

Dr Vidyanath Tripuraribhatla

Personal Information



Designation: Associate Professor

Qualification: M.Sc. Ph.D.

Experience: 19 Years

Specialization: Mathematics

Date of Joining: 02/01/2020

Phone Numbers: 9949035010

Email-Id: drtvidyanath@cmrcet.org

Achievements/Publications/Workshops/Seminar/Guest Lectures

Publications:

- **Title of the Paper:** Stochastic and Diffusion Analysis of a Modified Leslie-Gower Model with Holling Type Functional Responses
Name of the Journal: International Journal of Ecological Economics and Statistics (IJEES)
Indexed in: Thomson Reuters Web of Science
National/International: International
ISSN No: 0973-1385, Year: 2019, Volume: 40, Issue: 2, Pp.67-79.
- **Title of the Paper:** Dynamics of a prey and two predators system with time delay
Name of the Journal: International Journal of Pure and Applied Mathematics (IJPAM)
Indexed in: SCOPUS
National/International: International
ISSN No: 1311-8080, Year: 2018, Volume: 118, Issue: 3, Pp. 613-623.

- **Title of the Paper:** Time delayed analysis of two prey one predator ecological model
Name of the Journal: International Journal of Ecological Economics and Statistics (IJEES)
Indexed in: SCOPUS
National/International: International
ISSN No: 0973-1385, Year: 2018, Volume: 39, Issue: 1, Pp. 64-72.

- **Title of the Paper:** Dynamics of a time delayed ecological model comprising mutualism, neutralism and prey-predation
Name of the Journal: ARPN Journal of Engineering and Applied Sciences (ARPN JEAS)
Indexed in: SCOPUS
National/International: International
ISSN No: 1819-6608, Year: 2017, Volume: 12, Issue: 22, Pp. 6494-6501.

- **Title of the Paper:** Deterministic and stochastic stability analysis of a three species eco-system with a predator and two preys
Name of the Journal: Research Journal of Science and Technology (RJST)
Indexed in: Google Scholar
National/International: National
ISSN No: 0975-4393, Year: 2017, Volume: 9, Issue: 4, Pp. 541-548, doi:10.5958/2349-2988.2017.00093.6

- **Title of the Paper:** An optimal harvesting policy for the two prey species in a three species ecological model
Name of the Journal: International Journal of Ecology and Development (IJED)
Indexed in: SCOPUS
National/International: International
ISSN No: 0972-9984, Year: 2017, Volume: 32, Issue: 4, Pp. 153-168.

- **Title of the Paper:** Bionomic equilibrium of a three species model with optimal harvesting for the first prey
Name of the Journal: International Journal of Pure and Applied Mathematics (IJPAM)
Indexed in: SCOPUS
National/International: International
ISSN No: 1311-8080, Year: 2017, Volume: 113, Issue: 9, Pp. 220-233.

- **Title of the Paper:** A three species ecological model with a predator and two preying species
Name of the Journal: International Frontier Sciences Letters (IFSL)
Indexed in: UGC
National/International: International
ISSN No: 2349-4484, **Year:** 2016, **Volume:** 9, **Pp.** 26-32,
doi:10.18052/www.scipress.com/IFSL.9.26.

List of Conferences / Seminars attended (National/ International):

- **Title of the Paper:** Stability analysis of a three species eco-system comprising of one prey and two predators
Name of the Conference & Date: NCRTST-2015, 25-26th February 2015.
Name of the Institution: JNTUHCEJ, Karimnagar, Telangana State and sponsored by ISTE, New Delhi.
National/International: National
ISBN No: 978-93-82570-52-3, **Year:** 2015, **Pp.** 326-329.
- **Title of the Paper:** A three species synecological model with mutualism, neutralism and prey-predation
Name of the Conference & Date: NCPAM'14, 25-26th April 2014.
Name of the Institution: Mathematics Division, School of Advanced Sciences, VIT Chennai
National/International: National
ISBN No: 978-93-83459-46-9, **Year:** 2014, **Pp.** 60-64.
- **Title of the Paper:** Dynamics of a predator-prey model with type-III functional response under time delay
Name of the Conference & Date: ICASEM 2020, 7-9th August, 2020
Name of the Institution: AITS, Rajampet, A.P. in association with APTSMS
National/International: International
- **Title of the Paper:** Stability of a prey-predator-super predator model with varied functional responses
Name of the Conference & Date: ICTEMPS-2018, 21st April 2018.
Name of the Institution: Geethanjali College of Engineering & Technology, Hyderabad
National/International: International

- **Title of the Paper:** Deterministic and stochastic stability analysis of a three species eco-system with a predator and two preys” in the NCERTPAM-2017
Name of the Conference & Date: NCERTPAM-2017, 29-30th August 2017.
Name of the Institution: Department of Applied Mathematics, Sri Padmavati Mahila Visvavidyalayam, Tirupati.
National/International: National
- **Title of the Paper:** Exponential and mean square stability analysis of a three species eco-system
Name of the Conference & Date: XXVI congress of APSMS and National Conference on Recent Advances in Mathematics, 11-13th August 2017.
Name of the Institution: Department of Mathematics, Kakatiya University, Warangal.
National/International: National
- **Title of the Paper:** Bionomic equilibrium of a three species model with optimal harvesting for the first prey
Name of the Conference & Date: NCMTA-2017, 27-28th January 2017.
Name of the Institution: SRM University, Tamil Nadu.
National/International: National
- **Title of the Paper:** A three species ecological model with a predator and two preying species
Name of the Conference & Date: APSMS XXII Congress and National Conference on Recent Trends in Applications of Mathematics, 13-15th December 2013.
Name of the Institution: Anurag Group of Institutions, Hyderabad.
National/International: National
- **Title of the Paper:** Two species competition models with harvesting of both the species
Name of the Conference & Date: New Thresholds in Pure and Applied Mathematics, July 2009.
Name of the Institution: SNIST, Hyderabad.
National/International: National

FDPs/Workshops:

- Participated in the 2-day FDP on “Personality Development” at AVNIET, Hyderabad, conducted by ICT Academy during 24-25th January 2019.
- Participated in the International Symposium on “Modelling of Nanofluid Flows(ISMNF-2018)” organized by Department of Mathematics, VIT-AP, held at VIT-AP, Amaravati on 17th December 2018.
- Participated in the International Workshop on “Modelling Dynamics, Statistical Inference & Prediction of Infectious Diseases (MoDSIP-ID)” held at Sri Sathya Sai Institute of Higher Learning, Prashanthi Nilayam, India in Collaboration with Arizona State University during 12-15th August 2018.
- Participated in the one-week FDP on “Mathematics for Engineering Research” organized by GNITS, Hyderabad in association with NIT, Warangal, under the Scheme of E&ICT Academy, sponsored by MeitY, GOI, during 18-23rd June 2018.
- Participated in the one day workshop on “Mathematical modelling and its applications for engineers and scientists” organized by Department of Mathematics, JNTUHCEH, on 30th August 2013.