

## CURRICULUM VITAE

**Dr. B. Ravindra Reddy**

**M.Sc., Ph.D.**

Professor & Chairman, Board of Studies  
Department of Mathematics,  
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### Academic Qualifications:

- **Ph.D. (Mathematics)** from Osmania University, Hyderabad in **April, 2009**.
- **M.Sc. (Mathematics)** from Pondicherry Central University in **1998** with an aggregate of **7.72 out of 10** (CGPA).
- **B.Sc. (M.P.C)** from JVR Govt. Degree College, Sathupally with an aggregate of **73%**.

### Teaching Experience: 24 years

- Working as **Professor of Mathematics**, JNTUH University College of Engineering Hyderabad from 8<sup>th</sup> July 2021 to till date.
- Worked as Associate Professor of Mathematics, JNTUH University College of Engineering Hyderabad from 8<sup>th</sup> July 2018 to 7<sup>th</sup> July 2021.
- Worked as Assistant Professor of Mathematics, JNTUH University College of Engineering Hyderabad from 11<sup>th</sup> July, 2017 to 7<sup>th</sup> July 2018.
- Worked as Assistant Professor of Mathematics in JNTUH University College of Engineering Jagtial, Nachupally (Kondagattu), Karimnagar District from 8<sup>th</sup> July, 2010 to 10<sup>th</sup> July 2017.
- Worked as Associate Professor of Mathematics in Vidya Jyothi Institute of Technology, Hyderabad from 1<sup>st</sup> June, 2006 to 7<sup>th</sup> July, 2010.
- Worked as Assistant Professor of Mathematics in Vidya Jyothi Institute of Technology, Hyderabad from 20<sup>th</sup> November, 2000 to 31<sup>st</sup> May, 2006.

- Worked as Lecturer in Mathematics in Navabharath Degree College, Sathupally **from 14<sup>th</sup> June, 1998** to 19<sup>th</sup> November, 2000.

### **Administrative Experience / Additional Duties:**

- Chairman, Board of Studies in Mathematics, JNTUH from 02-05-2022 to till date.
- Deputy Director, Directorate of Research and Development, JNTUH from 19<sup>th</sup> October 2021 to 30<sup>th</sup> April, 2022.
- Additional Controller of Examinations in JNTUH, University Examination Branch, Kukatpally, Hyderabad from 11<sup>th</sup> July, 2017 to 18<sup>th</sup> October 2021.
- Co-ordinator for TS EAMCET-2020.
- Chairman, Class Review Committee for I B.Tech in JNTUH University College of Engineering Jagtial from 11-01-2012 to 01-12-2015.
- Head, Department of Mathematics in JNTUH University College of Engineering Jagtial from 03-11-2014 to 21-12-2016.
- In-charge Head, Department of English and Humanities in JNTUH University College of Engineering Jagtial from 10-11-2014 to 01-04-2017.
- Officer, Library-In-Charge in JNTUH University College of Engineering Jagtial from 27-04-2017 to 10-07-2017.
- Head, Department of Humanities & Sciences in Vidya Jyothi Institute of Technology, Hyderabad from 20<sup>th</sup> August, 2008 to 7<sup>th</sup> July, 2010.

### **Ph.D.'s Guided: 06**

- **Six students** awarded Ph.D. from JNT University Hyderabad.

### **Ph.D.'s Guiding: 06**

- Guiding 06 students in the area of Mathematical Modeling from JNT University Hyderabad.

### **Members in Professional Bodies:**

- Life member of Andhra Pradesh Society for Mathematical Sciences (APSMS)
- Life member of Indian Society for Technical Education (ISTE).

## **Publications: 68**

- 1 **B. Ravindra Reddy**, K.Lakshmi Narayan, K. Narismha Reddy and N. Ch. Pattabhi Ramachryulu, A model of two mutually interacting species with limited resources for both the species, International Journal of Engg. Research & Indu. Appls. (IJERIA), Vol.2, No.II (2009), pp 281-291, ISSN 0974-1518.
- 2 **B. Ravindra Reddy**, K. Lakshmi Narayan and N. Ch. Pattabhi Ramachryulu, A model of two mutually interacting species with limited resources and harvesting of both the species at a constant rate, International J. of Math. Sci. & Engg. Appls. (IJMSEA), Vol. 4 No. III (August, 2010), pp. 97-106, ISSN 0973-9424.
- 3 **B. Ravindra Reddy**, K. Lakshmi Narayan and N. Ch. Pattabhi Ramachryulu, A model of two mutually interacting species with limited resources and a time delay, Advances in Theoretical and Applied Mathematics, Volume 5, Number 2 (2010), pp. 121–132, ISSN 0973-4554.
- 4 **B. Ravindra Reddy**, Stability Analysis of two mutually interacting Species with Unlimited Resources for both the Species, Journal of Experimental Sciences 2012, 3(2): 24-28, ISSN 2218-1768.
- 5 N. Phani Kumar, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramachryulu, Global Stability of a Commensal – Host ecological model with limited resources and both are harvesting at a constant rate, International eJournal of Mathematics and Engineering 35 (2010) 346 – 354, ISSN 0976-1411.
- 6 **B. Ravindra Reddy**, A Model of two mutually interacting Species with Mortality Rate for the Second Species, Advances in Applied Science Research, 2012, (2):757- 764, ISSN 0976-8610.
- 7 **B. Ravindra Reddy**, K.Lakshmi Narayan and N. Ch. Pattabhi Ramachryulu, On Global stability of two mutually interacting species with limited resources for both the species, Internatioonal Journal of Contemporary Mathematical Sciences, Vol.6, 2011, no.9, 401-407, ISSN 1312-7586.
- 8 **B. Ravindra Reddy**, N. Phani Kumar and N. Ch. Pattabhi Ramachryulu, A model of two mutually interacting species with limited resources of first species and unlimited for second species, ARPN Journal of Engineering and Applied Sciences, Vol.6, No.1, January, 2011, 61-66, ISSN 1819-6608.

- 9 N. Phani Kumar, **B. Ravindra Reddy**, C. Srinivasa Kumar and N. Ch. Pattabhi Ramacharyulu, Global Stability of a Commensal – Host ecological model with a host harvesting at a constant rate, International eJournal of Mathematics and Engineering 60 (2010) 610 – 615, ISSN 0976-1411.
- 10 N. Phani Kumar, C. Srinivasa Kumar, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramacharyulu, Global Stability of an immigrating Commensal – Host model with limited resources, International eJournal of Mathematics and Engineering 95 (2011) 889 – 894, ISSN 0976 – 1411.
- 11 N. Phani Kumar, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramacharyulu, A two species commensalism model with limited resources-A numerical approach, ARPN Journal of Engineering and Applied Sciences, Vol.6, No.2, February, 2011, 24-30, ISSN 1819-6608.
- 12 R. Srilatha, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramacharyulu, A mathematical model of four species syn-ecosymbiosis comprising of Prey-Predation, Mutualism and Commensalisms-I (Fully Washed Out State), ARPN Journal of Engineering and Applied Sciences, Vol.6, No.4, April, 2011, 42-48, ISSN 1819-6608.
- 13 R. Srilatha, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramacharyulu, A mathematical model of four species syn-ecosymbiosis comprising of Prey-Predation, Mutualism and Commensalisms-III (Two of the Four Species are washed out States), Advances in Applied Science Research, 2011, 2 (3): 151-165, ISSN 0976-8610.
- 14 **B. Ravindra Reddy**, R. Srilatha, K. Lakshmi Narayan and N. Ch. Pattabhi Ramacharyulu, A model of two mutually interacting species with Harvesting, Atti Della “Fondazione Giorgio Ronchi”, ANNO LXVI, 2011 - N. 3, 317-331, ISSN 0391-2051.
- 15 R. Srilatha, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramacharyulu, A Mathematical syn-ecological model comprising of Prey-Predator, Host-Commensal, Mutualism and Neutral pairs, International Journal of Mathematical Archive-3(4), 2012, page: 1502-1512, ISSN 2229-5046.

- 16 **B. Ravindra Reddy**, Stability Analysis of Mathematical Syn-Ecological Model comprising of Prey-Predator, Host-Commensal, Mutualism and Neutral Pairs-II (Three of the four species are washed out states), International Journal of Engineering Science and Mathematics, Vol.2, Issue1, Mar 2013,119-129, ISSN 2320-0294.
- 17 **B. Ravindra Reddy**, Stability Analysis of Mathematical Syn-Ecological Model comprising of Prey-Predator, Host-Commensal, Mutualism and Neutral Pairs-III (Two of the four species are washed out states), International Journal of Engineering Science and Mathematics, Vol. 2, Issue1, Mar 2013, 103-118, ISSN 2320-0294.
- 18 **B. Ravindra Reddy**, R. Srilatha, Stability Analysis of Mathematical Syn-Ecological Model comprising of Prey-Predator, Host-Commensal, Mutualism and Neutral Pairs-IV(One of the four species are washed out states), Int. J. of Engg. Science and Innovative Technology, Volume 2, Issue 1, January 2013, 216-226, ISSN 2319-5967.
- 19 **B. Ravindra Reddy**, A discrete host Commensal species with limited resources and Mortality rate for the host, International Journal of Mathematics and Computer Applications Research (IJMCAR), Vol. 3, Issue 1, Mar 2013, 179-184, ISSN 2249-6955.
- 20 **B. Ravindra Reddy**, A model of two mutually interacting species with limited resources for both the species – A numerical approach, International Journal of Mathematics and Computer Applications Research (IJMCAR), Vol. 3, Issue 1, Mar 2013, 185-192, ISSN 2249-6955.
- 21 R. Srilatha, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramacharyulu, A Discrete Host-Commensal species with limited resources and mortality rate for the Commensal, International Journal of Mathematics Trends and Technology, Vol.4, Issue 1, 2013, 10-15, ISSN 2231-5373.
- 22 R. Srilatha, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramacharyulu, A Stochastic Analysis of Two Competitive Interacting Species with Bionomic Harvesting of Both the Species, International Journal of Statistika and Matematika, Vol.5, Issue 2, pp 39-44, ISSN: 2277- 2790 E-ISSN: 2249-8605.
- 23 **B. Ravindra Reddy**, Some Threshold Theorems for a Prey-Predator Model with an Optimal Harvesting of the Predator, International journal of Advanced Research in Engineering and Applied Sciences, Vol.2, No.3, March 2013, 5-22, ISSN 2278-6252.

- 24 **B. Ravindra Reddy**, Global stability analysis of two mutually interacting species pair with monad type-variable coefficient of one of the species, International journal of Advanced Research in Engineering and Applied Sciences, Vol.2, No.3, March 2013, 23-31, ISSN 2278-6252.
- 25 R. Srilatha, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramacharyulu, Stability Analysis of Four Species Syn-Ecological Model comprising of Prey-Predation, Mutualism and Commensalisms, International Journal of Mathematics and Computer Applications Research (IJMCAR), Vol. 3, Issue 1, Mar 2013, 249-264, ISSN 2249-6955.
- 26 **B. Ravindra Reddy**, Stability Analysis of two Competitive Interacting Species with Optimal and Bionomic Harvesting of the Second Species, International Journal of Mathematics Trends and Technology, Vol.4, Issue 2, 2013, 26-34, ISSN 2231-5373.
- 27 **B. Ravindra Reddy**, Stability Analysis of Mathematical Syn-Ecological Model comprising of Prey-Predator, Host-Commensal, Mutualism and Neutral Pairs-I(Fully washed out state), Int. J. of Research in IT, Management & Engg, Volume3, Issue3, 58-67, ISSN 2249-1619.
- 28 **B. Ravindra Reddy**, Stability Analysis of Mathematical Syn-Ecological Model Comprising of Prey-Predator, Host-Commensal, Mutualism and Neutral Pairs-V (The Co-Existent State), Int. J. of IT, Engineering and Applied Science Research, Volume 2, No. 4, April 2013, 1-5, ISSN 2319-4413.
- 29 **B. Ravindra Reddy**, Stability Analysis of two Competitive Interacting Species with Optimal and Bionomic Harvesting of the first Species, International Journal of Mathematical Achieve, 4(4), 2013, 126-135, ISSN 2229-5046.
- 30 R. Srilatha, **B. Ravindra Reddy** and N. Ch. Pattabhi Ramacharyulu, A model of two mutually interacting species pair with Monad type-variable coefficient of one of the species, International Journal of Mathematics and Computer Applications Research (IJMCAR), Vol. 3, Issue 2, Jun 2013, 121-132, ISSN 2249-6955.
- 31 **B. Ravindra Reddy**, Some Threshold Theorems for a Prey-Predator Model with an Optimal Harvesting of the Prey, International Journal of Mathematics and Computer Research, Vol. 1, Issue 3, April 2013, 129-137, ISSN 2320-7167.

- 32** R. Srilatha and **B. Ravindra Reddy**, Stability Analysis of Three Species Model in Series Mutualism with Bionomic and Optimal Harvesting of Two Terminal Species, International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 2, Issue 12, December 2014, PP 1043-1052, ISSN 2347-307X (Print) & ISSN 2347-3142 (Online)
- 33** **V. Anand**, N. Ch. Pattabhi Ramacharyulu and **B. Ravindra Reddy**, Mathematical Model of Glucose and Insulin Kinetics, International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 3, Issue 1, January 2015, PP 60-66, ISSN 2347-307X(Print) & ISSN 2347-3142 (Online).
- 34** G. Ranjith Kumar, K. Lakshmi Narayan and **B. Ravindra Reddy**, Stability Analysis of an SIR Epidemic Model, International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 3, Special Issue 1, July 2015, PP 323-327, ISSN 2347-307X(Print) & ISSN 2347-3142 (Online).
- 35** Karuna BNR, K. Lakshmi Narayan and **B. Ravindra Reddy**, Stability Analysis of a Viral Inspection Model with delay for CTL response, International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 3, Special Issue 1, July 2015, PP 264-267, ISSN 2347-307X(Print) & ISSN 2347-3142 (Online).
- 36** G. Ranjith Kumar, K. Lakshmi Narayan and **B. Ravindra Reddy**, Mathematical Study of an SIR Epidemic Model With Nonmonotone Saturated Incidence Rate and White Noise, Research Journal of Pharmacy and Technology, Vol:9 No:11, pp-1575-1580, Nov, 2016.
- 37** G. Ranjith Kumar, K. Lakshmi Narayan and **B. Ravindra Reddy**, Stability and Hopf bifurcation analysis of SIR epidemic model with time delay, ARPN Journal of Engineering and Applied Sciences, Vol 11, No.3, pp-1419-1423, Feb 2016.
- 38** G. Ranjith Kumar, K. Lakshmi Narayan and **B. Ravindra Reddy**, Dynamics of an SIR Epidemic Model With a Saturated Incidence Rate Under Stochastic Influence, Global Journal of Pure and Applied Mathematics (GJPAM) Volume 11, Number 2, pp-175-179, (2015)
- 39** G. Ranjith Kumar, K. Lakshmi Narayan and **B. Ravindra Reddy**, Dynamics of SIRs Epidemic Model under Treatment with Saturated Incidence Rate, International Journal of Ecological Economics & Statistics (IJEES), Volume.38, Issue No.2; 2017.

- 40 G. Ranjith Kumar, K. Lakshmi Narayan and **B. Ravindra Reddy**, “Dynamics of an SIS Epidemic Model With A Saturated Incidence Rate Under Time Delay and Stochastic Influence”, International Journal of Pure and Applied Mathematics (IJPAM), volume 112, No. 4, 2017, 695-708
- 41 Karuna BNR, K. Lakshmi Narayan and **B. Ravindra Reddy**, Stability Analysis of a Viral Model with Intercellular Delay, Research Journal of Science and Technology, Vol.09, Issue-03, July-September 2017, pp 435440, ISSN 2349-2988.
- 42 Karuna BNR, K. Lakshmi Narayan and **B. Ravindra Reddy**, Deterministic and Stochastic Dynamics of an Eco-epidemiological Model, International Journal of Mathematics and its Applications, Volume 5, Issue 4-E (2017), 801-808, ISSN: 2347-1557.
- 43 K. Madhusudhan Reddy, K. Lakshmi Narayan and **B. Ravindra Reddy**, A delayed SIS Epidemic Model with Non-Linear Incidence Rate, International Journal of Pure and Applied Mathematics (IJPAM), volume 118, No. 2, 2018, 419-427.
- 44 K. Madhusudhan Reddy, K. Lakshmi Narayan and **B. Ravindra Reddy**, Mathematical Study of a Deterministic SIR Epidemic Model with Modified Non-Linear Incidence Rate, International J. of Math. Sci & Engg. Appls. (IJMSEA), ISSN 0973-9494, Vol. 10, No. III (December, 2016), pp 47-55.
- 45 K. Madhusudhan Reddy, K. Lakshmi Narayan and **B. Ravindra Reddy**, Stability Analysis of an SIRS Model with Saturated Incidence Rate and Treatment, Research J. Pharm. and Tech. 10(10): October, 2017.
- 46 Karuna BNR, K. Lakshmi Narayan and **B. Ravindra Reddy**, A Mathematical study of an infectious disease model with time delay in CTL response, Global Journal of Pure and Applied Mathematics (GJPAM), ISSN: 0973-1768, Volume 11, Number 2 (2015).
- 47 V. Vidyasagar, Madhu Latha K, **B. Ravindra Reddy**, Solving Singularity Perturbed Differential – Difference Equations using Special Finite Difference Method, International Journal of Emerging Technology and Advanced Engineering, ISSN: 2250-2459, Volume 7, Issue 9, September, 2017.

- 48 V. Vidyasagar, Madhu Latha K, **B. Ravindra Reddy**, Non-Symmetric Special Second Order Fitted Method for Singularity Perturbed Differential – Difference Equations, Journal of Advanced Research in Dynamical and Control Systems, Vol.9, Issue 1, Oct. 2017.
- 49 Karuna BNR, K. Lakshmi Narayan and **B. Ravindra Reddy**, Stability Analysis of an HBV Model with Delay in Viral Production, International Journal of Ecology & Development, ISSN 0973-7308, Volume 33, Issue 4, 2018.
- 50 G. Ranjith Kumar, Kalyan Das, K. Lakshminarayan, **B. Ravindra Reddy**, Crowding effects and depletion mechanisms for population regulation in prey-predator intraspecific competition model, Computational Ecology and Software, 2019, 9(1): 19-36.
- 51 K. Madhusudhan Reddy, K. Lakshmi Narayan and **B. Ravindra Reddy**, Dynamics of an SEIR Epidemic Model with Time Delay, Journal of Adv Research in Dynamical & Control Systems, ISSN 1943-023X, Vol. 11, No. 1, 2019.
- 52 V. Vidyasagar, Madhu Latha K, **B. Ravindra Reddy**, Solving Singularity Perturbed Differential – Difference Equations using Numerical Integration Method, International Journal of Applied Engineering Research, ISSN 0993-4562, Volume 13, Number 22 (2018), pp 15956-15960.
- 53 M. Sridevi, **B. Ravindra Reddy**, Stability Analysis of an Epidemic Model with Infected Immigrants and Optimal Vaccination, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-2, July 2019, pp 3071-3077.
- 54 V. Vidyasagar, Madhu Latha K, **B. Ravindra Reddy**, Solution to SPDDE using Exponentially Fitted Spline Method, International Journal of Advanced Science and Technology, ISSN: 2005-4238, Vol. 28, No. 15 (2019), pp.452-468.
- 55 V. Vidyasagar, Madhu Latha K, **B. Ravindra Reddy**, Solving Singularly Perturbed Differential-Difference Equations with Dual Layer Using Fourth Order Numerical Method, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-2, December 2019.

- 56 M. Sridevi, **B. Ravindra Reddy**, Dynamics of an SI model with Time Delay and Diffusion, International Journal of Scientific & Technology Research, ISSN 2277-8616, Vol. 8, Issue 11, November 2019.
- 57 K. Madhusudhan Reddy, K. Lakshmi Narayan and B. Ravindra Reddy, Hopf Bifurcation Analysis and Stochastic Influence of Delayed SIR Model, International Journal of Ecological Economics and Statistics, ISSN 0973 – 7537, 2018, Volume:39, Issue Number:4.
- 58 G. Ranjith Kumar, K. Lakshmi Narayan, Karuna BNR and **B. Ravindra Reddy**, Optimal Control an SIR Epidemic Model under Saturated Treatment Function, Bull. Cal. Math. Soc., 112, (1) 19-30, 2020.
- 59 K. Madhusudhan Reddy, K. Lakshmi Narayan and **B. Ravindra Reddy**, Stability and Hopf Bifurcation Analysis of a Delayed SEIS Model, International Journal of Ecology & Development, ISSN 0973-7308, Volume 36, Issue No.1, 2021.
- 60 M. Sridevi, **B. Ravindra Reddy**, Stability Analysis of Tumor and Immune System Interactions with Treatment, Jour of Adv Research in Dynamical & Control Systems, ISSN 1943-023X, Vol. 12, No.8, 2020.
- 61 M. Sridevi, **B. Ravindra Reddy**, Dynamics of an SIS Epidemic Model with Double Epidemic Hypothesis, International Journal of Ecology & Development, ISSN 0973-7308 (Online), Vol. 35, No.4, 2020.
- 62 **B. Ravindra Reddy**, Dynamics of an Eco-Epidemic Model with Saturated Incidence Rate, International Journal of Ecology & Development, ISSN 0973-7308, Vol. 36, Issue No.3, 2021.
- 63 **B. Ravindra Reddy**, Stability Analysis of Delay Induced Tumor and Immune System Interaction Model, J. Math. Comput. Sci., 11(2021), N0.4, 4552-4562.
- 64 M. Sridevi, **B. Ravindra Reddy**, Hopf Bifurcation Analysis and Stochastic Influence of Cancer Therapy Model, International Journal of Ecological Economics and Statistics, ISSN 0973-7537, Volume 42, Issue No.1, 2021.
- 65 Nalivela Nagi Reddy, Vempati Srinivasa Rao, **B. Ravindra Reddy**, Effect of Heat Generation/Absorption and Radiation on Two-Dimensional Unsteady Magnetohydrodynamic Heat and Mass Transfer Nanofluid Boundary Layer Flow Over a Permeable Shrinking Sheet, Journal of Nano fluids, Vol. 11, pp. 1–12, 2022.

- 66 Nalivela Nagi Reddy, Vempati Srinivasa Rao, **B. Ravindra Reddy**, Impact of Thermal Radiation and Chemical Reaction On MHD Heat and Mass Transfer Casson Nano fluid Flow Past A Stretching Sheet In Presence of Heat Source/Sink, ARPN Journal of Engineering and Applied Sciences, VOL. 16, NO. 11, JUNE 2021.
- 67 Nalivela Nagi Reddy, Vempati Srinivasa Rao, **B. Ravindra Reddy**, Chemical reaction impact on MHD natural convection flow through porous medium past an exponentially stretching sheet in presence of heat source/sink and viscous dissipation, Case Studies in Thermal Engineering, Case Studies in Thermal Engineering, 25 (2021) 100879.
- 68 Nalivela Nagi Reddy, Vempati Srinivasa Rao, **B. Ravindra Reddy**, Velocity slip, chemical reaction, and suction/ injection effects on two-dimensional unsteady MHD mass transfer flow over a stretching surface in the presence of thermal radiation and viscous dissipation, Heat Transfer, 2022;51:1982–2002.

### **Conference Proceedings: 03**

- 1) G. Ranjith Kumar, K. Lakshmi Narayan and **B. Ravindra Reddy**, Stability Analysis of Epidemic Model with Nonlinear Incidence Rates and Immigration, Proceedings of National Conference on Pure and Applied Mathematics, VIT University, 25 -26 April 2014, ISBN 978-93-83459-46-9.
- 2) G. Ranjith Kumar, K. Lakshmi Narayan and **B. Ravindra Reddy**, Stability Analysis of Epidemic Model with Nonlinear Incidence Rates, Proceedings of the National Conference on Recent Trends in Science and Technology (NCRTST 2015), JNTUH College of Engineering Jagtial, 25 - 26 February, 2015, pp.334-336 ISBN 978-93-82570-52-3.
- 3) V. Vidyasagar, Madhu Latha K, **B. Ravindra Reddy**, Solving Singularly Perturbed Differential-Difference Equations with Dual Layer using Exponentially Fitted Spline Method, International Conference on Mathematical Sciences and Applications (ICMSA-2019), AIP Conf. Proc. 2246, 020016-1–020016-6.

### **Papers Presented in various seminars/conferences: 15**

- 1) “Two species model with mutualism” in National Seminar on “Functional analysis and its applications” at Department of Mathematics, O.U, on 24<sup>th</sup> Nov, 2007.
- 2) “A model of two mutually interacting species with variable harvesting rate” in APSMS XVI congress at NGRI, Hyderabad, from 8<sup>th</sup> to 10<sup>th</sup> Dec, 2007.
- 3) “A model of two mutually interacting species with time delay” in 5 – Day National Work Shop on “Mathematical modeling in Biology” at Department of Applied mathematics, Sri Padmavathi Mahila Vishvavidyalayam, Tirupati, from 23<sup>rd</sup> to 27<sup>th</sup> February, 2008.
- 4) “A model of two mutually interacting species with time delay and harvesting” in National Conference on “ Mathematics and its applications to engineering” at Department of Mathematics, Vasavi College of engineering, Hyderabad, from 10<sup>th</sup> to 11<sup>th</sup> March,2008.
- 5) “A model of two mutually interacting species with unlimited resources for both species” in one day symposium on Mathematical Modeling and its Applications at Department of Mathematics, Osmania University, Hyderabad on 30<sup>th</sup> December, 2008.
- 6) “A model of two mutually interacting species with limited resources of first species and unlimited for second species” in APSMS XVII Congress & National Conference on Mathematical Modeling in Emerging Technologies at Malla Reddy Engineering College, Secunderabad from 13<sup>th</sup> to 15<sup>th</sup> February, 2009.
- 7) “Local Stability Analysis of two mutually interacting species” in International Conference on Recent Development in Mathematical Sciences and Their Applications at Calcutta Mathematical Society, Kolkata from 9-11, December 2010.
- 8) “Stability analysis of two mutually interacting species with limited resources for both the species and time delay” in APSMS XXI Congress & National Conference on Applications of Mathematics in Engineering, Physical and Life Sciences, Department of Mathematics, S.V. University, Titupati, Dec 7-9, 2012.
- 9) “A Host Commensal Model with Mortality Rate for both the Species – A Discrete Model” in APSMS XXII Congress & National Conference on Recent Trends in

Applications of Mathematics at Department of Humanities & Sciences, Anurag Group of Institutions, Hyderabad, 13<sup>th</sup> to 15<sup>th</sup> December, 2013.

- 10) “Drug Effects in a Two Compartment Model” in APSMS XXII Congress & National Conference on Recent Trends in Applications of Mathematics at Department of Humanities & Sciences, Anurag Group of Institutions, Hyderabad, 13<sup>th</sup> to 15<sup>th</sup> December, 2013.
- 11) “A Stochastic Competition Model of Two Ecological Species” in APSMS XXII Congress & National Conference on Recent Trends in Applications of Mathematics at Department of Humanities & Sciences, Anurag Group of Institutions, Hyderabad, 13<sup>th</sup> to 15<sup>th</sup> December, 2013.
- 12) “A General Epidemic Model with Removal and Immigration” in APSMS XXII Congress & National Conference on Recent Trends in Applications of Mathematics at Department of Humanities & Sciences, Anurag Group of Institutions, Hyderabad, 13<sup>th</sup> to 15<sup>th</sup> December, 2013.
- 13) “Stability Analysis of Epidemic Model with Non-linear Incidence Rates” in APSMS XXII Congress & National Conference on Recent Trends in Applications of Mathematics at Department of Humanities & Sciences, Anurag Group of Institutions, Hyderabad, 13<sup>th</sup> to 15<sup>th</sup> December, 2013.
- 14) “Mathematical Study of Epidemic Model with Nonlinear Incidence Rates and Immigration” in a Two-Day National Conference on Relevance of English, Mathematics & Management Sciences to Technical Courses at Mahatma Gandhi Institute of Technology, Hyderabad, 3<sup>rd</sup> to 4<sup>th</sup> April 2014.
- 15) Mathematical Study of an SEIR Epidemic Model in International Conference on Research Advancements in Applied Engineering Sciences, Computer and Communication Technologies at BVRIT, Narsapur, Telangana, 12<sup>th</sup> – 13<sup>th</sup> July 2018.

### **Guest Lectures/Invited Talks/Chaired a Session: 05**

- 1) Delivered an invited talk in the “National Seminar on Recent Developments in Mathematics” on “Stability Analysis of two mutually interacting species with mortality rate for the second species” at Department of mathematics, Sri Venkateswara University, Tirupati, December 22-23, 2011.

- 2) Delivered a Lecturer in “One day National Workshop on Mathematical Modeling in Life Sciences” on “Introduction on Basics of Mathematical Modeling” at Department of Humanities and Sciences, Sumathi Reddy Institute of Technology for Women, Warangal, 11<sup>th</sup> to 16<sup>th</sup> June, 2012.
- 3) Delivered a Lecturer in “One week workshop for the Faculty of Engineering Colleges on Engineering Mathematics-I” on “Sequence and Series” at Dept. of Mathematics, JNTUHCE, Jagtial Sponsored by APSICHE, 19-24, November, 2012.
- 4) Chaired a Session in “A two day National Conference on Recent Trends in Science and Technology on Mathematics” at JNTUH College of Engineering Jagtial Sponsored by ISTE, New Delhi during 25<sup>th</sup> to 26<sup>th</sup> February, 2015.
- 5) Chaired a Session in “International Conference on Mathematical Sciences and Applications” at GITAM University, Hyderabad during August 9-11, 2019.

### **Text Books Authored: 02**

- **B. Ravindra Reddy**, Differential Equations, Spectrum University Press, ISBN 978-93-83640-36-2.
- **B. Ravindra Reddy**, Linear Algebra and Calculus for Engineers, Seven Hills International Publishers, ISBN 978-93-83640-20-1.

### **Three weeks RC/OC Programmes Attended:**

- Participated in the “20<sup>th</sup> Orientation Course” from 25-04-2011 to 21-05-2011, at UGC-Academic Staff College, JNTU Hyderabad, Andhra Pradesh.
- Participated in the “Refresher Course” from August 04-24, 2011 at UGC-Academic Staff College, University of Hyderabad, Hyderabad, Andhra Pradesh.
- Participated in the Summer/Winter Course “Research Methodology” from 11-06-2012 to 30-06-2012, at UGC-Academic Staff College, JNTU Hyderabad, Andhra Pradesh.

### **One Week Workshops Attended:**

- Participated in a “One week workshop on Mathematical Modeling in Engineering (MME-2013)” organized by the Department of Mathematics, National Institute of Technology, Warangal, 2-6, December 2013.
- Participated in a “One week workshop on Mathematical Modeling and Computational Techniques” organized by the Department of Mathematics, National Institute of Technology, Warangal, 7-11, December 2015.
- Participated in a “One Week National Level Workshop on Big Data Analytics” organized by Department of Computer Science & Engineering, JNTUHCEJ, 14<sup>th</sup> to 20<sup>th</sup> December 2015.
- Participated in a “One week Refresher Course on Engineering Mathematics” organized by CMR Engineering College, Hyderabad, 12<sup>th</sup> to 17<sup>th</sup> June, 2017.
- Participated in the Five Days National FEP titled “ Innovative Teaching and Research in Science: Exploring the new Horizons” organized by Science Forum in Association with IQAC, Government First Grade College, Vijayanagar, Karnataka held from 10<sup>th</sup> to 15<sup>th</sup> June 2021.
- Participated in National Level one week Faculty Development Programme on Research Methodology from 26<sup>th</sup> April to 1<sup>st</sup> May 2021 organized by Amar Sewa Mandal’s Kamla Nehru Mahavidyalalya, Nagpur.

### **PERSONAL PROFILE:**

Name : Dr. B. Ravindra Reddy  
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