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CURRICULLUM – VITAE

Dr. MADAKA TIRUMALA DEVI

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PERSONAL PROFILE

1. Name of the candidate   : MADAKA TIRUMALA DEVI

2. Father's Name   : M. Rajalingu

3. Mother's Name   : M. Rajeswari

4. Address for correspondence

Residence	**Office**
# 30-2-696/1	Department of Mathematics
West City, Madikonda(P)	Kakatiya University
Kazipet(M), Warangal	Warangal
Telangana – 506142	Telangana – 506009
	Mobile No. 9866085107
	E-mail id: oramdevi@yahoo.com
	oramdevi@gmail.com

5. Date of Birth   : 20 – 09 – 1973

ACADEMIC PROFILE

Oct 2012 : Awarded Ph.D, Kakatiya University, Warangal

1995- 1996: B.Ed with first division, Osmania University, Hyderabad.

1993- 1995: M.Sc (Mathematics) first division with distinction, Kakatiya University, Warangal.

Secured **Gold medal** in the faculty of science

1990- 1993: B.Sc (Mathematics, Physics, Computer science) with first division, Kakatiya

University, Warangal.

TEACHING EXPERIENCE

1. From 1999 to June 2005, worked as Junior Lecturer at Govt. Junior College, Cherial, Warangal.

2. From June 21st, 2005 to till today working as Assistant Professor in the Department of Mathematics, Kakatiya University, Warangal.

No. of Conferences attended (National/International) : 15

No. of Webinars/Workshops/Training Programmes attended

(National/International) : 11

No. of Research Publications(National/International) : 40

No. of Conferences organized : 02

No. of Orientation Courses attended : 01

No. of Refresher Courses attended : 02

No. of Short term Courses attended : 03

ADMINISTRATIVE POSITIONS

- Incharge Principal, University PG College, Bhupalpally and University PG College, Mahabubabad from 31 – 07 – 2014 to 06 – 10 – 2015
- Incharge Principal, University College for Women, Subedari from 31 – 07 – 2014 to 06 – 09 – 2015
- Vice – Principal, University College for Women, Subedari from 25 – 10 – 2013 to 30 – 07 – 2014
- Director for SC/ST Cell, KU and Coordinator for Coaching Scheme for Entry into Services for SC/ST Students in the University from 17 – 10 – 2012 to 28 – 03 – 2016
- Joint Director for Padmakshi Women's Hostel, Kakatiya University from 18 – 07 – 2009 to 22 – 07 – 2011

- NSS Programme Officer, University Arts and Science College, Subedari from 04 – 07 – 2005 to 04 – 07 – 2008.

ACADEMIC POSITIONS

- Head, Department of Mathematics, Kakatiya University from 04 – 09 – 2017 to 04 – 09 – 2019
- Chairperson, Board of Studies in Mathematics, Kakatiya University from 04 – 09 – 2015 to 04 – 09 – 2017
- Member on Departmental Committee(DC) of Kakatiya University

ORIENTATION COURSES ATTENDED

1. Orientation Course at Academic Staff College, Osmania University, Hyderabad from 20 – 04 – 2009 to 15 – 05 – 2009

REFRESHER COURSES ATTENDED

1. Refresher Course in Mathematics and Statistics at Academic Staff College, Osmania University, Hyderabad from 07 – 12 – 2010 to 29 – 12 – 2010
2. Refresher Course in Mathematics (ID- Statistics & Computer Science) at Academic Staff College, Osmania University, Hyderabad from 31 – 01 – 2017 to 18 – 02 – 2017

SHORT TERM COURSES ATTENDED

1. Short Term Course on e-learning and ICT for teaching and learning at Academic Staff College, UGC-HRDC, JNT University, Hyderabad from 30-07-2018 to 04-08-2018
2. Online Short Term Course on MOOCs, e-Content Development and Open Educational Resources at Academic Staff College, UGC-HRDC, JNT University, Hyderabad from 13 – 07 – 2020 to 18 – 07 – 2020.

3. Online short term course on machine learning for data science using python, NIT Warangal, 19-07-2021 to 28-07-2021.

CONFERENCES ORGANIZED

1. XXVI Congress of APSMS & National Conference on Recent Advances in Mathematics from 11th – 13th August, 2017 by the Department of Mathematics, Kakatiya University, Warangal.

2. National Conference on Applications of Mathematics in Engineering and Industry from 26th – 28th March, 2013 by the Department of Mathematics, Kakatiya University, Warangal.

CONFERENCES ATTENDED AND PRESENTED PAPERS

1. International Conference on Mathematical Sciences and Applications(ICMSA-2019) during August 9-11, 2019 organized by Department of Mathematics, School of Technology, GITAM(Deemed to be University), Hyderabad

2. International Conference on Science Engineering and Technology(ICSET-2K19) organized by Amalapuram Institute of Management Sciences and College of Engineering, Mummidivaram, Andhra Pradesh from 26th – 27th July 2019

3. 106th Indian Science Congress held at Lovely Professional University, Phagwara, Jalandhar from January 3 to 7, 2019

4. National Conference on Recent Advances in Mathematics & XXVII Congress of APTSMS, organized by Department of Mathematics, Maris Stella College, Vijayawada from 8th – 10th December 2018

5. International Conference on Science, Computers, Technology and Engineering(ICSCTE-2018), organized by Shree Velagapudi Ramakrishna Memorial College, Nagaram, Guntur from 26th – 27th October 2018

6. International Conference on Pure and Applied Mathematics, Sri Chandrashekharendra Saraswathi Viswa Mahavidyalaya(SCSVMV) University, Kanchipuram, 19th-20th February, 2018.

7. XXVI Congress of APSMS & National Conference on Recent Advances in Mathematics from 11th – 13th August, 2017 by the Department of Mathematics, Kakatiya University, Warangal

8. International workshop and conference on Analysis and Applied mathematics held at NIT, Tiruchirapalli, 6th – 10th June, 2016

9. National Seminar on Recent Advances in Mathematical Sciences held at Andhra Loyola College, Vijayawada on 12th February, 2016

10. International Conference on Mathematical modelling and Applied soft computing held at Coimbatore institute of technology, Coimbatore from 11th – 13th July, 2012

11. The 31st Annual Convention of ISPS & International Conference on Statistics, Probability and Related Areas held at Cochin University of Science and Technology, Cochin from 19th – 22nd December, 2011

12. The National Conference on Recent Developments in statistics held at Gulbarga University, Gulbarga from 8th – 9th September, 2011

13. The National conference on Advances in mathematical analysis and Applications, held at K.S.Ranga Swamy College of Arts and Science, Tiruchengode, Tamilnadu from 12th – 13th August, 2011

14. The 5th National conference on Applicable Mathematics in wave mechanics and vibrations (WMVC-2010), held at Department of Mathematics, Kakatiya University, 13th – 15th March, 2010

POSTER PRESENTATIONS

1. National Conference on Harmony with Nature in Context of Environmental Issues and Challenges, organized by Department of Zoology, Kakatiya University from 21st-23rd December, 2017

WEBINARS/WORKSHOPS/TRAINING PROGRAMMES ATTENDED

1. National Webinar in Mathematics & Statistics, organized by Department of Mathematics & Statistics, University College for Women, Koti, Hyderabad on 24th June 2020

2. Two day International Webinar on Recent Advances in Mathematics & COVID-19, organized by the Departments of Mathematics and Statistics, St.Joseph's College for Women(A), Visakhapatnam on 15th & 16th June 2020

3. Faculty Development Program – Dealing with Differential Equations and PDEs, organized by Binary Semantics on June 8, 2020

4. National Workshop on Design and analysis of Algorithms, Kakatiya University from 29th-30th December,2017

5. International Workshop on Reliability Theory and Survival Analysis at Cochin University of Science and Technology, Cochin from December 31, 2013 – January 2, 2014.

6. Training Programme to PG Teachers of Affiliated Colleges held at Department of Mathematics Kakatiya University, Warangal from 25th April, 2012 to 1st May, 2012.

7. National Workshop on Graph Theory and Statistics held at Department of Mathematics, Kakatiya University from 28th – 29th February, 2012

8. Training Programme on Mathematical Programming and Advanced Analysis held at Department of Mathematics, Kakatiya University from 8th – 11th April, 2011

9. Workshop on Capacity Building of Women Managers in Higher Education held at Centre for Extension Studies, Sri Venkateswara University, Tirupati from 28th October to 1st November 2009

10. Training Programme to UG Teachers of Affiliated Colleges held at Department of Mathematics Kakatiya University from 15th – 21st July, 2009

11. Training Programme on MATLAB, GRAPHICS and LaTeX held at Department of Mathematics, Kakatiya University from 21st – 22nd March, 2009

LIST OF PUBLICATIONS

1. **M.Tirumala Devi**, T.Sumathi Uma Maheswari and A.Sathyanarayana, Reliability index of simply supported beam based on HL method, *Journal of Reliability and Statistical Studies*, vol.15, issue 2, 745-758, 2023.

2. **M.Tirumala Devi,** Sammena Afreen, V. Shyam Prasaad, Abdul Majeed and G. Mahender Reddy, Application of analytic hierarchy process in engineering education, *Ratio Mathematica*, vol.45, 267-279, 2023.

3. K.Sandhya Rani, **M.Tirumala Devi** and T.Sumathi Uma Maheswari, Reliability estimation of N-component parallel system by Bayesian approach using inverse Rayleigh distribution, *Mathematical Statistician and Engineering Applications*, vol.71, no.4, 6267-6275, 2022.

4. Md. Yakoob Pasha, **M. Tirumala Devi** and T. Sumathi Uma Maheswari, Reliability comparison of the shafts when shear stress follow the different distributions, *Mathematical Statistician and Engineering Applications*, vol.71, No. 4, 589-599, 2022.

5. **M.Tirumala Devi**, T.Sumathi Uma Maheswari and A.Sathyanarayana, Reliability of cantilever steel beam using FOSM and simulation methods, *GIS science journal*, vol. 9, issue 2, 383, 393, 2022.

6. K.Sandhya Rani, P. Asok, **M.Tirumala Devi** and T.Sumathi Uma Maheswari, Reliability estimation of n- cascade system for inverse exponential distribution, *International Journal of Mechanical Engineering,* vol. 2022, No. 2, 4355-4362, 2022.

7. G. Saritha, **M. Tirumala Devi** and T. Sumathi Uma Maheswari, Availability measures for 4-component system using Markov process, *International journal of advanced trends in computer science and engineering*, 2278-3091, 340-344, Feb 2021.

8. T. Sumathi Uma Maheswari and **M. Tirumala Devi**, Reliability analysis of m-modular redundancy system using markovian technique*, Journal of Xian University of Architecture and Technology*, 1006-7930, 2725-2728, 2020.

9. G.Saritha, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability model for 4-modular and 5-modular redundancy system by using markov technique, *Advances in Intelligent Systems and Computing*, Springer Link, pp:329-338, April 2020

10. A.Sathyanarayana, T.Sumathi Uma Maheswari, **M.Tirumala Devi**, Reliability analysis over I - Section of beam due to uniform distribution of load, *International Journal Performability Engineering*, Vol 16, No.3, pp:333-341, March 2020

11. T.Sumathi Uma Maheswari, **M.Tirumala Devi**, Reliability analysis of m-modular redundancy system using markovian technique, *Journal of Xian University of Architecture and Technology*, ISSN No.1006-7930, Vol XII, iss v, pp:2725-2728, 2020

12. A.Sathyanarayana, T.Sumathi Uma Maheswari, **M.Tirumala Devi**, Reliability of simply supported rectangular beam under uniformly distributed load, *Journal of Xian University of Architecture and Technology*, ISSN No.1006-7930, Vol XII, iss V, pp:2678-2684, 2020

13. K.Sandhya Rani, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability estimation for n independent stresses based on exponential and pareto distribution, *Journal of Xian University of Architecture and Technology*, ISSN No.1006-7930, Vol XII, iss v, pp:2627-2634, 2020

14. K.Sandhya Rani, P.Ashok, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability estimation of time dependent stress strength system for different distributions, *International Journal of Advanced Science and Technology*, ISSN No.2005-4238, Vol 29, No.3, pp:6571-6577, 2020

15. T.Sumathi Uma Maheswari, **M.Tirumala Devi**, Reliability analysis of resultant stress for unsymmetrical columns for stress follow exponential distribution, *International Journal of Engineering and Advanced Technolog*y, ISSN No.2249-8958, Vol. 8, iss 6S3, September 2019

16. T.Sumathi Uma Maheswari, **M.Tirumala Devi**, Research on stress strength model under random repeated cycles, *International Journal of Innovative Technology and Exploring Engineering*, ISSN No.2278-3075, Vol 8, July 2019

17. P.Ashok, N.Swathi, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability of time dependent stress strength system for finite mixture of exponential and pareto distribution under different cycles, *Journal of Physics- Conference Series*, 2019

18. P.Ashok, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability of a cascade system of type(X<Y<Z) for pareto and weibull distributions, *AIP Conference Proceedings*, 2019

19. T.Sumathi Uma Maheswari, G.Saritha, **M.Tirumala Devi**, Reliability Analysis of n component system using markovian model, *Journal of Engineering Technology and Innovative Research*, ISSN No.2349-5162, Vol 6, iss 6, pp:296-299, 2019

20. P.Ashok, N.Swathi, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability of a multi component system using mixture of two weibull distributions, *International Journal of Recent Technology and Engineering,* ISSN No.2277-3878, Vol 7, iss 5S2, January 2019

21. P.Ashok, N.Swathi, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability of multi component system using pareto distribution, *International Journal of Mathematics Trends and Technology*, ISSN No.2231-5373, Vol 64, No.2, 2018

22. P.Hari Prasad, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability analysis of structural beam section using first order reliability method, *International Journal of*

Scientific Research in Science and Technology, ISSN No.2395-6011, Vol 4, iss 5, March 2018

23. P.Ashok, N.Swathi, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability of a multi component system using strength and stress mixture of two exponential and lindley distribution, *International Journal of Pure and Applied Mathematics*, ISSN No.1314-3195, Vol 119, No.15, pp: 1357-1367, 2018

24. P.Ashok, N.Swathi, **M.Tirumala Devi**, T.Sumathi Uma Maheswari, Reliability of time dependent stress strength system which follow different distributions when the number of cycles follows binomial distribution, *International Journal of Mathematical Archieve*, 8(11), ISSN No.2229-5046, pp:213-217, 2017

25. T.Sumathi Uma Maheswari, N.Swathi, **M.Tirumala Devi**, P.Ashok, Reliability analysis of time dependent stress strength system when the number of cycles follows binomial distribution, *International Journal of Statistics and Systems*, ISSN No.0973-2675, Vol 12, pp: 575-583, Research India Publications, 2017

26. **M.Tirumala Devi**, T.Sumathi UmaMaheswari, N.Swathi, Cascade system reliability with stress & strength follow lindley distribution, *International Journal Engineering Research& Technology*, Volume 5, Issue 9, ISSN 2278-0181, September -2016

27. N.Swathi, T.S.Uma Maheswari, **M.Tirumala Devi**, Reliability model of time dependent stress strength system, *Special Issue on Computational Science, Mathematics and Biology, JCSME-SCSMB-16*, ISSN-2349-8439, March-2016

28. N.Swathi, T.S.Uma Maheswari, **M.Tirumala Devi**, Reliability analysis of time dependent system when the number of cycles follow binomial distribution and stress-strength follow pareto distribution, *Mathematical Sciences International Research Journal*, Vol 5, Spl iss, 2016

29. **M.Tirumala Devi**, K.Sandhya, T.Sumathi Uma Maheswari, Reliability of a system with m-stresses and n-strengths, *OPSEARCH Springer* , 49(4): 463-481, Oct- Dec, 2012

30. N.Swathi, T.Sumathi Uma Maheswari, **M.Tirumala Devi**, K.Sandhya, P.Hari Prasad, Reliability of time dependent system when stress and strength follow extreme value distribution, *Proceedings of National seminar on Mathematical modeling in Science and Technology*, TheTechnological institute of Textile and Sciences, Bhiwani, Haryana, August 18, 2012

31. P.Hari Prasad, T.S Uma Maheswari, **M.Tirumala Devi**, N.Swathi, K.Sandhya, Reliability Computations for shearing stress in Beams, *Proceedings of the International Conference on Mathematical modeling and applied soft computing*, July 11-13, 2012.

32. N.Swathi, T.S Uma Maheswari, **M.Tirumala Devi**, K.Sandhya, P.Hari Prasad, Reliability of Time dependent system when stress and strength follow Pareto distribution, *Proceedings of the International Conference on Mathematical modeling and applied soft computing*, July 11-13, 2012.

33. **M.Tirumala Devi**, T.S. Uma Maheswari, K.Sandhya, N.Swathi, P.Hari Prasad, Reliability of a cascade system with Extreme value distributed stress and strength, *Proceedings of the International Conference on Mathematical modeling and applied soft computing*, July 11-13, 2012.

34. K.Sandhya, **M.Tirumala Devi**, T.S.Uma Maheswari, Reliability of n- cascade system under stress attenuation with extreme value distributed stress and weibull strength, *Proceedings of the International Conference on Mathematics in Engineering and Business Management*, March 9-10, 2012.

35. N.Swathi, T.Sumathi Uma Maheswari, **M.Tirumala Devi**, Reliability of time dependent stress and strength for deterministic and random cycles, *CiiT International Journal of Programmable Device Circuits and Systems*, vol. 4, No. 2, February 2012.

36. **M.Tirumala Devi**, K.Sandhya, T.S.Uma Maheswari, N.Swathi, Reliability of a Cascade system with stress and strength follow Pareto distribution, *CiiT International Journal of Programmable Device Circuits and Systems*, vol. 4, No. 2, February 2012.

37. **M.Tirumala Devi**, K.Sandhya, T.S.Uma Maheswari, Reliability of n-Cascade system when stress and strength follow extreme value distribution, *CiiT International Journal of Software Engineering and Technology*, 17[th]December, 2011.

38. Zeenath Farheen, T.S.Uma Maheswari, **M.Tirumala Devi**, Post optimal analysis for transportation problem, *International Journal of Agricult.Stat Sci*. Vol.5 No.2, 2009.

39. Zeenath Farheen, T.S.Uma Maheswari, **M.Tirumala Devi**, Post Optimal analysis for non linear programming problems using wolf's modified simplex method, *International Journal of Logic Based Intelligent Systems*, Vol.2, No.2, December 2008

40. Zeenath Farheen, T.S.Uma Maheswari, **M.Tirumala Devi**, Structural changes in a linear programming problem of a post optimal solution, *International Journal of applied Mathematical Analysis and Applications*, Vol.3, No.2, pp 167-171, July-Dec 2008.

AS RESOURCE PERSON

1. One day workshop ANWESH – Career as Mathematician, Organized by Department of Mathematics, Government Degree College, Mancherial on 26th November, 2016
2. One day district level workshop on CBCS syllabus, Organized by Department of Mathematics, Government Degree College for Women, Khammam on 29th September, 2016
3. One day departmental conference on implementation of CBCS for UG courses in Mathematics, Organized by Department of Mathematics, Kakatiya University on 24th August, 2016

ACADEMIC ASSOCIATION

1. A life member in Andhra Pradesh Society for Mathematical Sciences, Osmania University, Hyderabad
2. A life member in The Indian Science Congress Association, Kolkata
3. Member in Departmental Research Committee