

## National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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**Dr.C.Natarajan**

### **Curriculum Vitae**

Dr.C.Natarajan got graduated B.E.in Civil Engineering in 1977 and M.E.in Structural Engineering in 1979 from Annamalai University. He received his Ph.D. degree from IIT Madras in 1984. He is currently Professor in Department of Civil Engineering at NITT. He has served as the Head of the Department of Civil Engineering from December 2005 to January 2009 and the Dean, Planning and Development of NITT from April 2010 to August 2010. He was also the Chairman, Library committee of NITT from October 2011 to May 2014. From November 2005 to February 2008 he has served as the Chairman, Estate and Works committee of the institute and the nodal officer for TEQIP civil works from July 2005 to January 2010.

During his tenure of the headship the research activities of the department was given as thrust by the motivation of the former Director Prof. Chidambaram. M.Tech. in Environmental Engineering was introduced. Many professors from abroad were invited under TEQIP to collaborate research and deliver lectures, seminars, workshops and conferences. During the tenure of the Chairmanship in the library he had introduced the RFID a unique in automation of library system. As the Chairman of Estate and Works committee he reformed the tender procedure in a flawless manner. He modernized the infrastructure facilities of the institute as a TEQIP Nodal officer.

Dr.Natarajan has set up the Structural Engineering laboratory and the structural Dynamics laboratory at NITT. He, as the founder coordinator, drafted the curriculum for M.E. Structural Engineering started as full Time /Part Time at NITT. He served as the member of the board of studies for various institutions. He has experience in structural design, forensic investigation, and construction of buildings, bridges and special structures. He has made numerous structural investigations, including the accident due to the boiler during erection, roof collapse due to corrosion, the collapse of Highway Bridge and collapse of flying formwork. Other investigations involved the stability of High Court

## National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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building at Kochi, BPCL building, machine shop building for HAPP, Tiruchy, proof checking of the structural design of various buildings like office buildings for ONGC at Chennai, and industrial buildings etc. He has investigated the Condition assessment of high way bridges and buildings and suggested the suitable remedial measures for rehabilitation. Dr.Natarajan has testified in Kochi naval base court and in arbitration on the occasions regarding his Air cargo roof design investigation. He has served as the member of the building committee and governing council members for various other institutions.

With three decades of teaching, research and consultancy experience, he has published /presented several research papers in peer reviewed national and International journals/ conferences proceedings. He has conducted an international workshop on Indo US Forensic practices sponsored by the National Science Foundation USA, American Society of Civil Engineers, USA, CSIR and SERC. He is in collaboration with Dr.Shen En Chen, University of North Carolina University at Charlotte, USA. for the various academics and research activities.The proceedings of the first Indo US Forensic Engineering workshop was published by the ASCE, USA. Dr.Natarajan has conducted several training programmes for industry/ institutions. He is the reviewer for reputed journals in his field.

Dr. Natarajan is recipient of many awards for guiding the best M.Tech. Thesis from ISTE, New Delhi, Best Teacher award from NITT, Karikalan award from the BAI, Tiruchy and Mayan awards for recognizing his services in the construction field.

Dr. Natarajan is very active in professional societies and currently the Chairman of the Indian Concrete Institute, Tiruchy centre and the Treasure of the Indian Society of Public Administration. He is the editorial member of the International Journal of the Forensic Engineering, Indian Journal of the Earth science and Engineering and International journal of Construction Materials. He has authored a book on “Matrix Methods of structural Analysis- theory and problems”. His research interest includes the Forensic Engineering, health monitoring of structures, condition assessment and rehabilitation of structures, recycling of construction and demolition waste.

## National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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1. Name Dr.C.Natarajan
2. Designation: Professor
3. Office Address: Department of Civil Engineering
4. Telephone: 2503156  
 Mobile : 9842453050
5. Email (Primary): [nataraj@nitt.edu](mailto:nataraj@nitt.edu) Email (Sec): lc\_nataraj@yahoo.com
6. Field(s) of Specialization: Structural Engineering

### 7. Employment Profile

| Job Title                          | Employer             | From | To        |
|------------------------------------|----------------------|------|-----------|
| Professor                          | NIT, Trichy          | 2005 | Till date |
| Assistant professor                | REC, Trichy          | 1992 | 2005      |
| Lecturer                           | REC, Trichy          | 1983 | 1992      |
| Senior Research Fellow, CSIR       | IIT Madras           | 1981 | 1983      |
| Lecturer in Structural Engineering | Annamalai University | 1979 | 1979      |

### 8. Academic Qualifications (From Highest Degree to High School):

| Examination | Board / University             | Year | Division/ Grade              | Subjects                           |
|-------------|--------------------------------|------|------------------------------|------------------------------------|
| Ph.D.       | IITMadras                      | 1984 | -                            | Civil Engineering                  |
| M.E.        | Annamalai University           | 1979 | First class with Distinction | Structural Engineering             |
| B.E.        | Annamalai University           | 1977 | First class with Distinction | Civil Engineering                  |
| PUC         | Madurai University             | 1972 | First class                  | Mathematics, Physics and Chemistry |
| SSLC        | Secondary School Leaving Board | 1972 | -                            |                                    |

### 9. Academic/Administrative Responsibilities within the University

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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| Position                                      | Faculty/Department/Centre/Institution            | From          | To            |
|---|--|---------------|---------------|
| Dean (Planning and Development)               | National Institute of Technology Tiruchirappalli | April 2010    | August 2010   |
| Head ,Dept. of Civil Engineering              | National Institute of Technology Tiruchirappalli | December 2005 | January 2009  |
| HOD (i/c) Industry Institute Interaction Cell | National Institute of Technology Tiruchirappalli | October 2002  | August 2004   |
| HOD ( additional i/c) Training and Placement  | National Institute of Technology Tiruchirappalli | November 2002 | December 2002 |
| Chairman, Smart Campus                        | National Institute of Technology Tiruchirappalli | November 2013 | Till now      |
| Chairman, Library Committee                   | National Institute of Technology Tiruchirappalli | October 2011  | May 2014      |
| Chairman, Estate and Work Committee           | National Institute of Technology Tiruchirappalli | November 2005 | February 2008 |
| Nodal Officer (Civil works), TEQIP            | National Institute of Technology Tiruchirappalli | July 2005     | January 2010  |
| Member , Quality Assurance Committee          | National Institute of Technology Tiruchirappalli | July 2005     | February 2008 |
| Overall in charge of Estate Maintenance       | National Institute of Technology Tiruchirappalli | July 2000     | August 2003   |
| Warden  | National Institute of Technology Tiruchirappalli | December 1984 | June 1989     |

10. Academic/Administrative Responsibilities outside the University

| Position | Institution   | From         | To |
|----------|---|--------------|----|
| Member   | Committee to evaluate the AQIS proposals at AICTE HQ, New Delhi   |              |    |
| Member   | IES, IFS examiner (Confidential works) for UPSC, New Delhi  | 2010 onwards |    |
| Member   | Technical Advisory Committee for the selection of sites for erection of communication towers for the District Collector, Tiruvarur district |              |    |
| Member   | Technical Advisory Committee for the  |              |    |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|                               |   |  |  |
|-------------------------------|---|--|--|
|                               | selection of sites for erection of communication towers for Police Housing Corporation, Trichy                                  |  |  |
| Member                        | Building Committee, National Institute of Technology Pondicherry, Karikal   |  |  |
| Member                        | Building Committee, Bharathidasan University, Tiruchirappalli   |  |  |
| Member                        | Building Committee, Anna University, Tiruchirappalli  |  |  |
| Member                        | High level working Committee, Indian Institute of Crop Processing and Technology, Thanjavur. (under Ministry of Food Processing |  |  |
| Member                        | Building Committee , Gandhigram Rural Institute, Gandhigram   |  |  |
| Expert member for Civil works | Tiruchirappalli City Corporation  |  |  |
| Member                        | Building Committee, Bishop Heber College, Tiruchirappalli   |  |  |
| Chairman                      | Indian Concrete Institute, Trichy Centre  |  |  |
| AICTE nominee                 | The appointment committee for the selection of Assistant professor, P.S.G.College of Technology, Coimbatore                     |  |  |
| Chancellor nominee            | The appointment committee for the selection of Faculty, Periyar Maniammai University, Vallam                                    |  |  |
| Vice-Chancellor nominee       | For the appointment Committee for the selection of Registrar and Estate officer, Anna University, Tiruchirappalli               |  |  |
| Subject expert                | For the appointment committee for the selection of Assistant professor, Gandhi gram Rural Institute, Gandhi gram                |  |  |
| Subject expert                | For the appointment committee for the selection of Assistant professor, National Institute of Technology, Puducherry, Karaikal  |  |  |
| Member                        | Selection Committee, CSIR-CECRI, Karaikudi  |  |  |
| Subject Expert                | For the appointment committee for the selection of Assistant professor, PSNA college of Engineering and Technology, Dindigul    |  |  |
| Member                        | Academic Council for faculty of Engineering, Cochin University of Science and Technology, Kochi                                 |  |  |
| Member                        | Academic Council, Gandhi gram Rural Institute, Gandhi gram  |  |  |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|          |   |  |  |
|----------|---|--|--|
| Member   | Board of Studies, Gandhigram Rural Institute, Gandhigram  |  |  |
| Member   | Board of Studies, Anna University, Chennai  |  |  |
| Member   | Board of Studies, National Institute of Technology Pondicherry, Karaikal  |  |  |
| Member   | Awards Committee for Periyar Maniammai Polytechnic, Vallam  |  |  |
| Member   | Board of Studies, Thiagarajar College of Engineering, Madurai   |  |  |
| Member   | Board of Studies, Annamalai University, Chidambaram   |  |  |
| Member   | Board of Studies, P.S.G.College of Technology, Coimbatore   |  |  |
| Chairman | Affiliation Committee, Anna University, Chennai   |  |  |
| Member   | Governing Council, Chenduran College of Engineering, Thirumayam   |  |  |
| Member   | Governing Council, J.R.Polytechnic College, Tiruchirappalli   |  |  |
| Member   | Governing Council, Vandayar College of Engineering, Tanjore   |  |  |
| Member   | Estimate committee, NIT Puducherry , Karaikal   |  |  |
| Member   | Purchase Committee, NIT, Tiruchirappalli  |  |  |
| Member   | Editorial Board of “International Journal of Earth Sciences and Engineering” (ISSN 0974 - 5904), India.                 |  |  |
| Member   | Editorial Board of “International Journal of Forensic Engineering” (ISSN 1744 -9952), Inderscience Publishers, England. |  |  |
| Reviewer | ASCE Journal of Performance for Constructed Facilities, ASCE, USA.  |  |  |
| Member   | Editorial Board of “International Journal of Construction materials and Structures” (ISSN : 2321-2233), IIT Roorkee     |  |  |

11. Awards, Associate ships etc.

| Year of Award  | Name of the Award                     | Awarding Organization                                  |
|----------------|---------------------------------------|--|
| October 2016   | Karikalan Award 2016                  | Builders’ Association of India, Tiruchirappalli center |
| January 2015   | Mayan Awards 2014                     |  |
| September 2015 | ICI- UltraTech Endowment Award – 2015 | ICI, Pondicherry center                                |
| September 2014 | ICI- UltraTech Endowment Award – 2014 | ICI, Pondicherry center                                |
| 2009           | Best M.Tech thesis (I Prize) in       | Indian Society of Technical                            |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|           |   |  |
|-----------|---|--|
|           | Civil Engineering   | Education, New Delhi                             |
| July 2008 | Letter of Appreciation by the Mayor for the effort in rectifying the defects in the Collector wells, Tiruchirappalli  | Tiruchirappalli City Corporation                 |
| 2008      | Best M.Tech thesis (II Prize) in Civil Engineering  | Indian Society of Technical Education, New Delhi |
| 2007      | Best M.Tech thesis (I Prize) in Civil Engineering   | Indian Society of Technical Education, New Delhi |
| 2006-2007 | Best Teacher  | NIT Tiruchirappalli                              |
| 2006      | Best M.Tech thesis (I Prize) in Civil Engineering   | Indian Society of Technical Education, New Delhi |
| 2006      | Best M.Tech thesis (II Prize) in Civil Engineering  | Indian Society of Technical Education, New Delhi |
| 2006      | Commendation Certificate award in recognition of the paper titled "Corrosion Evaluation of pre-stressing steel in pre-stressed concrete cantilever segmental block" | The Council of the Indian Roads Congress         |
| 1990-91   | Certificate Achievement awarded for having guided the Best B.E. project work in Civil Engineering   | The Department of Technical Education Madras     |
| 1988-89   | Certificate Achievement awarded for having guided the Best B.E. project work in Civil Engineering   | The Department of Technical Education Madras     |

12. Fellowships

| Year of Award | Name of the Fellowship   | Awarding Organization                               | From (Month/Year) | To (Month/Year)   |
|---------------|--|---|-------------------|-------------------|
| 1995          | Partial financial assistance for conducting the National symposium on Tall structures                | Tamil Nadu State council for Science and Technology | 2,February,1995   | 3,February 1995   |
| 1995          | Partial financial assistance for conducting the National symposium on Tall structures                | Ministry of Science and Techology, Govt. of India   | 2,February,1995   | 3,February,1995   |
| 1997          | ISTE winter school on 'Recent Departments in Analysis, Design and Detailing in industrial Structures | Indian Society of Technical Education New Delhi     | 1,December 1997   | 13, December 1997 |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|      |                            |        |             |     |              |               |
|------|----------------------------|--------|-------------|-----|--------------|---------------|
| 2014 | International Grant Scheme | Travel | SERB, Delhi | New | 8, June 2014 | 13, June 2014 |
|------|----------------------------|--------|-------------|-----|--------------|---------------|

13. Details of Academic Work

(i) Curriculum Development :

- M.Tech Structural Engineering
- A course on Forensic Engineering

(ii) Courses taught at Postgraduate and Undergraduate levels

Under Graduate level:

- Structural Analysis
- Design of Concrete Structures

Post Graduate level:

- Matrix methods of Structural Analysis
- Forensic Engineering and Rehabilitation of Structures

(iii) Projects guided at Postgraduate level :

| S.No.                   | Name of the student | Project title  | Year        |
|-------------------------|---------------------|--|-------------|
| <b>MS (By Research)</b> |                     |  |             |
| 1                       | M.Lokeswaran        | Effect of replacement of river sand by manufactured sand on the properties of concrete                   | August 2016 |
| <b>M.Tech</b>           |                     |  |             |
| 1                       | Baba Fakruddin.K. C | Flexural Failure of Hair Fiber Concrete Beam   | June 2016   |
| 2                       | Ramachandrudu. K    | Flexural Behaviour of Papercrete Concrete  | June 2016   |
| 3                       | Ganesh.N            | Experimental Investigation of the Flexural Behaviour of Glass Fiber Reinforced Concrete Beam             | June 2016   |
| 4                       | Thejasvi. M         | Comparative studies on Portland Cement and Geopolymer concrete   | June 2016   |
| 5                       | Selvakumar.B        | Utilization of waste tyre crump rubber as partial replacement for fine aggregate in Geo polymer concrete | June 2015   |
| 6                       | Ramasai. E          | Impact response of rubberized concrete paver block   | June 2015   |
| 7                       | Satyanarayana.P     | Performance assessment of functionally graded beam with Fly ash  | June 2015   |
| 8                       | Hemanth yadav       | Experimental Investigation of RCC beams having web openings strengthened with CFRP                       | June 2015   |
| 9                       | George M. Varghese  | Performance of Geopolymer Based Solid Interlocking masonry   | June 2014   |
| 10                      | Devandra            | Shear Performance of R.C.Beam with CFRP  | June 2014   |
| 11                      | P Laveendra Babu    | Behavior of Two way Reinforced concrete slab of Concrete at Elevated Temperature                         | June 2014   |
| 12                      | Venkateshwarlu      | Performance assessment of R.C. beam with   | June 2014   |



**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|    |                    |   |           |
|----|--------------------|---|-----------|
|    |                    | CFRp and GFRP sheets  |           |
| 13 | Manipraj           | Numerical studies on the behaviour of Interlocking walls  | June 2014 |
| 14 | D.Manohar          | Strength and Durability Study on Fiber Reinforced Concrete with partial replacement of Palm oil                             | June 2013 |
| 15 | C.Sangluaia        | Behavior of Reinforced concrete slab subjected Experimental Study on Strength Variation of Concrete at Elevated Temperature | June 2013 |
| 16 | Madan Kumar        | Strengthening of Columns by using Carbon Fibre Reinforced Polymers  | June 2013 |
| 17 | J.Sivaraj          | Retrofitting of RC slender column with glass Fiber Reinforced Polymer   | June 2013 |
| 18 | Remya Retnan       | Vulnerability of Reinforced Concrete Structures subjected to Flood  | June 2012 |
| 19 | T.Sakthivel        | Experimental Study on Strength Variation of Concrete at Elevated Temperature  | June 2012 |
| 20 | Madan Kumar        | Strengthening of Columns by using Carbon Fibre Reinforced Polymers  | June 2012 |
| 21 | J.Sivaraj          | Retrofitting of RC slender column with glass Fiber Reinforced Polymer   | June 2012 |
| 22 | P. Sumathi         | Non Linear Static Analysis damaged RC beams   | June 2011 |
| 23 | K. Senthilkumar    | Non Linear Dynamic Analysis Bubble beams  | June 2011 |
| 24 | S.S Lekshmi        | Study on Role of Asymmetry in Pushover Analysis   | June 2010 |
| 25 | V.J. Varun         | Mathematical Modelling of Size Effect on Shear Strength of RC Beam  | June 2010 |
| 26 | R. Sarenga Nathan  | Flexural Strength of RC Beams With CFRP Fabric  | June 2010 |
| 27 | Sankuju Manohar    | Utilisation of High Volume of Cement Kiln Dust in Concrete Industry   | June 2010 |
| 28 | Ratna Divya yasoda | Damage Assessment with Consideration of Uncertainties   | June 2009 |
| 29 | M. Palaniappan     | Standardization of Heat Recovery Steam Generator Structure  | June 2009 |
| 30 | Srikanth Sadineni  | The Effect of Differential Settlement on a large Steel- Framed Boiler Supporting Structure                                  | June 2009 |
| 31 | S. Govindaraju     | Sterlite Copper as a Partial Replacement of Fine Aggregate in Concrete  | June 2008 |
| 32 | P. Arunkumar       | Strengthening of RC Beams Using Glass Fiber Wrappings   | June 2008 |
| 33 | S. Sivakumar       | Nonlinear Dynamic Effects of Cracked Composites   | June 2008 |
| 34 | B. Venkateswarlu   | Analysis of CFBC Boiler Supporting Structure by Response Spectrum Method  | June 2007 |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|----|-------------------|--|-----------|
| 35 | P. Seetha lakshmi | Soil-Structure Interaction of Laterally loaded Piles on Sloping Ground   | June 2007 |
| 36 | Kalaivani         | 3D Fracture Effects on Modeling RC Beams   | June 2007 |
| 37 | M. Revathy        | Stiffness Matrix of Damaged Beams in the Nonlinear range of behaviour  | June 2007 |
| 38 | P. Dinesh         | Derivation of stiffness matrix for a damaged beam element  | July 2006 |
| 39 | J. Jothimani      | Size and modeling effects in fracture of RC beam   | July 2006 |
| 40 | S. Leela          | Non-linear static analysis of base isolated multistoried buildings   | July 2006 |
| 41 | U. Nisha          | Non-linear seismic analysis of multi degree of freedom systems   | July 2006 |
| 42 | B. Raghava kumar  | System identification through dynamic parameters   | July 2006 |
| 43 | S. Vidya          | Design optimization of microwave towers using genetic algorithms   | July 2005 |
| 44 | J. Shanthi        | Size effects in fracture of concrete beam models   | July 2005 |
| 45 | V. Narmadha       | Seismic analysis of water tank subjected to various zones  | July 2005 |
| 46 | S. Sakthivel      | Model parameters and size effects in cracked concrete  | July 2005 |
| 47 | R. Anbumanidevan  | Strength and durability studies of RHA cement concrete   | July 2005 |
| 48 | N. Meena          | Effect of partial slip theory in steel – concrete composite structures   | July 2005 |
| 49 | T. Srividya       | Corrosion Effects on High Performance Concrete   | June 2004 |
| 50 | S. Jeya           | Durability studies on fly ash concrete for RCC structures  | June 2004 |
| 51 | S. Nithya         | Characteristics of ceramicrete   | June 2004 |
| 52 | S. Eswari         | Analytical simulation of size effects in concrete beams  | June 2004 |
| 53 | S. Shifana Fatima | Vibration control of buildings using tuned mass damper   | June 2004 |
| 54 | M. Rajeswari      | High volume utilization of lignite fly ash in concrete   | June 2004 |
| 55 | S. Selvamani      | Damage assessment of SBR-Latex modified concrete rectangular beams   | June 2004 |
| 56 | S. Senthilkumar   | Evaluation of repair materials for structural and non-structural applications                                      | Jan 2003  |
| 57 | K. Manikandan     | Efficient algorithms for matrix computations in structural dynamics  | Jan 2003  |
| 58 | M.V. Arjun        | Dynamic characterization of a typical low speed subsonic aircraft wing and empennage using a Timoshenko beam model | Jan 2003  |
| 59 | C.R. Vishnuram    | Pressure measurement study on a tall square  | Jan 2003  |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|----|-------------------------|---|----------|
|    |                         | building model  |          |
| 60 | K. Almas Begum          | Corrosion and protection in prestressing steel under loaded condition   | Jan 2003 |
| 61 | S. Vijayakala           | Computational simulation of mode – I stress intensity factor and life cycle estimation of semi – elliptical surface crack | Jan 2003 |
| 62 | L. Hemamathi            | Optimal design of prestressed concrete bridge girders using Genetic Algorithms  | Jan 2002 |
| 63 | V.T. Badri Narayanan    | Design for internal smartness in structures   | Jan 2002 |
| 64 | K. Sivasubramanian      | The object oriented design for continuous beams and portal frames   | Jan 2002 |
| 65 | R. Karthikeyan          | Performance level criteria and evaluation of structures subjected to seismic excitation                                   | Jan 2002 |
| 66 | R. Gopalakrishnan       | Behavior of circular Reinforced concrete columns with welded wire fabric  | Jan 2002 |
| 67 | G. Maheswaran           | Studies on cathodic protection concrete   | Jan 2002 |
| 68 | K. Nallasivam           | Analysis and design of cement concrete pavement – using ANSYS   | Jan 2001 |
| 69 | G. Beulah Gnana Ananthi | Damage detection in structure based on neural network approach  | Jan 2001 |
| 70 | A. Murugesan            | Memory mapping for artificial neural networks application in Truss system   | Jan 2001 |
| 72 | K. Ramakrishnan         | Stiffness evaluation for damaged structure  | Jan 2000 |
| 73 | K. Mayilsamy            | Retrofitting measures for some of the commonly encountered buildings and Structures in cyclone prone regions              | Jan 1999 |
| 74 | R. Indumathi            | Analysis and design of shallow water berth  | Jan 1999 |
| 75 | V. Sujithira            | Investigating the strength of existing RCC Slab Bridges   | Jan 1999 |
| 76 | R. Ilangovan            | Vulnerability analysis of buildings and Structures in cyclone prone areas - an analytical model                           | Jan 1999 |
| 77 | P. Natarajan            | Impact of information technology in the construction industry and application of expert system in structural Engineering  | Jan 1999 |
| 78 | M. Manimaran            | Cost comparative analysis of partially mechanized with manually constructed multistoried projects                         | Jan 1999 |
| 79 | D. Daniel Thangaraj     | The behavior of footing with interaction of soil – Finite element method approach   | Jan 1999 |
| 80 | K. Chellakumar          | Fuzzy information processing for rehabilitation of R.C.C. members   | Jan 1999 |
| 81 | K. Manoharan            | Experimental investigation on the use of super plasticiser in cement mortar using 43 grade cement                         | Jan 1999 |
| 82 | K. Jayaraman            | A critical study on cement mortar using 53 grade cement   | Jan 1999 |
| 83 | T. Nagavelu             | An experimental investigation on  | Jan 1999 |

National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members

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|     |                      | rehabilitation of concrete member by using adhesive bonded plate  |               |
| 84  | G. Elangovan         | Knowledge Based Design of three dimensional frames  | Jan 1998      |
| 85  | DM. Pukazendhi       | 'Seismic isolation for framed structures  | Jan 1998      |
| 86  | N. Sivakumar         | Damage assessment and rehabilitation of RCC beams   | Jan 1998      |
| 87  | R. Rajasekaran       | Knowledge based design of structural system   | Jan 1998      |
| 88  | Kannan               | Earthquake resistant design of water tanks  | Jan 1998      |
| 89  | D. Rajkumar          | Object oriented programming for design of structural steel elements – an evolutionary approach  | December 1995 |
| 90  | B. Kameshwari        | Instability Analysis of Multistory steel frames   | December 1995 |
| 91  | V. Rajamohan         | Construction techniques of the tunnels in Thanjavur port  | December 1995 |
| 92  | R. Subramanian       | Structural adequacy of the tunnels in Thanjavur port  | December 1995 |
| 93  | S. Ravindra Bharathi | Object oriented programming application in the integrated design of RCC beams   | December 1995 |
| 94  | Ramanathan           | An experimental study on strength and behavior of cement – Flyash blocks and masonry prisms   | December 1995 |
| 95  | G. Perunambi         | An experimental investigation of prestressed box girder under combined bending and torsion  | December 1995 |
| 96  | K. Kanagarajpeter    | An experimental investigation on the effect of central openings in rectangular reinforced concrete slabs  | December 1995 |
| 97  | M. Raja              | An experimental investigation on the behavior of reinforced concrete beam strengthened by welded steel rods and epoxy bonded steel plates at the ultimate stage | December 1994 |
| 98  | Renganathan          | Static and dynamic analysis and design of reinforced concrete tall chimneys   | December 1994 |
| 99  | S. Elavenil          | Finite element analysis for stresses in deep beams  | December 1994 |
| 100 | P. Ravichandran      | An experimental investigation on the behavior of RCC, L – shaped slabs  | December 1994 |
| 101 | D. Santhi            | Object oriented programming design of RCC beam  | December 1994 |
| 102 | R. Shanthi           | Stone dust cement block masonry with super plasticizer  | June 1994     |
| 103 | K. Sasikala          | Thermal stress analysis of the plates using finite element method   | June 1994     |
| 104 | R. Annathurai        | Finite Element analysis of Railway bogie frames   | June 1994     |
| 105 | S. Vasumathi         | Lateral buckling of continuous beams  | June 1994     |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|-----|------------------------------|--|---------------|
| 106 | N. Ponnambalam               | Application of steel fiber reinforced concrete in rigid pavement                           | June 1994     |
| 107 | P. Senthilkumar              | An Experimental investigation on the behavior of RCC. T – beams with web opening           | June 1994     |
| 108 | G. Dhanalakshmi              | Structural adequacy of the Brihadisvarar Temple, Thanjavur                                 | June 1994     |
| 109 | R. Malika                    | Construction techniques of the Brihadisvarar Temple, Thanjavur                             | June 1994     |
| 110 | M. Kalaiyarasi               | Wind effects on buildings  | June 1994     |
| 111 | M.R.M. Mohamed Kaleel Rahman | Design of RCC structures using object oriented programming                                 | June 1994     |
| 112 | V. Rajendran                 | Optimisation of concrete mix proportioning   | June 1994     |
| 113 | S. David                     | Knowledge based expert system for the design of RCC cylindrical silos                      | December 1993 |
| 114 | V. Ravikumar                 | Fiber reinforced concrete as a paving material   | December 1993 |
| 115 | G. Vivekananthan             | A study on flexural behavior of reinforcing steels   | May 1992      |
| 116 | S Kanthimathinathan          | A Study on codal provisions for the design of steel stacks                                 | May 1992      |
| 117 | P. Senthil                   | An experimental investigation on reinforced Aerocrete beams subjected to flexure and shear | December 1990 |
| 118 | B. Madhivanan                | A comparative study of concrete mix design methods   | December 1990 |
| 119 | R. Ganesan                   | Comparative studies on reinforced cement concrete slabs and reinforced concrete slab       | December 1989 |
| 120 | I. Kanagaraj                 | Causes of concrete deterioration and repairs to concrete structures                        | December 1989 |
| 121 | S. Sangappillai              | Optimization of water tanks  | December 1989 |
| 122 | S. Premanand                 | Optimal design of structural elements  | December 1989 |
| 123 | V. Ramachandran              | Non linear programming models for minimum cost design of RCC slab                          | December 1989 |
| 124 | K. Jeyavelu                  | Computer aided analysis of grid frames   | December 1989 |
| 125 | A.N. Asokan                  | An experimental investigation of fiber reinforced concrete beams under pure torsion        | December 1989 |
| 126 | S. Sivakumar                 | Computer aided design of machine foundations   | December 1989 |
| 127 | L. Saikala                   | Analysis of folded plates  | December 1989 |
| 128 | Rajalingam                   | Static and dynamic analysis and design of tall steel chimneys                              | December 1989 |
| 129 | Jeyakumar                    | Study on Polymer concrete  | December 1988 |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|     |                  |   |               |
|-----|------------------|---|---------------|
| 130 | V. Kailasam      | Wind effects on structures  | December 1988 |
| 131 | Sengottuvel      | Computer Aided design of substructures  | December 1988 |
| 132 | M. Kanakasabesan | An experimental investigation of the behavior of fiber reinforced concrete beams in flexure | December 1988 |
| 134 | P. Rajendran     | An experimental investigation of the behavior of fiber reinforced concrete beams in shear   | December 1988 |

(iv) Other contribution(s)

- Developed the Structural Engineering laboratory,
- NDT and Structural Dynamics laboratory

14. a) Details of Major R&D Projects

| Title of Project  | Funding Agency  | Duration |      | Status             |
|---|---|----------|------|--------------------|
|   |   | From     | To   | Ongoing/ Completed |
| Polymer Fibre Reinforced concrete beam subjected to bending and torsion   | DST, GOI  | 1990     | 1993 | Completed          |
| A novel hybrid energy system for supplying isolated loads with FPGA based energyn, management scheme<br>(structural part) | Centre for Wind Energy Technology (C-WET)657A/1A2, Velachery Tambaram Main Road, Pallikaranai, Chennai – 600 100, INDIA | 2014     |      | On going           |

b) Consultancy projects:

a) **Involved in the structural design of many structures in N.I.T. Trichy and some important structures are:**

| Type of work                                       | Agency |
|--|--------|
| Computer Center Octagon                            | NIT-T  |
| TREC STEP  | NIT-T  |
| Opal Hostel  | NIT-T  |
| Gymnasium  | NIT-T  |
| Swimming Pool                                      | NIT-T  |
| Department of Architecture                         | NIT-T  |
| Department of Manufacturing/Production Engineering | NIT-T  |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|                            |       |
|----------------------------|-------|
| Library Extension (old)    | NIT-T |
| Energy Centre              | NIT-T |
| Boys Hostel                | NIT-T |
| Department of Architecture | NIT-T |

**b) Outside NIT**

| <b>Type of work</b>  | <b>Agency</b>   |
|--|---|
| Condition assessment of the failure of Thermal plant at Sholapur   | NTPC, Sholapur  |
| Third party inspection for the Sewage Treatment Plants of 125MLD and 47.5MLD   | Madurai Corporation, Madurai  |
| Proof checking of structural design of the ONGC residential and office building at Anna Nagar (W), Chennai   | ONGC  |
| One man committee consisting of Dr.C.Natarajan, Professor of Civil Engineering, NIT, Tiruchirappalli to investigate the cause, the extent of damage to the 12m deck slab under construction and Vehicular underpass at Tholatur by National Highway Authority of India, New Delhi. | National Highway Authority of India, New Delhi  |
| Third party inspection for the construction of the institutional buildings   | Indian Institute of Crop Processing and Technology, Tanjore (under Ministry of Food Processing) |
| Third party inspection for the Sewage Treatment Plants of 13MLD, 6MLD, 35MLD and 44MLD   | Salem Corporation, salem  |
| Proof checking of structural design of the buildings of Common Facility Centre (CFC)   | Tiruchirappalli Engineering and Technology Cluster, Siruganoor, Tiruchy.                        |
| Proof checking of structural design of the Administrative building   | BHEL, Thirumayam  |
| Structural design of Library buildings   | Central University, Thiruvarur  |
| Structural design of workshops, academic and hostel buildings  | Anna University, Tiruchy  |
| Structural design of Funnel type elevated water storage tank capacity 3 lakhs liters at Kavery Nagar, Trichy   | Tiruchi City Corporation  |
| Structural design of Hostel, departments and controller of examinations office building  | Bharathidasan university, Tiruchy   |
| Structural design of Central Bus   | Trichy City Corporation, Trichy   |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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| Stand  |  |
| Structural design of Terminal Buildings  | Airport Authorities of India, Trichy                       |
| Structural design of Pre-treatment units (STP)   | U.G.S.S, Thanjavur   |
| Planning and structural design of modern kitchen, additional classrooms etc  | Tamil Nadu Catering Institute, Thuvadkudi, Tiruchirappalli |
| Structural Design of the 5 meter pressure pipe plant at Mayanoor   | Tamil Nadu Cemnt Asbestos Pipes, Mayanoor                  |
| Structural Design of a grid floor for the conference hall  | Tamil University, Thanjavur                                |
| Devar Hall Building, Tiruchirappalli   | Tiruchi City Corporation                                   |
| Machine Foundation Design  | I.O.C.L., Tiruchirappalli                                  |
| Staff Training Centre  | TWAD Board at Tiruchirappalli                              |
| Staff Training Centre  | T.N.E.B. at Tiruchirappalli                                |
| Structural design of Two Tier Water Tank   | TWAD Board at Trichy                                       |
| Foot Bridge for Needamangalam Panchayat, Alangudi Temple etc   | C.P.W.D, Tiruchy   |
| Design of Communication Network Towers   | Thiruvarur collectorate                                    |
| Design of Communication Network Towers   | Commissioner of Police, Tiruchi                            |
| Structural design of water tanks, sumps for Thuriyaur CWSS scheme  |  |
| Structural design of water tanks   | Thuvakudy Municipality                                     |
| Structural design of water tanks   | pattukkotai Municipality                                   |
| Structural design of water tanks, sumps for Andimadam CWSS scheme  | TWAD Board , Trichy  |
| Structural design of pipe carrying bridges for Vedanayanan CWSS scheme   | TWAD Board , Tanjore                                       |
| Structural design of Electric Crematorium  | Trichy City Corporation                                    |
| Structural design of Bridge  | Trichy City Corporation                                    |
| Proof checking of design calculations for Substation Building  | Bhilai Steel Plant   |
| Proof checking of design calculations for 45m Height Tower at Kumbakonam for VHF Installation<br>Rehabilitation of the Water Tanks | TWAD Board   |
| Structural design for the Proposed Bus Stand   | Musiri Municipality  |



National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members

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|--|---|
| Rehabilitation of the Ariyalur Cements and Alangualm Cements Plants  | Ariyalur Cements and Alangualm Cements Plants   |
| Rehabilitation of the Water Tanks  | TWAD Board, Karue   |
| Renovation of St.Joseph's Church, Tiruchirappalli  | St.Joseph's Church, Tiruchirappalli   |
| Rehabilitation of Chemistry building at St.Joseph's College, Tiruchirappalli   | St.Joseph's College, Tiruchirappalli  |
| Renovation of Pump House   | Trichy City Corporation   |
| Rehabilitation of the Water Tanks  | TWAD Board, Tiruchy   |
| Rehabilitation of the Housing Complex for Slum Clearance Board, Trichy, Erode & Madurai.   | Slum Clearance Board  |
| Rehabilitation of the AdiDravidar Hostel Building at Trichy & Thiruvarur District  |   |
| Rehabilitation of the BHEL Staff Quarters Building at Trichy   | BHEL  |
| Rehabilitation of the Collector well and pipe carrying bridge  | Tiruchy City Corporation  |
| Design of <b>two tier</b> water tank of capacity of 20 lakhs liters for TWAD board which caters to the need of the people in and around Thuvakudimalai | TWAD Board, Tiruchy   |
| Design of <b>community hall</b> buildings for police housing corporation   | Police Housing Corporation, Tiruchy   |
| Structural Design of Multi-storey Buildings for  | 1. Dheeran Chinnamalai Corporation, Tiruchirppalli.<br>2. Jeeva Transport Corporation, Erode.<br>3. Annai Sathya Taransport Corporation, Dharmapuri.<br>4. Periyar Transport Corporation, Villupuram. |
| <b>Technical Advices for development of Trichy City Corporation</b>  |   |
| Planning and design of <b>electrical crematorium</b> , Trichy which will   | <b>These structures were constructed using MPs' / MLAs' fund for the development of</b>   |

National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members

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| eliminate the pollution problems   | <b>Trichy City Corporation.</b>  |
| Design of <b>two lane bridge</b> at Srirangam and Trichy for Trichy City corporation   |  |
| Structural design of <b>bus shelter at Mainguard gate</b> bus stand which will be more useful for the passengers during rainy season   |  |
| <b>Underground drainage system</b> for Trichy City Corporation.  |  |
| Design of <b>foot bridge</b> at Alangudi Temple  | <b>These structures were constructed using MPs' / MLAs' fund for the rural development</b> |
| Design for <b>foot bridge</b> across Vennar near Needamangalam   |  |
| <b>Technical advice to various corporation for rural people</b>  |  |
| <ul style="list-style-type: none"> <li>• <b>Slum clearance</b> board buildings for construction as well as rehabilitation.</li> <li>• <b>Police housing</b> corporation for construction of police quarters, Forensic laboratory, I.G. office etc.,</li> <li>• <b>TWAD Board</b> water tanks for repair and renovation at various parts of Tamil Nadu</li> </ul> |  |
| <b>Technical advice for communication towers for rural development</b>   |  |
| <ul style="list-style-type: none"> <li>• Selection of sites for erection of communication towers for the District Collector, Tiruvarur district</li> <li>• Selection of sites for erection of communication towers for Police Housing Corporation, Trichy</li> </ul>   |  |
| <b>Technical Committee member for religious activities</b>   |  |
| <ul style="list-style-type: none"> <li>• Honorary Member for renovation of 100 years old St. Joseph's College Church at Tiruchirappalli</li> <li>• Renovation of Temples for Thanjavur, Tiruchi and Tiruvarur districts</li> </ul>   |  |

15. Number of PhDs guided

| Name of the PhD Scholar | Title of PhD Thesis  | Role(Supervisor/ Co-Supervisor) | Year of Award |
|-------------------------|--|---------------------------------|---------------|
| Ms.G.Dhanalakshmi       | Analytical simulation of size effects in concrete beams            | Supervisor                      | April 2008    |
| Mr. Senthamilkumar      | Evaluation of Liquefaction of potential of coromandal coastal sand | Supervisor                      | June 2009     |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|                        |  |            |                  |
|------------------------|--|------------|------------------|
| Ms. S. Shifana Fatima  | Vibration control of buildings using tuned mass damper   | Supervisor | July 2009        |
| Mr.I.Murugan           | Analytical and Experimental Studies on some aspects of Traditional Construction  | Supervisor | January 2010     |
| Mr. Murugan M          | Performance study of retrofitted pile under static and dynamic loading   | Supervisor | February 2014    |
| Mr. Sudhakar           | Experimental investigations on seawater based Geopolymer hydraform block masonry   | Supervisor | March 2015       |
| Mr.M.K. Haridharan     | Condition assessment of reinforced concrete slab subjected to elevated temperature fire  | Supervisor | November 2016    |
| Mr.R. Bharathi Murugan | Investigation of waste tyre crumb rubber as partial replacement for fine aggregate in cement and Geopolymer concrete paving blocks | Supervisor | Thesis submitted |
| Mr. Joseph Fernando    | Portuguse Churches of Tamilnadu  | Supervisor | On-going         |
| Mr. K. Sakthimurugan   | Characteristics analysis of M-sand   | Supervisor | On-going         |
| Mr.K.Manikantan        | Condition assessment of industry buildings   | Supervisor | On-going         |
| Mr.P.Natarajan         | Condition assessment of Highway roads  | Supervisor | On-going         |
| Mrs.T.Barkavi          | Damage analysis of concrete structures   | Supervisor | On-going         |
| Ms.Shamili S.R.        | Waste materials for construction   | Supervisor | On-going         |

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

| SI. No. | Title   | Organization / Place                           | Duration   |
|---------|---|--|--|
| 1       | The International Conference on advances in Civil Engineering Materials and Process | Coimbatore Institute of Technology, Coimbatore | January 7 <sup>th</sup> - 9 <sup>th</sup> , 2015 |
| 2       | 33rd International Conference on Ocean, Offshore and Arctic                         | ASME, San Francisco, CA, USA                   | June 8 <sup>th</sup> -13 <sup>th</sup> , 2014    |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|----|--|--|--|
|    | Engineering (OMAE14)   |  |  |
| 3  | 6 <sup>th</sup> Congress on Forensic Engineering   | ASCE, San Francisco  | 31 <sup>st</sup> October –3 <sup>rd</sup> November, 2012 |
| 4  | Innovation Management & Technology Valorization Sponsored by DST, New Delhi                                      | Administrative Staff College of India, Hyderabad                     | December 12 <sup>th</sup> - 23 <sup>rd</sup> , 2011      |
| 5  | Emerging Technologies for Design, Construction, rehabilitation and inspections of transportation infrastructures | Changsha University of science & technology, China                   | June 9 <sup>th</sup> -11 <sup>th</sup> , 2011            |
| 6  | Forensic Engineering   | ASCE, Washington, D.C.   | November 11 <sup>th</sup> -14 <sup>th</sup> , 2009       |
| 7  | National Risk Mitigation Project   | National Disaster Management Authority, New Delhi                    | May 20 <sup>th</sup> 2009                                |
| 8  | TEQIP workshop on the Seven Habits of highly effective people.   | Munnar, Kerala   | October 2 <sup>nd</sup> - 4 <sup>th</sup> , 2008.        |
| 9  | TEQIP workshop on Procurement, Academic issues and Civil works – NITS  | NPIU, Noida, UP  | May 8 <sup>th</sup> & 9 <sup>th</sup> , 2008             |
| 10 | “Structural Non-Destructive Testing Analysis and Structural Retrofitting”  | University of North Carolina at Charlotte, USA                       | March 1 <sup>st</sup> - 31 <sup>st</sup> , 2007          |
| 11 | TEQIP workshop for Civil works – NITS  | NPIU, Noida, UP  | 2 <sup>nd</sup> February 2006                            |
| 13 | Advances in concrete composites and structures   | Structural Engineering Research Centre, CSIR Campus, Chennai         | January 6 <sup>th</sup> – 8 <sup>th</sup> , 2005         |
| 14 | Corrosion protection of pre-stressing steel in Pre-stressed concrete cantilever segmental block                  | FIB Symposium - 2004, by Institution of Engineers (India), New Delhi | November 26 <sup>th</sup> -29 <sup>th</sup> 2004         |
| 15 | Design of Steel structures I and II  | NPTEL Workshop, IIT Madras, Chennai                                  | November 28 <sup>th</sup> , 2004                         |
| 16 | Inter-Departmental Conference  | CPWD, Chennai  | September 26 <sup>th</sup> , 2003                        |
| 17 | Industry Institute Interactive Meet  | Vellore Institute of Technology, Vellore                             | January 11 <sup>th</sup> , 2003                          |
| 18 | Intellectual Property Rights - Present Necessities and Responsibilities  | Bharathidasan University, Trichy                                     | December 9 <sup>th</sup> , 2002                          |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|     |  |  |   |
|-----|--|--|---|
| 19  | Design and Construction of Structures  | IIT Roorkee and Drought Monitoring Cell, Bangalore | August 6 <sup>th</sup> -10 <sup>th</sup> , 2002     |
| 20  | Testing and Evaluation of Concrete developments  | Instruct, Bangalore                                | May 19 <sup>th</sup> -20 <sup>th</sup> , 2000       |
| 21  | Efficient and Reliability analysis on Finite Element Analysis on Structures and Components | Structural Engineering Research Centre, Chennai    | January 19 <sup>th</sup> -20 <sup>th</sup> , 1998   |
| 22  | Trends in Structural Engineering towards the 21st Century                                  | Indian Institute of Technology Madras, Chennai     | February 12 <sup>th</sup> -14 <sup>th</sup> , 1997  |
| 23  | ISTE Annual convention   | Indian Society for Technical Education, India      | December 17 <sup>th</sup> - 23 <sup>rd</sup> , 1997 |
| 24  | Computer Aided Design and Expert System in Structural Engineering                          | Structural Engineering Research Centre, Chennai    | January 9 <sup>th</sup> -11 <sup>th</sup> , 1996    |
| 25  | Stability of Structures  | PSG College of Technology, Coimbatore              | June 7 <sup>th</sup> - 9 <sup>th</sup> , 1995       |
| 26  | Valuation VI   | Institution of Valuers, Trichy.                    | June 3 <sup>rd</sup> -4 <sup>th</sup> , 1995        |
| 27  | Computational Methods for Engineering Analysis & Design                                    | Indian Institute of Technology Madras, Chennai     | August 2 <sup>nd</sup> -11 <sup>th</sup> , 1993     |
| 28  | Knowledge Based Expert System in Civil Engineering   | PSG College of Technology, Coimbatore              | June 6 <sup>th</sup> – 19 <sup>th</sup> , 1993      |
| 29* | Civilization through Civil Engineering   | IABSE, New Delhi.                                  | March 1 <sup>st</sup> -6 <sup>th</sup> , 1992       |
| 30  | US - Binational Workshop on Advances in Construction Materials, Techniques and Management  | Indian Institute of Technology Madras, Chennai     | December 10 <sup>th</sup> -14 <sup>th</sup> , 1990  |
| 31  | Analysis and Design of Transmission Line Towers  | Structural Engineering Research Centre, Chennai    | September 10 <sup>th</sup> -14 <sup>th</sup> , 1990 |
| 32  | International Conference on Steel Structures and Space Frames                              | Singapore  | February 15 <sup>th</sup> -16 <sup>th</sup> , 1990. |
| 33  | Innovative Applications of Shells and Spatial Frames                                       | IASS, Bangalore.                                   | November 21 <sup>st</sup> - 25 <sup>th</sup> , 1983 |
| 34  | Advanced Study Institute of Finite Element Analysis for Engineering Design                 | Indian Institute of Technology Madras, Chennai     | August 1 <sup>st</sup> – 10 <sup>th</sup> , 1988    |
| 35  | ISFRC 87 – International   | Structural., Engineering                           | December 16 <sup>th</sup> -19 <sup>th</sup>         |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|----|---|--|---|
|    | Symposium on Fibre Reinforced Concrete                              | Research Centre, Chennai   | 1987  |
| 36 | Chemicals in Concrete Repair Materials                              | Indian Concrete Institute, Bangalore   | October 26 <sup>th</sup> – 28 <sup>th</sup> , 1987              |
| 37 | Finite Elements in Computational Mechanics                          | Indian Institute of Technology Bombay, Mumbai.   | December 2 <sup>nd</sup> - 6 <sup>th</sup> 1985                 |
| 38 | Passenger Transportation in Medium Cities - Planning and Management | Regional Engineering College Tiruchirappalli, Tiruchy.                                 | May 23 <sup>rd</sup> , 1985                                     |
| 39 | Computer Aided Design on Civil Engineering                          | University of Roorkee, Roorkee   | January 29 <sup>th</sup> - February 2 <sup>nd</sup> , 1985      |
| 40 | Projects and Construction Management                                | National Institute of Construction Management and Applied Research at Tiruchirappalli. | January 17 <sup>th</sup> – 19 <sup>th</sup> , 1985              |
| 41 | Microprocessors   | Indian Institute of Technology Madras, Chennai   | December 3 <sup>rd</sup> , 1984 to Janus 4 <sup>th</sup> , 1985 |
| 42 | Project Planning and Construction Management                        | Indian Institute of Technology, Kharagpur.   | May 2 <sup>nd</sup> - 15 <sup>th</sup> , 1984                   |
| 43 | Roofs and Floors  | PSG College of Technology. Coimbatore.   | March 10 <sup>th</sup> , 1984                                   |

**17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor**

| Title of Activity  | Level of Event (International/ National/ Local) | Date (s)              | Role         | Venue  |
|--|---|-----------------------|--------------|--|
| Forensic Engineering practices for Kerala PWD Engineers                                      | National  | 17-19, December, 2014 | Co-ordinator | Kerala State Highway Research Institute, Trivandrum, |
| TEQIP sponsored international workshop on Health Monitoring of Civil Engineering Structures, | International                                   | 4-5, November 2014    | Co-ordinator | NIT, Tiruchirappalli                                 |
| TEQIP sponsored  | Local   | 6-7,                  | Co-          | NIT,   |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|---|---------------|-------------------------|----------------|----------------------|
| international workshop on Structural Life assessment and Failure Diagnosis  |               | December 2013           | ordinator      | Tiruchirappalli      |
| TEQIP sponsored Forensic Engineering and practices  | Local         | 14-18, December 2012    | Co-ordinator   | NIT, Tiruchirappalli |
| Prefabrication theory and practices sponsored by the construction industry  | Local         | 3 – 24, May 2012        | Co-ordinator   | NIT, Tiruchirappalli |
| Introduction to Forensic Engineering and Analysis   | Local         | January 9-13, 2012      | Co-ordinator   | NIT, Tiruchirappalli |
| Structural Health Monitoring systems  | Local         | January 10, 2012        | Co-ordinator   | NIT, Tiruchirappalli |
| Course on Forensic Engineering in Valuation, sponsored by the Institution of valuers  | Local         | April 7, 2011           | Co-ordinator   | NIT, Tiruchirappalli |
| Course on Steel construction sponsored by the local industries  | Local         | September 13, 2011      | Co-ordinator   | NIT, Tiruchirappalli |
| Course of “Forensic Engg.-II, sponsored by Builders Association of India  | Local         | January 7-11, 2010      | Co-ordinator   | NIT, Tiruchirappalli |
| Vibration measurement on bridges  | Local         | January 1-5, 2010       | Co-ordinator   | NIT, Tiruchirappalli |
| Forensic Investigation and failure analysis   | Local         | December 5-9, 2010      | Co-ordinator   | NIT, Tiruchirappalli |
| <b>Indo-US workshop on” Forensic Engineering”</b> organized by NIT Tiruchy and The University of North Carolina at Charlotte <b>sponsored by NSF USA and ASCE..</b> | International | 15 – 17 , December 2010 | Co Coordinator | NIT, Tiruchirappalli |
| Sustainability in Infra-structural Construction   | Local         | 26-30, December 2009    | Co-ordinator   | NIT, Tiruchirappalli |
| Forensic Engg.-I:   | Local         | 20-24,                  | Co-            | NIT,                 |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|---|-------|----------------------------------|------------------|-------------------------|
| Introduction,<br>Sponsored by TEQIP   |       | December<br>2007                 | ordinator        | Tiruchirappalli         |
| Infrastructural<br>Engineering,<br>Sponsored by TEQIP   | Local | 17-18,<br>December<br>2007       | Co-<br>ordinator | NIT,<br>Tiruchirappalli |
| Workshop on<br>Geotechnical<br>investigation and<br>decision making in<br>Foundation,<br>Sponsored by TEQIP                                     | Local | , 23 October,<br>2007            | Co-<br>ordinator | NIT,<br>Tiruchirappalli |
| New materials in<br>concrete  | Local | 10-<br>14,September<br>2007      | Co-<br>ordinator | NIT,<br>Tiruchirappalli |
| Repair and<br>Rehabilitation for<br>Practicing Engineers  | Local | 1. , 2-6,<br>May 2007            | Co-<br>ordinator | NIT,<br>Tiruchirappalli |
| Recent Advancements<br>in Environmental<br>Engineering  | Local | 19-23,<br>February<br>2007       | Co-<br>ordinator | NIT,<br>Tiruchirappalli |
| Workshop on<br>Construction<br>materials  | Local | 26,27<br>February<br>2007        | Co-<br>ordinator | NIT,<br>Tiruchirappalli |
| TEQIP sponsored<br>community service<br>based conduct<br>workshop on<br>“Concrete Mix<br>Design-CONMIDE<br>2006                                 | Local | 9th February<br>2006             | Co-<br>ordinator | NIT,<br>Tiruchirappalli |
| TEQIP sponsored<br>community service<br>based conduct<br>workshop on<br>“Seismic Structural<br>Analysis and Design-<br>SESTRAD                  | Local | 22nd and<br>23rd October<br>2005 | Co-<br>ordinator | NIT,<br>Tiruchirappalli |
| SERC – UNDP<br>sponsored community<br>based conduct<br>programme for<br>‘Mitigating Damage<br>to buildings and<br>structures due to<br>cyclones | Local | December 31,<br>1997             | Co-<br>ordinator | REC,<br>Tiruchirappalli |
| AICTE sponsored<br>ISTE winter school<br>on ‘Recent   | Local | December 1-<br>13, 1997          | Co-<br>ordinator | REC,<br>Tiruchirappalli |



**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|---|-------|--------------------|--------------|----------------------|
| Departments in Analysis, Design and Detailing in industrial Structures              |       |                    |              |                      |
| National Symposium on “Tall Structures  | Local | February 2-3, 1995 | Co-ordinator | REC, Tiruchirappalli |
| A short term course on “Finite Element Method for Faculty and Practicing Engineers’ | Local | April 6-10, 1992   | Co-ordinator | REC, Tiruchirappalli |

**18. Invited Talks delivered**

| S.No. | Topic   | Date                          | Inviting Organization  |
|-------|---|-------------------------------|--|
| 1     | Condition Assessment of Structures and rating Building        | 19, April, 2016               | Technical meet at Tiruchirappalli organised by Civil Engineering Association of Tiruchitrappalli             |
| 2     | Delivered Graduation Day address                              | 9 <sup>th</sup> April , 2016  | St.Michael College of Engineering and Technology, Kalayatkoil, Sivaganga District                            |
| 3     | Delivered College Day address                                 | 26 <sup>th</sup> March, 2016  | SreeSowdambika College of Engineering, Chettikurichi, Aruppukottai   |
| 4     | Condition Assessment of buildings                             | 5 March , 2016                | Kongu Engineering College, Perundurai  |
| 5     | Inaugural address of the one day national level symposium     | 28 March, 2015                | JJ college of engineering and Technology, Tiruchirappalli  |
| 6     | Condition assessment of Buildings                             | 24 March, 2015                | Tiruchy Rotary club  |
| 7     | Key note address on New material for construction             | 7-9, January 2015             | International Conference on Advances in Civil Engineering materials and Processes, CIT, Coimbatore           |
| 8     | Special lecture on “Forensics practices in Civil Engineering” | 24-26 December ,2014          | PWD Engineers and the Vigilance Engineers in the Kerala State at Kerala High way Research Centre, Trivandrum |
| 9     | Special lecture on “ Condition assessment of Buildings”       | 1 <sup>st</sup> December 2014 | Mohamed Sathak Engineering College,  |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|    |   |                                    | Kilakarai   |
| 10 | Special lecture on “Precautions in Building Construction”   | 24 September, 2014                 | State Level seminar on Precautionary Measures in Construction at Civil Engineers and Architects Association Thanjavur |
| 11 | Special address on “Engineers’ Day“   | 15, September, 2014                | Indira Ganesan College of Engineering, Tiruchirappalli  |
| 12 | Special lecture on “Importance of Structural Engineer in Construction”  | 9 September, 2014                  | monthly meeting at CREDAI, Tiruchirappalli  |
| 13 | Inaugural Address for the ISTE Sponsored National Level conference on “Recent development in Civil Engineering”                     | 29 <sup>th</sup> March, 2014       | Mohamed Sathak Engineering College, Kilakaral   |
| 14 | Inaugural Address for the TEQIP II sponsored Two days National Conference on “Recent Trends in Civil and Environmental Engineering” | 21 <sup>st</sup> March, 2014       | Anna University BIT Campus, Trichy  |
| 15 | Special lectures on “Repair Techniques & Case Studies ” for the Workshop on Repair & Rehabilitation of Structures                   | 3 <sup>rd</sup> March, 2014        | CARE College of Engineering, Trichy   |
| 16 | Special address on “Forensic Investigation and Structural Health Monitoring”  | 4 <sup>th</sup> January, 2014      | Workshop on Recent Developments in Concrete Technology at Vickram College of Engineering, Madurai                     |
| 17 | Special lectures on “Software Application in Civil Engineering”   | 12-18 <sup>th</sup> December, 2013 | TEQIP sponsored Faculty Development Program at Anna University BIT Campus, Trichy                                     |
| 18 | Special address on “Introduction of Light weight Concrete Blocks”   | 17 <sup>th</sup> December, 2013    | Introductory meet of Renacon AAC Block at Trichy  |
| 19 | Special lecture on “Forensic Investigation” for the TEQIP sponsored workshop on Utilization of Solid Wastes in Concrete             | 16 <sup>th</sup> December, 2013    | Thigarajar College of Engineering, Madurai  |
| 20 | Special lecture on “Indian Construction a Paradigm Shift”   | 23 <sup>rd</sup> October, 2013     | the Builders’ Association of India Day at Tanjore   |
| 21 | Forensic Investigations and Structural Health Monitoring”, key note   | 21-22 <sup>nd</sup> October, 2013  | Easa College of Engg. & Tech., Coimbatore   |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|    | address in the AICTE sponsored National Seminar on Earthquake & Structural Health Monitoring  |                                 |  |
| 22 | Forensic Engineering Practices- Key note address in the Fourth National conference on innovative Practices in Construction and Waste Management                         | 3 April, 2013                   | Sri Ramakrishna Institute of Technology, Coimbatore            |
| 23 | Special lecture on “Precast Construction Practice”, for the Technical meet at Thanjavur   | 8, January, 2013                | Ultra Tech Cement Ltd.,  |
| 24 | ”Precast Construction” for the General body meeting of the Builders’ Association of India   | 23, November, 2012              | Builders’ Association of India, Tiruchi                        |
| 25 | Inaugural address of Civil Engineering Association of Cauvery College of Engineering and Technology, Tiruchirappalli  | 25, July, 2012                  | Cauvery College of Engineering and Technology, Tiruchirappalli |
| 26 | Delivered College Day address at Arignar Anna College, Aralvoimozhi   | 16 <sup>th</sup> March, 2012    | Arignar Anna College, Aralvoimozhi                             |
| 27 | Special lecture delivered on “Forensic Engineering” A national level Students’ Technical Symposium at Oxford Engineering College, Tiruchirappalli                       | 17 <sup>th</sup> February, 2012 | Oxford Engineering College, Tiruchirappalli                    |
| 28 | Special lecture delivered on “Repairs and Remedies in Construction” Civil Engineers and Architects Association, Thanjavur   | 10 <sup>th</sup> January, 2012. | Civil Engineers and Architects Association, Thanjavur          |
| 29 | Special lecture delivered on steel constructions, Builders Association of India, Trichy   | 13 <sup>th</sup> September 2011 | Builders Association of India, Trichy                          |
| 30 | Special lecture delivered in the One day orientation programme on Prefabricated buildings – Practices, Challenges and directions, Anna University of Technology, Trichy | 9 <sup>th</sup> September 2011  | Anna University of Technology, Trichy                          |
| 31 | Special lecture delivered on Applications of Forensic   | 7 <sup>th</sup> April 2011      | Institution of Valuers’, Trichy                                |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|    | Engineering in Valuation, Institution of Valuers', Trichy   |                                |  |
| 32 | Special lecture delivered in the Inagural function of Intellectual Civil Academe's Nest, JJ College of Engineering and Technology                     | 11 <sup>th</sup> March 2011    | JJ College of Engineering and Technology                     |
| 33 | Special lecture delivered in the National conference on Advances in Materials and Structures at Pondichery Engineering College, Pondicherry           | 3 <sup>rd</sup> February 2011  | Pondichery Engineering College, Pondicherry                  |
| 34 | Special lecture delivered in the Inaugural function of Seismic safe design training for building professional at Periar Maniammai University, Tanjore | 20 <sup>th</sup> December 2010 | Periar Maniammai University, Tanjore                         |
| 35 | Special lecture delivered in the National Seminar on Problems and Prospects in Habitat development, Gandhigram rural University, Gandigram            | 4 <sup>th</sup> March 2010     | Gandhigram rural University, Gandigram                       |
| 36 | Special lecture delivered in the Civil Engineering Federation of CEFTRON – 2006 to the One day workshop on for Civil Engineers at Trichy              | 7 <sup>th</sup> February 2006  | Civil Engineering Federation of CEFTRON                      |
| 37 | Special lecture delivered in the Civil Engineers and Architects Association Thanjavur (CEAAT) on "Rehabilitation and Maintenance of Structures"       | December 17, 2009              | Civil Engineers and Architects Association Thanjavur (CEAAT) |

**19. Membership of Learned Societies**

| Type of Membership (Ordinary Member/ Honorary Member / Life Member ) | Organization  | Membership No. with date |
|--|---|--------------------------|
| Member   | , ASME,USA  | , (100733478/2014)       |
| Life Member  | ASCI Association, Administrative Staff College of India | ,/11-12/3/107/45805      |
| Life Member  | Indian Geotechnical                                     | LM507                    |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|               | Society                                  |             |
| Fellow Member | The Institution of Engineers             | F114764-B   |
| Life Member   | Indian Concrete Institute                | LM 11681    |
| Life Member   | Indian Society for Technical Education   | I (LM 1753) |
| Life Member   | Indian Society of Earth Quake Technology | LM580       |
| Life Member   | Indian Society of Public Administration  | L7999       |
| Fellow member | Indian Institute of Bridge Engineers     | LF-1010     |
| Life Member   | Indian Water Works Association           | LM4750      |
| Life Member   | Indian Road Congress                     | LM 29835    |
| Life Member   | Association of Structural Rehabilitation | A0054       |

20. Academic Foreign Visits

| Country                  | Duration of Visit                  | Programme  |
|--------------------------|------------------------------------|--|
| Singapore                | 15-16 Singapore 1990               | International Conference on Steel Structures and Space Frames  |
| United States of America | 1-31 March 2007                    | Training programme on Structural non-destructive and analysis and structural retrofitting  |
| United States of America | 11-14 November, 2009               | 5 <sup>th</sup> Congress on Forensic Engineering   |
| China                    | 9 -11 June 2011                    | Emerging Technologies for Design, Construction, rehabilitation and inspections of transportation infrastructures at Changsha University of science & technology, China |
| United States of America | 31 October 2012 to 3 November 2012 | ASCE International symposium on Forensic Engineering   |
| United States of America | 8-13 June 2014                     | International Conference on Ocean, Offshore and Arctic Engineering OMAE14, San Francisco   |

National Institute of Technology, Tiruchirappalli:  
Perfoma for CV of Faculty/ Staff Members

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21. Publications

(A) **Refereed Research Journals:**

| Author(s)   | Title of Paper  | Journal   | Vol. (No.) | Page Nos. | Year | I.F         |
|---|---|---|------------|-----------|------|-------------|
| <b>INTERNATIONAL JOURNALS</b>   |   |   |            |           |      |             |
| M Murugan, Muthukkumaran. K, and C Natarajan  | FRP-Strengthened RC Piles-I:Piles under static Lateral Loads                                  | J.of Performance of Constructed Facilities, ASCE, USA   | In press   |           | 2016 |             |
| M Murugan, Muthukkumaran. K, and C Natarajan  | FRP-Strengthened RC Piles-I:Piles under static Lateral Loads                                  | J.of Performance of Constructed Facilities, ASCE, USA   | In press   |           | 2016 |             |
| ShenEn Chen; Mark e. Leeman, BSCE; J. Brandon English, BSCE; Andrew B. Kennedy, PhD; Forrest J. Masters, PhD; Jean Paul Pinelli, PhD; Weichiang Pang, PhD; Jose A. Rullan-Rodriguez, MSCE; P. Satyanarayana, MSCE; Joseph Calvo, BSCE; BharathiMurugan, MSCE; C. Natarajan, PhD | Basic Structure System Rating of Post-Hurricane Haiyan Structures in Tacloban and East Guiuan | Journal of Performance of Constructed Facilities, ASCE  |            |           | 2015 | 0.7 (R G)   |
| Murugan M, Natarajan C, Muthukkumaran K   | Non Dimensional solutions for vertical piles subjected to lateral loads”                      | International Journal of applied Engineering Research   | 10(62 )    | 302-309   | 2015 | 2.89 (JC C) |
| Bharathi Murugan, Selvakumar and C.Natarajan  | Investigation of the properties of Concrete containing waste tire crumb rubber                | International Journal of Earth Sciences and Engineering | 8(2)       | 126-129   | 2015 | 0.14 (SJ R) |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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|--|---|--|---|-------------------------|------|-------------------------------|
| Murugan M,<br>Natarajan C,<br>Muthukkumaran<br>K                               | Stiffness degradation<br>and energy<br>dissipation of RC<br>Piles subjected to<br>cyclic lateral loading                | International<br>Journal of<br>applied<br>Engineering<br>Research        | 10(62<br>)  | 310-<br>315             | 2015 | 2.8<br>9<br><br>(JC<br>C)     |
| Lokeswaran M.R.<br>and C.Natarajan   | Non Destructive<br>Investigation on the<br>effect of locally<br>available<br>Manufactured sands<br>in Concrete          | International<br>Journal of Earth<br>Sciences and<br>Engineering         | 8(2),   | 184-<br>188             | 2015 | 0.1<br>4<br><br>(SJ<br>R)     |
| Bharathi Murugan<br>and C.Natarajan  | Investigation of<br>precast concrete<br>paver block with<br>waste tyre crumb<br>rubber”,                                | Road Materials<br>and Pavement<br>Design                                 | DOI:<br>10.10<br>80/14<br>6806<br>29.20<br>15.11<br>1905<br>6 |                         | 2015 | 1.5<br>47<br><br>(T<br>R)     |
| Bharathi Murugan<br>and C.Natarajan  | An experimental<br>study on Rubberized<br>concrete  | International<br>Journal of<br>Scientific and<br>Engineering<br>research | 6 (5)   | 860-<br>863             | 2015 | 0.1<br>8<br><br>(R<br>G)      |
| V.<br>Vengatasalopathy,<br>R.Ilangovan,<br>A.R.Santhakumar<br>and C.Natarajan  | An experimental<br>investigation on the<br>stresses distribution<br>in reinforced<br>concrete deep beams                | International<br>Journal of<br>Applied<br>Engineering<br>Research        | 10(5)   | 1282<br>5-<br>1284<br>1 | 2015 | 2.8<br>9<br><br>(J<br>CC<br>) |
| V.Vengatasalapat<br>hy.<br>R.Ilangovan.,A.R.<br>Santhakumar and<br>C.Natarajan | Behaviour and<br>ultimate strength of<br>reinforced concrete<br>deep beams with<br>openings under<br>induced shear load | International<br>Journal of Earth<br>Sciences and<br>Engineering         | 8(4)  | 1927-<br>1934           | 2015 | 0.1<br>4<br><br>(SJ<br>R)     |
| R. Bharathi<br>Murugan and<br>C.Natarajan                                      | Durability Study on<br>Concrete<br>Incorporating Waste<br>Tire Crumb Rubber<br>as Fine Aggregate                        | International<br>Journal of Earth<br>Sciences and<br>Engineering         | 8(3)  | 1187-<br>1190           | 2015 | 0.1<br>4<br><br>(SJ<br>R)     |
| K Haridharan and<br>C Natarajan  | Numerical<br>Simulation of<br>Damage in<br>Reinforced Concrete<br>Slab subjected to<br>Elevated<br>Temperature          | International<br>Journal of Earth<br>Sciences and<br>Engineering         | 8(1)  | 129-<br>135             | 2015 | 0.1<br>4<br><br>(SJ<br>R)     |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

|  |   |   |       |               |      |                           |
|--|---|---|-------|---------------|------|---------------------------|
| Murugan, M.,<br>Natarajan, C .and<br>Muthukkumaran<br>K  | Experimental study<br>of the behavior of<br>interface between<br>gravel soils and<br>concrete surfaces  | International<br>journal of Earth<br>Sciences and<br>Engineering                  | 7(4)  | 659-<br>664   | 2014 | 0.1<br>4<br><br>(SJ<br>R) |
| M K Haridharan<br>and C Natarajan                        | Performance and<br>Damage Assessment<br>Reinforced Concrete<br>Slab exposed to<br>Elevated<br>Temperature   | International<br>Journal of Civil<br>Engineering                                  | 3(5)  | 7 -16         | 2014 | 0.3<br>72                 |
| Murugan, M.,<br>Natarajan, C .and<br>Muthukkumaran<br>K  | Flexural Behavior<br>Of Concrete Prisms<br>Confined With FRP<br>Composites  | Int. Journal of<br>Construction<br>Materials and<br>Structures                    | 2 (1) | 9-18          | 2014 | 1.4<br>11                 |
| Murugan, M.,<br>Natarajan, C and<br>Muthukkumaran<br>K   | Short-Term<br>Durability Test on<br>Compressive<br>Behavior of<br>Concrete Cylinders<br>Confined With FRP<br>Composites under<br>Various<br>Environmental<br>Conditions | International<br>journal of Earth<br>Sciences and<br>Engineering                  | 7(4)  | 7(4)          | 2014 | 0.1<br>4<br><br>(SJ<br>R) |
| N<br>Raveendrababu,<br>M K Haridharan<br>and C Natarajan | Temperature<br>distribution in<br>concrete slabs<br>exposed to elevated<br>temperature  | International<br>Journal of<br>Engineering<br>Science<br>Invention                | 3 (3) | 35 –<br>43    | 2014 | 1.7<br>86                 |
| Murugan, M.,<br>Natarajan, C .and<br>Muthukkumaran<br>K  | Experimental<br>Investigation on<br>GFRP strengthened<br>RC Piles under<br>lateral loads  | Int.Journal of<br>Forensic<br>Engineering   | 2 (1) | 552-<br>556   | 2014 | -                         |
| M.Murugan,<br>K.Muthukkumara<br>n, and<br>C.Natarajan    | Compressive<br>Behavior of<br>Concrete cubes<br>Confined With Glass<br>And Carbon Fibre<br>Reinforced Polymers  | International<br>Journal of<br>Engineering &<br>Science<br>Research               | 3(3), | 2618-<br>2626 | 2013 | 3.4<br>7                  |
| M.Murugan,<br>C.Natarajan and<br>K.Muthukkumara<br>n     | Compressive<br>Behavior of<br>Concrete Cylinders<br>Confined With Glass<br>And Carbon Fibre<br>Reinforced Polymers  | International<br>Journal of<br>Structural and<br>Civil<br>Engineering<br>Research | 02    | 69-76         | 2013 | -                         |
| Sangluaia. C, ,  | Behaviour of  | International   | 3(1), | 195-          | 2013 |                           |



**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

|   |   |  |             |              |      |                       |
|---|---|--|-------------|--------------|------|-----------------------|
| Hariharan,<br>C.Natarajan and<br>Rajaraman                                | Reinforced Concrete<br>slab subjected to<br>Fire  | journal of<br>Computational<br>Engineering<br>Research                                     |             | 206          |      |                       |
| Bennet Jose<br>Mathew, M.<br>Sudhakar, and C.<br>Natarajan                | Strength, Economic<br>and Sustainability<br>Characteristics of<br>Coal Ash–GGBS<br>Based Geopolymer<br>Concrete | International<br>Journal of<br>Computational<br>Engineering<br>Research                    | 3(1)        | 207-<br>212  | 2013 | 0.6<br>75             |
| Bennet Jose<br>Mathew ,<br>Sudhakar M and<br>C Natarajan                  | Development of<br>Coal Ash – GGBS<br>based geopolymer<br>bricks   | European<br>International<br>Journal of<br>Science and<br>Technology                       | 2(5),       | 133 –<br>139 | 2013 | 0.4<br>57             |
| M. Sudhakar and<br>C.Natarajan  | A comparative study<br>on Geopolymer<br>bricks manufactured<br>using Non-ionic<br>water and sea water           | Int.Journal of<br>Construction<br>Materials and<br>Structures                              | 2(2)        | 1-7          | 2013 | 1.4<br>11             |
| S.Shifana Fatima<br>andC.Natarajan  | Object-oriented<br>program and<br>webpage developed<br>for the design of<br>bridges                             | Journal of<br>Information,<br>Intelligence and<br>Knowledge,<br>Nova Science<br>Publishers | 5(4)        | 259-<br>267  | 2013 |                       |
| Madhavi.N,<br>Baskar.K,<br>Natarajan.C and<br>Rajaraman A                 | Role of Central and<br>Non- Central Nodal<br>damage in skewed<br>grid bridges                                   | International<br>Journal Earth<br>Sciences and<br>Engineering                              | 6(4)        | 612-<br>616  | 2013 | 0.1<br>4<br>(SJ<br>R) |
| Remya,<br>C.Natarajanand<br>A.Rajaraman                                   | Flood vulnerability<br>of soft storied<br>residential buildings   | International<br>Journal of Civil<br>Engineering and<br>Applications                       | 3(4),       | pp51-<br>54  | 2013 | -                     |
| S.E.Chen,<br>R.Schmidt,<br>R.Janardhanam<br>and C.Natarajan               | First Indian –US<br>Forensic engineering<br>workshop  | Int. Journal of<br>Forensic<br>Engineering   | 1(3/4)<br>, | 183-<br>197  | 2013 | -                     |
| V.Vengatasalapat<br>hyR.Ilangovan.,A.<br>R.Santhakumar<br>and C.Natarajan | An investigation of<br>the stresses in<br>Reinforced Concrete<br>deep beams with and<br>without openings        | Pensee Journal,<br>France  | 75(12<br>)  | 362-<br>373  | 2013 | 0.0<br>63             |
| M.Murugan,<br>Natarajan C and<br>K.Muthukkumara<br>n,                     | Behaviour of<br>Laterally loaded<br>piles in cohesionless<br>soils  | International<br>Journal of Earth<br>Sciences and<br>Engineering                           | 4(6)        | 104-<br>106  | 2013 | 0.1<br>4<br>(SJ       |

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

|   |   |   |                               |         |      |                   |
|---|---|---|-------------------------------|---------|------|-------------------|
|   |   |   |                               |         |      | R)                |
| Natarajan, C., Revathi.P and Jeya.S                               | Prognosis of Rebar Corrosion in Fly-ash concrete Part 1” - Ponding method   | International Journal of 3R’s   | , 2(4),                       | 319-323 | 2011 | 0.511             |
| Natarajan, C., Revathi.P and Jeya.S                               | Prognosis of Rebar Corrosion in Fly-ash concrete Part 2 ” – Electric Potential method   | International Journal of 3R’s   | 2(4),                         | 324-328 | 2011 | 0.511             |
| S.Shifana Fatima., C.Natarajan and A.Rajaraman                    | Stiffness Evaluation and Damage Quantification of Beams using Knowledge Based finite element approach                                   | Journal of Information, Intelligence and Knowledge, Nova Science Publishers,            | 3 (1),                        | 27-39   | 2011 | -                 |
| Natarajan, C., Shen-En Chen and Mohiuddin Syed                    | Rehabilitation and Preservation of the St. Lourdes Church, Tiruchirappallil   | Journal of Performance of Constructed Facilities, ASCE                                  | 24(3)                         | 281-288 | 2010 | 0.7<br>(R<br>G)   |
| Syed Ummer M.Thangal, K.S. Pandey, Natarajan, C., and S.Shanmugam | Effect of copper and silicon addition on the ring fracture strength and hardness of sintered-hot forged carbon steels                   | Int. Jl. of Materials and Product Technology  | 34 (3),                       | 312-322 | 2009 | 0.365             |
| C.Natarajan and P. ArunKumar                                      | Experimental Investigation of Torsional behaviour of Glass Fibre wrapped reinforced Concrete beam                                       | International Journal Earth Sciences and Engineering                                    | 2(1)                          | 63-67   | 2009 | 0.14<br>(SJ<br>R) |
| S.Senthamil Kumar, C.Natarajan and K.Muthukumaran                 | Multilinear Regression Analysis for seismic response and coastal Engineering Properties of liquefiable coromandel coastal soil deposits | International Journal of Geotechnical and Geological Engineering, Springer Publications | DOI 10.1007/s10706-008-9244-X | 39-453  | 2009 | 0.814             |
| Shifana Fatima S., Natarajan, C., and Rajaraman, A                | Structural Damage Diagnosis and Rehabilitation Using Fuzzy Information  | International Journal of Soft Computing   | 3(5)                          | 368-372 | 2008 | 0.13              |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|--|--|---|--|---------------|------|---------------------------|
| Syed Ummer<br>M.Thangal, K.S.<br>Pandey,<br>Natarajan, C., and<br>S. Shanmugam | Ring fracture strength and hardness of sintered hot forged deformed high carbon steel performs                                       | International Jl. of Materials Science                | 3(1)   | 75-88         | 2008 | 2.3<br>02                 |
| Syed Ummer<br>M.Thangal, K.S.<br>Pandey,<br>Natarajan, C., and<br>S.Shanmugam  | Ring fracture strength and hardness behaviour on fractional density of sintered-hot forged 1.2% Cu and 1.0% Si alloyed carbon steels | Int. Jl. of Materials Science                         | 2(3)   | 219-228       | 2007 | 2.3<br>02                 |
| Suneel Kumar M.,<br>Jayabalan P., and<br>Natarajan, C                          | Effect of intraplanar differential settlement analysis of boiler supporting structure – A case study                                 | Journal – The Institution of Engineers, Malaysia      | 68(2)  | 8 - 14        | 2007 | -                         |
| Natarajan, C.,<br>Jayabalan P.,<br>Almas Begum,<br>N., and<br>Rajaraman, A     | Corrosion protection by coatings on pre-stressed steel   | The Journal of Science and Engineering, Corrosion     | 61(12)   | 1189-1193     | 2005 | 0.1<br>3<br><br>(SJ<br>R) |
| <b>NATIONAL JOURNALS</b>   |  |   |  |               |      |                           |
| Tejasvi M,<br>Bharathi Murugan<br>R. and C.<br>Natarajan                       | Mechanical properties of geopolymer concrete paver block   | Journal of Geotechnical Engineering                   | 3 (1),   | 1-5.          | 2016 |                           |
| Lokeshwaran M.<br>R and C.<br>Natarajan  | Experimental investigation of on the effect of manufactured sand in concrete   | J., Recent trends in Civil Engineering and Technology | 6 (1)  | 45-52         | 2016 | 4.1<br>5                  |
| Barkavi T and C.<br>Natarajan  | Damage assessment in reinforced concrete structures  | J., Recent trends in Civil Engineering and Technology | 6 (1)  | 29-35         | 2016 | 4.1<br>5                  |
| Bharathi Murugan<br>R. and C.<br>Natarajan                                     | Investigation of the behavior of concrete containing waste tire crumb rubber   | Advances in Structural Engineering,                   | DOI<br>10.10<br>07/97<br>8-81-<br>322-<br>2187-<br>6_13<br>7 | 1795-<br>1802 | 2015 | 0.4<br>8<br><br>(SJ<br>R) |

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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|--|---|---|--|---------------|------|----------------------------|
| M. Sudhakar,<br>George M.<br>Varghese and C.<br>Natarajan    | Performance Studies<br>on Geopolymer<br>Based Solid<br>Interlocking<br>Masonry Blocks   | Advances in<br>Structural<br>Engineering,<br>Springer India                           | DOI<br>10.10<br>07/97<br>8-81-<br>322-<br>2187-<br>6_12<br>8 | 1687-<br>1701 | 2015 | 0.5<br>77<br><br>(SJ<br>R) |
| M.R. Lokeswaran<br>and C. Natarajan                          | Study on the<br>Properties of<br>Cement Concrete<br>Using Manufactured<br>sand  | Advances in<br>Structural<br>Engineering,<br>Springer India                           | DOI<br>10.10<br>07/97<br>8-81-<br>322-<br>2187-<br>6_13<br>8 | 1803-<br>1809 | 2015 | 0.4<br>8<br><br>(SJ<br>R)  |
| Ch.<br>Venkateswarlu<br>and C. Natarajan                     | Performance<br>assessment of RC<br>beams with CFRP<br>and GFRP sheets   | Advances in<br>Structural<br>Engineering,<br>Springer India                           | DOI<br>10.10<br>07/97<br>8-81-<br>322-<br>2187-<br>6_15      | 1987-<br>2000 | 2015 | 0.4<br>8<br><br>(SJ<br>R)  |
| N.<br>RaveendraBabu,<br>M.K. Haridharan<br>and C. Natarajan  | Behaviour of Two<br>Way Reinforced<br>Concrete Slab at<br>Elevated<br>Temperature“,<br>Advances in<br>Structural<br>Engineering | Advances in<br>Structural<br>Engineering,<br>Springer India                           | DOI<br>10.10<br>07/97<br>8-81-<br>322-<br>2187-<br>6_17<br>3 | 2285-<br>2298 | 2015 | 0.4<br>8<br><br>(SJ<br>R)  |
| M. Sudhakar,<br>M.P. Raj and C.<br>Natarajan                 | Interaction Study on<br>Interlocking<br>Masonry Wall<br>Under Simultaneous<br>Springer India                                    | Advances in<br>Structural<br>Engineering In-<br>Plane and out-<br>of-Plane<br>Loading | DOI<br>10.10<br>07/97<br>8-81-<br>322-<br>2187-<br>6_18<br>9 | 2471-<br>2480 | 2015 | 0.4<br>8<br><br>(SJ<br>R)  |
| Madhavi. N,<br>Baskar. K, C.<br>Natarajan and<br>Rajaraman.A | Influence of skew<br>angle in the design<br>of grids  | Indian<br>Highways  | 41(5),   | 57-65         | 2013 | 1.6<br>9                   |
| Sukanya. G.,<br>Natarajan, C. and                            | Progressive Collapse<br>Analysis of RC  | Journal of<br>Mechanical and  | 5(4)   | 55-67         | 2013 | 1.7<br>53                  |

**National Institute of Technology, Tiruchirappalli:  
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|---|--|--|----------|---------|------|----------------|
| Rajaraman, A  | Beams  | Civil Engineering  |          |         |      |                |
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National Institute of Technology, Tiruchirappalli:  
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| M K<br>Haridharan and<br>C Natarajan                  | Experimental study<br>on thermo<br>mechanically treated<br>(TMT) rebar<br>subjected to various<br>thermal<br>cycle" is accepted for<br>the presentation in the<br>Conference | International<br>conferences<br>on recent<br>trends in<br>engineering<br>and material<br>sciences" and<br>possible<br>publication in<br>"Perspectives<br>in Science<br>(Elsevier)      |  |  | 2016 |
| R,<br>BharathiMurug<br>an, and<br>C.Natarajan         | Strength evaluation of<br>rubberized concrete<br>based on ultrasonic<br>pulse velocity and<br>rebound hammer tests   | International<br>conferences<br>on recent<br>trends in<br>engineering<br>and material<br>sciences" and<br>possible<br>publication<br>in<br>"Perspectives<br>in Science<br>(Elsevier)". |  |  | 2016 |

National Institute of Technology, Tiruchirappalli:  
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| N. Ganesh and<br>C.Natarajan                              | Mechanical properties<br>of high performance<br>glass fibre reinforced<br>concrete with<br>superplasticizer | Accepted for<br>the<br>presentation<br>in the<br>Conference<br>“National<br>conference<br>on Advances<br>in<br>Construction<br>Technology<br>and<br>Management |  |  | 2016 |
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**National Institute of Technology, Tiruchirappalli:  
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| R.<br>BharathiMurugan,<br>C. Natarajan and<br>Shen-En Chen | Material<br>development for a<br>sustainable precast<br>concrete block<br>pavement       | Proceeding of<br>the 9th<br>International<br>Committee on<br>Pavement<br>Technology<br>(ICPT2015)                 |         | Dalian,<br>Liaoning,<br>China                               | 2015 |
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**National Institute of Technology, Tiruchirappalli:  
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National Institute of Technology, Tiruchirappalli:  
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**National Institute of Technology, Tiruchirappalli:  
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National Institute of Technology, Tiruchirappalli:  
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Performa for CV of Faculty/ Staff Members

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Performa for CV of Faculty/ Staff Members**

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