

Curriculum Vitae

Name: **K.V.L.N.ACHARYULU**

Qualifications: **M.Sc; M.Phil; Ph.D**

Address: **Assistant Professor,**
Dept. of Mathematics,
Bapatla Engineering College,
Bapatla-522101,
Andhra Pradesh, INDIA
Email: **kvlna@yahoo.com**



Teaching Experience: 11 years

- One year worked as a Lecturer in Mathematics, National Institute of Mathematics & Sciences
- Worked as a Lecturer in Mathematics, Bapatla Engineering College :**2001-2011**
- Promoted as Assistant Professor in Mathematics, Bapatla Engineering College: **2012**

Courses Taught:

- * **U.G (B.Tech):-** M-I, M-II, M-III, M-IV, CBNM, Probability & Statistics and Operations Research
- * **P.G:** ADM, DE, OR, Coding Theory, Partial Differential Equations, Real Analysis-I & II.

Research Experience: 10 years

Educational profile:

- M.Sc (A.O. Mathematics) First Class-Bapatla Engineering College (ANU): **1997-1999**
- M.Phil (Mathematics) First Rank-R.K.M. Vivekananda College (Madras University): **2000-2001**
- Ph.D (Mathematics)-Acharya Nagarjuna University: **2011**

Research Profile:

- ❖ Number of International Publications- **44**
- ❖ Member of Editorial Boards- **20**
- ❖ Member of Reviewer Boards- **21**
- ❖ Member of professional Bodies- **18**
- ❖ Participated in some seminars and presented papers on various topics

Research Areas:

Mathematical Ecology, Mathematical Biology, Mathematical Modeling and Bio-Science

Research Guide:

Prof. N.Ch.Pattabhi Ramacharyulu,

Professor (Retd.) of Mathematics, Dept. of Mathematics, National Institute of Technology (N.I.T), Warangal, India

List of Publications:

- (with N.Ch. Pattabhi Ramacharyulu) On The Stability of An Enemy-Ammensal Species Pair with Limited Resources, International Journal of Applied Mathematical Analysis and Applications, Volume 4, No.2, pp. 149-161, July 2009.
- (with N.Ch. Pattabhi Ramacharyulu) An Ammensal-Enemy Specie Pair With Limited And Unlimited Resources Respectively-A Numerical Approach, Int. J. Open Problems Compt. Math (IJOPCM), Vol. 3, No. 1, pp.73-91, March 2010.
- (with N.Ch. Pattabhi Ramacharyulu) In View of The Reversal Time Of Dominance In An Enemy-Ammensal Species Pair With Unlimited And Limited Resources Respectively For Stability By Numerical Technique, International journal of Mathematical Sciences and Engineering Applications(IJMSEA), Vol.4, No. II, pp.109-131, June 2010.
- (with N.Ch. Pattabhi Ramacharyulu) On The Stability of an Ammensal - Enemy Species Pair With Unlimited Resources, International e Journal of Mathematics and Engineering, Volume-1, Issue-II, pp-140-149, 2010.
- (with N.Ch. Pattabhi Ramacharyulu) Some Threshold Results for an Ammensal- Enemy Species Pair with Limited Resources, International Journal of Scientific Computing (IJSC), pp.33-36, Jan-June 2010.
- (with N.Ch. Pattabhi Ramacharyulu) On the Stability of an Ammensal- Harvested Enemy Species Pair with Limited Resources, International Journal of computational Intelligence Research (IJCIR), Vol. 6, No.3, pp.343-358, June 2010.
- (with N.Ch. Pattabhi Ramacharyulu) Liapunov's Stability Analysis on the Stability of an Ammensal-Enemy Species Pair with Limited Resources, International Journal of Mathematics and Engineering, Volume-1, Issue-III, pp.240-245, 2010.
- (with N.Ch. Pattabhi Ramacharyulu) On The Carrying Capacities Of An Ammensal And Enemy Species Pair With Limited Resources At Low Ammensalism - A Numerical Approach, International Journal of Mathematics and Applications, Vol.3, No.1, pp.15-22, Jan-June 2010.
- (with N.Ch. Pattabhi Ramacharyulu) A Study On The Global Stability Of An Ammensal Species With Unlimited Resources - The Enemy Species With Limited Resources, International Journal Of Mathematics And Engineering, Volume-1, pp.Issue-IV, pp.498-505, 2010.
- (with N.Ch. Pattabhi Ramacharyulu) On The Stability Of Harvested Ammensal - Enemy Species Pair with Limited Resources, International Journal of Logic Based Intelligent Systems, Vol.4, No.1, pp.1-16, 2010.
- (with N.Ch. Pattabhi Ramacharyulu) Liapunov's Function for Global Stability of Harvested Ammensal and Enemy Species Pair with Limited Resources, International Review of pure and applied mathematics, July-Dec.2010. (In press)
- (with N.Ch. Pattabhi Ramacharyulu) On The Stability Of An Enemy - Ammensal Species Pair with Resources Limited for One Species and Unlimited for the other, International e Journal of Mathematics and Engineering Volume-1, Issue-I, pp.1-14, 2010.

- (with N.Ch. Pattabhi Ramacharyulu) On The Stability of an Ammensal- Enemy Harvested Species Pair with Limited Resources, Int. J. Open Problems Compt. Math (IJOPCM), Vol. 3, No. 2, pp.241-266, June2010.
- (with N.Ch. Pattabhi Ramacharyulu) An Ammensal Species With Limited Resources And Enemy Species With Unlimited Resources - Global Stability Analysis, International e Journal of Mathematics and Engineering, Volume-1, Issue-III, pp.241-256, 2010.
- (with N.Ch. Pattabhi Ramacharyulu) An Enemy- Ammensal Species Pair With Limited Resources –A Numerical Study, Int. J. Open Problems Compt. Math (IJOPCM), Vol. 3, No. 3, pp.339-356, September 2010.
- (with M. Lakshmi Sailaja & N.Ch Pattabhi Ramacharyulu)A Cover Protected Ammensal with Constant Harvesting Rate and Enemy Species Pair with Limited Resources, International e Journal of Mathematics and Engineering , Volume-1,Issue-IV, pp.577-591,2010.
- (with M. Lakshmi Sailaja, N.Rama Gopal and P.Rama Mohan), Ecological Ammensal Model With Reserve for One Species and Harvesting both The Species at Variable Rates, International Journal of Advances in Soft Computing and Its Applications, Vol.3, No.3, 2010.
- (with M.Lakshmi Sailaja & N.Ch Pattabhi Ramacharyulu),A Mathematical Model of Ecological Ammensalism for Three Interacting Species with Harvesting at Variable rates, International Journal of Mathematics and Engineering, Volume-1, Issue-IV, pp.639-662, 2010.
- Global Stability Analysis on Ecological Immigrated Ammensalism, International Journal of Advanced Engineering Technology, Volume II, Issue I, January-March, pp.203-208, 2011.
- (with N.Ch Pattabhi Ramacharyulu) An Immigrated Enemy- Ammensal Model with Mortality Rate for Ammensal species, Journal of Engineering Research and Studies, Volume II, Issue I, January-March, pp.139-146, 2011.
- (with N.Ch. Pattabhi Ramacharyulu)On An Ammensal-Enemy Ecological Model with Variable Ammensal Coefficient, International Journal of Computational Cognition, Vol.9, No.2, pp.9-14, 2011.
- (with N.Ch. Pattabhi Ramacharyulu) ,A Migrated Ammensal and an Immigrated Enemy and model With limited resources International Journal of Advanced Engineering Technology, Volume II, Issue I, January-March, pp.176-184, 2011.
- (with N.Ch Pattabhi Ramacharyulu) A Three Species Ecological Ammensalism with Mortality Rate for Prey, Journal of Engineering Research and Studies, Volume II, Issue I, January-March, pp.71-75, 2011.
- (with N.Ch. Pattabhi Ramacharyulu) A Numerical Approach on an Enemy - Ammensal Species Pair with Unlimited Resources, International Journal of Mathematics and Applications, Vol.4, No.1, Jan-June 2011.
- (with N.Ch. Pattabhi Ramacharyulu) Global Stability Analysis on an Ammensal- Enemy Species Harvested Pair with Limited Resources, Journal of Analysis and computation, 2011.(Accepted)
- A Two Species Monad Ammensalism -Global Stability Analysis, International Journal Of Mathematics And Engineering, Volume II, Issue I,pp.866 - 872,2011.

- (with N.Ch. Pattabhi Ramacharyulu), Some Threshold Results of An Ammensal-Enemy Ecological Model With Variable Ammensal Coefficient, Global Journal of Mathematical Sciences: Theory and Practical (GJMS), 2011.(In press)
- (with N.Ch Pattabhi Ramacharyulu) A Complex Case in Three Species Ammensal Ecosystem, International Journal of Advanced Engineering Technology, Volume II, Issue I, January-March, pp163-168, 2011.
- An Enemy And Time Delayed Ammensal Species Pair- Liapunov's Stability Analysis International Journal Of Mathematics And Engineering, Volume II, Issue I, pp. 809 - 813, 2011.
- (with N.Ch. Pattabhi Ramacharyulu),An Ammensal-prey with three Species Ecosystem, International Journal of Computational Cognition ,Vol.9, No.2, pp.30-39,2011.(In press)
- (with N.Ch Pattabhi Ramacharyulu) An Immigrated Ecological Ammensalism with Limited Resources, International Journal of Advanced Science and Technology (IJAST), Vol. 27, pp.79-85, February, 2011.
- (with N.Ch Pattabhi Ramacharyulu) ,Stability Case in a Mathematical Model of Time Delayed Ammensal and an Enemy Ecological Species with Limited Resources,Journal of Engineering Research and Studies (JERS) Volume II, Issue II,PP.28-33, April-June, 2011.
- (with N.Ch Pattabhi Ramacharyulu) ,An Ecological Ammensalism with Replenishment Rate for Both the Species -A Recursive and Numerical Study, International Journal of Advanced Engineering Technology (IJAET), Volume II, Issue II, April-June,pp.20-26, 2011.
- (with N.Ch Pattabhi Ramacharyulu), Special Cases in a Mathematical Model of an Ecological Ammensalism with Unlimited Resources -A Numerical Study, International journal of Applied Mathematics (IJAM))(In press).
- (with N.Ch Pattabhi Ramacharyulu),Mortal Ammensal and an Enemy Ecological Model with Immigration for Ammensal Species at a Constant Rate, International Journal of Bio-Science and Bio-Technology (IJBSBT) (In press).
- (with N.Ch Pattabhi Ramacharyulu),Liapunov's Stability Analysis On The Stability Of An Ammensal-Enemy Species Pair With Limited Resources"- International e Journal Of Mathematics And Engineering, Volume-1, Issue-III, pp.240-245, 2010.
- (with N.Ch Pattabhi Ramacharyulu),An Immigrated Ecological Ammensalism with Limited Resources"- International Journal of Advanced Science and Technology (IJAST) Vol. 27, pp.87-92, 2011.
- (with N.Ch Pattabhi Ramacharyulu),A Study on Global Stability of the Harvested Enemy and An Ammensal Species Pair with Limited Resources"- International Journal of Mathematics Research (IJMSR) (In press).
- (with N.Ch Pattabhi Ramacharyulu),An Ecological Mathematical Model of an Immigrated Ammensal and a Migrated Enemy Model with Mortality Rate for Ammensal Species-An Analytical Investigation, Int. J. Pure Appl. Sci. Technol., 4(2), pp. 71-84,2011.

- (with N.Ch Pattabhi Ramacharyulu), **A Monad Ammensalism With Reserve For Ammensal Species And Harvesting For The Both The Species At Variable Rates”- International e Journal Of Mathematics And Engineering (IeJMAE)**
- (with N.Ch Pattabhi Ramacharyulu), **A Two Species Ecological Ammensalism with Decay for Ammensal Species and Replenishment Rate for Both the Species -A Recursive and Numerical Approach”- International Journal of Advanced Engineering Technology (IJAET), Volume II, Issue III, pp. 143-147, July-2011.**
- (with N.Ch Pattabhi Ramacharyulu), **A Numerical Study on an Ammensal - Enemy Species Pair with Unlimited Resources and Mortality Rate for Enemy Species”- International Journal of Advanced Science and Technology (IJAST), Vol. 30, pp.13-24,May, 2011.**
- **Global Stability Analysis Of A Mortal Ammensal And An Enemy Ecological Model With Immigration For Both The Species”- International journal of Applied Mathematics,(In press).**
- (with N.Ch Pattabhi Ramacharyulu), **An Ecological Ammensalism with Multifarious restraints- A Numerical Study” International Journal of Bio-Science and Bio-Technology (IJBSBT), Vol. 3, No. 2, pp.1-12,June, 2011.**

Member of various Editorial Boards:

- ❖ **Journal of Experimental Sciences**
- ❖ **American Journal of Mathematics and Sciences**
- ❖ **Research, Reviews, and Publications**
- ❖ **ARNP Journal of Engineering and Applied Sciences**
- ❖ **International Journal of Mathematics Trends and Technology**
- ❖ **International Journal of Soft Computing and Engineering**
- ❖ **Rising Research Journal Publications**
- ❖ **International Journal of Contemporary Mathematics**
- ❖ **International Journal of Mathematical Archive**
- ❖ **International Journal of Mathematical Sciences and Applications**
- ❖ **International journal of Research in IT,Management& Engineering**
- ❖ **International Journal of Open Problems in Mathematics and Applications**
- ❖ **Advance Journal of Pure and applied Mathematics: An International Journal**
- ❖ **International Journal of Contributions to Mathematics Teaching**
- ❖ **International Journal of Scientific Computing, computational Mathematics and Numerical Algorithms.**
- ❖ **International Journal of Engineering, Contemporary Mathematics and Sciences**
- ❖ **International Journal of Mathematics, Computing and Engineering Sciences**
- ❖ **International forum of Researchers Students and Academician**
- ❖ **International Journal of Computer Engineering Science**

❖ **International Journal Of Computational Engineering Research**

Member of different Reviewer Boards:

- * **Canadian Research & Development Center of Sciences and Cultures:Applied Mathematics**
- * **Canadian Research & Development Center of Sciences and Cultures:Mathematical Sciences**
- * **Armenian Journal of Mathematics**
- * **International Journal of Mathematical sciences and Engineering applications**
- * **International journal of Research in IT, Management& Engineering**
- * **International Journal of Research in Social Sciences**
- * **Indian Journal of Science and Technology**
- * **International Journal of Marketing And Technology**
- * **International Journal of Contemporary Advanced Mathematics**
- * **International Journal of Open Problems in Computer Science and Mathematics**
- * **Journals of Biological and Life Sciences in WASET**
- * **International Journal of Advanced Engineering Technology**
- * **International Journal of Advanced Biological Research**
- * **Global Journal of Engineering and Applied Sciences**
- * **Journal of Engineering Research and Studies**
- * **Global Journal of Mechanical Engineering and Computational Science**
- * **International Journal of Environmental Science and Technology**
- * **Academic Journals**
- * **International Journal of Pharma and Bio Sciences**
- * **International Journal of Advanced Engineering Research and Studies.**

Founding Member/Life time member/ Member of various professional bodies:

- **International Center for Scientific Research and Studies**
- **Indian Mathematical Society**
- **Ramanujan Mathematical Society**
- **AP Society for Mathematical Sciences**
- **Rajasthan Ganita Parishad**
- **The Association of Mathematics Teachers of India**
- **Dr.M.Aruchami Research Foundation**
- **Allahabad Mathematical Soccity**
- **International association of Engineers**
- **International Electronic Engineering Mathematical. Society**
- **International Journals of Multidisciplinary Research Academy**

- International Mathematical Union
- International Association of Computer Science and Information Technology
- Engineering and Scientific Research Groups
- World Academy of Science, Engineering and Technology
- Seventh Sense Research Group Journals
- Indian Society of Mathematics and Mathematical Sciences
- Research Gate

Presented/Participated in Conferences/Seminars:

- * National Conference on Mathematical Modelling & Simulation conducted by Andhra Pradesh society for Mathematical Sciences at Khammam, December 9-12, 2011.
- * National Conference on Mathematical Solutions Using Soft Computing Problems in Science and Technology conducted by Andhra Pradesh society for Mathematical Sciences at Visakhapatnam. December 11-13, 2009.
- * International Conference on Number Theory conducted by RKM Vivekananda College, Chennai, sponsored by NBHM in the year 2006.
- * One of the organizers of "Short term training program on theory of computer science for P.G. Teachers of affiliated colleges of Acharya Nagarjuna University" conducted by Department of Mathematics and Department of Computer science and Engineering in collaboration with Dept. of Mathematics, Acharya Nagarjuna University held during 22-27 Nov 2004 at Bapatla Engineering College, Bapatla.
- * Off-campus workshop on Coding Theory conducted by Nagarjuna University at Sarada Degree College, Vijayawada in the year 2003.
- * National Conference on Julia Sets conducted under the special Assistance program of UGC by the Dept. of Mathematics, University of Hyderabad in the year 2002.

Felicitations/Honours:

- Felicitated by *Bhavapuri Rachayitala Sangam* on 25-09-2011 for the remarkable research in Mathematical Modeling.
- Honored by *Grama Siri*, a social well fare organization on 02-10-2011 for the achievement in the field of Education.

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