

## **Dr.M.P.MUTHURAJ**

Assistant Professor  
Department of Civil Engineering,  
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### **EDUCATIONAL QUALIFICATION**

- **PhD (Civil Engineering)** – *Highly Commended*, Anna University, Chennai (2013)
- **M.E (Structural Engineering)** – *First Class*, Bharathiar University (**First Rank**), India (1998)
- **B.E. (Civil Engineering)** – *First Class*, Bharathiar University (**Third Rank**), India (1996)

### **EXPERIENCE**

- (a) Academic Teaching :- **16 years**
- (b) Research :- **10 years**
- (c) Consultancy :- **20 years**
- (d) Industry :- **04 years**

- ✓ **Assistant Professor** - Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore, Tamil Nadu, INDIA (**January 2010– till date**)
- ✓ **Lecturer** – Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore, Tamil Nadu, INDIA (**August 2004 – December 2009**)
- ✓ **Assistant Engineer** – Highways Department, Government of Tamilnadu, INDIA ( **September 2000 – July 2004**)
- ✓ **Lecturer** – Department of Civil Engineering, VLB Janakiammal College of Engineering and Technology, Coimbatore, Tamil Nadu, INDIA (**October 1998 – June 2000**)

### **Courses Handled in CIT:**

#### **UG Courses:**

- Basic Civil Engineering
- Surveying I
- Engineering Graphics
- Reinforced Concrete Structures
- Structural Analysis
- Design and Drawing
- Building Materials
- Experimental Stress Analysis

- Mechanics of Solids
- Mechanics of Soils
- Prestressed Concrete structures
- Earthquake resistance Design of Structures
- Strength of Materials Laboratory
- Concrete Laboratory
- Computer Aided Building Drawing

#### **PG Courses:**

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|--|---|
| ✓ <b>Computer Methods in Structural Analysis</b> | ✓ <b>Wind and Cyclone Effect on Structures</b>      |
| ✓ <b>Theory of Elasticity and Plasticity</b>     | ✓ <b>TQM in Construction</b>                        |
| ✓ <b>Stability of Structures</b>                 | • <b>Computer applications Laboratory</b>           |
| ✓ <b>Design of Concrete Bridges</b>              | • <b>Advanced Structural Engineering Laboratory</b> |
| ✓ <b>Mechanics of Composite Materials</b>        | • <b>Construction Engineering Laboratory</b>        |
| ✓ <b>Structural Optimization</b>                 |   |

#### **Book Written / Published:**

- **Text book on “ BASIC CIVIL AND MECHANICAL ENGINEERING”** M.P.MUTHURAJ & K.Mani, MM Publications, India (2009)
- **Text book on “Prestressed Concrete”** - M.P.MUTHURAJ, PHI Publications, India (2016)  
– to be published (in Press)

#### **Monographs:**

- ✓ **Experimental Stress Analysis** (2006)

#### **JOURNAL PUBLICATIONS (International Refereed Journals)**

##### **INTERNATIONAL JOURNALS**

- **Muthuraj, M. P.** and Jayaprakash, G., “Prediction of Compressive Strength of Various SCC Mixes using Relevance Vector Machine”, International Journal of Computer, Material and Continua, Vol.54, No. 1, pp.83 – 102, **2018**
- **Muthuraj, M. P.** and Nithyapriya, K., “Experimental studies on multicellular GFRP bridge deck panels under static and fatigue loading”, Sadhana, Indian Academy of Sciences, Vol. 42, No. 12, pp. 2171–2181, **2017**
- **Muthuraj, M. P.** and Nithyapriya, K., “Experimental and Numerical Investigations on Multicellular GFRP Bridge Deck Panels”, International Journal of Computer, Material and Continua, Vol.48, No. 2, pp.119 – 132, **2015**
- **Muthuraj, M. P.** “Experimental Investigation on Glass Fibre Reinforced Polymer Bridge Decks Subjected To Static and Fatigue Loading” International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 9, NO. 24, pp. 28749-28767, **2014**
- **Muthuraj, M. P.** and Subramanian, K., “Experimental Investigation of Glass Fibre Reinforced Plastic Bridge Decks Subjects to Static and Fatigue Loading”, **International Association for Engineering and Management Education**, ISSN 0976 - 6308, Vol.4, No.2, pp. 321-331, **2013**.
- **Muthuraj, M. P.** and Subramanian, K., “Comparison of Experimental Investigation on Glass Fibre Reinforced Polymer Bridge Decks Subjected to Static Loading with Analytical

Evaluation using ABAQUS", **European Journal of Scientific Research**, ISSN 1450 - 216, Vol.72, No.2, pp. 311-325, **2012**.

#### NATIONAL JOURNAL

- **Muthuraj, M. P.** and Nithyapriya, K., "Determination of Size-independent specific fracture energy and corresponding stress vs crack width relation for various concretes", *Journal of Structural Engineering*, ISSN 0970 – 0137, Vol.42, No. 2, pp. 167-175, **2015**
- **Muthuraj, M. P.** and Karthick, B., "Specific Fracture Energy For Normal Strength Concrete, High Strength Concrete And Fibre Reinforced Concrete - Three Approaches", *Journal of Structural Engineering*, ISSN 0970 – 0137, **2018** (accepted for publication)

#### CONFERENCES (International / National)

##### Organized:

- ✓ National Conference on "**Innovations in Civil Engineering Systems for Sustainable Construction**" – 22<sup>nd</sup> April **2015**, C.I.T, Coimbatore
- ✓ TEQIP –II Sponsored Two day National Level Conference on "**Frontier Applications in Civil and Environmental Engineering**" 24-25<sup>th</sup> Feb **2014**, C.I.T, Coimbatore
- ✓ National Conference on "**Innovative Technologies in Civil Engineering – ITCE, 2006**", 20-21<sup>st</sup> March **2006**, C.I.T, Coimbatore

##### Attended / Presented Paper:

- ✓ **Muthuraj M. P.** et al, Presented Paper "Shear Behaviour of Glass Fibre Reinforced Geopolymer Concrete" International conference on "**Structural engineering Convention 2016**", December 2016, CSIR SERC, Chennai
- ✓ **Muthuraj M. P.** et al, Presented paper "Impact of value engineering in construction industry" National Conference on "**Innovations in Civil Engineering Systems for Sustainable Construction**" – 22<sup>nd</sup> April **2015**, C.I.T, Coimbatore
- ✓ **Muthuraj M. P.** et al, Presented paper "Impact of various contract clauses dealing with construction project performance" National Conference on "**Innovations in Civil Engineering Systems for Sustainable Construction**" – 22<sup>nd</sup> April **2015**, C.I.T, Coimbatore
- ✓ **Muthuraj M. P.** et al, Presented paper "Studies on the mechanical properties of concrete with internal self curing polymer" National Conference on "**Innovations in Civil Engineering Systems for Sustainable Construction**" – 22<sup>nd</sup> April **2015**, C.I.T, Coimbatore
- ✓ **Muthuraj M. P.** et al, Presented paper "Experimental investigation on concrete with partial replacement of cement by bagasse ash" National Conference on "**Innovations in Civil Engineering Systems for Sustainable Construction**" – 22<sup>nd</sup> April **2015**, C.I.T, Coimbatore

- ✓ **Muthuraj M. P.** et al, Presented paper in “Experimental investigation on steel scrap reinforced concrete” in TEQIP Sponsored National level Conference on “**Frontier applications in Civil and Environmental Engineering**”, 24-25<sup>th</sup> Feb **2014**, C.I.T, Coimbatore
- ✓ **Muthuraj M. P.** et al, Presented paper in “Comparison of experimental investigation on glass fibre reinforced polymer bridge decks subjected to static loading with analytical evaluation using ABAQUS ” in TEQIP Sponsored National level Conference on “**Frontier applications in Civil and Environmental Engineering**”, 24-25<sup>th</sup> Feb **2014**, C.I.T, Coimbatore
- ✓ **Muthuraj M. P.** attended “**International Construction Chemicals Conference**”, Chennai Trade Centre, Chennai, 21-22 March **2014**.
- ✓ **Muthuraj M. P.** participated “**International Congress on Computational Mechanics and Simulation**”, Chennai, 10-13 December **2014**.
- ✓ **Muthuraj M. P.** and Subramanian, K, “Static and Fatigue Behaviour of GFRP Bridge Deck Panels”, “**International Conference on Computational Modelling and Simulation**”, 09 - 12 December 2012, Indian Institute of Technology Hyderabad, Hyderabad, **2012**.
- ✓ **Muthuraj M. P.** and Aruna, P, “Fatigue Studies on Composite Bridge Deck Panels”, National Conference on “**Innovative Practices in Construction and Waste Management**”, 20 - 21 April 2011, Ramakrishna Institute of Technology, Coimbatore, **2011**.
- ✓ **Muthuraj M. P.** Participated in International Conference on “**Challenges & Advances in Concrete Technology**”, 2-4 May **2012**, PSG College of Technology, Coimbatore, **2012**.
- ✓ **Muthuraj M. P.** and Subramanian, K, Participated in International Conference on “**Earthquake Analysis and Design of structures**”, 1 - 3 December **2011**, PSG College of Technology, Coimbatore, **2011**.
- ✓ Subramanian, K. and **Muthuraj M.P.**, “Comparative Study on Glass Fibre Reinforced Polymer Bridge Decks with Conventional Cement Concrete Bridges”, “International Conference on **Seventh Structural Engineering Convention**”, 10 - 12 December, **2010**, Annamalai University, Chidambaram, **2010**.
- ✓ Subramanian, K., **Muthuraj M.P.** and Suganya, B, “Static Behaviour of GFRP Bridge Deck Panels”, “Third International Conference on **Structural Engineers World Congress**”, 2 - 7 November 2007, Bengaluru, **2007**.
- ✓ B. Suganya, Dr. K. Subramanian, **M. P. Muthuraj**, “Fabrication of GFRP composites” in the “2nd National Conference on **Recent Trends in Concrete Composites for Structural Systems**” on 14 -15 March, **2007** at Kongu Engineering College, Perundurai.

- ✓ **Muthuraj M. P.** and Subramanian, K, "Flexural Strength of Hollow Rectangular Glass Fibre Reinforced Polymer Composite", "International Conference on **Global Manufacturing and Innovation**", 27 - 29 July **2006**, Coimbatore Institute of Technology, Coimbatore, **2006**.
- ✓ **M. P. Muthuraj**, participated in « National Conference on **Front line area of Civil Engineering** », 28-29th April **2006**, V.L.B Janakiammal College of Engg & Technology, Coimbatore
- ✓ Karjinni V.V., Reddy R.V.S., Vinayak, and **Muthuraj, M.P.**, "Stiffness Studies on GFRP Composite Bridge deck panels under Fatigue loading" "5th Symposium on **polymers in concrete**", September 11-12, **2006**.
- ✓ R. V. S. Reddy, **M. P. Muthuraj**, K. Rama Rao, "Characterization of Liquid and Cast Thermoset Polymers", 2<sup>nd</sup> national conference on "**Emerging Trends in Civil, Structural and Environmental Engineering**", 29 & 30 September **2005**, Adhiyaman College of Engineering, Hosur.
- ✓ R. V. S. Reddy, K. Rama Rao, **M. P. Muthuraj** "Finite Element Analysis of Prototype GFRP Composite Bridge Deck Panels", "International conference on **Advances in Structural Dynamics and its Applications**", 7 -9 December **2005**, GITAM, Visakhapatnam.

#### **HONOURS / AWARDS / PRIZES**

- ❖ **University First Rank** - Bharathiar University in M.E Structural Engineering Degree (1998)
- ❖ **University Third Rank** - Bharathiar University in B.E Civil Engineering Degree (1996)
- ❖ Award (Rs.5000/-) for Rheology of Self compacting concrete, 2006, from Tamil Nadu State Council for Science and Technology, Chennai

#### **Consultancy Works:**

- 🌐 Offered Consultancy work related to **Materials Testing** (Cement, Brick and Tiles) to the following Organization:
  - Airport Authority of India
  - Military Engineers Services
  - National Highway Authority of India
  - State Highway of Tamil Nadu
  - Coimbatore City Municipal Corporation
  - Tirupur City Municipal Corporation
  - Southern railways
  - M/s. L& T, M/s. URC & M/s. P&C, M/s.RPP., etc.
  - Leading Engineers and Architects
  - Indian Institute of Technology, Madras
  - NIT, Trichy
  - Government of Kerala

- Mettur Thermal Power Plant

✚ Offered Consultancy work related to **Concrete Mix Design** (Different types of concretes and grades) to the following Organization:

- Airport Authority of India
- Military Engineers Services
- National Highway Authority of India
- State Highway of Tamil Nadu
- Coimbatore City Municipal Corporation
- Tirupur City Municipal Corporation
- Southern railways
- M/s. L& T, M/s. URC & M/s. P&C, M/s.RPP., etc.
- Leading Engineers and Architects
- Indian Institute of Technology, Madras
- NIT, Trichy
- Government of Kerala
- Mettur Thermal Power Plant

✚ Offered Consultancy work related to **Non-destructive testing** (different ages) to the following Organization:

- Airport Authority of India
- Military Engineers Services
- National Highway Authority of India
- State Highway of Tamil Nadu
- Coimbatore City Municipal Corporation
- Tirupur City Municipal Corporation
- Southern railways
- M/s. L& T, M/s. URC & M/s. P&C, M/s.RPP., etc.
- Leading Engineers and Architects
- Indian Institute of Technology, Madras
- NIT, Trichy
- Government of Kerala
- Mettur Thermal Power Plant

✚ Offered Consultancy work related to **Structural Design** to the following Organization:

- Foot Over bridge for INS Agrani, Coimbatore
- Suspension Bridge @ Kalrayan Hills, Villupuram
- Retaining walls for Southern Railway and NHAI
- Bridges for Military Engineer Services
- Foot Over Bridges for Tirupur City Municipal Corporation
- Pipe design for Tirupur City Municipal Corporation
- Multi-storeyed building for leading Architects
- Box culvert at Coimbatore Airport
- Rigid Pavement design for Government agencies
- Pre - Engineered Building for leading Architects
- Industrial Buildings for Leading Architects

✚ Offered Consultancy work related to **Structural Stability** to the following Organization:

- School Buildings
- Institutional Buildings
- Textile Industries
- SIDCO, SEZ Buildings
- Government Buildings
- Commercial Buildings
- Public Buildings
- Private Buildings



#### **Guest Lectures / Invited Speaker**

✓ Delivered **more than 100 Guest lectures** on Structural Engineering, Earthquake Engineering, Structural Dynamics, Bridge Engineering, Composite Materials and Structures, Advanced Structural analysis, Recent Advances in Concrete and Green materials in the following organizations:

- L & T, ECC, Chennai
- NLC, Neyveli
- ACC Cements, Cochin
- BAI, Coimbatore
- ACCE, Coimbatore
- COCENA, Coimbatore
- ULTRATECH Cement, Coimbatore
- PSG College of Technology, Coimbatore
- Government College of Technology, Coimbatore
- Government College of Engineering, Salem
- Kumaraguru College of Technology, Coimbatore
- Institute for Road Transport and Technology, Perundurai
- Sri Krishna College of Technology, Coimbatore
- Dr Mahalingam College of Engineering and Technology, Coimbatore
- Bannari Amman Institute of Technology, Sathyamangalam
- Dr NGP Institute of Technology, Coimbatore
- Erode Sengunthar Engineering College, Erode
- Sri Ramakrishna Institute of Technology, Coimbatore
- SVS College of Engineering, Coimbatore
- PPG College of Engineering, Coimbatore
- SNS College of Engineering, Coimbatore
- SNS College of Technology, Coimbatore
- Tamilnadu College of Engineering, Coimbatore
- Park College of Technology, Coimbatore
- Nehru College of Engineering and Technology, Coimbatore
- CMS College of Engineering and Technology, Coimbatore
- Mahendra Engineering College, Namakkal
- Sri Eshwar College of Engineering, Pollachi
- PA College of Engineering and Technology, Pollachi
- Avinashilingam University, Coimbatore
- Sri Venkateswara College of Engineering, Chittoor
- Government Polytechnic, Coimbatore
- Sri Ramakrishna Vidyalaya Polytechnic, Coimbatore

#### **RESEARCH GRANTS HANDLED**

## **RESEARCH PROJECTS:**

-  Project entitled “Testing of Masonry wall with earthquake resistant feature” (Amount of **Rs. 4.5 Lakhs** funded by **United Nation Development Programme (UNDP), 2007.**
-  Project entitled “Testing of Composite light weight load bearing wall panels” (Amount of **Rs. 2.5 Lakhs** funded by **INSDAG, 2009.**


## **RESEARCH GUIDANCE**

### **Doctoral degree (PhD):**

- ❖ **Supervisor** for 6 Part time Research Scholars and 1 Full Time Scholar (Under QIP) registered Under Anna University, Chennai
  1. **Mrs. S. Brindha**
  2. **Mr. X. John Britto**
  3. **Mr. G. Jayaprakash**
  4. **Mr. B. Karthick**
  5. **Mr. G. Velraj Kumar**
  6. **Mr. M. Perarasan**
  7. **Mrs. A. Sutha**
- ❖ **Doctoral Committee member** for 15 Part time Research Scholars and 4 Full Time Scholars registered Under Anna University, Chennai

## **POST GRADUATE GUIDANCE**

### **Master’s degree Project: (30 Completed)**


-  **Projects guided in the areas of**
  - *Behaviors of different types of concrete in terms of strength and durability*
  - *Static and fatigue behavior of Glass fibre reinforced concrete panels*
  - *Studies on seismic behavior on structural elements*

## **UNDER GRADUATE GUIDANCE**

### **Bachelor’s degree Projects:**

**Final Year: 21 (Full time) + 12 (Part-time) = 33 Projects**

**Third Year: Mini-Project Guidance for Pre-final year: 08**

-  **Projects guided in the areas of**
  - ***Structural analysis & design***
  - ***Design of bridges***
  - ***Smart materials***
  - ***Earthquake resistant design***
  - ***Fibres and their application***
  - ***Prestressed concrete***
  - ***Advances in Concrete and steel***
  - ***Green Materials***
  - ***Conceptual design and stress block of concrete***

## **SPONSORED - TRAINING PROGRAMME ORGANIZED**



- QIP Short term course on “Advances in Fracture Mechanics and Structural Dynamics Applications in Earthquake Engineering”, Department of Civil Engg, C.I.T, Coimbatore, 7<sup>th</sup> -13<sup>th</sup> April **2018**.
- QIP Short term course on “Paradigm Shift in Green and Sustainable concrete structures”, Department of Civil Engg, C.I.T, Coimbatore, 27<sup>th</sup> -31<sup>st</sup> October **2014**.
- One Week FDP on “Mechanics of Solids”, Department of Civil Engg, C.I.T, Coimbatore, 25<sup>th</sup> -31<sup>st</sup> July **2014**.
- FDP on “Limit State Design of Steel Structures”, Department of Civil Engg, C.I.T, Coimbatore, 7<sup>th</sup> -13<sup>th</sup> November **2013**.

**SPONSORED - TRAINING PROGRAMME ATTENDED**

S. No.	Name of the Course and Venue	Conducted by	Period	
			From	To
1	Current Scenario in Advanced Material Science and Engineering	CIT, Coimbatore	13.11.2017	26.11.2017
2	Recent Trends in Energy, Environmental and Solid Waste Management	CIT, Coimbatore	30.10.2017	12.11.2017
3	Life Enhancement of RC structural Components through Repair and Retrofit	CSIR-SERC	21.09.2016	23.09.2016
4	Manufacturing Engineering	CIT, Coimbatore	09.05.2015	23.05.2015
5	STC on Paradigm shift in Green and Sustainable Concrete structures	CIT, Coimbatore	27.10.2014	31.10.2014
6	One Week FDP on Mechanics of solids	CIT, Coimbatore	25.07.2014	31.07.2014
7	FDP on Engineering Thermodynamics	CIT, Coimbatore	11.12.2013	17.12.2013
8	Limit state design of steel structures	CIT, Coimbatore	07.11.2013	13.11.2013
9	Integrated Approaches for Impact Assessment, Climate Change & Mitigation	CIT, Coimbatore	17.10.2013	23.10.2013
10	FDP on Structural Analysis - II	Anna University, Chennai	23.07.2013	27.07.2013
11	Advances in construction techniques and materials	GCT, Coimbatore	04.10.2012	10.10.2012
12	Advanced course on Sustainable materials and Structures	CSIR-SERC	15.02.2012	17.02.2012
13	Structural Restoration of Historical monuments	IIT Madras	02.01.2012	07.01.2012
14	Nanotechnology and its Applications	CIT	09.05.2011	22.05.2011

15	Recent Development in Condition Assessment, Repair Materials and Repair/ Retrofitting Techniques for Concrete Structures	CSIR-SERC	09.02.2011	11.02.2011
16	"Software Applications in Civil Engineering". Kumaraguru College of Technology, Coimbatore	AICTE	05.05.2008	11.05.2008
17	"GIS & remote sensing applications in engineering and sciences", Government College of Technology, Coimbatore	AICTE - TEQIP	14.05.2007	27.05.2007
18	"Non – Destructive testing and Evaluation of Concrete Structures	SERC	17.01.2007	19.01.2007
19	Thinking of Design: Conceptual and Pedagogical Tools for Teaching Design	IIT Madras	29.12.2006	30.12.2006
20	Software project Management and Development Life cycle – Best Practices	CIT	13.11.2006	14.11.2006
21	"Structural dynamics & Random Vibration in Earthquake Engineering", IISc, Bangalore	IISc, CEC	09.10.2006	14.10.2006
22	"Advanced Mechanics of Solids and Structures", IIT Madras	IIT - NPTEE	26.12.2005	30.12.2005

### **SPONSORED -WORKSHOPS ORGANIZED**

- ❖ **UGC Sponsored** One day Workshop on "Development of Sustainable Infrastructure" 20<sup>th</sup> August 2015, C.I.T, Coimbatore
- ❖ **UGC Sponsored** One day Workshop on "Recent5 Advances in Construction Techniques" 14<sup>th</sup> August 2015, C.I.T, Coimbatore
- ❖ **UGC Sponsored** One day Workshop on "Trends in Environmental Engineering & Global Issues" 29<sup>th</sup> July 2015, C.I.T, Coimbatore
- ❖ **TEQIP Sponsored** One day National Workshop on "Application of Effective Technologies for green Construction and Management" 22<sup>nd</sup> July 2014, C.I.T, Coimbatore
- ❖ **TEQIP Sponsored** One day National Workshop on "Utilization of Mineral Admixtures in Sustainable Concrete" 18<sup>th</sup> July 2014, C.I.T, Coimbatore
- ❖ **TEQIP Sponsored** One day National Workshop on "Recent Advancement in Transportation Engineering" 7<sup>th</sup> March 2014, C.I.T, Coimbatore
- ❖ **TEQIP Sponsored** One day National Workshop on "A Practical approach on the utilization of Cement and admixtures in Concrete" 2<sup>nd</sup> September 2013, C.I.T, Coimbatore

- ❖ National Workshop on “Modern Concrete Techniques” 24<sup>th</sup> February 2011, C.I.T, Coimbatore

#### **SPONSORED -WORKSHOPS ATTENDED**

- Attended Workshop on “Design of High Strength and High Performance Concrete”, CIT, Coimbatore on February 01, **2005**.
- Attended Workshop on “Quality Management in Construction Industry” at CIDC, Chennai on May 21, **2005**.
- Attended Workshop on “Recent Trends in Construction Practice” at VLBJACET, Coimbatore on September 28, **2005**.
- Attended Workshop on “Programming DSP graphically, No C & CCS” at CIT, Coimbatore on January 18, **2006**.
- Attended Workshop on “Cold Formed Steel Structures”, PSGCT, Coimbatore on January 23, **2006**.
- Attended National conference on “Frontline Areas of Civil Engineering”, VLBIJACET, Coimbatore on 28 & 29 April **2006**
- Attended Workshop on “SAP - Software” at Bangalore on May 14, **2006**.
- Attended Workshop on “Steel in Construction” at Convention Centre, L&T-ECC-HQ- Chennai on June 16, **2006**.
- Presented a paper in National Seminar on “Disaster Management”, NLC on 15 & 16 July **2006**.
- Attended Workshop on “Software Project Management & Development Life Cycle” at CIT, Coimbatore on November 13 & 14, **2006**.
- Attended Workshop on “Thinking for Design” at CIT, Coimbatore on December 29 & 30, **2006**.
- Attended Workshop on “Seismic Design of RCC Structures” at CIT, Coimbatore on March 13 & 14, **2007**.
- Presented a paper in International Conference “Structural Engineers World Congress” at Bangalore during November 2 -7, **2007**.
- Attended Seminar on “Design of Steel Structure as per the revised IS 800” at Karunya University, August 2, **2008**.
- Participated in National Colloquium on Concrete construction for Coastal conditions – causes, concerns and Challenges December 8<sup>th</sup> **2012**, Cochin, India.
- Participated in International Workshop on Colour control in Flyash as a combined function of particles and chemical composition, CIT, Coimbatore, 18<sup>th</sup> -19<sup>th</sup> Feb, **2012**.

- Attended 3<sup>rd</sup> edition International Construction Chemicals Conference March 21-22<sup>nd</sup> **2014**, Chennai Trade Centre , Chennai.
- Attended Basic Pedagogy Training: Objective and Outcome based education system – Transforming engineering education to match global needs”, CIT, 17-19<sup>th</sup> November, **2014**.
- Participated in “Workshop on Research Methodology” held at BITS Pilani, Hyderabad campus, 3-4<sup>th</sup> April **2015**.

#### **Membership - Professional Societies/ Institutes**

- **Member – Indian Society for Earthquake Engineering Education** (2012 onwards)

#### **Reviewer - International refereed Journals**

- ❖ International Journal of Earth Sciences and Engineering
- ❖ International Journal of Applied Engineering Research
- ❖ Structural durability and health monitoring

#### **Extra-Curricular Activities**

- ✓ **Treasure – Faculty Club**, Coimbatore Institute of Technology, Coimbatore **(Feb 2007 to July 2009)**
- ✓ **Staff Advisor** – Civil Engineering Association, Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore **(June 2006 to May 2010)**
- ✓ **Staff Advisor** – for 4 consecutive years “**TECHNOVATION**” – Intercollegiate Symposium - Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore **(2007 to 2010)**
- ✓ **Time Table Coordinator** - Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore **(June 2007 to May 2012)**
- ✓ **Overall Time Table Coordinator** - Coimbatore Institute of Technology, Coimbatore **(2008 - 2009 and 2013-2014)**
- ✓ **Class Tutor** – for the **B.E. Civil Engineering Batch of students (2007-2011 & 2015-2019) Civil Engineering**, Coimbatore Institute of Technology, Coimbatore.
- ✓ **Industrial Visit** – Organized for **UG and PG Civil Engineering Students - 2006 – 2007, 2007 –2008, 2009 – 2010 & 2011 – 2012** to visit Irrigation structures in Bhavani river, Cauvery river, Thermal power station at Mettur & CSIR-SERC, Chennai