



PROFILE OF DR. K. SOMAIAH

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1. Name : **Dr. K. Somaiah**
2. Sex (M/F) : **Male**
3. Nationality : **Indian**
4. Qualification : **M.Sc., Ph.D.**
5. Broad Subject : **Mathematics**
6. Area of Specialization : **Elasticity**
7. Academic Qualifications :

Examination / Degree	Name of the Board/University	Month & year of award of the degree	Division	% of Marks
SSC	Board of Secondary Education, Andhra Pradesh	April, 1987.	First	73.66%
Intermediate	Board of Intermediate Education, Hyderabad (A.P.)	March, 1989	First	67.6%
Under Graduate	Kakatiya University, Warangal.	Annual, 1992	First with Distinction	74.22%
Post-Graduate	Kakatiya University, Warangal.	April, 1994.	First with Distinction	84.33%

8. Research Degree

Degree	Title	Date and Year of Award	University
Ph.D.	Wave Propagation in Micro-elastic Solids.	July, 2009.	Kakatiya University, Warangal, INDIA.

9. Present Position : **Assistant Professor**

10. Positions Held : **In charge Department of Mathematics, Univ. Arts & Science College [K.U], Subedari, Hanamkonda, Warangal from academic Year 2013-2016.**
11. Teaching Experience : **i) Part-time Lecturer at Univ. Arts and Science College, [KU], Subedari, Hanamkonda, from 1994-1997.**
- ii) Lecturer at Masterji Degree& PG College, Hanamkonda, from 1997-2005.**
- iii) Contractual Lecturer at Univ. Arts and Science College, [KU], Subedari, Hanamkonda, from 2005-2010.**
- iv) Assistant Professor at Kakatiya University, from 2010 to till date.**
12. Research experience in years : **07 Years**
13. No. of Papers Published : **19**
- [i] Accepted : **02**
- [ii] Communicated : **---**
14. Address : Department of Mathematics,
Kakatiya University,
Warangal - 506 009.[T.S],
INDIA.
15. Email : somaiahkamidi@gmail.com
16. Phone : **+91 9849571898**

17. Membership/Participation in Bodies/Committees on Education and National Development:

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| <p>i. BOS Member for Department of Mathematics, KU and Chaitanya Degree College (Autonomous), Hanamkonda.</p> <p>ii. DC Member for Department of Mathematics, KU</p> <p>iii. Governing Body Member of St. John College of Education, Aswaraopet, Khammam Dist.</p> <p>iv. Administrative Committees, like Counseling Duties.</p> |
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18. Details of Seminars, Conferences, Symposia organized

- i. **Organizing Secretary for the National Conference on Applications of Mathematics in Engineering and Industry from 26th – 28th March, 2013.**
- ii. **Took part in the workshops and conferences which were organized by the department in the capacity of organizing committee member.**

LIST OF PUBLICATIONS

- 1] **Somaiah., K**, Chandulal and Sambaiah., K. **“Propagation of Waves in an Infinite Micro-isotropic, Micro-elastic Solid.”** *“International Journal of Applied Mathematical Analysis and Applications”* July-December 2008, Vol.3,No.2,pp.179-187. ISSN: 0973-3868.
- 2] **Somaiah., K**, and Sambaiah., K. **“ Propagation of Waves at an un bounded interface between Micro-isotropic, Micro-elastic half spaces”** *“International Journal of Mathematics, Computer Sciences and Information Technology”* July-December 2009,Vol.2, No.2, pp.171-179.ISSN: 0974-5580.
- 3] A. Chandulal, **K. Somaiah** and K. Sambaiah., **“Propagation of SH waves in two Micromorphic half spaces.”** *“International e-Journal of Mathematics & Engineering 6”* (2010), pp.75- 85. ISSN: 0976-1411.
- 4] **K. Somaiah** ., A. Chandulal, and K. Sambaiah., **“Wave Propagation in Micro-isotropic, Micro-elastic Solid, when Macro- rotation and Micro-rotation are zero.”** *“International e-Journal of Mathematics & Engineering 15 ”* (2010), pp.156-162. ISSN 0976-1411.
- 5] **K. Somaiah** ., E. Anjan Rao., A. Chandulal, and K. Sambaiah., **“Wave Propagation in Micro-isotropic, Micro-elastic Solid in special case.”** *“International e -Journal of Mathematics & Engineering 23 ”* (2010), pp.234-239. ISSN 0976-1411.
- 6] E. Rama., **K. Somaiah** and K. Sambaiah., **“Radial Vibrations in an un bounded Micro-isotropic, Micro-elastic Solid having a Spherical Cavity.”** *“International Journal of Math.Sci. & Engineering Applications. (IJMSEA),”* Vol.5, No.III (May 2011), pp. 27-36.ISSN 0973-9424.
- 7] **Somaiah., K**, and Sambaiah., K. **“ Propagation of elastic waves in an infinite elastic solid with a cylindrical hole.”** *“International Journal of Advances in Mathematics and Mathematical Sciences,”* Vol.1, No.1, Jan-June, 2012, pp.49-52. ISSN-2278-0866.

- 8] **Somaiah., K,** and Sambaiah., K. “ **Polynomial solution of one-dimensional elastic wave equation.**” “*International Journal of Physics & Mathematical Sciences*” Vol. 4, (3), July- Sept. 2014, pp.74-77. ISSN: 2277-2111.
- 9] **Somaiah., K,** and Sambaiah., K. “ **Waves in Micro-isotropic, Micro-elastic Solid in case of Solenoidal Micro-rotation and Macro-displacements.**” “*International Interdisciplinary Research Journal* ” Vol. V, Issue-I, Jan-Feb.2015, pp. 102-108. ISSN 2249-9598.
- 10] **K. Somaiah** and K. Sambaiah., “**Elastic waves due to a time dependent force in an elastic Solid having a cylindrical hole.**” “*Proceedings of National Conference on Recent Trends in Science and Technology, (2015)*” Feb. 25-26, pp.323-325. ISBN: 978-93-82570-52-3.
- 11] **K. Somaiah** and K. Sambaiah., “**Propagation of Plane Waves in a Generalized Micropolar Elastic Solid with Voids.**” “*International Journal of Scientific and Innovative Mathematical Research (IJSIMR).*” Vol.3, Special Issue 1, July 2015, pp.175-180, ISSN: 2347-307X.
- 12] **K. Somaiah** and K. Sambaiah., “**Radial Vibrations Due to a Spherical Cavity in an Unbounded Micro-Isotropic, Micro-Elastic Solid in the Presence of Time Dependent Force and Couple.**” “*International Journal of Scientific & Engineering Research*” Volume 6, Issue 9, September-2015, pp.148-152. ISSN 2229-5518.
- 13] **K. Somaiah** and R. Srinivas, “**Propagation of Plane Longitudinal Waves in Micropolar Elastic Solid with Voids.**” “*Mathematical Sciences International Research Journal*” Vol. 4, Issue 2, (2015), pp. 61-64. ISSN: 2278 – 8697.
- 14] **K. Somaiah** and R. Srinivas, “ **Propagation of Waves in a Rotating Generalized Elastic Solid with a Cylindrical Hole.** “*Mathematical Sciences International Research Journal*” Vol.4, Issue 2,(2015), pp. 55-57. ISSN: 2278-8697.
- 15] Sreelakshmi., Rama., E, and **Somaiah., K,** “ **Effect of Rotation on Longitudinal Wave Propagation in an Elastic Solid with a Cylindrical Hole.**” “*Science Direct, Procedia Engineering 127(Elsevier)*” (2015), pp. 660 –664.” Available online at www.sciencedirect.com
- 16] **Dr. K. Somaiah.,** “ **Effect of Rotation and Micropolarity on Radial Vibrations in an Unbounded Micropolar Elastic Solid having a Spherical Cavity.** “Special Issue on Computational Science, Mathematics and Biology, IJCSME-SCSMB-16-March-2016.” pp.47-50. ISSN-2349-8439 [Available at www.ijcsme.com]

- 17] **K. Somaiah., “ Effect of Rotation on Radial Vibrations in an Un bounded Micro-isotropic, Micro-elastic Solid having a Spherical Cavity.”** “Palestine Journal of Mathematics,” Vol. 6 (1) (2017), pp.15-23.
- 18] **K. Somaiah., “ Radial Vibrations Due the Effect of Gravity in a Elastic Micropolar Medium having a Spherical Cavity.”** “[Asian Journal of Mathematics and Computer Research](#)” 16 (1):, (2017), pp.19-26. ISSN: 2395-4205 (P), ISSN: 2395-4213 (O).
- 19] **K. Somaiah., “Propagation of Plane Waves in Micro-stretch Elastic Solid in Special Case.”** “Global Journal of Pure and Applied Mathematics.” [Research India Publications] ISSN 0973-1768 Volume 13, Number 6 (2017), pp. 2143-2151.
- 20] **K. Somaiah., “ Plane Wave Propagation in rotating Micropolar Micro-Stretch Elastic Solid in Special Case”** [Accepted for special issue of Springer “ *Lecture Notes in Mechanical Engineering*”-2017]
- 21] **K. Somaiah., and R. Srinivas “ Radial Vibrations in an Unbounded Micropolar Elastic Solid having a Fluid Loaded Spherical Cavity”** [Accepted for special issue of Springer “ *Lecture Notes in Mechanical Engineering*”-2017]

LIST OF CONFERENCES

- 1) **“XV CONGRESS”** Organized by Department of Mathematics, Kakatiya University, Warangal from 11-08-2006 to 13-08-2006.
- 2) **“5th National Conference on Applicable Mathematics in Wave Mechanics and Vibrations”** Organized by Department of Mathematics, Kakatiya University, Warangal from 13-03-2010 to 15-03-2010.
- 3) **“XIX Congress and National Conference on Mathematical aspects of Cryptography and Network Security”** Organized by Department of Mathematics, Jyothishmathi Institute of Technology & Science, Karimnagar, from 12-11-2010 to 14-11-2010.
- 4) **“XX Congress and National Conference on Mathematical Modelling & Simulation”** Organized by Department of Humanities & Sciences, Swarna Bharathi Institute of Science & Technology (SBIT), Khammam from 09-12-2011 to 11-12-2011.
- 5) **“ International Conference on Vibration Problems”** Organized by by Department of Mathematics, Kakatiya University, Warangal from 18-02-2015 to 20-02-2015.
- 6) **“A Two-Day National Conference on Recent Trends in Science and Technology”** Organized by JNTUH College of Engineering, Karimnagar from 25-02-2015 to 26-02-2015.
- 7) **“National Conference on Recent Trends and Advances in Mathematics and Its Applications”** Sponsored by UGC and Organized by Department of of Mathematics, Sri Padmavati Mahila Visvavidyalayam Tirupati, A.P. from 12th March 2015 to 13th March, 2015.

- 8) **“International Conference on Mathematical Sciences”** Organized by Department of Mathematics, Sri Venkateswara University, Tirupati from 13-07-2015 to 15-07-2015.
- 9) **“International Conference on Mathematics 2015”** Organized by Department of Mathematics University of Kerala in collaboration with International Multidisciplinary Research Foundation (IMRF), at Thiruvananthapuram, Kerala, from 26-11-2015 to 28-11-2015.
- 10) **“International Conference on Computational, Mathematical and Biological Modeling (ICMBM-2016)”** Organized by Department of Computer Science, Applied Mathematics and Sericulture, at Sri Padmavati Mahila Visvavidyalayam Tirupati, A.P. from 25th March 2016 to 26th March, 2016.
- 11) **“3rd International Conference on Applications of Fluid Dynamics (ICAFD-2016)”** Organized by Department of Applied Mathematics Indian Institute of Technology, (IIT), Dhanbad, Jharkhand State, India, from 19-12-2016 to 21-12-2016.
- 12) **“A three Day International Conference on Mathematical Sciences and Engineering Applications (ICMSEA) 2016”** Organized by BITS, Visakhapatnam, A.P. India, from 23-12-2016 to 25-12-2016.
- 13) **“ 20th International Conference of International Academy of Physical Sciences on Recent Advances in Physical Sciences and Future Challenges”** Organized by Faculty of Science (Department of Mathematics, Physics and Chemistry), Osmania University, Hyderabad, from 14-07-2017 to 16-07-2017.

ORIENTATION COURSE & REFRESHER COURSES

- 1) UGC Sponsored **“Orientation Course”** at UGC Academic Staff College, Osmania University, Hyderabad, from 28-09-2012 to 31-10-2012.
- 2) UGC Sponsored **“Refresher Course on Mathematical Modeling and Simulation for Scientists and Engineers”** at UGC Academic Staff College, JNTU Hyderabad, from 02-12-2013 to 21-12-2013.
- 3) UGC Sponsored **“Refresher Course in Mathematics”** at H. R. D. C. (UGC Academic Staff College), University of Hyderabad, Hyderabad, from 03-09-2015 to 23-09-2015.

TRAINING PROGRAMMES/WORKSHOPS

- 1) **“Departmental Training Programme on Multiple Integrals for UG Faculty Members”** Organized by Department of Mathematics, Kakatiya University, Warangal, on July 31, 2010.
- 2) **“National Workshop on Research Methodology in Sciences”** Organized by Department of Zoology, Kakatiya University, Warangal from 26-07-2011 to 28-07-2011.

- 3) **"UGC Sponsored Two-Day National Workshop on Graph Theory and Statistics"** Organized by Department of Mathematics, Kakatiya University, Warangal from 28-02-2012 to 29-02-2012.
- 4) **"Training Programme to PG Teachers of Affiliated Colleges"** Sponsored by APSICHE, Hyderabad, from 25-04-2012 to 01-05-2012, at Kakatiya University, Warangal. **[Resource Person & Participant]**.
- 5) **"SAKSHAM-IT Champion Training Program"** sponsored by Microsoft, from 01-04-2014 to 10-04-2014.
- 6) **"One-Day Workshop on SPSS 22 Application"** Organized by Department of Computer Science, Kakatiya University, Warangal, on 5th July, 2014.
- 7) Short-Term Course on **"e-Learning and ICT for Teaching & Learning"** organized by UGC-Human Resource Development Centre, J.N.T. University Hyderabad from 06-03-2017 to 11-03-2017.

LIST OF EXTENSION LECTURES/ GUEST LECTURES/ RESOURCE PERSON

- 1] Extension Lecture on **" Bessel Functions"** for M.Sc. (Mathematics) students from 2nd to 4th September, 2010, at Masterji Degree & PG College, Hanamkonda.
- 2] Resource Person for APSICHE Sponsored **" Training Programme to PG Teachers of Affiliated Colleges"** in the Department of Mathematics, Kakatiya University, Warangal from 25th April to 1st May, 2012.
- 3] Extension Lecture on **" Calculus Variations"** for M.Sc. (Mathematics) students from 18th to 21st November, 2013, at Masterji Degree & PG College, Hanamkonda.
- 4] Extension Lecture on **" The Concept of Multiple Integrals"** for B.Sc. (Mathematics) students on 23rd and 24th January 2015, at Kakatiya Mahila Degree College, Hanamkonda.
- 5] Resource Person for **" Orientation Program to the JL's of Warangal & Karimnagar Districts"** on 11th December, 2015.
- 6] Extension Lecture on **" Absolute Continuity"** for M.Sc. (Mathematics) students on 14th and 15th December, 2015, at Masterji Degree & PG College, Hanamkonda
- 7] Extension Lecture on **" Riemann Integration"** for B.Sc. (MPC, MPC'S & MStc's) students on 23rd January 2016, at Lal Bahadur College, Warangal.
- 8] Resource Person for **"Phase-II District Level Seminar on New Quality Policy-2016"** at T. T. W. R. Jr. College of Excellence Warangal 17th Sept.2016.
- 9] Extension Lecture on **" Vector Calculus"** for B.Sc. (Mathematics) students on 11th January 2017, at Lal Bahadur College, Warangal.