

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty Member Dr.Makendran C

Curriculum Vitae

Dr. MAKENDRAN C is an Assistant Professor (Grade-II) in the Department of Civil Engineering, National Institute of Technology (NIT) Tiruchirappalli, Tamil Nadu, India. He served as Assistant Professor, Road and Transportation Engineering, Department of Civil Engineering, College of Engineering Technology, Wollega University, Nekemte, Ethiopia, East Africa.



He received his Ph.D. in Civil Engineering from Anna University, Chennai, India in 2018. His doctoral research focused on Performance modeling of low volume village roads in India. After graduating in Civil Engineering from Faculty of Engineering and Technology, Annamalai University, Chidambaram. He had obtained a master's degree in Urban Engineering from College of Engineering Guindy (CEG), Anna University, Chennai, Tamil Nadu, India.

His research interest includes Rural Development, road safety and audits, road construction materials, pavement management system (PMS), pavement distress prediction & evaluation and statistical modeling.

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| 1. Name: | Dr. MAKENDRAN C |
| 2. Designation: | Assistant Professor (Grade-II) |
| 3. Office Address: | No: 105, Annex Building,
Department of Civil Engineering,
National Institute of Technology,
Tiruchirappalli – 620 015. |
| 4. Telephone (Direct) (Optional): | +91 9080126710 |
| Telephone : | Extn (Optional): |
| Mobile (Optional): | |
| 5. Email (Primary): makendran@nitt.edu | Email (Secondary) : dr.makendranc@gmail.com |
| 6. Field(s) of Specialization: | Transportation Engineering
Urban Engineering, Rural Road, Pavement
Performance Evaluation |

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty Member Dr.Makendran C

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor (Grade-II)	National Institute of Technology, Tiruchirappalli	14/10/2022	Till date
Assistant Professor	Wollega University, Nekemte, Ethiopia, East Africa	19/01/2020	30/09/2022
Assistant Professor	Aalim Muhammed Salegh College of Engg.	21/07/2009	08/01/2020

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

Examination	Board / University	Year	Division/ Grade	Subjects
Doctor of Philosophy (Ph.D.)	College of Engineering, Guindy (CEG), Anna University	2018	--	Civil Engineering
Master of Engineering (M.E.)	College of Engineering Guindy (CEG), Anna University	2009	First Class	Urban Engineering
Bachelor of Engineering (B.E.)	Annamalai University	2006	First Class	Civil Engineering
HSc	TN-State Board	2002	First Class	Mathematics and Computer science
SSLC	TN-State Board	2000	First Class	Mathematics, Science

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
	Nil		

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
DC Member	Sathyabama Institute of Science & Technology, Chennai	29/11/ 2018	Present
Head of the Department	Aalim Muhammed Salegh College of Engineering	10/02/2012	11/07/2016
Nodal officer (For Scholarship for Jammu & Kashmir Students)	Aalim Muhammed Salegh College of Engineering	04/01/2018	08/01/2020
Dept. ISO Coordinator	Aalim Muhammed Salegh College of Engineering	17/11/2016	08/01/2020

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty Member Dr.Makendran C

Coordinator for Conference	Aalim Muhammed Salegh College of Engineering	03/03/2017	04/03/2017
Academic Council Committee Member	Aalim Muhammed Salegh College of Engineering	03/07/2013	08/01/2020

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2014	Distinction of Teaching for 100% results	Aalim Muhammed Salegh College of Engg.

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2009	UGC Research Fellowship in Sciences to Meritorious students	University Grants Commission (UGC)	August /2009	August /2010

13. Details of Academic Work

(i) Curriculum Development

Name of the Course	University	Year
M.Sc., Road and Transportation Engineering	Wollega University, Nekemte, Ethiopia	October, 2020

(ii) Courses taught at Postgraduate levels

1. Traffic Engineering and Management
2. Advanced Pavement Materials
3. Pavement management system
4. Road Safety Engineering
5. Pavement Analysis and Design
6. Advanced Geometric Design of Highways & Air Fields

(iii) Courses taught at Undergraduate levels

1. Highway Engineering
2. Railways, Airport and Harbour Engineering
3. Construction Materials
4. Construction Techniques, Equipment and Practices
5. Surveying-I
6. Surveying-II
7. Pavement Engineering
8. Prefabricated Structures
9. Transport Engineering

(iv) Projects guided at Postgraduate level

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty Member Dr.Makendran C

(v) Other contribution(s)

1. Construction of Spring Water Station for a Rural Community around Nekemte Town. Ethiopia, East Africa, In the year 2021.
2. Planning Design and Renovating Poor Households' Homes in Nekemte City, Ethiopia, East Africa, In the year 2021.

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Laboratory Investigation of Self-curing concrete using Water-soluble polymer in Ethiopia	Wollega University, Ethiopia	2020	2022	Completed

15. Number of Ph.Ds guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
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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
9/03/2013	Short term course	National	Participant	Research Methodology, Techniques of Writing Research Articles and Ph.D. Thesis presentation	Anna University , Chennai
07/06/2004 To 19/06/2004	Training	National	Participant	Chennai Port Trust	Chennai
13/06/2005 To 27/06/2005	Training	National	Participant	Airport Authority of India, Trichy	Trichy
22/12/2008 To 19/01/2009	Business skill development Programme	National	Participant	MSME Development Institute, Chennai	Chennai

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty Member Dr.Makendran C

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Research paper writing using on Journaling tools	National	01/11/2018 To 05/11/ 2018	Convener	Aalim Muhammed Salegh College of Engineering, IAF, Chennai.
Faculty Development Programme on Engineering Mechanics	National	03/12/2018 To 07/12/ 2018	Convener	Aalim Muhammed Salegh College of Engineering, IAF, Chennai.
Reference management and Knoweldge development	National	10/12/2018 To 14/12/ 2018	Convener	Aalim Muhammed Salegh College of Engineering, IAF, Chennai.

18. Invited Talks delivered

Topic	Date	Inviting Organization
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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	Indian Geotechnical Society	LM-970

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Ethiopia	2 years and 8 month	Served as an Assistant Professor

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
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National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty Member Dr.Makendran C

Makendran C, K Suthandhiram, S Garoma B Merea B Sethuraman	Laboratory Study on the Water- Soluble Polymer as a Self-Curing Compound for Cement Concrete Roads in Ethiopia	Technologies MDPI	10(4), 80	1-14	2022	
Gujar A.G Basanta Kumar P Palai Sumanta B Aravinthd S. Gnana kumar G Ram S Makendran C	Investigating mechanical strength of a natural fibre polymer composite using SiO ₂ nano- filler	Materials Today: Proceedings	56 part (3)	1522 to 1526	2022	
M.D.Mohan Raghuram K.S. J.N.S.Raju D.Ravi M.Venkata Rao RamSubbiah Makendran C	Study on influence of nano-filler content on the performance of natural fibre reinforced epoxy composites	Materials Today: Proceedings	56 part (3)	1562 to 1566	2022	
Makendran C, Murugasan R, Velmurugan S and Ravi Sekhar. Ch.	Comparative evaluation of distress prediction modelling of village roads in India using regression and ANN techniques.	Journal of Transportation Engineering, Part B: Pavements. American Society of Civil Engineering (ASCE)	147	04021034 1-9	2021	
Makendran C, Vignesh Kumar M, Mahalingam, B. Packialakshmi,S T.Palani	Roughness Prediction Models Based on Variable Distress Parameters using Neural Network and MLRA for PMGSY roads	International Journal of Advanced Science and Technology	29	2208 to 2218	2020	
Makendran C, Murugasan R,	Development of a roughness estimation model for low volume roads	Gradevinar	70 (2),	97-104	2018	

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty Member Dr.Makendran C

Makendran C, Murugasan R, Velmurugan S	Performance Prediction Modelling for Flexible Pavement on Low Volume Roads Using Multiple Linear Regression Analysis	Journals of Applied Mathematics	7	1-7	2015
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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Udayabanu T, Rajamane N,P, Makendran C , R.Gobinath S Chandra Chary	Self-Curing Concrete Using Water-Soluble Polymer for Developing Countries	IOP Conf. Series: Materials Science and Engineering	1-11	Materials Science and Engineering	Hyderabad	2020
Makendran C Murugasan R	Spearman's Rho Correlation Analysis of Performance of Cracking and Variable parameters for rural roads in India	International Intellectual Convergence On Advanced Science And Engineering	1-7	Advanced Science And Engineering	Chennai	2017

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
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