

National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran

Curriculum Vitae

1. Name : **Dr. K. Thirumaran**
2. Designation : HOD & Associate Professor
3. Office Address : Department of Architecture
4. Telephone : 0341-2503558
Mobile (Optional) : +91 9894018599



5. Email (Primary): ktm@nitt.edu Email (Secondary): thiru731@gmail.com
6. Field(s) of Specialization : Energy, Sustainable Architecture, Urban Design, Conservation, Cost Effective Construction Techniques

7. Employment Profile:

Job Title	Employer	From	To
National Institute of Technology, Trichy	Lecturer	01.08.1991	01.04.1998
National Institute of Technology, Trichy	Assistant Professor	01.04.1998	01.01.2006
National Institute of Technology, Trichy	Associate Professor	01.01.2006	Till Date

8. Academic Qualifications:

Examination	Board / University	Year	Subjects
PhD	NIT, Trichy	2012	Urban Design Architectural Conservation
M.Arch	SAP, Anna University, Chennai	1991	Architecture
B.Arch	NIT (REC), Bhopal.	1989	Architecture

9. Academic/Administrative Responsibilities within the University:

Position	Faculty/Department/Centre/Institution	From	To
Member/B.O.G	National Institute of Technology, Trichy	2013	2015
HOD	Department of Architecture, National Institute of Technology, Trichy	02.02.2009	01.02.2012

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

Convener	Hostel Maintenance, National Institute of Technology, Trichy	01.06.2008	31.05.2010
Warden	Beryl Hostel, National Institute of Technology, Trichy	01.01.2001	01.01.2003
Faculty –In-Charge	Photography Club, National Institute of Technology, Trichy	01.01.1993	01.11.1995
Member	Sports Committee, National Institute of Technology, Trichy	01.03.2007	01.04.2011
Faculty– In-Charge	Rotaract Club, National Institute of Technology, Trichy	01.06.2017	Till Date
Member/ Department Administrative Committee	Department of Architecture, National Institute of Technology, Trichy	01.03.2012	28.02.2014
Member/ Department Administrative Committee	Department of Civil Engineering, National Institute of Technology, Trichy	2012	2013
Coordinator - Dissertation Committee	Department of Architecture, National Institute of Technology, Trichy	02.06.2014	Till Date
Member -Purchase Committee	Department of Architecture, National Institute of Technology, Trichy	01.06.2009	28.12.2012
Member -Purchase Committee	Department of Civil Engineering, National Institute of Technology, Trichy	2009	2014
Chairman - PAC	Department of Architecture, National Institute of Technology, Trichy	2009	Till Date

10. Academic/Administrative Responsibilities outside the University:

Position	Institution	From	To
Member/BOS	School of Planning & Architecture, Anna University, Chennai.	2011	Till Date
Member/BOS	Dept of Architecture, Adhiyaman College of Engineering, Hosur.	2010	Till Date
Member/BOS	Dept of Architecture, Anna University, Coimbatore	2008	Till Date
Member/BOS	Dept of Architecture, VIT, Vellore	2014	Till Date
Member/Doctoral Committee	Periyar Meneyamai University, Vallam	2015	Till Date
Member/Doctoral Committee	Thiyagaraja College of engineering, Madurai	2013	Till Date
AICTE Expert Member for SAC, SHC, SCC & EVC	AICTE, Delhi	2010	Till Date
COA Expert Member	COA, Delhi	2014	Till Date

National Institute of Technology, Tiruchirappalli: Perfoma for CV of Dr. K. Thirumaran

11. Awards, Associateships etc.:

Year of Award	Name of the Award	Awarding Organization
2020	Best Performer	NITT

12. Fellowships: NIL

13. Details of Academic Work:

(i) Curriculum Development

- Established Building Construction Yard
- Revised syllabi for Building Construction and Materials I, II, III

(ii) Courses taught at Postgraduate and Undergraduate levels

- Building Construction and Materials II, III, IV, V (UG)
- Architectural Design VII, VIII (UG)
- Building Services I& II
- Dissertation (UG)
- Assessment of Built Environment (PG)
- Research Methods in Architecture (PG)

(iii) Projects guided at Postgraduate level

- Prototype Design to Improve Thermal Comfort Conditions in Social Housing in Warm & Humid Climate: A case example of Social Housing in Trivandrum.
- Evaluating the Thermal Comfort of Residential Building of Vernacular Setting compared to Contemporary Setting under conditions: Sri Rangam temple town, Tiruchirappalli.

(iv) Other contribution(s) **Consultancy projects done for the NIT, Trichy and Pondicherry.**

Sl. No.	Name of the Project	Cost in Lakhs
1.	Science Centre	2500.00
2.	Faculty Blocks	700.00
3.	Students Activity Centre	350.00
4.	Open Air Auditorium	350.00
5.	Students Shopping Centre	200.00
6.	Security Office	50.00
7.	Master Plan for NITT Campus	5.00
8.	New Building for Mechanical Department	2500.00
9	Auditorium Interior	500.00
Total Value of the project		7,155.00

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

14. Details of Major R&D Projects: NIL

Title of Project	Duration		Total Cost	Funding Agent
	From	To		
Guidelines on Climate Responsive Design Strategies for Residences in India to achieve Thermal Comfort at reduced Energy & Cost	2019	2021	6,51,000.00	TEQIP

15. Number of PhDs guided:

Name of the PhD Scholar	Title of PhD Thesis	Role	Year of Award
S. Subhashini	Optimization of Building envelope for natural ventilation and effective thermal performance of educational buildings in the warm humid climatic region of Madurai.	Supervisor	2018
G. Balaji	Evaluating the Impact of Madurai Urban Settings on River Vaigai using Perceptual And Physio Chemical Variations	Supervisor	2019
R. Babu	An Analytical Study of the Entrance Design Elements and its Impact on Image Inducing Capacity for Technical Institutes in Tamil Nadu, India	Supervisor	2020
R Seetha	Evaluating the Potential for Conservation of Chettinad Region Focusing on the Values & Elements in the Built Heritage	Supervisor	2020
R Renganathan	Assessing the Traditional Architecture and Planning of Kanchipuram Focusing Resident's Attitude Towards the Built Heritage Conservation	Supervisor	2020
K Kiruthiga	Empirical Study on the Effects of Urbanization on the Built Heritage of the Historical Temple Town of Kumbakonam, Tamil Nadu, India	Supervisor	2020

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

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

Date (s)	Title of Activity	Level of Event	Role	Event Organized by	Venue
17 th – 21 st June 2018	WMCAUS 2018 –World Multidisciplinary Civil Engineering- Architecture- Urban Planning Symposium	International Level	Session Chairperson	WMCAUS – World	Prague, Czech Republic
22 nd – 27 th October 2001	Towards Sustainable Habitats	National Level	Participant	Auroville Centre for Scientific Research Foundation for Sustainable Development	Auroville, Puducherry
20 th – 24 th January 2003	Designing for Rehabilitation & Disaster Prevention	National Level	Participant	Aayojan School of Architecture	Jaipur

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event	Date (s)	Role	Venue
Building Construction workshop on “Cost Effective Construction Techniques”	National Level	8 th – 10 th March 2007	Coordinator	Department of Architecture, NIT, Trichy
Staad Pro and Revit Workshop	National Level	23 rd – 27 th July 2018	Coordinator	Department of Architecture, NIT, Trichy

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

Software Skill Development	National Level	6 th – 10 th August 2018	Coordinator	Department of Architecture, NIT, Trichy
Smart Skill Design Techniques	National Level	3 rd – 07 th September 2018	Coordinator	Department of Architecture, NIT, Trichy
Cost Effective Construction Techniques	National Level	23 rd – 27 th November 2018	Coordinator	Department of Architecture, NIT, Trichy
National Conference on Recent trends in Architecture & Civil Engineering towards Energy Efficient and Sustainable Development NCACESD 2019	National Level	10 th – 12 th January 2019	Chairperson	Department of Architecture, NITT

18. Invited Talks delivered: NIL

19. Membership of Learned Societies

Type of Membership	Organization	Membership No. with date
Life Member	Council of Architecture (COA)	CA/91/14294
Life Member	Indian Institute of Architecture (IIA)	A11943
Life Member	Indian Society for Technical Education	LM 24359

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Prague, Czech Republic	17 th – 21 st June 2018	Session Chairman, WMCAUS 2018
Palermo, Italy	25 – 27 th October 2017	International Conference on UPADSD 2017
Cairo, Egypt	11 th – 13 th May 2017	International Conference on CITAA 2017

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Vol. (No.)	Page No.	Year
Dr. K. Thirumaran & S. Subhashini	Numerical Investigation of optimal wall materials for effective thermal performance in warm and hot climatic regions	Open House International	Article in Press		2021
Dr. K. Thirumaran & A. Purushothaman	Evaluating the climate-responsive design strategies of vernacular buildings at Konearirajapuram Village, Nagappattinam, India	International Journal Building Pathology and Adaptation	Article in Press		2020
Dr. K. Thirumaran K Kiruthiga & R. Renganathan	The Attitudes of Residents on the Conservation of Built-Heritage of a Historic Temple Town – Kanchipuram, India	Open House International	45(3)	283-296	2020
Dr. K. Thirumaran & R. Renganathan	Need for Architectural Restoration of Secular Built Heritage of Periya Kanchi, Kanchipuram	International Journal of Social Sustainability in Economics, Social and Cultural Context	16(1)	29 – 42	2020
Dr. K. Thirumaran & K. Kiruthiga	Holistic urban heritage management of an historic temple town: Kumbakonam, Tamilnadu, India	Journal of Cultural Heritage Management and Sustainable Development	10(2)	105 – 121	2019
Dr. K. Thirumaran & S. Subhashini	Cfd Simulations to Examine Natural Ventilation in the Learning Spaces of an Educational Building with Courtyards in Madurai	Building Services Engineering Research and Technology	41(4)	466-479	2019

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

Dr. K. Thirumaran & R. Seetha	Importance of Architecture and Planning of Kanchipuram and the Dynamics of Implementing Architectural Restoration	Creative Space	7 (1)	35-44	2019
Dr. K. Thirumaran & R. Renganathan	Analyzing the Values in the Built Heritage of Chettinadu Region, Tamil Nadu, India	Creative Space	7(1)	45-56	2019
Dr. K. Thirumaran & R. Babu	Visual Perception of Engineering Institutional Campuses' Entrance Edifices of Tamil Nadu Region, India	Creative Space	7(1)	1-10	2019
Dr. K. Thirumaran & G. Balaji	Evaluating the Land Use impact of Madurai Urban sprawl of River Vaigai using Physio chemical parameters	Environment and Urbanisation, Asia	10(1)	116-131	2019
Dr. K. Thirumaran & K. Kiruthiga	Effects of urbanization on historical heritage buildings in Kumbakonam, Tamilnadu, India	Frontiers of Architectural Research	8(1)	94-105	2019
Dr. K. Thirumaran & R. Babu	Perceived Institutional Campus Image and its Entrance Edifice	Open House International	43(3)	52-58	2018
Dr. K. Thirumaran & R. Seetha	Investigating the residents' attitude towards the preservation of palatial houses built heritage in Chettinad region, Tamil Nadu	Journal of Community Archaeology & Heritage	5(3)	250-265	2018
Dr. K. Thirumaran & S. Subhashini	A Passive Design Solution To Enhance Thermal Comfort In An Educational Building In The Warm Humid Climatic Zone Of Madurai	Journal of Building Engineering	18	395-407	2018

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

Dr. K. Thirumaran & G. Balaji	Investigating the impact of Girudhumal River in Madurai	Journal of Environmental Science and Engineering	59(1)	1-13	2017
Dr. K. Thirumaran & Mohammed, S.N.	Post Occupancy Evaluation of Institution Building at NIT Tiruchirappalli Campus	International Journal of Innovative Research in Science, Engineering and Technology	6	9010-9015	2017
Dr. K. Thirumaran & Jesna Mathew	Determination of Thermal Performance of Roof	International Journal of Research in Engineering and Technology	6	51-55	2017
Dr. K. Thirumaran & Reshmi	Analyzing Green Building Technologies in Indian Vernacular Architecture: A Case Study of Kerala	International Journal of Innovative Research in Science, Engineering and Technology	6	9001-9009	2017
Dr. K. Thirumaran & Deepti	Rejuvenating the Vernacular Architecture of South India as the representative of Sustainable Architecture: A Case Study of Hubli, Karnataka	International Journal of Scientific & Engineering Research	8	581-585	2017
Dr. K. Thirumaran & Raja Singh	Post-Occupancy Evaluation of Campus Hospital, NIT, Trichy	World Journal of Engineering Research and Technology	3	409-423	2017
Dr. K. Thirumaran & K. Kiruthiga	Visual perception on the architectural elements of the built heritage of a historic temple town: A case study of Kumbakonam, India	Frontiers of Architectural Research	6(1)	96-107	2017
Dr. K. Thirumaran & S. Subhashini	An Overview of Passive Downdraft Evaporative Cooling as an Alternative to Mechanical Cooling Systems In Moderate and Composite Climatic Zones of India	Ecology, Environment and Conservation	22	359-369	2016

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

Dr. K. Thirumaran & S. Subhashini	A Comparative Analysis of Land Surface Retrieval Methods Using Landsat 7 and 8 Data to Study Urban Heat Island Effect in Madurai	International Journal of Earth Sciences and Engineering	9	885-887	2016
Dr. K. Thirumaran S. Subhashini & S. Madumathi	Effects of Changing Urban Environment of Madurai-Challenges and Opportunities for Future Environmental Sustainability	Climate Change and Environmental Sustainability	3	114-124	2015
Dr. K. Thirumaran & R. Renganathan	Socio-Economic Assessment and Planning in Corridor Conservation Initiative	International Journal of Engineering Research & Technology	3	1142-1146	2014
Dr. K. Thirumaran & R. Renganathan	Land Use changes and its implications on elephant corridor a Nilgiris	International Research Journal of Sustainable Science & Engineering	2	1-9	2014
Dr. K. Thirumaran & R. Seetha	Significance of the Built Heritage of Srirangam- An Overview	International Journal of Multidisciplinary Educational Research	3		2014
Dr. K. Thirumaran & S. Subhashini	Energy Efficient Passive Design Strategies for Buildings in Madurai	American Journal of Sustainable Cities and Society	1	184-201	2014
Dr. K. Thirumaran & R. Babu	An Experiential Study on the Ability of Institutes Entrance Design Elements and Physical Features in Inducing Perceived Image among the Observers: With Reference to Entrance Edifice of Technical Institutes in Tiruchirappalli and Thanjavur Region	International Journal of Scientific & Technology Research	3	191-200	2014
Dr. K. Thirumaran & Dr. A. Meenatchi Sundaram	Assessing the Physical Feature Attributes of French Architectural Style in the Contemporary Built Environment at Puducherry: A Lens Model Approach	IUP Journal of Architecture		7-32	2011

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Paper	Title of the Proceedings	Conference Theme	Venue	Year
Dr. K. Thirumaran & K. Kiruthiga	Conservation Strategies to Revive the Imageability of the Kumbakonam-Historic Town	International Conference on CITAA	Cities and Architecture	Cairo, Egypt	2017
Dr. K. Thirumaran & K. Kiruthiga	Key Components for Delineating an Efficient Urban Development in Historic Towns: Stakeholders' Perception	International Conference on UPADSD	Urban design and Sustainable Development	Palermo, Italy	2017
Dr. K. Thirumaran & S. Subhashini	Computational Investigation of Natural Ventilation in an Educational Building in Madurai, Tamilnadu	International Conference on PLEA	Energy and Architecture	Edinburgh, UK	2017
Dr. K. Thirumaran & R. Babu	Four Factor Model on Image Auditing of the Entrance Design Structure Edifice of Higher Technical Institutes in Tamilnadu (India)	International Conference on WMCAUS	Architecture and Urban Planning	Prague, Czech Republic	2018
Dr. K. Thirumaran & Niranjana P	Exploring energy efficiency in a guest house complex by implementing ECBC building envelope measures in warm-humid climate of Tiruchirappalli	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019
Dr. K. Thirumaran & S Subhashini	An investigation on the thermal behaviour of building envelopes using Infrared thermography	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

Dr. K. Thirumaran A Purushothaman & A Sivaraman	Analyzing the Deciphering Planning Strategies used in Ancient Dravidian Temple Architecture	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019
Dr. K. Thirumaran & A Purushothaman	An Assessment Review of Building Professionals towards the Sustainable housing Developments in Nagapattinam Region	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019
Dr. K. Thirumaran & R Seetha	Analyzing the Bequest Values associated with the Building Materials and Construction Techniques in the Built Heritage of Chettinadu region	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019
Dr. K. Thirumaran G Balaji & Naveen Arasu	Identifying the impact of Impervious Surface Cover of Sellur Neighbourhood region on the Pandhalkudi channel & River Vaigai within the urban settings Madurai city	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019
Dr. K. Thirumaran & R Renganathan	Towards a higher quality of built environment in the perspective of change in the urban context	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

Dr. K. Thirumaran & R Babu	Gender differences in preference to perceive the entrance edifice of Higher Technical Institutes in Tamilnadu	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019
Dr. K. Thirumaran & K Marliya	Assessment of Thermal comfort on comparison of Vernacular and Contemporary residence under natural condition: Srirangam, Tamil Nadu	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019
Dr. K. Thirumaran & T Niveditha	Fostering Sustainable Development through Bioregionalism - A study for Cities of Today and Tomorrow	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019
Dr. K. Thirumaran & S Harshini	Envelope design optimization of an educational building and its impact on energy performance in a warm humid climate	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019
Dr. K. Thirumaran & K. Kiruthiga	Stakeholders' perception on Adaptive reuse of Heritage Buildings and its Challenges towards the Sustainable approach	National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development	Energy Efficient and Sustainable Development	Department of Architecture, NITT	2019

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran**

Dr. K. Thirumaran & R. Reshmi	Analysing Thermal Comfort Conditions on Social Housing in a Warm and Humid Climate of Trivandrum, Kerala A Simulation-Based Approach	International Conference on Advances in Renewable Energy and Green Technology ICARE-2019	Renewable Energy and Green Technology	VIT, Vellore	2019
Dr. K. Thirumaran & K. Marliya	An Analysis on the Influence of the Thermal Performance of Walls Over Building Energy Consumption in a Warm Humid Climate	International Conference on Advances in Renewable Energy and Green Technology ICARE-2019	Renewable Energy and Green Technology	VIT, Vellore	2019
Dr. K. Thirumaran & A. Purushothaman	Performance Evaluation of Traditional Vernacular houses with and without wind catchers in Nagapattinam region	International Conference on Advances in Renewable Energy and Green Technology ICARE-2019	Renewable Energy and Green Technology	VIT, Vellore	2019
Dr. K. Thirumaran & S. Harshini	Modification of Envelope Design Parameters for Classrooms in a Warm Humid Climate	International Conference on Advances in Renewable Energy and Green Technology ICARE-2019	Renewable Energy and Green Technology	VIT, Vellore	2019
Dr. K. Thirumaran & P. Niranjana	Critical analysis of a hotel building by adapting ECBC building envelope norms in warm humid climate of Trichy, Tamilnadu	International Conference on Advances in Renewable Energy and Green Technology ICARE-2019	Renewable Energy and Green Technology	VIT, Vellore	2019
Dr. K. Thirumaran & A. Purushothaman	A quality study over the influences of Traditional Architectural elements on the context of Built-Heritage: Nagapattinam, India	International Conference on Visionary action towards Liveable Urban Environment	Urban Environment	VIT, Vellore	2020

National Institute of Technology, Tiruchirappalli:
Performa for CV of Dr. K. Thirumaran

Dr. K. Thirumaran & R. Seetha	Identifying the character defining elements in the traditional houses of Chettinadu region	The 4 th International Conference on Cities' Identity Through Architecture and Arts (CITAA),	Identifying and Shaping Cities and formation	Egypt	2020
-------------------------------	--	---	--	-------	------

(C) Books Chapter(s)

Author(s)	Title of Book & Chapter	Name of Publishers	Year of Publication	ISSN/ISBN Number
Dr. K. Thirumaran & K Kiruthiga	Urban and Transit Planning, Key Components for Delineating an Efficient Urban Development in Historic Towns: Stakeholders' Perception	Springer	2020	ISBN 978-3-030-17308-1

(D) Books & Monographs

Author(s)	Title of Book	Name of Publishers	Year of Publication	ISSN/ISBN Number
Dr. K. Thirumaran	Impediments of French Architecture Facades in Contemporary Settings	LAP LAMBERT Academic publishing	2011	ISBN-10: 3845419261 ISBN-13: 978-3845419268
Dr. K. Thirumaran & Dr. L. Saikala	Proceedings of National Conference on Recent Trends in Architecture & Civil Engineering towards Sustainable Development 2020	NCACESD	2020	ISBN 978-93-5346-040-2