

Name: Dr. G V P N Srikanth  
Designation: Assistant Professor  
Department: H&S (Mathematics)  
Mail I'd: srikanth\_gvpn@vnrvjiet.in



Experience (in years): 10    Teaching: 10    Research: 05  
Others(if any, specify):

### 1. Educational / Technical qualifications:

| S.No | Level (UG / PG / Ph.D) | Year of passing | Specialization            |
|------|------------------------|-----------------|---------------------------|
| 1    | B.Sc (UG)              | 2005            | Maths, Physics, Chemistry |
| 2    | M.Sc (PG)              | 2007            | Mathematics               |
| 3    | Ph.D                   | 2016            | Fluid Dynamics            |
|      |                        |                 |                           |

### 2. Teaching and Learning:

- 2.1. Teaching Interests: Fourier Series and Complex Analysis, Advance Calculus, Ordinary Differential Equations, Mathematics-I, Mathematical Methods, Numerical Methods.
- 2.2. Novel Teaching & Learning Techniques adopted: POGIL, WIT & WIL, NPTEL, Learning by Doing, Mind Maps
- 2.3. Involvement in curriculum updating / Design: BOS

### 3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies: Reading News Papers, Playing Cricket.
- 3.2. CCA/ECA Organized: Nil
- 3.3. CCA/ECA participated: Nil
- 3.4. Counseling and Mentoring Activity: Nil
- 3.5. Committees involved in:
  - Department level: BOS
  - Institute Level: NPTEL

### 4. Conference / Workshop / Seminar / Guest Lectures :

- 4.1 Conducted: Nil
- 4.2 Attended:
  - Attended one day workshop on “Applications of Engineering Mathematics” 3rd Dec 2010 in TRR college of Engineering, Hyderabad.
  - Attended one day workshop on “Mathematical Modeling and its applications Engineers and Scientists” 30<sup>th</sup> Aug 2013 in JNTUH, Hyderabad.

- Attended Two day workshop on “Use of Technologies for Teaching and Learning of Engg. Mathematics” during 24<sup>th</sup> – 25<sup>th</sup> July 2015 in JNTUH, Hyderabad.
- Attended Two day workshop on “Innovative Pedagogy for Teaching and Learning Engineering Mathematics” during 29<sup>th</sup> and 30<sup>th</sup> June 2016 in JNTUH, Hyderabad.
- Attended one week workshop on “Advanced Numerical Modeling Techniques for Mechanical Engineering” held during 27<sup>th</sup> – 31<sup>st</sup> March 2017 at VNRVJIET.

## 5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: Nil

5.2. Articles / Chapters published in Books: Nil

5.3. Books published as single author or as editor: 03

- Published a Book on “FINITE ELEMENT ANALYSIS OF CONVECTIVE HEAT TRANSFER FLOW OF A MICROPOLAR FLUID THROUGH A POROUS MEDIUM IN CHANNELS/DUCTS”, Canadian Academic Publishing, and ISBN: 978-1-926488-12-7, April 2015.
- Published a Book on “Engineering Mathematics-I”, Canadian Academic Publishing, and ISBN: 978-1-926488-33-2, March 2016.
- Published a Book on “Nano Particles Effect on Convective Heat and Mass Transfer”, Lap Lambert Academic Publishing, and ISBN: 978-3-659-90017-4, June 2016.

5.4. Projects Guided:

a) UG : Nil

b) PG : Nil

5.5. Research Interests : Fluid Dynamics, Heat and Mass Transfer, Numerical Methods

5.6. Ph.D students : Nil

a) Enrolled : Nil

b) Submitted : Nil

c) Awarded : Nil

5.7. Papers published in reviewed journals :

| S.No | Title of the Paper   | Journal Name Vol.No. PP  | ISBN/ISSN No. | Impact Factor/ Citation Index | National/ International |
|------|--|--|---------------|-------------------------------|-------------------------|
| 1    | MHD CONVECTIVE HEAT TRANSFER OF A NANO FLUID FLOW PAST AN INCLINED | International Journal of Physics and Mathematical Sciences, January-March 2013 pp.89-95/Srikanth et al | 2277-2111     | Thomson Reuters, Google       | International           |

|   |   |  |                |                              |                   |
|---|---|--|----------------|------------------------------|-------------------|
|   | PERMEABLE<br>PLATE WITH<br>HEAT SOURCE<br>AND RADIATION   |  |                | Scholar                      |                   |
| 2 | RADIATION AND<br>INCLINATION<br>EFFECTS OF<br>CONVECTIVE<br>HEAT AND MASS<br>TRANSFER OF A<br>MHD NANO FLUID<br>FLOW PAST A<br>PERMEABLE FLAT<br>PLATE        | International Journal of<br>Futuristic Science<br>Engineering and<br>Technology, Vol 1 Issue<br>4 April 2013             | 2320 - 4486    | Google<br>Scholar            | Internationa<br>l |
| 3 | HEAT SOURCE<br>EFFECTS IN HEAT<br>AND MASS<br>TRANSFER OF<br>NANO FLUID<br>FLOW PAST A<br>SHEET   | International Journal of<br>Modern Engineering<br>Research, Vol. 4 Issue. 1<br>Jan. 2014 pp.187-193                      | 2249–6645      | 1.22,<br>Google<br>Scholar   | Internationa<br>l |
| 4 | EFFECT OF<br>PARTICLE SIZE<br>AND CHEMICAL<br>REACTION ON<br>CONVECTIVE<br>HEAT AND MASS<br>TRANSFER OF A<br>MHD NANO FLUID<br>IN A<br>CYLINDRICAL<br>ANNULUS | International Journal of<br>Mechanical Engineering<br>and Technology, Volume<br>5, Issue 2, February<br>(2014), Pp.26-35 | 0976 –<br>6359 | 3.8231,<br>Google<br>Scholar | Internationa<br>l |
| 5 | HEAT AND MASS<br>TRANSFER OF A<br>MHD NANO<br>FLUID WITH<br>CHEMICAL<br>REACTION  | International Journal of<br>Mechanical and<br>Production Engineering,<br>Volume- 2, Issue- 3,<br>March-2014, Pp.1- 6     | 2320-2092      | 2.56,<br>Google<br>Scholar   | Internationa<br>l |

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|----|--|--|---------------|------------------------|---------------|
|    | EFFECTS  |  |               |                        |               |
| 6  | HEAT AND MASS TRANSFER OF A NANO FLUID PAST A PERMIABLE INCLINED FLAT PLATE WITH RADIATION EFFECT            | Recent Innovation in Mechanical Engineering, 2014 March- Pp.1- 6.  | 9789383038138 | Google Scholar         | National      |
| 7  | FINITE ELEMENT ANALYSIS OF CONVECTIVE MICRO POLAR FLUID FLOW THROUGH A POROUS MEDIUM IN CYLINDRICAL ANNULUS  | International Journal of Modern Engineering Research, Vol. 4 Issue.1 Feb. 2014 pp.1-7.   | 2249-6645     | 1.22, Google Scholar   | International |
| 8  | HYDROMAGNETIC MIXED CONVECTION MICRO POLAR FLOW DRIVEN BY A POROUS STRETCHING SHEET – A FINITE ELEMENT STUDY | International Journal of Mechanical Engineering and Technology, Volume 5, Issue 2, February (2014), Pp.52-63   | 0976 – 6359   | 3.8231, Google Scholar | International |
| 9  | RADIATION EFFECTS ON HEAT AND MASS TRANSFER OF A MHD NANO FLUID  | International Journal of Research in Engineering and Technology, Volume: 03 Issue: 04 Apr-2014, Pp.281-287<br>DOI: <a href="https://doi.org/10.15623/ijret.2014.0304050">10.15623/ijret.2014.0304050</a> | 2321-7308     | 2.35, Google Scholar   | International |
| 10 | CHEMICAL REACTION AND PARTICLE SIZE EFFECTS ON   | International Journal of Science and Research, Volume: 03 Issue: 05  | 2319-7064     | 3.358, Google Scholar  | International |

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|----|---|---|------------------|-----------------------|---------------|
|    | CONVECTIVE HEAT AND MASS TRANSFER THROUGH A NANO FLUID  | May-2014, Pp.411-415  |                  |                       |               |
| 11 | EFFECT OF PARTICLE SIZE ON CONVECTIVE HEAT TRANSFER IN FLAT PLATE THROUGH NANO FLUID                        | International Journal for Scientific Research & Development, Vol. 2, Issue 05, 2014, Pp.672-676                     | 2321-0613        | 1.32, Google Scholar  | International |
| 12 | Effect of Particle Size on Convective Heat Transfer in Cylindrical Annulus through Nano Fluid               | International Journal of Ethics in Engineering & Management Education, Volume 1, Issue 8, August 2014, Pp.23-28     | <b>2348-4748</b> | 3.785, Google Scholar | International |
| 13 | HEAT AND MASS TRANSFER THROUGH A POROUS MEDIUM IN A VERTICAL CHANNEL WITH CHEMICAL REACTION AND HEAT SOURCE | International Journal of Ethics in Engineering & Management Education, Volume 1, Issue 9, September 2014, Pp.22-30. | <b>2348-4748</b> | 3.785, Google Scholar | International |
| 14 | CHARACTERIZATION OF CHEMICAL REACTION ON HEAT AND MASS TRANSFER THROUGH THE NANO FLUID                      | Quest International Multidisciplinary Research Journal, Volume III, Issue II, Dec 2014, Pp.59-70.                   | 2278 – 4497      | 7.32, Google Scholar  | International |
| 15 | NANO-PARTICLE SIZE AND INTER PARTICLE SPACING EFFECTS   | Global Academic Research Journal , Volume – III, Issue – I  | 2347-3592        | 5.56, Google Scholar  | International |

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|----|---|---|-------------|----------------------|---------------|
|    | ON CONVECTIVE HEAT AND MASS TRANSFER PAST A PERMEABLE INCLINED OSCILLATING STRETCHING SHEET     | Jan – 2015, Pp.26-34.   |             |                      |               |
| 16 | CHARACTERIZATION OF NANOPARTICLE SIZE IN CONVECTIVE HEAT TRANSFER THROUGH CYLINDRICAL ANNULUS   | International Journal of Advance Research In Science And Engineering, Vol. No.4, Special Issue (02), February 2015, Pp.103-110. | 2319-8346   | 1.42, Google Scholar | International |
| 17 | HEAT TRANSFER OF NANO FLUIDS IN AN INCLINED CHANNEL UNDER MAGNETIC FIELD WITH HEAT SOURCE/SINK  | Journal of Mechanical and Civil Engineering, VOL 2 ISSUE 3 MARCH 2015.  | 3855-0154   | 2.03, Google Scholar | International |
| 18 | HEAT TRANSFER WITH HEAT SOURCE AND RADIATION PAST A PERMEABLE STRETCHING SHEET IN A NANO FLUID  | Quest International Multidisciplinary Research Journal, VOL 4 ISSUE 3 MARCH 2015.   | 2278 – 4497 | 6.82, Google Scholar | International |
| 19 | Heat and Mass Transfer Analysis of a Cu-water Nano fluid along an Inclined flat Plate with Heat | Research Expo International Multidisciplinary Research Journal, VOL 5 ISSUE 4 April 2015.                                       | 2250-1630   | 5.93, Google Scholar | International |

|    | Source/Sink   |  |           |  |               |
|----|---|--|-----------|--|---------------|
| 20 | The Convective Heat Transfer of Nano-Fluid past a Permeable Oscillating Stretching Sheet  | ACME International Multidisciplinary Research Journal, VOL 3 ISSUE 5 May 2015.   | 2320-2360 | 5.79, Google Scholar                   | International |
| 21 | Heat Transfer in MHD Nano Fluid along a Stretching flat Plate With Chemical Reaction and Injection/Sink                         | International Research Journal of Engineering and Technology, Volume: 02 Issue: 03 June-2015.                          | 2395-0056 | 2.518, Google Scholar                  | International |
| 22 | Characterization of chemical reaction on heat transfer through the nano fluid   | Elsevier Procedia Materials Science 10 (2015), pp.10 – 18, August-2015.  | 2211-8128 | Science Direct, Google Scholar         | International |
| 23 | Particle Spacing and Chemical Reaction Effects on Convective Heat Transfer through a Nano-Fluid in Cylindrical Annulus          | Elsevier Procedia Engineering 127 ( 2015 ) , PP. 263 – 270, Novenber-2015.<br><br>doi:<br>10.1016/j.proeng.2015.11.359 | 1877-7058 | Scopus, Science Direct, Google Scholar | International |
| 24 | Finite Element Analysis of Convective Heat Transfer of Micro polar and Viscous Fluids in a Vertical Channel with Variable Width | International Journal of Mathematics Trends and Technology, Pp.65-70, Volume27 Number2 – November 2015                 | 2231-5373 | 1.42, Google Scholar                   | International |

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|----|--|--|-------------|---|---------------|
| 25 | EFFECT OF OPPOSITELY MOVING PLATES ON CONVECTIVE HEAT AND MASS TRANSFER THROUGH TWO IMMISCIBLE FLUIDS- FEA                 | International journal of Mechanical and Production Engineering Research and Development, Pp.127-137, Vol. 5, Issue 6, Dec 2015 | 2249-8001   | 5.52, Google Scholar                                      | International |
| 26 | INTER PARTICLE SPACING EFFECTS ON CONVECTIVE HEAT AND MASS TRANSFER THROUGH A NANO-FLUID IN HORIZONTAL CYLINDRICAL ANNULUS | International Journal of Multidisciplinary Research and Modern Education , PP:255 – 263, Volume II, Issue I, March 2016        | 2454 -6119  | 3.015, Google Scholar                                     | International |
| 27 | The Convective Heat and Mass Transfer Of Nano-Fluid Past A Permeable Inclined Oscillating Flat Plate                       | International Journal of Multidisciplinary Research and Modern Education, PP:10 – 20, Volume II, Issue II, July 2016           | 2454 -6119  | 3.015, Google Scholar<br>Thomson Reuters ID: E-7084-2016. | International |
| 28 | HEAT TRANSFER OF CU-WATER NANO-FLUID ALONG INCLINED FLAT PLATE WITH RADIATION AND PARTICLE SIZE                            | International Journal of Mechanical Engineering and Technology, Volume 7, Issue 6, November–December 2016, pp.609–617.         | 0976-6359   | 9.228, Google Scholar<br>, Scopus                         | International |
| 29 | FEA OF HEAT TRANSFER WITH HEAT SOURCE AND  | International Journal of Multidisciplinary Research and Modern   | 2454 - 6119 | 6.725, Google Scholar                                     | International |



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|--|--|---|--|--|--|
|  | VISCOUS DISSIPATION UNDER CONVECTIVE BOUNDARY CONDITIONS | Education (IJMRME)<br>Volume 3, Issue 1, 2017 |  |  |  |
|  |  |   |  |  |  |

5.8. Papers presented at National / International Journals :

| S.No | Title of the Paper  | Names of the Conference/ Seminars  | National/ International | Period  |
|------|---|--|-------------------------|---|
| 1    | HEAT AND MASS TRANSFER OF A MHD NANO FLUID WITH CHEMICAL REACTION EFFECTS                     | ICCSME-2014, IEEE Forum, Mumbai  | International           | June 5 <sup>th</sup> 2014                       |
| 2    | FREE AND FORCED CONVECTIVE HEAT TRANSFER OF A MHD NANO FLUID IN A CYLINDER CAL ANNULUS        | ICNDCT-2014, JNTUH   | International           | June 23 <sup>rd</sup> – 25 <sup>th</sup> , 2014 |
| 3    | EFFECT OF PARTICLE SIZE ON CONVECTIVE HEAT TRANSFER IN CYLINDRICAL ANNULUS THROUGH NANO FLUID | II International conference on Applications of Fluid Dynamics-2014, SVU                | International           | July 21 <sup>st</sup> – 23 <sup>rd</sup> , 2014 |
| 4    | CHARACTERIZATION OF CHEMICAL REACTION ON HEAT TRANSFER THROUGH THE NANO FLUID                 | 2 <sup>nd</sup> International conference on Nano materials and Technologies (CNT-2014) | International           | Oct 17 <sup>th</sup> – 18 <sup>th</sup> , 2014  |
| 5    | CHARACTERIZATION OF CHEMICAL REACTION ON HEAT AND MASS TRANSFER THROUGH THE NANO FLUID        | ICEE-2014, JNTUH   | International           | 15 <sup>th</sup> – 17 <sup>th</sup> , Dec 2014  |
| 6    | CHARACTERIZATION OF NANO-PARTICLE SIZE IN CONVECTIVE HEAT AND MASS TRANSFER                   | ICSTM-2015, YMCA, New  | International           | Feb 1 <sup>st</sup> , 2015                      |

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|    | THROUGH CYLINDRICAL ANNULUS   | Delhi   |               |  |
| 7  | Particle Size and Spacing Effects on Convective Heat and Mass Transfer of a Nano-Fluid in Wavy Annulus            | 3 <sup>rd</sup> International conference on Applications of Fluid Dynamics                                | International | December 19-21, 2016                             |
| 8  | MHD CONVECTIVE HEAT TRANSFER OF A NANO FLUID FLOW PAST AN INCLINED PERMEABLE PLATE WITH HEAT SOURCE AND RADIATION | National Conferences on Recent Trends in Mathematics- 2013, JNTUA   | National      | 21 <sup>st</sup> – 22 <sup>nd</sup> , March 2013 |
| 9  | HEAT AND MASS TRANSFER OF A MHD NANO FLUID FLOW PAST AN INCLINED OSCILLATING PERMEABLE FLAT PLATE                 | XXII congress and National conferences on Recent Trends in Applications of Mathematics- 2013, ANURAG, Hyd | National      | 13 <sup>th</sup> – 15 <sup>th</sup> , Dec 2013   |
| 10 | HEAT TRANSFER DUE TO EXPONENTIAL DECAY OF NANO PARTICLE SIZE AND CHEMICAL REACTION RATE                           | National Seminar on Emerging Trends in Mathematics and its Applications, ANU, Ongole                      | National      | 6 <sup>th</sup> – 7 <sup>th</sup> , March 2014   |

#### 5.9. Sponsored research Projects:

| S.No | Title | Agency | Period | Grant amount | Ongoing / Completed |
|------|-------|--------|--------|--------------|---------------------|
|      |       | Nil    |        |              |                     |

#### 5.10 Consultancy Projects:

| S.No | Title | Agency | Period | Sanctioned | Ongoing / |
|------|-------|--------|--------|------------|-----------|
|      |       |        |        |            |           |

|  |  |     |  | <b>Amount</b> | <b>Completed</b> |
|--|--|-----|--|---------------|------------------|
|  |  | Nil |  |               |                  |

**6. Awards / Honors received: Nil**

**7. Motto:** Our attitude towards ourselves should be "to be satiable in learning" and towards others "to be tireless in teaching."