

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



Curriculum Vitae

Brief Profile: **Dr.D. Kannamma**

D.Kannamma was born in the year 1980 in Cuddalore New Town, Cuddalore District, Tamil Nadu.

She studied Bachelor of Architecture (B.Arch.) at Thiagarajar College of Engineering, Madurai and received her B.Arch. degree from Madurai Kamaraj University, Madurai in the year 2003. She obtained her Master of Architecture (Landscape Architecture) from School of Architecture and Planning (SAP), Anna University, Chennai in the year 2005 and received Anna University Gold Medal for securing First Rank in the Master of Architecture (Landscape Architecture) examinations.

She has completed Ph.D. from the Department of Architecture, National Institute of Technology, Tiruchirappalli in the year 2017.

She joined as a Lecturer in Department of Architecture, Thiagarajar College of Engineering, Madurai in 2005. She has been teaching at the Department of Architecture, National Institute of Technology, Tiruchirappalli since 2006. Her areas of interests include Urban Environment, Microclimate Study, Outdoor Thermal Comfort, Cultural Landscape, Landscape Conservation, Urban Landscape Architecture, Environmental Planning, and History of Architecture.

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6. Field(s) of Specialization:

1. Urban Microclimate
2. Outdoor Thermal Comfort
3. Cultural Landscape
4. Landscape Conservation
5. Urban Landscape Architecture
6. Environmental Planning
7. History of Architecture
8. Solar Passive Architecture
9. Energy Efficiency
10. Landscape Design
11. Remote sensing & GIS
12. Sustainable Architecture

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	Department of Architecture, National Institute of Technology, Tiruchirappalli	2007 April	Till Date
Research Associate	Department of Architecture, National Institute of Technology, Tiruchirappalli	2006	2007
Lecturer	Department of Architecture, Thiagarajar College of Engineering, Madurai	2005	2006

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

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	National Institute of Technology, Tiruchirappalli	2017		Architecture
Master of Architecture (M. Arch) - Landscape	School of Architecture	2005	First Class with	Landscape Architecture

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Architecture	and Planning (SAP), Anna University, Chennai		Distinction (Gold Medalist)	
Bachelor of Architecture (B. Arch)	Department of Architecture, Thiagarajar College of Engineering, Madurai	2003	First Class	Architecture

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Stock Verification Officer	Civil Engineering Department, National Institute of Technology, Tiruchirappalli	2022	
Library Advisory Committee Member	National Institute of Technology, Tiruchirappalli	2018	2020
Stock Verification Officer	Transport Department, National Institute of Technology, Tiruchirappalli	2016	
Stock Verification Officer	Computer Applications Department, National Institute of Technology, Tiruchirappalli	2015	
Library In charge	Department of Architecture, National Institute of Technology, Tiruchirappalli	2014	Till Date
Stock Verification Officer	Transport Department, National Institute of Technology, Tiruchirappalli	2011	
Stock Verification Officer	Transport Department, National Institute of Technology, Tiruchirappalli	2010	

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10. Academic/Administrative Responsibilities outside the University

Position	Institution	Year
DC Panel	Thiagarajar College of Engineering, Madurai	2022
Thesis Review Panel (B. Arch)	Care College of Architecture	2022
Dissertation Review Panel (B. Arch)	Thiagarajar College of Engineering, Madurai	2022
University Practical Examiner (M. Arch)	School of Architecture and Interior Design SRM Institute of Science and Technology, Chennai	2022
Conference Chair	International Conference ICONBEST 2021 organised by School of Architecture and Interior Design, SRM Institute of Science and Technology, Chennai	2021
Dissertation Review Examiner (M. Arch)	School of Architecture and Interior Design SRM Institute of Science and Technology, Chennai	2021
DC Panel	Thiagarajar College of Engineering, Madurai	2019
Review Examiner	Review Examiner Periyar Maniammai University, Vallam	2016
Review Examiner	Review Examiner Periyar Maniammai University, Vallam	2013

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2005	Gold Medal – M. Arch (Landscape Architecture)	School of Architecture and Planning (SAP), Anna University, Chennai
2020	Faculty Achievement Award (Department Wise) (2019 – 2020)	National Institute of Technology, Tiruchirappalli
2022	Faculty Achievement Award (Department Wise) (2021 – 2022)	National Institute of Technology, Tiruchirappalli

13. Details of Academic Work

(i) Curriculum Development

- Has Participated in the Board of Studies (BOS) in the Department of Architecture, National Institute of Technology.
- PAC Chairperson – to coordinate between the subject faculty and students. Also, provide suggestions on Examination results.

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(ii) Courses taught

(iii)

S.No.	PG/UG	Course Code	Course Name
1	PG	AR 705	Solar Passive Architecture
2	PG	AR 708	Energy Efficient Landscape Design
3	PG	AR 702	Building Energy Audit and Management
1.	UG	AR 105	Principles of Architecture I
2.	UG	AR 113	Environmental Science
3.	UG	AR 109	Basic and Architectural Design I
4.	UG	AR 106	Hindu and Buddhist Architecture
5.	UG	AR 108	Principles of Architecture II
6.	UG	AR 112	Basic and Architectural Design II
7.	UG	AR 209	Surveying and Site Planning
8.	UG	AR 206	Indo Islamic Architecture
9.	UG	AR 208	Model Making
10.	UG	AR 211	Architectural Design
11.	UG	AR 206	Contemporary Architecture
12.	UG	AR 210	Building Construction and Materials
13.	UG	AR 212	Architectural Design
14.	UG	AR 311	Architectural Design
15.	UG	AR 310	Architectural Design
16.	UG	AR 412	Architectural Design
17.	UG	AR 501	Building Bye Laws and Codes of Practice
18.	UG	AR 502	Professional Practice

(iv) Projects guided at the Postgraduate level (PG)

1.	Simulating the Impact of Setback regulations on cooling load and daylight access in Residential buildings in a Warm Humid climate
2.	Assessing Energy Culture in High Rise and Low-Rise residences in Hot and Humid Climate
3.	Analysing the Impact of Windows in Daylighting, Indoor Air Temperature and Energy Consumption of a Classroom in Warm and Humid Climate of Indian Subcontinent.
4.	Assessment of passive light in high-rise apartment building according to floor levels with respect to warm humid climate zone, Chennai - A simulation-based approach.
5.	Investigating the impact of building form on indoor temperature
6.	Analysing the thermal performance of different earth construction techniques: Comparison of vertical plane settings
7.	Effect of Courtyard on Comfort - Study of thermal performance characteristics of the courtyard in a hot and humid climate.
8.	Impact of architectural components on thermal comfort of Chettinadu Houses

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9.	Investigation On Thermal Performance of Roofing Systems of Residential Buildings in Warm Humid Climate
10.	An Analysis of Thermal Environment in Architectural School Classrooms of Warm and humid climate in Tiruchirappalli, India

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

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
2021	International Conference ICONBEST 2021	International	Session Chair	School of Architecture and Interior Design, SRM Institute of Science and Technology, Chennai	Chennai
11 th – 15 th May 2020	QIP on E-Content Development	National	Participant	NITTTR, Chennai	Online
2019	1 st National Conference on Recent Trends in Architecture & Civil Engineering towards Energy Efficient and Sustainable Development Conference on Recent Trends in Architecture & Civil Engineering Towards Energy Efficient and	National	Session Chair	Department of Architecture, NIT	Tiruchirappalli

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	Sustainable Development				
9 th – 13 th December 2019	Workshop on Capacity Building of Women Faculty in Higher Education	National	Participant	NIT	Tiruchirappalli
2016	International Conference ACE, GSTF, Singapore	International	Paper Presenter	GSTF, Singapore	Singapore
2015	International Conference on Sustainable Technologies in Building and Environment	International	Paper Presenter	Sathyabama University	Chennai
29 th January, 2015	TCS – iON Learning	National	Participant	Department of Computer Science Engineering and Science Engineering and Applications, NIT	Tiruchirappalli
June 2 nd – 6 th 2014	ISTE – SRM Short Term Training Programme on, "Energy Simulations in Buildings"	National	Participant	Thiagarajar College of Engineering	Madurai
2014	International Conference on Passive and Low Energy Architecture	International	Paper Presenter	CEPT University	Ahmedabad
May 9-10, 2013	Perspectives on Curriculum"	National	Participant	NIT	Tiruchirappalli

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April 20,2012	,"Energy Day" - 2012	National	Participant	Centre for Energy and Environmental Science and Technology "CEESAT", NIT	Tiruchirappalli
2010	International Conference on Materials, Mechanics and Management	International	Paper Presenter	College of Engineering	Trivandrum
7th to 11th September 2009	QIP - "Responsive Urban Environment	National	Participant	School of architecture and planning - JNA & FAU	Hyderabad
2009	International Conference on Combating challenges of Climate Change	International	Paper Presenter	Scientists & Engineering Wing, Rajayoga Education & Research Foundation	New Delhi
2009	Landscape Great Idea X-L Arch III	International	Paper Presenter	University of Natural Resources and Applied Life Sciences	Vienna, Austria
25th to 30th August 2008	QIP - "Sustainable Urban Landscape"	National	Participant	School of architecture and planning - Anna University	Chennai
09.07.2008	Training Program by Autodesk on "Autodesk Revit 2009"	National	Participant	Department of Architecture, NIT	Tiruchirappalli

18. Invited Talks delivered

Topic	Date	Inviting Organization
FDP on "Application of Building Science and Services in Built Environment"	21.06.2022	Thiagarajar College of Engineering, Madurai

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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life member	Council of Architecture (COA)	CA/2004/33951 (31.12.2025)
Associate Member	Indian Institute of Architects (IIA)	16455 (09.12.2008)
Fellow	Indian Society of Landscape Architects (ISOLA)	D – 12/A 2007 (07.09.2018)

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Austria – Vienna	4 Days	Paper Presentation– International Conference Landscape Great Idea X-L Arch III, University of Natural Resources and Applied Life Sciences, Vienna
Singapore	3 days	Paper Presentation– 4th Annual International Conference ACE 2016, GSTF, Singapore

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal with DOI	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
A.Shanmuggerani and D.Kannamma	Can building orientation perturb micro-climatic conditions inside classrooms located in hot – humid climatic condition?	Energy and Built Environment May 2021	In press	Online	2021	
D.Kannamma, and Dr A.Meenatchi	Implications of Building Material choice	Key Engineering	650	82-90	2015	38 H Scopus

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Sundaram	on Outdoor Microclimate for Sustainable Built Environment	Materials July 2015				
D.Kannamma, and Dr A.Meenatchi Sundaram	Empirical study on the interaction between vegetation and street geometry elements towards ambient urban microclimate	Indian Concrete Journal July 2015	Special Issue	22-27	2015	14 H Scopus
D.Kannamma, and Dr A.Meenatchi Sundaram	Significance of Microclimatic study in Urban Canyons towards ambient Urban Space Design	Journal of Today's ideas and Tomorrow's Technologies June 2015	Vol.3, No.1	95-109	2015	Refereed Journal

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
N.Haripavan, Nisha Radhakrishnan and D.Kannamma	A study on Urban Heat Island using Geospatial Techniques	Recent Advances in Civil Engineering	221-229	2 nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021)	Bhimavaram, Andra Pradesh	2021
Shanmuggarani.A and D. Kannamma	Assessing the Impact of Courtyard on the Adjacent Spaces of Corridor in Warm Humid Climate of	International Conference on Built Environment Science and Technology	81	Built Environment Science and Technology	Chennai	2021

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	Trichy					
Niveditha Sudarsanam and D. Kannamma	Evaluation of Retrofitting strategies to optimize thermal performance of naturally ventilated classrooms: A simulation-based approach	Design for Tomorrow – Volume 2 (Scopus Indexed)	917 - 927	8th International Conference on Research into Design - Design for Tomorrow ((ICoRD 2021)	IIT MUMBAI	2021
Shanmuggarani.A and D. Kannamma	Assessing The Significance of Indoor Landscape in Built Environment of Warm Humid Climate, Chennai	1 st National Conference on Recent Trends in Architecture & Civil Engineering towards Energy Efficient and Sustainable Development	354-358	1 st National Conference on Recent Trends in Architecture & Civil Engineering towards Energy Efficient and Sustainable Development	Department of Architecture, NIT, Tiruchirappalli	2019
R. Madhavan and D. Kannamma	Effect of urban morphology on urban microclimate: A case of Vijayawada	5th International Conference on Countermeasures to Urban Heat Islands (IC2UHI)	49	5th International Conference on Countermeasures to Urban Heat Islands (IC2UHI)	IITH Hyderabad	2019
Saurabh Mundra and D. Kannamma	Effect of Courtyard on Comfort - Study of thermal performance characteristics of courtyards in hot and humid climate	Revisiting the Role of Architecture for Surviving Development (Scopus Indexed)	11 - 20	53rd International Conference of the Architectural Science Association (ANZAScA)	IIT ROORKEE	2019
Shanmuggarani.A and D. Kannamma	Assessing the impact of the courtyard in the built environment of warm humid climate of Trichy	Revisiting the Role of Architecture for Surviving Development (Scopus Indexed)	507-516	53rd International Conference of the Architectural Science Association (ANZAScA)	IIT ROORKEE	2019
Niveditha Sudarsanam and	An Analysis of Thermal	Revisiting the Role of	577-586	53rd International	IIT ROORKEE	2019

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D. Kannamma	Environment in Architectural School Classrooms of Warm and Humid Climate in Tiruchirappalli, India	Architecture for Surviving Development (Scopus Indexed)		Conference of the Architectural Science Association (ANZAScA)		
D.Kannamma and Dr.A.Meenatchi Sundaram	Numerical Modelling of Canyon Aspect Ratio towards Urban Outdoor Microclimatic Stress	4th Annual International Conference, ACE, GSTF, Singapore	242-247	4th Annual International Conference, ACE, GSTF, Singapore	Singapore	2016
D.Kannamma and Dr.A.Meenatchi Sundaram	Empirical study on the interaction between vegetation and street geometry elements towards Ambient Urban Microclimate	Sustainable Technologies in Building & Environment (ICSTBE-2015)		Sustainable Technologies in Building & Environment (ICSTBE-2015)	Satyabhama University, Chennai	2015
D.Kannamma and Dr.A.Meenatchi Sundaram	Design best practice methods to minimize the impact of building materials on urban microclimate	30th International Passive and Low Energy Architecture (PLEA) Conference (Scopus Indexed)	267	30th International Passive and Low Energy Architecture (PLEA) Conference	CEPT University, Ahmedabad	2014
D.Kannamma	Opitimising Heat Gain by Building Materials through Landscape Elements	International Conference on Materials, Mechanics and Management (IMMM)	604-615	International Conference on Materials, Mechanics and Management (IMMM)	College of Engineering, Trivandrum	2010
D.Kannamma	Impact of Urbanization over the Cultural Landscape of	Landscape Great Idea X-L Arch III	169	Landscape Great Idea X-L Arch III	Vienna, Austria	2009

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	Srirangam					
D.Kannamma	Need to manage Urban Heat Island Effect for Environmental Amelioration	Scientists & Engineering Wing, Rajayoga Education & Research Foundation		Scientists & Engineering Wing, Rajayoga Education & Research Foundation	New Delhi	2009

(C) Book Chapters

Author(s)	Title of Book	Name of Publishers	Year of Publication	ISSN/ISBN Number
Niveditha Sudarsanam and D. Kannamma	Design for Tomorrow – Volume 2 (Scopus Indexed)	Springer	2021	ISBN:978-9811601187
N.Haripavan, Nisha Radhakrishnan and D.Kannamma	Recent Advances in Civil Engineering (Scopus Indexed)	Springer	2021	ISBN:978-981-19-0189-8