

## **CURRICULUM-VITAE**

**Dr. Raghavendra G. Tasaganva** M. Sc., Ph.

D.

Assistant Professor in Chemistry,  
Post Graduation Center,  
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### **PRESENT POSITION AND WORK EXPERIENCE:**

- **Assistant Professor in P.G Department of Chemistry, J.S.S College, Vidyagiri, Dharwad from July 2014.**
- **Worked as Assistant Professor in P.G Dept of Chemistry, BLDE Association, Vijayapura, From June 2011- June 2014.**
- ***Total Teaching Experience: 9 Years***
- **Establishing the Research work on 1,3,4 Oxadiazole and Thiazole Derivatives and its Spectral, Biological Characterization at P. G. Department of Chemistry, J.S.S. College, Dharwad.**
- **I have successfully completed the Project work on a Heterocyclic**

Compound 1,3,4 Oxadiazole and its Derivatives for M.Sc Students at P. G. Department of Chemistry, J.S. S. College, Dharwad.

### **RESEARCH TOPIC:**

**“Studies on Polymeric Nonlinear Optical (NLO) Materials”**

### **Industrial -Work Experience:**

- I have worked as **Quality Control (Q.C) Chemist** in **Quality Control Department, Hicare Pharmaceutical Private Ltd., Since- (28-02-2000 to 29-07-2002)** at Kadanakoppa Village, Hubli-Karwar Highway, Taluk: Kalagatagi, District: Dharwad.
- I have served in **Rallis India Limited, Rallis Research Center**; 21 and 22, Peenya Industrial Area., Phase-II, Bangalore 560 058. As **Research Fellow** in on Project assigned as Development of Novel Fungicides, New Delhi., at Research and Development (Analytical Section) between **09-03-2004 to 13-01-2005**.
- I worked as **Executive** in **Q. A Department** since **17-01-2005 to 30-08-2005** in **Wintac Pharmaceutiac Limited.**, 54/1, Boodihal, Nelamangala, Bangalore-562123.

### **DOCTORAL RESEARCH TOPIC:**

- Developing synthetic tools (reactions and reagents) and networks of reactions (synthetic strategies) for efficient and selective

polymeric nonlinear materials.

- Applications of nonlinear optical materials in telecommunication department.
- The development of novel polymeric materials (membranes) derived from synthetic heterocycles, especially by employing the principles of green chemistry.
- Using modern synthetic chemistry and **Nd:YAG-LASER** methods, synthesizing new chemical entities with the help of well characterized polymers compounds as dyes and optical material.

### ACADEMIC RECORDS:

Course	College/University	Percentage of Marks	Class or Division	Year of Passing
<b>Ph.D.</b>	P. G. Department of studies in Chemistry & Center of Excellence in Polymer Science, Karnatak University, Dharwad.	---	---	<b>2011</b>
<b>M. Sc.</b> (Analytical Chemistry )	Department of Chemistry, Gulbarga University, Gulbarga	69.4 %	<b>I-Rank</b>	<b>2004</b>
<b>B. Sc.</b> (Bot, Zoo & Chem.)	Basaveshwar Science College, Bagalkot. (Karnataka University, Dharwad.)	61.0 %	<b>I-Class</b>	<b>1999/2000</b>

### AWARDS AND SCHOLARSHIPS:

1. Awarded Research Fellowship in Science for Meritorious Students by University Grants Commission, New Delhi, at the time of doctoral work.
2. Recipient of Prof. E. S. Jayadevappa's 60th Birthday commemorative **Gold Medal** for securing I Rank in M. Sc. Analytical chemistry in 2004.
3. Recipient of Prof. A. C. Hiremath felicitation committee fund **Gold Medal** for securing highest marks in Analytical, Inorganic, Organic, Physical and Pharmaceutical branches of chemistry in 2004.
4. Recipient of Miss. Mohan Memorial **Gold Medal** for securing highest marks in Analytical, Inorganic, Organic, Physical and Biochemistry branches in 2004.

### BSTRACT OF DOCTORAL WORK:

Research supervisor: Dr. Mahadevappa Y. Kariduraganavar, Professor of Physical Chemistry, Center of Excellence in Polymer Science, Department of Studies in Chemistry, Pavatenagar, Dharwad-580 003, Karnataka, India.

The present research work was under taken to select variety of  $\pi$ -conjugated organic compounds substituted with electron donor and acceptor groups in appropriate position exhibit strong second-order nonlinear optical properties.

In view of all these, we have tried to synthesize different polymers in which the NLO responsive chromospheres containing Oxadiazole, Thiazole, Hydantoin, 3-Phenyl-2-isoxazolin-5-one and Barbituric acid with different conjugation lengths were incorporated by standard condensation polymerization techniques.

### **CONFERENCES ATTENDED AND PAPERS PRESENTED:**

1. National Conference on "Current Trends in Chemistry" held at Karnatak University Dharwad on 18<sup>th</sup> February, 2008.
2. 45<sup>th</sup> Annual Convention of Chemists and International Conference on "Recent Advances in Chemistry" held at P. G. Department Studies in Chemistry Karnatak University, Dharwad during 24 to 28<sup>th</sup> Nov., 2008. And presented a paper entitled **"Synthesis and Nonlinear Optical Properties of Polyurethanes Containing Nitrosubstituted 1,3,4 Oxadiazole"**. Paper No. ORG (AP) 18.
3. TEQIP and DAE sponsored one day National workshop on "Nuclear energy for 21<sup>st</sup> century" held at S. D. M. College of engineering and technology Dharwad on **27<sup>th</sup> August, 2009**.
4. National Conference on Recent Advances in Drugs Discovery Research, Organized by Department of Chemistry, Poona College of Arts, Science and Commerce Camp, Pune- And presented a paper entitled **"Synthesis and Nonlinear Optical Properties of Polyurethanes Containing Nitrosubstituted 1,3,4 Oxadiazole"**. Poster session during the conference.
5. UGC Sponsored National Seminar on **"Recent Advances in Chemistry"- 2010**. Held in Post-Graduate Department of Studies in Chemistry,

Karnataka University, Dharwad.

6. Government of Karnataka, Vision Group On Science and Technology Celebration of International year of **Chemistry-2011, Organized by B.L.D. E Association's S.B. Arts and K.C.P Science College, Bijapur.** Held on **17<sup>th</sup> October-2011.**
7. **One-Day Work Shop: "Interaction of P. G Teachers of Science Faculty" of Rani Channamma University, Belagavi.** Held at B.V.V.S, Department of Chemistry, Baglakot on dated 19<sup>th</sup> November-2011.
8. **One – Day work Shop** has conducted by K.L.E Society's- Department of Chemistry, G.S.S- College-Belagavi on dated 1 October-2011.
9. **Two Days State Level Workshop** sponsored by UGC on **"Adulation and Contamination- A Challenge to Food Safety"**. Held at J.S.S- Banashankari Arts, Commerce and S.K. Gubbi Science College, Vidyagiri, Dharwad, on dated **13<sup>th</sup> and 14<sup>th</sup> March-2015.**
10. Participated as **Organizer and Presented Article** in International Conference on **"Direct Digital Manufacturing and Polymers" 28<sup>th</sup> to 31<sup>st</sup> October, 2015.** Held at Department of Chemistry, Karnataka University, Dharwad, India. And Center for Rapid and Sustainable Product Development Polytechnic Institute of Leiria, Portugal.
11. **Workshop** sponsored by UGC-CPE II Phase Grants., on **"Teachers Training Programm"**. Held at J.S.S- Banashankari Arts, Commerce and S.K. Gubbi Science College, Vidyagiri, Dharwad, on dated **13-09-2016.**
12. Attended One-Day Teaching Training Programm (Under Assistance of UGC-CPE II phase at) JSS College, Dharwad-on Nove 2018.
13. Appointed as **BOE member** for M.Sc General Chemistry, (Examination Section), at KU Dharwad, for the year 2019 2020.
14. Appointed as a Internal Examiner for Karnataka University Practical

Examination in M.Sc General Chemistry, January 2019, held in SDM College Honnavar and Ankola.

15. Appointed as a Internal Examiner for Karnataka University Valuation work at KCD, on dated Jan 2019.
16. Attended One-Day Teaching Training Programm (Under Assistance of UGC-CPE II phase at) JSS College, Dharwad-on Feb 2019.
17. Attended examination work as **External Examiner for the conduct of VTU for progress report of Ph.D students**, on dated Feb 2019, at VDRIT college, Haliyal(*Vishwanathrao Deshapande Rural Institute of Technology*), *Dandeli Road, Haliyal*.
18. Participated as **Organizer** in International Conference on **“Direct Digital Manufacturing and Polymers” 20<sup>th</sup> to 23<sup>st</sup> February, 2019**. Held at Department of Chemistry, Karnataka University, Dharwad, India. **And Center for Rapid and Sustainable Product Development Polytechnic Institute of Leiria, Portugal.**

### **RESEARCH PUBLICATIONS:**

1. **R. G. Tasaganva**, M. Y. Kariduraganavar and S. R. Inamdar, Synthesis and Nonlinear Optical Properties of Polyurethanes Containing Nitro-Substituted 1,3,4- Oxadiazole Chromophore, *Synthetic Metals* **159 (2009) 1812-1819 (Elsevier)**.
2. **R. G. Tasaganva**, S. M. Tambe and M. Y. Kariduraganavar, Synthesis and Characterization of Thermally Stable Second-Order Nonlinear Optical Side-Chain Polyurethanes Containing Nitro-Substituted Oxadiazole and Thiazole Chromophores, *Journal of Molecular Structure* **1000 (2011) 10-23 (Elsevier)**.
3. **R. G. Tasaganva**, M. Y. Kariduraganavar, R. R. Kamble and S. R.

- Inamdar, Development of Novel Crosslinkable Polymers for Second-Order Nonlinear Optical Devices, *Synthetic Metals* 161, Issue 17-18 (2011) 1787-1799 (Elsevier).
4. S. M. Tambe, R. G. Tasaganva, J. J. Jogul, D. C. Castiglione and M. Y. Kariduraganavar, Development of Polyurethanes with Azo-Type Chromophores for Second-Order Nonlinear Optical Applications, *Journal of Applied Polymer Science*, 114 (2009) 2291-2300 (Wiley Publication).
  5. M. Y. Kariduraganavar, S. M. Tambe, R. G. Tasaganva, A. A. Kittur, S. S. Kulkarni and S. R. Inamdar, Studies on Nonlinear Optical Polyurethanes Containing Heterocyclic Chromophores, *Journal of Molecular Structure* 987 (2011) 158-165 (Elsevier).
  6. R. G. Tasaganva, S. M. Tambe, S. R. Inamdar and M. Y. Kariduraganavar, Synthesis of Thermally Stable New Polyurethanes Containing Nitro-Substituted 1,3,4- Oxadiazole Chromophores for Second Order Nonlinear Optical Applications, *Journal of Applied Polymer Science (Communicated)* (Elsevier).
  7. S. M. Tambe, R. G. Tasaganva, S. R. Inamdar and M. Y. Kariduraganavar, Synthesis and Characterization of Nonlinear Optical Side-Chain Polyimides Containing Thiadiazole Chromophores, *Journal of Applied Polymer Science* (vol.125, 1049-1058) 2012, (Wiley Publication).
  8. Synthesis of Thermally Stable new Polyurethanes Containing Nitro Substituted 1,3,4 Oxadiazole Chromophore for Second Order Nonlinear Optical Applications. *Journal of Optik* (vol.126, 4991-5000) 2015, (Wiley Publication).



### INSTRUMENTS HANDLED:

- HPLC (High Performance Liquid Chromatography)
  - GC (Gas Chromatography)
  - Nd:YAG LASER
  - FT-IR spectrometer
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- NMR spectrometer (Bruker-300 MHz)

### PERSONAL DETAILS:

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Date of birth : June, 1<sup>st</sup> 1978

Sex : Male

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Nationality : Indian (Hindu, Brahmin)

Languages known : English and Kannada

I hereby declare that the above furnished is true to my knowledge.

**(Dr.Raghavendra G. T)**

### REFERENCES:

Dr. M. Y. Kariduraganvar  
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