



## Contact

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<https://scholar.google.co.in/citations?user=bt1PMXkAAAAJ>

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<https://www.researchgate.net/profile/Onkarappa-K-S>

## Dr. ONKARAPPA K S

Professor and Director, SMPS.

### Faculty

Faculty of Basic and Applied Science

### School / Program

School of Mathematical and Physical Sciences.

### Faculty Introduction

Dr. ONKARAPPA K S. received a Master's degree from Kuvempu University, Shimogga, India in 1991. He completed his Ph.D. degree from Kuvempu University, Karnataka, India under the guidance of Dr. K.S Basavrajappa., in 2009. He is currently working as professor and Director SMPS at GM University, Davangere. Dr. Onkarappa K S. published more than 10 Research articles in reputed Scopus indexed journals. He is guiding 05 research scholars. under his guidance. His main area of research includes Mathematical Modelling in Biomechanics and Graph Theory.

### Qualifications

#### Ph.D. (Bio Mechanics)

Kuvempu University, Shimogga, 2009

#### M.Sc. (Mathematics)

Kuvempu University, Shimogga, 1991

#### B.Sc. (PCM)

Mysore University, Mysore, 1989

### Experience

#### Teaching

- 34 years.
- Worked as a Lecturer at M B R & B L R College, Sirigere. (From 1991-2001).
- Worked as a Lecturer, Senior Lecturer, Assistant Professor, Associate Professor at GMIT, Davanagere (from 2001 – 2015)
- Professor at GMIT, Davanagere (from 2015 – till date)

#### Research

- Mathematical Modelling in Biomechanics
- Graph Theory

#### Training Program Attended



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GM UNIVERSITY

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- Three day National workshop on Applications of Mathematics in Engineering and Technology from 1st October to 3rd October 2004 at AIT, Chikmagalur.
- National Conference on Environmental Pollution Control and Repercussions on 4th and 5th October 2004 at UBDT College of Engineering, Davangere.
- Two day State level work shop on Applications of Mathematics to Engineering and Industries on 10th and 11th September 2005 at SDM. College of Engineering and Technology, Dharwad.
- Three day National conference on Mathematical methods and applications on 17th and 18th March 2007 at BEC, Bagalkot.
- Two day National seminar on the role of Teacher in the evaluation process and ISTE state level annual convection at GMIT, Davangere on 20-21 November 2009.
- Three day International conference on mathematical modeling and nonlinear equations at BNM Institute of Technology Bangalore on January 20-22, 2010.
- One day work shop on Mathematics and its applications in Engineering on 18th February 2009 at BIET, Davangere.
- One day work shop on Mathematics and its applications in Engineering on 18th February 2010 at BIET, Davangere
- Participated One Day Program on “Ramanujan Mathematics Awareness Programme” on 1 st Mar 2013 at BIET, Davangere.
- Participated in One Day “Workshop on Basic Science Syllabus for BE Programs” on 20 th Aug 2014, UBDT, Davangere.
- Two day National Conference on Mathematics and its Application on 22-23 December 2015.
- Participated as a paper presentation session coordinator for two day National Conference & Tech Fest on 26-27 October 2018 at GMIT Davangere.
- Co-ordinated in 17 th Karnataka State Level ISTE Student Convention Themed as “Sustainable Development Through innovative Technologies” on 23 rd July 2022 at GMIT Davangere.

#### Research Interest

- Mathematical Modelling in Biomechanics
- Graph Theory

#### Organization of Conference/Workshop

- nil

#### Publication / Patents

- Ph.D. Dissertation: Analytical solutions to quantify the physiological parameters of some problems in reference to health hazards - A Mathematical model
- Study on diabetes mellitus under the administration of quantitative diet using Joslin's principles for various body frames, abstract in Journal of Biomechanics [2006], Vol. 39, (suppl. 1), page S 616.



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- Assessment of Bio-heat distribution in the spherical tissue layers a mathematical model to quantify the necrotic core temperature of the tumour using series solution technique, abstract in Journal of Biomechanics [2006], Vol. 39, (supply 1), page S 607.
- A study on mathematical modeling on human blood in reference to the variation of hematocrit, published in the Journal of Analysis & Computation, Vol. 4, No.1, [2008], Page 21-32.
- Peristaltic transport of bio fluid in the presence of varying temperature with a reference to dermal layer –A mathematical model. Published in Arya Bhatta Journal of Mathematics and Informatics, Volume. 2, No.1, Jan-June, 2010.
- Mathematical Model to Study the Bio-Heat Distribution in Reference to Spherical Tumour to Quantify the Necrotic Core Temperature, Indian Journal of Biomechanics: Special Issue . (2009)
- Mathematical Model to Study the Bio-Heat Distribution in Reference to Spherical Tumour to Quantify the Necrotic Core Temperature. Indian Journal of Biomechanics: Special Issue (2009).
- Peristaltic Transport of Two Layered Viscous Incompressible Fluid with Varying Amplitude. International Journal of Mathematical Modeling and Physical Sciences, (2014)

#### Administrative Responsibilities

- Presently working as Director, SMPS. Faculty of Basic and Applied Science
- Worked as a Student Welfare Officer.
- Presently working as a Coordinator for the first year students.
- Worked as a Dean Academic in the college.
- Worked as a Deputy Chief Internal and External Examiner in VTU Examinations.
- Worked as a Flying Squad chairman in VTU Examinations.
- Worked as a Member for Board of Studies in Engineering Mathematics during the year 2006-09 for Kuvempu University
- Worked as a Member for Board of Examiner in Engineering Mathematics during the year 2007-10 for Kuvempu University
- Worked as a Member for Board of Examiner in Engineering Mathematics during the year 2009-12 for Davangere University
- Worked as a member of board of examiner in Engineering Mathematics during the year 2010-11 for VTU
- Working as E-Attestation Officer from 2019 to till date.
- Working as Associate Head Proctor in GM University.

#### Projects Guided

- Nil

#### Funded Projects / Grants Received

- Nil

#### Any Other Contributions

- Working as vice president for GM I T Multipurpose Cooperative Society