

CURRICULUM VITAE



Dr. M. Padmavathi

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Date of birth: 8th July 1980

Academic Qualifications

	Degree	Year	Subject	University/Institution	% of marks or CGPA
1	B.Tech	2001	Civil Engineering	Nagarjuna University, Guntur	76
2	M.E	2003	Soil Mechanics and Foundation Engineering	Guindy Engineering College, Anna University, Chennai, TN	7.943/10)
3	M.Tech	2024	Structural Engineering	College of Engineering, Osmania University	8.26/10
3	Ph. D	2018	Civil Engineering	JNTU Hyderabad	Awarded

Ph. D thesis title	Guide's Names	Institute	University	Year of Award
Inelastic and Nonlinear response of foundations under moment loading	Dr. M.R. Madhav and Dr. V. Padmavathi	JNTUH	Jawaharlal Nehru Technological University	2018

Work Experience : Work Experience (In chronological order)

S.No	Positions held	Name of the Institute	From	To	Pay scale
1	Professor	JNTU Hyderabad	02-03-2021	Till date	Rs.37400-67000 + AGP Rs.10000
2	Associate Professor	JNTU Hyderabad	02-03-2018	02-03.2021	Rs.37400-67000 + AGP Rs.9000
3	Assistant Professor	JNTU Hyderabad	2015	2018	Rs. 15600-39100+AGP. Rs.8000
4	Assistant Professor	JNTU Hyderabad	2010	2015	Rs. 15600-39100+AGP. Rs.7000
5	Assistant Professor	JNTU Kakinada	2006	2010	Rs.15600-39100 + AGP Rs.6000
6	<i>Lecturer</i>	<i>KL College of Engineering, Guntur, KLU</i>	<i>Dec'2003</i>	<i>Nov'2006</i>	Rs 8500 Basic

Administrative Responsibilities :

- a) *Deputy Warden, Kamala Nehru Girls Hostel, JNTUHCEH Hyderabad*
- b) *Coordinator -Academic &Planning, JNTUH*
- c) *Deputy Director –BICS*
- d) *HOD-JNTUH UCESTH*
- e) *Deputy Director –BICS JNTUH*
- f) *NSS Co-ordinator –JNTUH UCESTH*

Research Projects : Completed

- 1 Project Title : Experimental analysis of piled raft foundation under sequential moment loading
Start date : November 2020
Completion date : January 2021
Project Cost : 4 Lakhs
Sponsoring Organization : TEQIP -III funds
- 2 Project Title : Geotechnical and Chemical Characterization of Coal Mine Waste and its Efficacy in Pavement/Fill Construction on Clayey Subgrade
Start date : 22/07/2019
Completion date : July 2020
Project Cost : 3 Lakhs
Sponsoring Organization : Collaborative Research Scheme, TEQIP -III funds

Foreign Visits :

1. Attended and presented a technical paper titled “*Response of Four Pile Group Subjected to Eccentric Loading*” in an ISSMGE’s International Conference on GEOMEAST-2018 held during 23rd to 29th Nov 2018, *Cairo, Egypt*.
2. Attended and presented a technical paper titled “*Seismic stability analysis of earthen dam – a case study of the left embankment of Nagarjuna Sagar dam, India.*” In an International Conference on Landslides and Slope stability, (SLOPE 2015) held at Parahyangan Catholic University, *Bali, Indonasia*, during 27th to 30th September, 2015.

Research Publications : 47

Papers Published in : Peer Reviewed International Journal Articles
International Conference Proceedings:
National Conference Proceedings:

List of Publications and patents

Design Patent awarded:

Design patent awarded on: Pullout Test Equipment with Front Slot for Coal Mine Waste as Backfill Material, Design number: 446962-001, dated 05/02/2025, Serial no:199188, date of issue:14/05/2025.

International Journals

1. Padmavathi. M “Pull out tests on Coal Mine Waste to assess suitability as non-conventional backfill for reinforced soil structure” **6th International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering, from 11th to 14th June 2025, at Vigo Spain.**
2. Padmavathi M., and Divya. J (2021) Geotechnical Properties of Soft Improved Ground from in-situ Time-Settlement Plots, International Journal of Research, Volume X, Issue II, February/2021, pp. 453-466, ISSN No: 2236-6124.
3. Padmavathi M., Padavathi V. & Madhav M.R. (2020) Response of two- pile group subjected to vertical eccentric load, International Journal of Geotechnical Engineering , Volume14, Issue 6, 626-635, DOI: 10.1080/19386362.2019.1652452
4. Padmavathi M., and Srujana Vanga (2021) Estimation of Modular Ration of Two LayeredSoil System, The International journal of analytical and experimental modal analysis, Volume XIII, Issue I, January/2021 , pp.1981-1991, ISSN No: 0886-9367
5. Padmavathi, M., Rajesh, S., Sanjeeva, P. (2025). Experimental Evaluation of Coal Mine Waste as Non-conventional Backfill for Reinforced Soil Structures. In: Saride, S., Chennarapu, H., Padmavathi, V. (eds) GeoPractices Towards Sustainable Infrastructure, Volume 1. GeoPrac 2024. Lecture Notes in Civil Engineering, vol 589. Springer, Singapore. https://doi.org/10.1007/978-981-96-3220-6_12
6. Padmavathi. M and Anuradha. EFFECT OF BASE ISOLATION ON DYNAMIC RESPONSE OF RC IRREGULAR BUILDINGS, International journal of creative research thoughts, IJCRT, **Volume 12, Issue 3 March 2024 | ISSN: 2320-2882**
7. Padmavathi M., and Akhila Pola (2021) Estimation of Ultimate Resistances and Stiffnesses of Base and Shaft from Axial Pile Load Test Results, The International journal of analytical and experimental modal analysis, Volume XIII, Issue III, March/2021, pp.1952-1957, ISSN No: 0886-9367.
8. Padmavathi M., (2021) Load-Displacement and Moment-Rotation Response of Square Footing Under Moment Loading, Global Journal of Engineering Science and Researches 1:18, 278-285, ISSN No: 2348-8034.
9. Padmavathi, M. and Srinivas, Ch (2021) “Static and Dynamic Analysis of Nailed Slope” *International Journal on Science and Research*, Vol.8, No. 8, pp. 1572-1578. ISSN: 2319-7064

10. Srinivas ch and Padmavathi. M., (2021) Static and Dynamic Analysis of Nailed Slope. Proceedings of the Indian Geotechnical Conference 2019. Lecture Notes in Civil Engineering, vol 133. Springer, Singapore. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) Pp. 705-717. 2021, https://doi.org/10.1007/978-981-33-6346-5_61
11. B. Vishwaja Neha, V. Padmavathi, Padmavathi M. and P.N. Rao, (2021) Study of Cohesive Soil Behavior on Addition of Coconut Fiber and Micro Fine Cement, X:II, 1-10, DOI: 10.1007/978-981-33-6466-0_1)
12. M. Padmavathi, and V. Padmavathi (2021) Stabilization of Clays and Clayey Soils Using Polycom - A Polacrylamide Additive, X:II, 805-813, DOI: 10.1007/978-981-33-6444-8_72)
13. Padmavathi. M and Srinivas. Ch, (2019) "Static and Dynamic Analysis of Nailed Slope" International Journal of Science and Research, Vol. 8, Issue 8, pp.1572-1578. DOI 10.21275/ART2020616
14. Padmavathi V, E C Nirmala Peter, Padmavathi M, P N Rao, (2019). "Stabilization of Soil Using Terrasil, Zycobond and Cement as Admixtures", Proceedings of the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt, Latest Thoughts on Ground Improvement Techniques, , ISSN 2366-3405 ISSN 2366-3413 (electronic) Sustainable Civil Infrastructures ISBN 978-3-030-01916-7 ISBN 978-3-030-01917-4 (eBook) <https://doi.org/10.1007/978-3-030-01917-4-170>, © Springer Nature Switzerland AG 2019 H. Shehata and H. Poulos (Eds.): GeoMEast 2018, SUCI, pp. 163–170, 2019. https://doi.org/10.1007/978-3-030-01917-4_13, 2019.
15. Padmavathi M, Koteswara Rao L, Padmavathi V, Madhav M R, and Sanjeeva P, (2019). "Response of Four Pile Group Subjected to Eccentric Loading," Proceedings of the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 – The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE), January 2019 DOI: 10.1007/978-3-030-01902-0_3. In book: Sustainability Issues for the Deep Foundations, Issue No. DOI: 10.1007/978-3-030-01902-0_3, Springer Nature, 2019, January.
16. Padmavathi M, (2018) "*Load - Displacement and Moment - Rotation response of square footing resting on reinforced sand bed under Moment Loading,*" *Global Journal of Engineering science and researches*, Vol No.I - Concepts -18, Issue No.3, pp.278-285, ISSN 2348 – 8034, THOMSON REUTERS, 2018.
17. Padmavathi, M., Padmavathi,V. and Madhav, M.R.(2018). "Response of four pile group subjected to eccentric loading", Proceedings of GeoMeast-2018-International Conf. on Sustainable Civil Infrastructures: Structural integrity, November,24-28, 2018, Cairo, Egypt.
18. Padmavathi, M., Padmavathi,V. and Madhav, M.R.(2018). "Response of two pile group under moment loading", International Symposium on Lowland Technology(ISLT 2018), Sept.26-28,2018,Hanoi,Vietnam.

19. Padmavathi M, Padmavathi V, Madhav M R, (2018). "*Inelastic and Nonlinear analysis of foundations under moment Loading,*" *Proc. of Symposium on GeoPractices -2018,* , IGS Hyderabad Chapter and JNTUHCEH , Vol No.1, Issue No.1-16, IGS.
20. Padmavathi M, Padmavathi V, Madhav M R, (2016) "*Load - Displacement and Moment-Rotation Responses of Foundation subjected to Moment Loading,*" *International Journal of Geomechanics,* Vol.16 , Issue No.5, pp.1-12, ISSN: 1532-3641, eISSN: 1943-5622, , American Society of Civil Engineers, ASCE.
21. Padmavathi, M., Padmavathi,V. and Madhav, M.R.(2016). "Response of two pile group under moment loading", 15-18, December, 2016, JNTU Kakinada. Paper No.T07P51
22. Sunu Cecil Edem, M. Padmavathi, V. Padmavathi and P.N.Rao, (2015), "Seismic stability analysis of earth filled dam- A model study of the left embankment of Nagarjuna SAGAR dam, India", International Conference on Landslides and Slope stability, Bali, Indonesia,27th -30th September, 2015.
23. Padmavathi M and Cecil Sunu, (2015) "*Dynamic response analysis of highway embankment with different fill material modifications,*" *International Journal of Latest Technology in Engineering Management & Applied Science,* Vol No. IV, Issue No.X-1, 8, , ISSN 2278 - 2540.
24. Padmavathi, M., Padmavathi,V. and Madhav, M.R.(2015). " Effect of compressibility of ground on bearing capacity of foundation under moment loading.", *Proceedings of 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering,* IND-09,9-13,November,2015, Fukuoka, Japan.
25. Vijay Kiran K., Madhav M.R., Padmavathi, M.,(2015) " Settlements of single granular pile at different depths", *Proceedings of Indian Geotechnical Conference (50th IGC), Geotechnics for infrastructure & Foundation Techniques,*December 17-19, College of Engineering Pune, Paper No.318.
26. Vaishnavi, G., Madhav, M.R., Padmavathi,M., Padmavathi.V.,(2015) " Behavior of two pile group subjected to eccentric loading.", *Proceedings of Indian Geotechnical Conference (50th IGC), Geotechnics for Infrastructure & Foundation Techniques,* December 17-19, College of Engineering Pune,Paper No.317
27. Padmavathi M, Srinivas Angadi, (2015) "*Challenges in Adopting Smart City Concepts and Their Sustainability in Indian Conditions,*" *International J. Technology,* ISSN 2231-3907 (Print, ISSN 2231-3915 (Online), Vol. 5, Issue 2, pp.41-47.
28. Padmavathi M, Padmavathi V, Madhav M R, (2014) "*Foundation subjected to Moment Loading - Re-evaluation of Meyerhof's Approach,*" *Indian Geotechnical Journal,* ISSN: 0971-9555 (print version) ISSN: 2277-3347 (electronic version), Vol No.Vol. 44, No.3, pp. 260-268. , Issue No.3, pp.260-268, Springer, 2014, march
29. Padmavathi M and Cecil Sunu, "Seismic stability analysis of earthen dam – a case study of the left embankment of Nagarjuna Sagar dam, India." ., *Proceedings International Conference on Landslides and Slope stability, (SLOPE 2015),, SLOPE -2015 Bali, Indonesia, Springer, 2015, 27-30th September.*

30. Srinivas Angadi, Padmavathi M, (2015). *“Challenges in adopting smart city concepts and their sustainability in Indian conditions,” An Industry Academia Conference on Construction Management, IACCM, NICMAR, Hyderabad. 4th - 5th, December, 2015.*
31. Padmavathi, M., Padmavathi,V. and Madhav, M.R.(2012). “Inelastic Response of shallow foundation subjected to eccentric loading with Non-linear winkler model”, *Proceedings of Indian Geotechnical Conference. December 13-15, Delhi.*Pp:676-679.Paper No.F.612.
32. Padmavathi, M., Padmavathi,V. and Madhav, M.R.(2011). “Analysis of Inelastic response of Shallow Foundations subjected to Moment Loading.”, *Proceedings of Indian Geotechnical Conference. December 15-17.Kochi.*Pg:931-934.Paper No.N.289.
33. Padmavathi, M., Padmavathi,V. and Madhav, M.R.(2010). “Moment Rotation Relationships of Foundations Using Hyperbolic Subgrade Response”. *IGC,IIT B, Powai. pp.837-840.*
34. Padmavathi, M., (2008), “Assessment of Ground Contamination at Perungudi Municipal dumping yard, in chennai’. Proceedings of 12th International Conference of International Association for Computer Methods and Advances in Geo mechanics (IACMAG), 1-6 October pp:2254-2260, Paper ID:763.ISBN:978-1-62276-176,2008.GOA.
35. Padmavathi, M.,(2008), “Geo-Enviromental Studies of Perungudi-Municipal dumping yard in Chennai.” Proceedings of Syposium on Engineering of Ground & Environmental Geotechnics(SEG² - 2008), 29th Feb.-1st, March, 2008. JNTUH.Theme-3.
36. Padmavathi, M.,(2007),“Assessment of Ground Water Quality in the vicinity of Perungudi Municipal Dumping YARD’ NATIONAL Conference on Water and Waste Management(NCWWM), 23-24, April 2007, JNTU KAKINAD, A.P.

International/National Conference Publications

35. Padmavathi. M and Padmavathi. V (2019) “Stabilization of Clays and Clayey Soils using Polycom-A Polyacrylamide Additive” Proceedings of Indian Geotechnical Conference, SVNIT, Surat, Gujarat, 18-21, Dec-2019.TH3-21.
36. Srinivas, Ch and Padmavathi. M (2019) “Static and Dynamic analysis of nailed slope” Proceedings of Indian Geotechnical Conference, SVNIT, Surat, Gujarat, 18-21, Dec-2019.
37. Neha. V, Padmavathi. V., Padmavathi. M and Rao, P.N (2019) “Study of cohesive soil behaviour on addition of coconut fibre and microfine cement” Proceedings of Indian Geotechnical Conference, SVNIT, Surat, Gujarat, 18-21, Dec-2019. P84, TH8-19.
38. Padmavathi M, Koteswara Rao L, Padmavathi V, Madhav M R, and Sanjeeva P, (2019). *“Response of Four Pile Group Subjected to Eccentric Loading,” Proceedings of the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 – The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE), January 2019 DOI:*

- 10.1007/978-3-030-01902-0_3. In book: Sustainability Issues for the Deep Foundations, Issue No.DOI: 10.1007/978-3-030-01902-0_3, Springer Nature, 2019, January.
39. Padmavathi V, E C Nirmala Peter, Padmavathi M, P N Rao, (2019). "*Stabilization of Soil Using Terrasil, Zycobond and Cement as Admixtures*", *Proceedings of the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures*, Egypt, Latest Thoughts on Ground Improvement Techniques, , ISSN 2366-3405 ISSN 2366-3413 (electronic) Sustainable Civil Infrastructures ISBN 978-3-030-01916-7 ISBN 978-3-030-01917-4 (eBook) <https://doi.org/10.1007/978-3-030-01917-4-170>, © Springer Nature Switzerland AG 2019 H. Shehata and H. Poulos (Eds.): GeoMEast 2018, SUCI, pp. 163–170, 2019. https://doi.org/10.1007/978-3-030-01917-4_13, 2019.
 40. Padmavathi. M and Madhav M. R. (2015). "*Effect of compressibility of ground on bearing capacity of foundation under moment loading*," *Proceedings of 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering*, Fukuoka, Japan., Vol No.IND-09, Issue No. , pp.9-13, Asian Regional Conference, ARC, 2015, November.
 41. Padmavathi M and Cecil Sunu, "*Seismic stability analysis of earthen dam – a case study of the left embankment of Nagarjuna Sagar dam, India.*" ., *Proceedings International Conference on Landslides and Slope stability, (SLOPE 2015)*., SLOPE - 2015 Bali, Indonesia, Springer, 2015, 27-30th September.
 42. Padmavathi M, Padmavathi V, Madhav M R, (2018). "*Inelastic and Nonlinear analysis of foundations under moment Loading*," *Proc. of Symposium on GeoPractices -2018*, , IGS Hyderabad Chapter and JNTUHCEH , Vol No.1, Issue No.1-16, IGS.
 43. Vijay Kiran K, Padmavathi M, Madhav M R, (2015) "*Settlements of single granular pile at different depths*," *Proceedings of Indian Geotechnical Conference (50th IGC), Geotechnics for Infrastructure & Foundation Techniques*, College of Engineering Pune, Paper No.318., December 17-19, IGC- 2015.
 44. Padmavathi M, Vaishnavi G, Madhav M R, Padmavathi V, (2015) "*Behaviour of two pile group subjected to eccentric loading.*", *Proceedings of Indian Geotechnical Conference (50th IGC)*, Geotechnics for Infrastructure & Foundation Techniques, College of Engineering Pune, , Paper No.317. 17-19, December,2015.
 45. Srinivas Angadi, Padmavathi M, (2015). "*Challenges in adopting smart city concepts and their sustainability in Indian conditions*," *An Industry Academia Conference on Construction Management, IACCM, NICMAR, Hyderabad*. 4th - 5th, December, 2015.
 46. Padmavathi M, Padmavathi V, Madhav M R, "*Inelastic Response of shallow foundations subjected to eccentric loading with Non-linear Winkler model.*", *Proceedings of Indian Geotechnical Conference*, Paper No.F.612. , pp.29-32, 2012, December 13-15, Delhi.
 47. Padmavathi M, Padmavathi V, Madhav M R, "*Analysis of Inelastic response of Shallow foundations subjected to Moment Loading*'., *Proceedings of Indian Geotechnical Conference*, Kochi., Issue No. Paper No. N-289, pp.931-934, 2011, December 15-17.

LIST OF CONFERENCES/SYMPOSIUMS/WORKSHOPS Organised

S.No.	Conference/Symposiums/Workshops	Year
1.	1 st Young Geotechnical Conference of AP (IIT HYDERABAD.)	31 st March, 2012
2.	Symposium on “Geopractices-2012”	10 th November, 2012
3.	Symposium on “GEOAPPLICATIONS-2013” (GEOAPPS - 2013)	16 th March, 2013
4.	Symposium on “Geotechnical Practices -2013” (GP-2013) under TEQIP-II	04 th October, 2013
5.	Symposium on Geotechnical applications (GEOAPPS -2014) under TEQIP-II	04 th April, 2014
6.	Geotechnics for Irrigation Projects (GIP-2014) under TEQIP-II	28 th August, 2014
7.	Geotechnical Practices -2015 under COE	27 th February, 2015
8.	Workshop on Ground Improvement & Geosynthetics. (GIGS -2015) under COE	29 th August, 2015
9.	“Geo-disasters: Ground & Slope Instability” (GG SI-2016) Under COE	01 st October, 2016
10.	Symposium on “GEO Practices -2017 (GP-2017)” Under TEQIP-III	14 th October, 2017
11.	National Conference on “Geotechnical Applications-2018” (GA-2018) Under TEQIP-III	24 th March, 2018
12.	Symposium on “GEO PRACTICES 2018” (GP-2018) Under TEQIP-III	29 th September, 2018
13.	National Conference on “Geotechnical Applications-2019” (GA-2019) Under TEQIP-III (IIT HYDERABAD)	30 th March, 2019
14.	Workshop on “GEO PRACTICES 2019” (GP-2019) Under TEQIP-III	23 rd November, 2019
15.	National Conference on “Geotechnical Applications-2020” (GA-2020) Under TEQIP-III	24 th January, 2020
16.	Symposium on “ Geopractices-2020” (GP-2020) under TEQIP-III(held at online)	28 th November, 2020
17.	Webinar on “Practices and Advancements in Geotechnical Engineering” under TEQIP-III (PAGE-2021)	27 th February, 2021

List of Major Consultancy works involved

S. No.	Description	Amount (rupees)
1	Soil Investigation and Plate Load Tests for infrastructure Projects (GHMC, I&CADD, PRLIS, HMDA, Chase Infrastructure., RITES Aishwarya Builders etc.) (Apr.2018, – March 2019)	30,12,482.00
2	Soil Testing and Soil Investigation works (I & CADD Dept., R&B, K.S.R Projects, NCC LTD. SCCL, Kaleshwaram Project, IOCL etc.) (April, 2019 – Mar, 2020)	17,75,410.00
3	CIPEL, DRDO, SLS Constructions, SCCL, NTPC & soil testing and Investigation etc. (Apr .2020, - Mar. 2021)	11,25,512.00
4	Proof checking of high rise buildings of GHMC, HMDA projects (2022 – 2023)	50,02,515.00
5	Structural stability of residential buildings, old overhead tanks for GHMC and other Public , private sector units (2022- 2023)	35,02,515.00

Research Guidance : M. Tech: 50, Ph.d : 04 (In progress)
Major and Minor Consultancy Projects : 500
Guest Lectures/Invited Talks : 30

Short Term Courses/FDP Attended : 15

Seminars/Training/Student Events Organized and Assisted : 17

Abroad Visits : Bali- Indonesia, Cairo-Egypt, Singapore.

(Dr. M. Padmavathi)