



Profile

1. Name : **Dr. K. S. ONKARAPPA**
2. Father's Name : **K. S. SADASHIVAPPA**
3. Date of birth : **01 - 05 - 1968**
4. Present address : **Dr. K. S. ONKARAPPA**
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5. Marital status : **Married**

6. Academic Qualification

Sl No.	Exam Passed	Year of Passing	Division/Percentage	Institution / University
1	B. Sc	1989	II 54%	Govt. Science college, Chitradurga, Mysore University
2	M.Sc	1991	I Rank 64.5%	Department of Mathematics Kuvempu University, Shankaraghata, Shimoga.
3	Ph. D	2009	--	Department of Mathematics Kuvempu University, Shankaraghata, Shimoga.

7. Specialization in M.Sc : Magneto hydrodynamics and Differential Topology
9. Title of the Ph.D Thesis : **“Analytical solutions to quantify the physiological parameters of some problems in reference to health hazards - A Mathematical model”.**
10. Field of interest : Mathematical modeling on Human diseases
11. Modeling on special fields : Noise effect, Peristaltic transport, Bio heat distribution, Communicating arteries, Industrial pollution.
12. Post Held : Professor & Head, Dept. of Mathematics,
G M Institute of Technology, Davangere-577006
13. Teaching Experience : 25 (Twenty Five) years.
14. **Research papers**

I. Journals

- a) **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.
- b) **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.
- c) **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.
- d) **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.

- e) 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)
- f) 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).
- g) Peristaltic Transport of Two Layered Viscous Incompressible Fluid with Varying Amplitude. International Journal of Mathematical Modeling and Physical Sciences, (2014)

II Papers presented in National / International Conferences

- a) **Mathematical model on industrial pollution and spread of infections disease using growth models for epidemics**, presented in the national conference on industrial pollution control at UBDTCE, Davangere on 4-5, October 2004.
- b) **A study on mathematical modeling on human blood in reference to the variation of hematocrit**, presented in the national conference on mathematical methods and applications at BEC, Bagalkot on 17-18, March 2007.
- c) **A Study on Physiological effects of Noise using Mathematical Modeling's** presented in the national conference on mathematical methods and applications at BEC, Bagalkot on 17-18, March 2007.
- d) **Mathematical modeling on pulsatile flow in carotid artery bifurcation in reference to atherosclerosis with varying frequencies**, presented in the international conference on mathematical modeling and nonlinear equations at BNM Institute of Technology Bangalore

on January 20-22, 2010.

- e) **Mathematical Model to Study the Bio-Heat Distribution in Reference to Spherical Tumour to Quantify the Necrotic Core Temperature**, Presented in the **International Conference** on mathematical modeling and nonlinear equations at BNM Institute of Technology Bangalore on January 20-22, 2010
- f) [Bio-Heat Distribution In Reference To Spherical Tumour using Fisher-Kolmogoroff equation](#) Conference Paper · Jan 2015

15 Short Term courses attended

- a) Faculty development Programme on “Mathematical modeling of Engineering problems” from 08 - 10, September 2006 in the Department of Mathematics, Malnad College of Engineering, Hassan.

16 Work shops /Conferences attended

- a) Three day National workshop on **Applications of Mathematics in Engineering and Technology** from 1st October to 3rd October 2004 at AIT, Chikmagalur.
- b) National Conference on **Environmental Pollution Control and Repercussions** on 4th and 5th October 2004 at UBDT College of Engineering, Davangere.
- c) 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.
- d) Three day National conference on **Mathematical methods and applications** on 17th and 18th March 2007 at BEC, Bagalkot.

- e) 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.
- f) Three day **International conference on mathematical modeling and nonlinear equations** at BNM Institute of Technology Bangalore on January 20-22, 2010.
- g) One day work shop on **Mathematics and its applications in Engineering** on 18th February 2009 at BIET, Davangere.
- h) One day work shop on **Mathematics and its applications in Engineering** on 18th February 2010 at BIET, Davangere.

17. Institute Assignments

- a) Presently working as Head of the department in Mathematics.
- b) Worked as a Student Welfare Officer.
- c) Presently working as a Time table in charge for the first year students.
- d) Presently working as a dean academic in the college
- e)

University Assignments

- a) Worked as a Deputy Chief Internal and External Examiner in VTU Examinations.
- b) Worked as a Flying Squad chairman in VTU Examinations.
- c) Worked as a Member for Board of Studies in Engineering Mathematics during the year 2006-09 for Kuvempu University
- d) Working as a Member for Board of Examiner in Engineering Mathematics during the year 2007-10 for Kuvempu University
- c) Working as a Member for Board of Examiner in Engineering Mathematics during the year

2009-12 for Davangere University

- f) Worked as member of board of examiner in Engineering Mathematics during the year 2010-11 for VTU.

(Dr. K. S. ONKARAPPA)