

## CURRICULUM VITAE



**Dr. KASBA RAMESH BABU**  
Assistant professor, Department Of  
Mathematics,  
University college of Engineering, Osmania  
University, Hyderabad, Telangana State ,  
India.

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### OBJECTIVE:

To be associated with a progressive organization which would promote my career prospects and give me scope to update knowledge and skills in accordance with the latest trends and be a part of team that dynamically works towards growth of organization and gain satisfaction thereof.

### ACADEMIC QUALIFICATIONS:

<b>PhD</b>	<b>in Mathematics (Applied Maths ) from Osmania University, Hyderabad A.P. India ( 2002 )</b>
<b>Field of specialization</b>	<b>Applied Mathematics / FLUID MECHANICS</b>
<b>M.Sc</b>	<b>in pure Mathematics from Osmania University, Hyderabad, A.P. Indi (1994)</b>
<b>B.Sc</b>	<b>(in Mathematics, Physics, and Chemistry) from Osmania University Hyderabad, India (1992)</b>

### EMPLOYMENT BACKGROUND / TEACHING EXPERIENCE:

<b>Abroad</b>	
<b>30<sup>th</sup> March , 2008</b>	<b>Assistant Professor of Mathematics, Department of Mathematics, Eritrea Institute of Technology, Mai Nefhi, Asmara, Eritrea (North-East Africa).</b>
<b>2008-2012</b>	<b>Assistant Professor, Department of Mathematics University Of Gondar, Ethiopia. ( 2012-2013 )</b>
<b>Subjects teaching</b>	<b>Diffe.Equations, Lap lace &amp; Fourier Transforms, Vector Calculus &amp; Vector Integration ,Topology, Number Theory , Modern Algebra, and Freshman Maths</b>
<b>Level of Teaching</b>	<b>Graduate and Undergraduate &amp; Post Graduate &amp; Engineering Maths</b>
<b>In India</b>	
<b>From 1994-1997</b>	
<b>From 1997-2000</b>	<b>I worked in Various Intermediate colleges in Twin Cities.</b>

From 2000-2002	I worked as a <i>Asst.Prof</i> in Progressive Engg. College, BommalaRamaram, Nalgonda Dist.
From 2002-2004	I worked as a <i>Asst.Prof</i> in MIST, Chevella, R.R.Dist
From 2004-2005	I worked as a <i>Asst.Prof</i> in GNEC, Ibrahimpatnam, R.R.Dist
From 2005-2007	I worked as a <i>Asst.Prof &amp; Head</i> in Scient Engg. College, Ibrahimpatnam, R.R.Dist
From 2007-2008	I worked as a <i>Asst.Prof</i> in JBIT, R.R. Dist.
Nature of Work	Handling Mathematics Paper for Engineering students
Level of Teaching	Graduate & Post- Graduate & Engineering Maths Level

**RESEARCH EXPERIENCE:**

**Ph.D. Thesis Title**

**“ Computational Techniques in Bio-fluid Mechanics, MHD and Dusty Viscous Flows “**

**Research Work Carried Out**

- I Have Applied Numerical Technique’s Methods & solved governing equations using C & C++ .....etc Lang.

**COMPUTER SKILLS:**

MS-Windows, Ubuntu (Linux), MS-Office	
<b>Academic Activities</b>	
<b>Member Board of Studies :</b>	UG From 26-08-2016 (Department of Mathematics, UCS, Osmania University)
<b>Membership of Professional Bodies :</b>	Member of <b>Syllabus Expert Committee</b> , TSECET [FDH & B.Sc ( Maths) ] From 2014, JNTU, Hyderabad, TS.
<b>Guest Lecturer :</b>	Guest Lecturer for M.Sc ( Maths ) Students in PG Centre at Narsapur, Medak ( Dist ) From 2015
<b>Administrative Positions Held</b>	
<b>In charge of the Department :</b>	3 years (2014 to 2017) as Head of the Department
<b>I/C of NSS , Unit - I :</b>	NSS Programme Officer from Jan 2015
<b>Confidential Team Member :</b>	From 2014 OUPG - CET , OU- Ph.D CET,
<b>Counseling Member :</b>	As <b>Certificate Verification Officer</b> for OU PG – CET , PG Medical
<b>Examination Work :</b>	From 2014 Observer, Squad, Paper setting for UG and PG , Paper Valuation for UG & PG

### Participation in Corporate Life In the University

- Member, Finance Committee, UPGC, Secunderabad.
- Member, Audit Committee, UPGC, Secunderabad.
- Member, Academic Advisory Committee, UPGC, Secunderabad.
- Member, Student Welfare Committee, UPGC, Secunderabad.
- Member, Admissions Committee, UPGC, Secunderabad.
- Member, Library Committee, UPGC, Secunderabad.
- Member, Hostel Coordination Committee, UPGC, Secunderabad.
- Member, Health Centre Committee, UPGC, Secunderabad.

### **PUBLICATIONS**

1. K. Ramesh Babu & B. Shankar Particle- fluid suspension model for Pulsatile blood flow under periodic body acceleration in arteries *Journal of Pure & Applied physics*, vol.19, No.1, Jan-Mar, 2007 ,pg 1-5.
2. K. Ramesh Babu & B. Shankar Numerical solution of Oscillatory Flow of Blood in a stenosed Artery *Journal of Pure & Applied physics*, vol.19, No.1, Jan-Mar, 2007 ,pg 11-17
3. K. Ramesh Babu & B. Shankar Hydrodynamic Lubrication of Synovial Fluid *Journal of Pure & Applied physics*, vol.19, No.1, Jan-Mar, 2007 ,pg 25-2
4. K. Ramesh Babu & B. Shankar, Numerical Solution of Hydro magnetic Non-Newtonian fluid motion past an Infinite flat plate *Journal of Pure & Applied physics*, vol.20, No.4 , oct-Dec, 2008, pp.263-272
5. K. Ramesh Babu & B. Shankar, Numerical solution of Heat & Mass Transfer along a vertical plate in the presence of a Magnetic field, *Journal of Energy, Heat and Mass Transfer*, vol 31, No.1, March 2009, pp.21-26
6. K. Ramesh Babu & B. Shankar Transient Flow of a Dusty Elastico-Viscous Liquid in the Ekman Layer *Journal of Pure & Applied physics*, vol.22, No.1, Jan-Mar, 2010 ,pg 49-59
7. K. Ramesh Babu & G. Srinivas MHD Three-Dimensional Flow through a Porous Medium with Thermal Radiation and Viscous Dissipation: A Finite Difference Study *Alochana Chakra Journal*, vol.IX, Issue VI, June/ 2020. Pg8722, ISSN NO: 2231-3990
8. K. Ramesh Babu. G. Narender, K. Govardhan MHD Flow of an Eyring-Powell Fluid with the effect of Thermal Radiation, Joule Heating and Viscous Dissipation The special issue on International Web Conference on Mathematics for Materials Science, Signals, Images and Structured Data ( ICMMSIS-2020 ). *Advances in Mathematics : Scientific Journal*, Vol.9 , No.11, 2020.
9. K. Ramesh Babu Finite Element Analysis of MHD Natural Convective Jeffrey Fluid Flow Past A Semi-Infinite Moving Porous Plate. Cite as: AIP Conference Proceedings 2358, 110006 (2021); <https://doi.org/10.1063/5.0057958> Published online: 30 July 2021.

## **PRESENTATIONS & CONFERENCES**

1. Presented a paper on “Numerical solution of Oscillatory Flow of Blood in a stenosed Artery “  
Forty sixth congress of The Indian society of Theoretical and Applied Mechanics,  
REC, Hamirpur, Himachal Pradesh, Dec19-22, 2001, pg.219-225.  
K. Ramesh Babu & B. Shankar
2. Attended National Conference on Recent Trends in Fluid Mechanics  
National Conference and its Applications,  
Department of Mathematics, Osmania University, Hyderabad, A.P., India (26th March  
2003).  
K. Ramesh Babu
3. Presented a paper on “ Transient MHD Viscous flow between two parallel plates “  
II International Conference on Applications of Fluid Dynamics Organized by  
Department of Mathematics, SVU, Tirupati, A.P, India, in Association with University of  
Botswana, Gaborone, 21st to 23rd July 2014
- 4 Participated in Chair Session in “ National Conference on Role of Mathematics in  
Real world Problems “ Organized by Department of Mathematics, Aurora’s Degree  
and PG College, Osmania University, Chikkadpally , Hyderabad, TS, India on Feb27-28,  
2015.
5. Participated as Keynote Address in “International Conference on Innovative  
Methods in Engineering Applications, Applied Sciences and Management Cases”  
(IMEASMC-2016) Sponsored by Anveshana Educational and Research Foundation (   
AERF ) ,Hyderabad, TS, India on 31st January 2016 .
6. Presented a Paper in International web conference on Mathematics for materials  
science, signals images and structured data (ICMMSIS-2020) organized by Bannari  
Amman Institute of Technology , Tamilnadu on 23rd and 24th July 2020.  
Presented Paper titled “ MHD Boundary Layer Flow of an Eyring – Powell fluid with the  
effect of Thermal Radiation, Viscous Dissipation and Joule Heating “ on 24th of this  
month at 4PM. This paper is also to be published in Scopus Journal .
7. Delivered an Invited Talk on “Study of heat transfer by convection in a square  
cavity with saturated porous medium” , National Conference on Advances in  
Computational Fluid Dynamics, during 12th and 13th April 2019, Andhra kesari Tanguturi  
Prakasam University, Ongole, AP, India.
8. Participated in “National Seminar on Recent Trends in Mathematical Analysis  
and Mathematical Modeling”, during 27th April 2019, PG Centre, AV College,  
Hyderabad.
9. Presented a research Paper entitled “ Oscillatory Flow of Blood in a Stenosed  
Artery, International Conference on Mathematical Sciences and Applications, during 9-  
11, Aug 2019 at GITAM University, Hyderabad.

10. Delivered an Invited Talk on “Numerical Solution of Heat and Mass Transfer on Hydro Magnetic Oscillator of Visco Elastic Fluid in an Inclined Porous Channel”, International Conference on Mathematical Sciences – 2019, during 11th – 13th Nov, 2019 at Smt. Gentela Sakuntamma College, Jaggayyapet, AP, India
11. Presented a research Paper “Effects of Thermo- Diffusion and Radiation on Mixed Convection Heat and Mass Transfer in an Axially Varying Pipe”, XXVIII Congress of APTSMS and National Conference on Recent Trends in Pure and Applied Mathematics, during 6th -8th Dec, 2019, Rashtriya Sanskrit Vidyapeetha, Tirupathi, AP, India.
12. Presented a research Paper titled “Hydromagnetic and Radiation Effect on Mixed Convective Heat Transfer through a Porous Medium in a Rotating Horizontal Channel”, National Conference on Industrial Applications of Mathematics and its Developments, during 13th and 14th Mar 2020, Kuvempu University, Shivamogga, Karnataka State.
13. Delivered an invited lecture on “Dissipative and radiation effects on heat transfer flow of various fluid in a vertical channel”.
14. Presented a research article on “Knowledge management in higher education institution” International Conference for development discourse, during 8-10th Feb, 2019.
15. Delivered lecture on National Conference on advanced Computational fluid dynamics, 12, 13, April 2019, Andhra Pradesh University.
16. Attended work shop on “Mathematical modelling and Numerical Techniques in Engineering & Science in NIT, Warangal 9-13, Oct, 2018.
17. Participated in two day workshop on “Physics of fluids methods and applications” At Gitam University, Hyderabad, during 1st and 2nd, March 2019.
18. Attended as a guest of honor and also presented a paper as invited talk in Two days National conference on Mathematical advances in science and industrial technology sponsored by UGC, Dept. of Mathematics, ANU, AP, In Ongole Campus in Offline mode on 26th and 27th March, 2021
19. Organized Two-Day National Webinar on “Mathematics and its Applications (NWMA-2020)” by K.Ramesh Babu, Dept. of Mathematics, UCE, OU in association with APTSMS on 19th and 20th May, 2020.
20. Organized Five-Day Online International Faculty Development Programme on “Role of Applied Sciences in Industry and Engineering” (IFDPRASIE – 2020) by Department of Mathematics, UCE, OU in Association with APTSMS conducted from 2nd to 6th August 2020.
21. Presented a Paper entitled “Viscous Dissipation Effect on Boundary Layer Flow of an Eyring- powell Fluid Flow” in the International Conference on advances in science, Engineering and Mathematics (ICASEM – 2020) held on 7th to 9th August 2020 in Virtual Mode in association with APTSMS at Annamacharya Institute of Technology and Sciences (A), Rajampet, AP

22. Presented a Paper entitled “ MHD Tangent Hyperbolic Nanofluid towards a stretching surface with slip condition” in the International Conference on Research Trends in Mathematics ( ICRTM – 2020 ) Organized by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai held during August 25th – 26th 2020, through online platform

23. Presented a Paper entitled “Finite Element Analysis of MHD Natural Convective Jeffrey Fluid Flow Past A Semi-Infinite Moving Porous Plate” in the 2nd International Conference on Manufacturing, Material Science and Engineering organized by Department of Mechanical Engineering, CMR Institute of Technology, HYD during 18th and 19th December, 2020.

#### **WORKSHOP :**

1. Participated in “**National Workshop on Recent Advanced Techniques in Fluid Dynamics**” Organized by Department of Mathematics, UCS, OU, Hyderabad, TS, India on Dec 8-10, 2014
2. Participated in Two Day Workshop on Computational Fluid Dynamics with Mathematica Under TEQIP-III (JNTUH), 13th -14th Dec 2019, CVR College of Engineering, Hyderabad, TS, India.
3. Delivered an Invited Talk on “Effect of MHD Flow of a Polar Fluid Past an Infinite Plate with Constant Suction”, International workshop on Mathematics Meets the world:Recent Trends and Developments, during 30th Jan – 3rd Feb 2020 at VIT, Tamilnadu.
4. Participated in Five Day National Workshop on Physics of Fluids: Methods and Applications, 1-2 March 2019 and 20-22 Feb 2020 at GITAM University, Hyderabad.
5. Participated in Two Day National Level Workshop on “FEM Applications for Mechanical Engineering and Science using Mathematica”, 28th- 29th Feb 2020, CBIT, Proddatur, AP, India.
6. Attended work shop on “ Mathematical modelling and Numerical Techniquics in Engineering & Science in NIT, Warangal 9-13, Oct, 2018.
7. Participated in two day workshop on “ Physics of fluids methods and applications” At Gitam University, Hyderabad, during 1st and 2nd , March 2019.

#### **ORIENTATION / REFRESH COURSE:**

1. Participated in UGC Sponsored **Orientation Course** Organized from **02-06-2014 to 30-06-2014**, **UGC- ACADEMIC STAFF COLLEGE, HRDC, Osmania University**, Hyderabad, TS, and India and obtained “**A**” grade.
2. Participated in UGC Sponsored **Refresher Course** Organized from **18-09-2015 to 09-10-2015**, **HRD, UGC- ACADEMIC STAFF COLLEGE, HRDC, Osmania University**, Hyderabad, TS, and India and obtained “**A**” grade.
3. Attended the “ **Induction Programme**” held on **June 20-21, 2014** Organized by **UPE- Centre for Professional Advancement and Continuing Education ( C-PACE ) in Association with Internal**

**Quality Assurance Cell ( IQAC ) ,Osmania University, Hyderabad,TS,India.**

**4. Attended FDP:**

Attended FACULTY DEVELOPMENT PROGRAMME (FDP) on High Accuracy, High Performance Computing of Fluid Flows. During 30 December 2019 –03January 2020, Sponsored by TEQIP-III, University College of Engineering (UCE), Osmania University.

**SEMINARS:**

1. “Numerical Solution of Free Convention Effects on MHD flow past an infinite Vertical Oscillation plate with constant Heat flux “  
National Seminar on current Trends in Fluid Mechanics,Nov,15-16  
Department of Mathematics, O.U. Hyderabad , A.P., India (2001).  
K. Ramesh Babu
2. “ Participated in National seminar on Current Trends in Fluid Mechanics “  
National Seminar on current Trends in Fluid Mechanics,March30-31,  
Department of Mathematics, O.U, Hyderabad, A.P., India (2001).
3. “ Numerical solution of Oscillatory Flow of Blood in a stenosed Artery “  
National seminar on current Trends in Fluid Mechanics sept.20-22,  
University college of Engineering, Osmania University, A.P, Hyderabad, India (2007).  
K. Ramesh Babu

**PAPERS COMMUNICATED:**

1. Viscous Dissipation Effect on Boundary Layer Flow of an Eyring -Powell Fluid Flow ( Scopus )
2. MHD Tangent Hyperbolic Fluid towards a stretching surface with slip condition ( Web of Science )
3. Impact of Cattaneo-Christov heat flux on hydromagnetic flow of Non-Newtonian fluids filled with Darcy – Forchheimer porous medium “ ,Waves in Random and Complex Media, 2020-0232.

**Achievements:**

Published 9 papers / communicated two papers for publications.

1. Conducted Training Programme, Participated as a Resource Person in Mathematics, for Junior Lecturers working in Govt.Jr.Colleges in Mahabubnagar Dist. It was organized by Govt.of Telangana, Intermediate Education Dept. on 02-12-2015.
2. In this lockdown period he has Participated in various (15) webinar Programmes National/ International / FDP .....etc to enhance the professional skills as a part of work from home.

3. Appointed as External Examiner for the Conduct of Colloquium ( Viva-Voice for Ph.D) of Three Research Scholars, JNTU, Hyderabad, during 7/5/2019 , 16/5/2019 and 13/1/2020
4. Guest Lecture in Dr. B. R. Ambedkar college , Baghlingampally, Hyderabad on Differential and Integral calculus for B. Sc students, March 2021.
5. Appointed as BOS member in TKR college of Engineering, Hyderabad, as per norms and received the appointment letter, March 2021.
6. Appointed as BOS member in Gurunanak college of Engineering and Technology, Hyderabad, as per norms and received the appointment letter April 2021.

### **Excellence Award – 2021**

Received “ BHARAT SHIKSHA GAURAV PURASKAR” and Certificate of Excellence for “Outstanding Achievements and Remarkable Contribution in the Field of Education” by KTK OUTSTANDING ACHIEVERS AND EDUCATION FOUNDATION at New Delhi on 27<sup>th</sup> June 2021

Responsibility: Teaching & Research

Research Experience : 5year’s in the Dept.of Maths, UCS, OU, Hyderabad

**Secured more than 95% feedback in the students Evaluation**

**Achieved 98% pass percentage in the JNTU and OU End Exams**

### **PERSONAL DETAILS:**

Father’s Name : **Kasba Jagan Mohan**  
Date of Birth : **22 -02- 1973**  
Marital Status : **Married**  
Nationality : **Indian**  
Permanent Address : **Dr.K. Ramesh Babu, H.No. 6-5-30/11, S.F. Colony, N.G.O.’s Colony, Vanastalipuram, Hyderabad - 500070, A.P., India.**  
**Ph.no. +91- 40- 24241266 ( Res )**  
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