

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

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

1. Name: **Dr. Deendayal**
2. Designation: **Assistant Professor**
3. Office Address: **101, Annexure Building,
Department of Civil
Engineering, NIT - Trichy.**
4. Telephone (Direct): +91- 431 250-3170
Mobile (Optional): **959-777-1912**
5. Email (Primary): deendayal@nitt.edu Email (Secondary) :
deendayalrathod123@gmail.com
6. Field(s) of Specialization: **Geotechnical Engineering**

7. Employment Profile

Job Title	Employer	From	To
IISc, Bangalore	Project Asst.	20/01/2006	31/08/2006
National Institute of Technology, Tiruchirappalli.	Lecturer/Asst.Professor	04/09/2006	Till date

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

Examination	Board / University	Year	Subjects
Ph.D.	IISc (Bangalore)	2011-2016	Geotechnical Engineering (Pile Foundations)
M.E.	IISc (Bangalore)	2001-2003	Geotechnical Engineering
B.Tech.	JNTU College of Engineering (Hyderabad)	1997-2001	Civil Engineering

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Associate Warden	Garnet-B hostel	2006	2007
Stock verification officer	NIT-T	2011	2022
Anti-Ragging Squad officer	NIT-T	2016	2019

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2017	Achiever Award by the NIT Director on Institute Day-2016-17.	NIT - Trichy
2011	Best Paper Award in 3 rd Indian Young Geotechnical Engineer Conference (3IYGEC), March 25th-26th, New Delhi, India	IGC-Delhi

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Courses taught at Undergraduate levels

- 1) Basics of Civil Engineering
- 2) Building Materials
- 3) Geotechnical Engineering (I & II)
- 4) Concrete Technology
- 5) Engineering Mechanics
- 6) Building Planning and Drawing
- 7) Strength of Materials Lab
- 8) Computer Aided Design (Lab)

(ii) Other Contributions

Departmental level:

1. Class Committee Chairman for M.Tech. Environmental Engineering / Structural Engineering / Transportation Engineering
2. Doctoral Committee Member for PhD students

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3. Project Coordinator (B.Tech. Final Year)
4. Subject Coordinator (First Year-Basics of Civil Engineering)
5. Faculty Advisor to Civil Engineering Association (Students' activities)
6. Faculty in-charge of Department & Institute Library
7. Faculty in charge of first-year orientation programs
8. Coordinator (Industrial visits & Students tour)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Development of 1-g laboratory model to study the behaviour of laterally loaded single and group of piles located in sloping ground	SERB-DST	2017	2020	Completed
Optimization of sustainable polymeric materials in a composite ground modification system to support buildings and road embankments at Warangal, Telangana state.	TARE-SERB-DST	2019	2022	Ongoing
Experimental investigation on conventional and innovative piles for offshore wind turbines (OWT) foundation system subjected to long-term cyclic loading.	SERB-DST	2022	2025	Ongoing

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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
D.Nigitha	Behavior of Monopile under cyclic lateral loading	Supervisor	2021
Manikandaprabhu Alias Saravanan S	Experimental Investigation on The Performance of Hybrid Fibre Reinforced Concrete Pile Foundations Under Lateral Loading	Supervisor	2022
Krishnanunni K T	Development of 1-g laboratory model to study the behavior of laterally loaded single and group of piles located in sloping ground	Supervisor	Ongoing
Devahi P	Building material synthesization using municipal solid waste incineration ash	Supervisor	Ongoing
Mhd. Shakeel Abid	Investigations on Modern Ground Modification Techniques using stone columns	Supervisor	Ongoing
Garuku Sudheer Kumar	Investigations on Modern Ground Modification Techniques (Broad area)	Supervisor	Ongoing
Kiran Prakash K	Role of geogrid reinforcement and its diverse applications in Geotechnical and allied fields	Supervisor	Ongoing

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)	Event Organized by	Venue
3rd & 4th, October 2013)	Reliability Analysis and Design of Sub-Structures	Local	Participant	TEQIP-II	NIT - Trichy

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10 th – 12 th March 2016	Subsurface investigations for pavements and buildings	National	Participant	TEQIP-II & IGS- Trichy	NIT - Trichy
March 22 nd and 23 rd 2017	Master Your Moodle	Local	Participant	Computer Support Group	NIT - Trichy
23 rd October 2007	Geotechnical investigation and decision making in foundations	Local	Participant	TEQIP-I	NIT - Trichy
29 -30 April 2013	Role of Geotechnical Engineering on Infrastructure Development	Local	Participant	TEQIP-I	NIT - Trichy
1 st October 2016	Engineering on Soft Ground	National	Participant	IGS- Trichy	NIT - Trichy

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
6th Indian Young Geotechnical Engineers Conference	National	10-11 March 2017	As a chairman for one theme	NIT- Trichy

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18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life membership	Indian Geotechnical Society	LM 3177
2016-2018	International Society for Soil Mechanics and Geotechnical Engineering	IND 12LM-3177
Life membership	The Institute of Engineers	
Life membership	Indian Society of Earthquake Technology	
2018-2025	Membership of International Geosynthetics Society	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
U.K.	2 month (2014)	Research collaboration with IISc & University of Warwick

21. Publications

(A) Referred Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Deendayal Rathod, D. Nigitha K.T. Krishnanunni	Experimental investigation on the behavior of monopile under asymmetric two-way cyclic lateral loads	<i>International Journal of Geomechanics</i>	21(3):06 021001		2021	3.89

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D. Nigitha, Deendayal Rathod K.T. Krishnanunni	Analysis of a monopile under two-way cyclic loading	<i>International Journal of Geotechnical Earthquake Engineering, IGIGlobal</i>	Vol.12(2)	42-61	2021	0.8
Manikandaprabhu S, Deendayal Rathod	Performance of the HFRC beam with E-glass and Basalt fibre under Torsion	<i>Innovative Infrastructure Solutions</i>	Vol. 6 (1)	190	2021	1.97
Deendayal Rathod, Md. Shakeel Abid Sai K.Vanapalli	Performance of polypropylene textile encased stone column	<i>Geotextiles & Geomembranes</i>	Vol.49 (1)	222-242	2020	5.29
Deendayal Rathod, Manikandaprabhu S	Effect of hybrid E-glass and Basalt fibre on the flexural behaviour of concrete	<i>Proceedings of the Institution of Civil Engineers (ICE) - Construction Materials</i>			2020	0.96
Deendayal Rathod, K.T. Krishnanunni D. Nigitha	A Review on conventional and innovative pile system for offshore wind turbines	<i>Geotechnical and Geological Engineering</i>	Vol. 38(4)	3385–3402	2020	1.78
Md. Shakeel Abid, Deendayal Rathod	Potential Utilization of Jute Textiles to Reinforce Sand Bed, Effect of slope on p-y curves for laterally loaded piles in soft clay	<i>Geotechnical and Geological Engineering</i>			2022	1.78
R. Deendayal, K. Muthukkumaran T.G. Sitharam	Analysis of laterally loaded group of piles located on sloping ground	<i>International Journal of Geotechnical Engineering</i>	Vol.14 (5)	580–588	2020	1.74
Deendayal R, Muthukkumaran K, Sitharam T. G.	Experimental Investigation on Behavior of a Laterally loaded single pile located on sloping ground	<i>International Journal of Geomechanics, ASCE</i>	19(5):04019021	04019021-1 to 04019021 - 09	2019	3.89
Deendayal R, Muthukkumaran K, Sitharam T. G.	Analysis of Laterally loaded group of piles located on sloping ground	<i>International journal of Geotechnical Engineering</i>	10.1080/19386362.201448521	1-9	2018	1.74
Deendayal R, Muthukkumaran K, Sitharam T. G.	Response of laterally loaded pile in soft clay on sloping ground	<i>International journal of Geotechnical Engineering</i>	10	10-21	2016	1.74

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Deendayal R, Muthukkumaran K, Sitharam T. G.	Effect of slope on p-y curves for laterally loaded piles in soft clay	<i>Geotechnical and Geological Engineering, Springer</i>	10.1007 /s10706 -017- 0405-7			
Deendayal R, K.Muthukkumaran, T.G.Sitharam	Dynamic response of single pile located in soft clay underlay by sand	<i>International Journal of GEOMATE, Japan</i>	Vol. 11(26),	2563- 2567	2016	
Deendayal R, Sivapullaiah P. V	Migration of Sulphate under Different Conditions: Electro- Kinetic Remediation Technique.	<i>Indian Geotechnical Journal, Springer</i>	DOI 10.1007/ s40098- 017- 0250-x .	485- 494	2017	
R. Deendayal , K. Muthukkumaran , T.G. Sitharam	Response of laterally loaded pile in soft clay on sloping ground,	<i>International Journal of Geotechnical Engineering, Taylor & Francis</i>	Vol. 10 (1),	10-22	2016	
R.Deendayal, T.G.Sitharam and K. Muthukkumaran	Effect of earthquake on a single pile located in sloping ground	<i>International Journal of Earthquake Geotechnical Engineering, IGI, Global</i>	Vol. 7(1)	55-72.	2016	
Deendayal R, P.V. Sivapullaiah	Migration of sulphate in soil under different conditions	<i>International Journal of Earth Science and Engineering, Cafet- Innova Technical Society</i>	Vol.6(2)	381- 385.	2013	
Deendayal R, K.Muthukkumaran, T.G. Sitharam	Development of non- dimension <i>p-y</i> curves for laterally loaded piles in sloping ground	<i>Indian Geotechnical Journal, Springer</i>	Vol 47 (1),	47-56.	2017	1.39

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(A) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Venue	Year
Deendayal R and Devahi P	Geosynthetics – Past findings, Present trends, and future prospects in Road pavements	<i>Indian Geotechnical Conference</i>	NIT - Trichy	2021
Deendayal R, D. Nigitha and K.T. Krishnanunni	Response of a single pile located on sloping ground under dynamic loading	<i>DFI India 2019 Conference</i>	NAC-HYD.	2019
Deendayal R, K.T. Krishnanunni and D. Nigitha.	A single pile located on sloping ground under cyclic loading	<i>Proceedings of Indian Geotechnical Conference</i>	Surat	2019
R. Deendayal and D. Nigitha	Numerical Analysis of pile subjected to cyclic lateral load	<i>Proceedings of Indian Geotechnical Conference</i>	IISc - Bangalore	2018
R. Deendayal and D. Nigitha	Response of single pile under dynamic loading	<i>Proceedings of Indian Geotechnical Conference</i>	IIT - Guwahati	2017
Deendayal R, Muthukkumaran K, SitharamT.G	Behaviour of laterally loaded 1-g single model pile in soft clay with sloping ground	<i>19th ICSMGE-2017</i>		2017
Deendayal R, Muthukkumaran K, SitharamT.G	Behaviour of laterally loaded piles in soft clay on sloping ground	<i>Proceedings of GeoMEast-2017</i>		July 15 th -19 th , 2017
Deendayal R, Sivapullaiah P.V.	Electro Kinetic remediation of sulphate from soil	<i>Proceedings of Geo-Chicago - 2016</i>	Chicago, Illinois, USA.	August 14-18, 2016
Deendayal R,	Electro-Kinetic remediation of sulphate from	<i>Geotechnical Society, IISc</i>		22 nd -23 rd July 2016

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	soil			
Deendayal Rathod and P.V. Sivapullaiah	Electro- Kinetic remediation of sulphate from soil	<i>Proceedings of International Conference on Soil and Environment</i>	IISc, Bangalore	22 nd -23 rd July 2016
Deendayal R, Muthukkumaran K, Sitharam T. G	Dynamic response of single pile located in softclay under lay by sand	<i>Proceedings of GEOMATE-2015</i>	<i>Osaka, Japan</i>	Novem ber16-18
Deendayal R, Sivapullaiah P.V	Electro-Kinetic Remediation of Sulphate Soil under different conditions	<i>ICGI-2012 Australia</i>	Australia	October3 ^{0th} – November2 nd 2016
R. Deendayal,D Nigitha	Response of single pile underdynamic loading	<i>Proceedings of Indian Geotechnical Conference</i>	IIT Guwahati, India	December 14 th -16 th , 2017
Deendayal R, Sivapullaiah P.V	Migration of sulphate in soil under different conditions	<i>Indian Young Geotechnical Engineer Conference (3IYGEC),</i>	New Delhi, India	March 25 th -26 th ,
Deendayal R, Muthukkumaran K, SitharamT.G	Response of laterally loadedpile groups in sloping ground	<i>Proceedings of Indian Geotechnical Conference</i>	Pune, India	Decemb er 17 th -19 th , 2015
Deendayal R, Muthukkumaran K, SitharamT.G	Experimental investigation of single model pilein clayey soil with slope under later load	<i>Proceedings of Indian Geotechnical Conference</i>	Kakinada, India	Decembe r 18 th -20 th , 2014

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(B) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
Deendayal R, K.Muthukkumaran , T.G. Sitharam	Behavior of Laterally Loaded Piles on Sloping ground	<i>LAMBERT Academic Publishing</i>	2017	9786202066747
Deendayal R, K. Muthukkumaran and T.G. Sitharam	Behaviour of Laterally Loaded Piles in Soft Clay on Sloping Ground	<i>Sustainable Civil Infrastructures book series (SUCI)</i>	2017	
Deendayal R, D. Nigitha and K.T. Krishnanunni	Numerical Analysis of Laterally Loaded Pile Under Cyclic Loading	<i>Lecture Notes in Civil Engineering book series (LNCE)</i>	2020	
Deendayal R, D. Nigitha and K.T. Krishnanunni	A Single Pile Located on Sloping Ground Under Dynamic Loading	<i>Lecture Notes in Civil Engineering book series (LNCE)</i>	2021	

22. Reviewer of the Journals:

- (i) Ocean Engineering (Elsevier)
- (ii) International Journal of Geomechanics (ASCE)
- (iii) Geotextiles and Geomembranes (Elsevier)
- (iv) Computers and Geotechnics (Elsevier)
- (v) Canadian Geotechnical Journal
- (vi) Geotechnical and Geological Engineering (Springer)
- (vii) Earthquake Engineering and Engineering Vibration (Springer)