Conference on Recent Trends in Civil and Environmental Engineering, Department of Civil Engineering, Anna University – BIT Campus, Tiruchirappalli, on 21/03/2014 to 22/03/2014, pp. 39.
16. Kanna N., and **Dhanalakshmi G.** (2014), “Experimental Investigation on High Performance Concrete with Nano Fly Ash as partial replacement of Cement”, TEQIP-II Sponsored National Conference on Recent Trends in Civil and Environmental Engineering, Department of Civil Engineering, Anna University – BIT Campus, Tiruchirappalli, on 21/03/2014 to 22/03/2014, pp. 11.

17. **Dr. G. Dhanalakshmi**, and SR. Aravinthakumar (2013), "Partial replacement of Coarse Aggregate in Concrete with E-Waste", Proceedings of the National Conference on Recent Innovations in Civil Engineering, organized by Department of Civil Engineering, AC College of Engineering and Technology, Karaikudi, sponsored by TEQIP, 03/05/13, pp 131-135.
18. AR. Manikandan, G. **Dhanalakshmi** (2013), "Pervious Concrete", Proceedings of the International Conference on Futuristic Innovations and Developments in Civil Engineering Organized by the Department of Civil Engineering, Mepco Schlenk Engineering College, Sivakasi, on 18/04/13 to 20/04/13.
19. Nirmala J., **Dhanalakshmi G** (2013), "Study of behaviour of Nano Materials in Distressed Irrigation structures during repairing using Numerical analysis", Proceedings of the National Conference on Emerging Trends in Engineering, Technology and Management, organized by the Department of Civil Engineering, Oxford Engineering College, Tiruchirappalli on 06/04/13, pp. 402-406.
20. Nirmala J., **Dhanalakshmi G.** (2013), "Nanomaterials and Numerical Analysis in Irrigation Engineering" UKIERI Concrete Congress for Innovations in Concrete Construction from 05/01/12 to 08/03/2013 in Dr B R Ambedkar National Institute of Technology , P.O. REC, Jalandhar - 144 011 (Punjab).
21. Nirmala J., **Dhanalakshmi G.** (2012), "Numerical Studies in Seepage in distressed irrigation structures and study of Nano Silica for repair". Proceedings of the One Day National Seminar on "Nano Composites In Civil Engineering And Green Environment" at KLN College of Information Technology, Pottapalayam on 4/5/12, pp 44 to 51.
22. Nirmala J., **Dhanalakshmi G.** (2012). "Behaviour of Composite Materials using Nano Technology", *Proceedings of the National Conference on Recent Trends in Aeronautical, Civil and Mechanical Engineering (NCRTACME'12)* organized by Mount Zion College of Engineering and Technology, Pudukkottai on 8/3/12.
23. Nirmala J., **Dhanalakshmi G.** (2011), "NANO - A Modern Technology in Construction", *Two Day National Conference on Recent Trends in Civil and Mechanical Engineering*, Anna University of Technology, Tiruchirappalli, pp 124 – 126.
24. Nirmala J., **Dhanalakshmi G.** (2011), "Influence of Nano Materials in Construction" , *One Day National Conference on Modern Trends in Civil Engineering*, Dr. Sivanthi Adithanar College of Engineering, Tiruchendur, pp 172-178.
25. Nirmala J., **Dhanalakshmi G.** (2011), "Nano Technology in Construction", *Proceedings of InterNational Conference on Civil, Structural and Environmental Engineering*, InterNational Conference on Civil, Structural and Environmental Engineering, 18<sup>th</sup> February, KSR College of Engineering, Tiruchengode.

26. Anbarasan S., **Dhanalakshmi G.** (2010), “Remote Sensing Applications in Wind Energy Field - an Overview” MNRE sponsored Two Days National Conference, 17<sup>th</sup> July, organized by the Department of Mechanical Engineering, Oxford Engineering College, Tiruchirappalli.
27. **Nirmala J., Dhanalakshmi G.** (2010), “Nano Concrete”, *Proceedings of NCACT10, AICTE Sponsored National Conference on Advancement in Concrete Technology [NCACT10]*, on 23<sup>rd</sup> September, KSR College of Engineering, Tiruchengode, pp 105 to 107.
28. **G. Dhanalakshmi**, C. Natarajan and A. Rajaraman (2008), “Size effect and Modeling effect of RC beams using Fracture Mechanics “Proceedings of the International Conference on Innovative on small structural systems for sustainable habitat, INSHAB2008, 3rd to 5th January, Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore, Tamilnadu, India, pp. 42.
29. **G. Dhanalakshmi**, C. Kalaivani, C. Natarajan and A. Rajaraman (2007), “Size effect of RC beams using Fracture Mechanics “ *First International Conference on Recent Trends in Structural Engineering*, 29th and 30th August & 1st September, Department of Civil Engineering, Manipal Institute of Technology, Manipal , India, pp. 190.
30. **Dhanalakshmi G.**, J. Jothimani, Natarajan C. and Rajaraman A. (2006), “Influence Of Size Effect On Response Of RC Beam”, The Tenth East Asia-Pacific Conference on Structural Engineering and Construction, 3rd to 5th August 2006, School of Civil Engineering, Asian Institute of Technology (AIT), Klong Luang, Pathumthani 12120, Thailand, pp. 681 – 688.
31. **Dhanalakshmi G.**, Natarajan C. and Rajaraman A. (2006) “Modelling issues and size effects in analysis of RC beams”, *Proceedings of the Tenth East Asia-Pacific Conference on Structural Engineering and Construction*, 3rd to 5th August 2006, School of Civil Engineering, Asian Institute of Technology (AIT), Klong Luang, Pathumthani 12120, Thailand, pp. 673 - 680 .
32. **G. Dhanalakshmi**, C. Kalaivani, C. Natarajan and A. Rajaraman (2006), “ Size Effect in Plain Concrete Beams using Fracture Mechanics “, *Proceedings of Second National Conference on Recent Trends in Concrete Composites for Structural Systems*, 14th and 15th March 2007, Department of Civil Engineering and Research, Kongu Engineering College, Perundurai, Erode, Tamilnadu, India. pp. 23-28.
33. **Dhanalakshmi G.**, Natarajan C. and Rajaraman A. (2005), “ Size effect and Damage in Concrete Beam Models”, *Proceedings of International Conference on Emerging Adaptive Systems and Technologies*, 16th and 17th December 2005, Noorul Islam College of Engineering, Kumaracoil – Tamilnadu, India, pp. 1101 – 1111.
34. **Dhanalakshmi G.**, Sakhthivel S., Natarajan C. and Rajaraman A. (2005), “ Modelling Parameters and size effects in concrete beam with cracking “, *Proceedings of First National*

*Conference on Recent Trends in Structural Engineering*, 29th and 30th August 2005, Department of Civil Engineering, Manipal Institute of Technology, Manipal, India. pp. 54.

35. Sakthivel S., **Dhanalakshmi G.**, Natarajan C. and Rajaraman A. (2005), “Modelling parameters and size effects in concrete beam behaviour” , *Proceedings of First National Seminar on Recent Trends on Structural Engineering*, 9th and 10th May 2005, Department of Civil Engineering, Institute of Road and Transport Technology, Erode, Tamilnadu, India, pp. 277 –281.
36. Shanthi, J., **Dhanalakshmi G.**, Natarajan C. and Rajaraman A. (2005), “Effect of Finite Element Modelling on the size of Concrete Beams” , *Proceedings of First National Seminar on Recent Trends on Structural Engineering*, 9th and 10th May 2005, Department of Civil Engineering, Institute of Road and Transport Technology, Erode, Tamilnadu, India, pp. 270 –276.
37. **Dhanalakshmi G.**, Natarajan C., (2004) , “Behaviour of Cement – Flyash blocks and masonry prisms”, International Conference organized by Coimbatore Institute of Technology, Coimbatore.

## Lectures Delivered

- Delivered a Lecture on “**Computer Fundamentals**”, (2001), PWD Training Institute – REC – Tiruchirappalli.
- Delivered a Lecture on “**World Wonders – Civil Engineers View**” (2002), Roever Polytechnic College – Perambalur.
- Delivered a Lecture on “**Characteristics of Ceramic Concrete**” (2004), International Conference – Structural Engineering Research Centre – Chennai.
- Delivered a Lecture on “**Testing of Construction Materials**” (2008), One day Seminar for Civil Engineers organized by Oxford Engineering College and Ultra Tech Cements Pvt. Ltd., Tiruchirappalli.
- Delivered a Lecture on “**Testing of Construction Materials**” (2008), One day Seminar for Civil Engineers organized by Oxford Engineering College and Ultra Tech Cements Pvt. Ltd., Tiruchirappalli.
- Delivered a Lecture on “**Non-Destructive Testing Techniques of Structures**”, (2010), proceedings of the AICTE sponsored 14-day Staff Development Programme on “Failure of Structures” from 5<sup>th</sup> May 2010 to 18<sup>th</sup> May 2010 organised by Department of Civil Engineering, Oxford Engineering College, Tiruchirappalli.
- Delivered a Lecture and Conducted Practical classes **on Testing of Materials**, (2010), Five Day Masons Training Programme from 15<sup>th</sup> November to 19<sup>th</sup> November, Department of Civil Engineering, Oxford Engineering College, Tiruchirappalli in association with UltraTech Cements Pvt. Limited, Tiruchirappalli.
- Delivered a Lecture on “**Housing**”, (2011), One day Workshop on Town Planning, 21<sup>st</sup> February, Department of Civil Engineering, Oxford Engineering College, Tiruchirappalli in association with ICI Student Chapter.
- Delivered a Lecture on “Civil Industry Today” and Chief Guest for the Inauguration of Civil Engineering Association, organized by the Department of Civil Engineering, Mother Teresa College of Engineering, Illuppur, Pudukkottai.
- Delivered a Lecture on “Opportunities for Civil Engineers” and Chief Guest for the Valedictory Function of Civil Engineering Association, organized by the Department of Civil Engineering, Shri Angalamman College of Engineering and Technology, Siruganoor, Tiruchirappalli on 10/04/13.
- Delivered a Lecture on “Job opportunities for Civil Engineers” and Chief Guest for the Inaugural Function of Civil Engineering Association, organized by the Department of Civil Engineering, Kongunadu College of Engineering and Technology on 10/07/13.



- Dr. G. Dhanalakshmi, Professor and Head, delivered a Lecture on “Opportunities for Civil Engineers” and also the Chief Guest for the Valedictory Function of Civil Engineering Association, organized by the Department of Civil Engineering, Shri Angalamman College of Engineering and Technology, Siruganoor, Tiruchirappalli on 10/04/13.

### **IMPORTANT COURSES ATTENDED**

<b>Date</b>	<b>Nature of the Course</b>	<b>Details</b>
Jan 1987 – June 1987	PGDCA	“ <b>Post Graduate Diploma in Computer Applications</b> “, JKK Computer Centre, Tiruchirappalli.
27 <sup>th</sup> Dec. 1991	Crash Course	One day Crash Course on “ <b>Irrigation And Water Management</b> ”, Regional Engineering College, Tiruchirappalli.
6 <sup>th</sup> April 1992 to 10 <sup>th</sup> April 1992	Seminar	“ <b>Finite Element Method</b> ”, Regional Engineering College, Tiruchirappalli.
3 <sup>rd</sup> Feb 1995 to 6 <sup>th</sup> Feb 1995	Seminar	“ <b>Tall Structures</b> “, Regional Engineering. College – Tiruchirappalli.
15 <sup>th</sup> May 1996 to 18 <sup>th</sup> Dec 1996	Diploma	“ <b>Diploma in AutoCAD</b> “- M-Base Computer Tech.-Thanjavur.
22 <sup>nd</sup> March 2004 to 27 <sup>th</sup> March 2004	ISTE Summer School Programme	“ <b>Geographic Information Systems</b> ” One week Course, Sri Angalamman College of Engineering & Technology, Tiruchirappalli.
22 <sup>nd</sup> Oct 2005 to 23 <sup>rd</sup> Oct 2005	Workshop	<b>Seismic Structural Analysis and Design</b> ” , Two Day Workshop, National Institute of Technology, Tiruchirappalli.
February 2007	Workshop	<b>Finite Element Methods</b> , Department of Civil Engineering, National Institute of Technology, Tiruchirappalli.
29 <sup>th</sup> Oct 2007	Workshop	<b>Design, Construction and Maintenance of Roads</b> , Department of Civil Engineering, National Institute of Technology, Tiruchirappalli.
17 <sup>th</sup> Dec 2007 to 18 <sup>th</sup> Dec 2007	International Workshop	<b>Infrastructural Engineering</b> under TEQIP organized by Department of Civil Engineering, National Institute of Technology, Tiruchirappalli.

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Date	Nature of the Course	Details
19 <sup>th</sup> Dec 2007 to 20 <sup>th</sup> Dec 2007	Workshop	<b>Advances in Steel Structural Design and Applications</b> under TEQIP organized by Department of Civil Engineering, National Institute of Technology, Tiruchirappalli.
6 <sup>th</sup> Dec 2010 to 9 <sup>th</sup> Dec 2010	International Conference	Indian Concrete Institute – (ICI) and Department of Civil Engineering, Indian Institute of Technology-Madras <b>IIT M</b> , Chennai jointly organized the <b>ASIAN CONFERENCE ON ECSTASY IN CONCRETE 2010</b> (once in Five years) <b>ICI-ACECON 2010</b> .
15 <sup>th</sup> Dec 2010 to 17 <sup>th</sup> Dec 2010	INDO-US Workshop	Department of Civil Engineering, National Institute of Technology, Tiruchirappalli organized Three Day <b>INDO-US Workshop on Forensic Engineering</b> .
24/06/11	Lecture	Dr. A. Senthilkumar, Senior Counsellor, Institute of Quality Management, CII, Hyderabad, delivered a lecture on CEO series of College Excellence Cluster on Quality Management. The lecture was organized by T&P cell, Oxford Engineering College, Tiruchirappalli.
17/08/11 to 18/08/11	International Workshop	A Two Day International Workshop on New Trends, New Products and New Directions (3N Concepts) for Civil Engineers organized by the Department of Civil Engineering, Government College of Technology, Coimbatore.
23/01/12 to 25/01/12	Continuing Professional Development Programme	Engineering Staff College of India, Autonomous Organ of the Institution of Engineers (India), Hyderabad, organized this Continuing Professional Development Programme on Quality Initiatives in Technical & Higher Educational Institutions (In Compliance with NBA & NAAC).
14/12/12 to 15/12/12	Intensive Hands on Workshop	Workshop on “NBA Accreditation Procedures & Practices” conducted by SRS Human Resource Services Chennai at IIT Madras.
30/01/14	QIP-Workshop	Participated in One day Quality Improvement Programme – organized by OEC-Nodal Centre of QIP Programme at Oxford Engineering College, Tiruchirappalli.
04/11/14 to 05/11/14	International Workshop	Two day Workshop on “Health Monitoring of Civil Structures” organized by the Department of Civil Engineering, National Institute of Technology, Tiruchirappalli.

**Funds Received :**

- ❖ Conducted the AICTE sponsored Staff Development Programme for 14 days on “Failure of Structures” during May 2010 and Received AICTE SDP Grant for Rs. 7,00,000/- .
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**Additional Information**

- Topper in the Project Work in M.E.
  - Member, Advisory Committee, SIT, Trichy.
  - Member, Board of Academic Studies, PRIST University, Thanjavur.
  - Research Supervisor, PRIST University, Thanjavur.
  - Member, Quality Assurance Committee, Periyar Maniammai University, Thanjavur.
  - Executive Member, ICI Tamilnadu Centre, Chennai.
  - Research Supervisor, Anna University of Technology, Tiruchirappalli.
  - Guided M.Tech. Thesis which was awarded as Best M.Tech. Thesis by ISTE during the year 2008.
  - Guided many mini projects on fibre reinforced concrete and case studies to students.
  - Arranged more number of Workshops and Seminars, Guest Lecture and Industrial Visits.
  - Involved in AICTE works and Anna University Project works.
  - Coordinator for NBA works in the year 2008 and Coordinator for ISTE chapter in the year 2009.
  - Department has received a National Award for BEST ICI STUDENT CHAPTER and State Award for OUTSTANDING STUDENT CHAPTER for the year 2010-11 and 2011-12.
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