

Dr. Karuna BNR

Personal Information

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Designation: Assistant Professor

Qualification: M.Sc. Ph.D.

Experience: 14 Years

Specialization: Mathematics

Date of Joining: 27/08/2018

Phone Numbers: 7893379378

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Achievements/Publications/Workshops/Seminar/Guest Lectures

**Project:**

**Title:** *Dynamics of Time Delayed SIR and SIRS Epidemic Models.*

*Under Collaborative Research Scheme, TEQIP-III, JNTUH as Co- Principal Investigator.*

**Publications**

- **Title of the Paper:** Stability of an SIRS model with Latent Period and Non Linear Incidence Rate  
**Name of the Journal** *Journal of Advanced Research in Dynamical and Control Systems*  
**Indexed in:** SCOPUS  
**National/International:** International  
**ISSN No:** 1943023X, Year: 2020.
- **Title of the Paper:** Deterministic and stochastic dynamics of an eco-epidemiological model  
**Name of the Journal:** *International Journal of Mathematics and its applications*

**Indexed in:** UGC

**National/International:** International

Year: 2017 , Volume: 5, Issue: 4(E), Pp-801-808.

- **Title of the Paper:** Stability analysis of a viral model with intercellular delay

**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: 3

- **Title of the Paper:** A mathematical study of an infectious disease model with time delay in CTL response

**Name of the Journal:** *Global Journal of Pure and Applied Mathematics,*

**Indexed in:** SCOPUS

**National/International:** International

Year: 2015, Volume: 11, Issue: 2, Pp. 110-114

- **Title of the Paper** Stability analysis of a viral infection model with delay for CTL response

**Name of the Journal:** *International Journal of Scientific and Innovative Mathematical Research*

**National/International:** International

Year: 2015, Volume: 3, Issue: 1, Pp. 264-267.

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

- **Title of the Paper:** *Stability analysis of a Dengue disease transmission model with intercellular delay*

- **Name of the Conference & Date:** Computational Fluid flow and Heat Transfer (CFFHT-2018), 28<sup>th</sup> - 29<sup>th</sup> March, 2018.

**Name of the Institution:** Osmania University, Hyderabad.

**National/International:** International

- **Title of the Paper:** *Stability analysis of a viral model with intercellular delay*”

**Name of the Conference & Date:** Engineering Research Trends in Pure and Applied Mathematics (NCERTPAM-2017), 29<sup>th</sup> - 30<sup>th</sup> August, 2017.

**Name of the Institution:** SPMV University, Tirupati

**National/International:** National

- **Title of the Paper:** *A delayed immune response of CTL with Hopf bifurcation*

**Name of the Conference & Date:** National Conference on Recent Advances in Pure and Applied Mathematics (NCRAPAM-2017), , 6<sup>th</sup> - 7<sup>th</sup> March, 2017.

**Name of the Institution:** SPMV University, Tirupati

**National/International:** National

- **Title of the Paper:** *A mathematical study of an infectious disease model with time delay in CTL response*

**Name of the Conference & Date:** Recent Developments in Mathematical Sciences and their Applications to Science and Technology, 11<sup>th</sup> -13<sup>th</sup> December, 2015.

**Name of the Institution:** VBIT, Hyderabad

**National/International:** National

- **Title of the Paper:** *Stability analysis of a viral infection model with delay for CTL response*”, Tirupati,

**Name of the Conference & Date:** International Conference on Mathematical Sciences (ICMS-2015),13<sup>th</sup> - 15<sup>th</sup> July, 2015.

**Name of the Institution:** SV University, Tirupati.

**National/International:** International

### **FDPs/Workshops:**

- Participated in Two day Workshop on Innovative pedagogy for teaching and learning Engineering Mathematics (IPTeM), JNTUCE, Hyderabad, 29<sup>th</sup> – 30<sup>th</sup> June, 2016.
- Participated in in One Day Workshop on Mathematical Modeling and its applications for Engineers and Scientists, JNTUHCE, Hyderabad, 30<sup>th</sup> August, 2013.
- Participated in One day Workshop on Applications of Mathematics in Engineering Sciences and Mindset for Mathematical Modelers, KITE, Hyderabad, 6<sup>th</sup> August, 2011.