Personal Information

Name	Dr. J Manoj Kumar
Years of Experience	Teaching: 26 Years 3 Months Research: 5 years
Email Id	manojkumar.j@bvrithyderabad.edu.in
Areas of Specialization	Wave propagation in poroelastic solids



Educational Qualifications

Doctoral Degree	Ph.D.	Mathematics
PG Degree	M.Sc.	Mathematics
UG Degree	B.Sc.	Mathematics, Physics, Chemistry

Papers Published

International Journal Publications

- 1. A paper titled 'Effect of viscosity on waves propagating in a liquid loaded on poroelastic layered half-space' has been published in the open journal of Advanced Mathematical Model & Applications, vol.2, 144-154, 2017 (ISSN 2519-4445)
- 2. A paper titled 'A study on Propagation on love waves in viscous liquid layer bounded between poroelasic solids' has been published in the open journal of Applied & Theoretical Mathematics(OJATM), vol.2, 806-819, 2016 (ISSN 2455-7102)
- 3. A paper titled 'Analysis of flexural wave propagation in poroelastic composite hollow cylinder' has been published in the journal *International Journal of Engineering, Science and Technology*, vol. 8, 13-33, 2016. (ISSN: 2141-2820)
- 4. A paper titled 'A study on vibrations in a composite poroelastic concentric cylinder' has been published in the journal *Caribbean Journal of Science and Technology*, vol.3, 805-831, 2015 (ISSN 0799-3757)
- 5. A paper titled 'Vibration analysis of a poroelastic composite hollow sphere' has been published in the journal *Acta Mechanica*, vol.224, 327-341, 2013.(ISSN: 0001-5970)
- 6. A paper titled 'A Study on Plane-Strain Vibrations in a Poroelastic Composite Hollow Cylinder' has been published in the Journal of vibration analysis, measurement, and control, vol. 1, 1-28, 2013.(ISSN:2162-9854)
- 7. A paper titled 'Free vibrations of a fluid-loaded poroelastic hollow Sphere surrounded by a fluid' has been published in the journal *International Journal of Applied Mathematics and Mechanics*, vol. 9, 14-34, 2013.(ISSN:0973-0184)
- 8. A paper titled 'On the parametric model of loose bonding between two poroelastic half spaces' has been published by *Journal of Vibration and Control*, vol.18, 1261-1274, 2012. (ISSN: 1077-5463)

- 9. A paper titled 'Radial vibrations of an infinitely long poroelastic composite hollow circular cylinder' has been published in the journal *International Journal of Engineering*, Science and Technology, vol.4, 17-33, 2012. (ISSN: 2141-2820)
- 10. A paper titled 'Axial-shear vibrations in an infinitely long composite poroelastic circular cylinder', has been published in the journal *Special Topics and Reviews in Porous Media*, vol.2, 133-143, 2011.(ISSN: 2151-4798)

International Conference Publications

Conference series:

1. A paper titled 'On propagation of Love waves in an infinite transversely isotropic poroelastic layer' has been published in International Conference on Vibration Problems (ICOVP-2015), Journal of Physics: Conference Series 662 (2015) 012004. (doi:10.1088/1742-6596/662/1/012004)

Paper presentations:

- 1. Attended an International conference on "Innovation and Sustainable Development in Science, Social Science, Management & Technology" (ISDSSMT-19) and presented a paper entitled 'Radial Vibrations in a Fluid Loaded two Layered Poroelastic Cylindrical shell surrounded by a Fluid' conducted by DMI-ST.EUGENE University ,Lusaka,Jambia on 8th April 2019.
- 2. Attended an International conference on Recent inventions and innovations in Mathematical sciences(ICRIIMS-2019) and presented a paper entitled 'Love wave propagation in a viscous liquid bounded by transversely isotropic poroelastic solids' conducted by Dept of Applied Mathematics, VIZAC on 28th February and 1st March 2019.
- 3. Attended an International conference on 'Computational fluid flow and Heat Transfer and presented a Wave propagation in layered poroelastic cylinder in contact with fluid' conducted by Dept. of Mathematics, Osmania University on 28-29 March 2018
- 4. Attended an national conference on Computational fluid flow and Heat Transfer and presented a conducted by Dept. of Mathematics, Kakatiya University on 11-13 August 2017
- 5. Attended an International conference on Mathematical science & engineering applications and presented a paper entitled 'A study on Propagation on love waves in viscous liquid layer bounded between poroelasic solids' conducted by BITS, VIZAC from 23rd-25th December 2016.
- 6. Attended a national conference on **Recent Advances in Fluid Mechanics** and presented a paper entitled **Analysis of Radial Vibrations in an infinitely long poroelastic**

- *composite circular cylinder* conducted by Dept. of Mathematics, Osmania University from 30 to 31st, May,2016.
- 7. Attended an International conference on Vibration Problems and presented a paper entitled Torsional Vibrations of Circular Poroelastic Plates conducted by Dept. of Mathematics, Kakatiya University, from 18 to 20, February, 2015.

National Journal Publications:

1. C. Nageswaranath and J. Manoj Kumar, 'A study on propagation of Love waves in viscous liquid bounded between poroelastic layers' has been published in the journal *Open Journal of Applied and Theoretical Mathematics*, vol. 2, 806-819, 2016. (ISSN: 2455-7102).

FDP's Attended / Conducted

- 1. Attended FDP on "Entrepreneurship" organized by Centre for Entrepreneurship Development (CDE), Hyderabad from 18th March 2019 to 30th March 2019
- 2. Attended a workshop on "To train the trainers for implementation of "Induction Program" " organized by JNTUH, Hyderabad from 17th May 2018 to 19th May 2018.
- 3. Three day workshop on "Inspire Impact- Introspect Leadership Program" at VEIDC, SVES from 30th October to 1st November 2017.
- 4. A one week refresher course on 'Engineering Mathematics' held from 12th to 17th June, 2017 at CMR Engineering College, Hyderabad.
- 5. A two day conference 'Uses of Scientific and Technical Terminology in Hindi, Telugu in Science' organized by Commission for Scientific and Technical Terminology,(MHRD) held on 3rd and 4th May, 2017 in Dept. of Physics, University College of Engineering, Osmania University, Hyderabad.
- 6. A one week faculty development program on 'Data Science and Big Data Analytics' organized by E & ICT Academy, NIT, Warangal, at Department of IT,BVRIT Hyderabad College of Engineering for Women, Hyderabad from 6th March-11th March,2017.
- 7. A one week faculty development program on 'Numerical methods and Optimization Techniques in Engineering Research' held from 14th to 20th December, 2016 at CMR Engineering College, Hyderabad.
- 8. A one week faculty development program on `Open Source Software through Spoken Tutorials' IIT Bombay organized by Department of Information Technology, BVRIT Hyderabad College of Engineering for Women, Hyderabad, from 4th Nov to 10th NOV 2016.
- 9. A two day workshop on 'Innovative Pedagogy for Teaching and Learning Mathematics " organized by Dept. of Mathematics, JNTUH College of Engineering Hyderabad, on 29th and 30th June,2016

- 10. A one week faculty development programme on 'Numerical methods and Optimization Techniques in Engineering Research' held from 14th to 20th December, 2016 at CMR Engineering College, Hyderabad.
- 11. A workshop on "Use of Technologies for Teaching and Learning of Engineering Mathematics" organized by Dept. of Mathematics, JNTUH College of Engineering Hyderabad, on 24th and 25th July 2015.
- 12. A workshop on Mathematical Modelling and its applications for Engineers and Scientists conducted by Dept. of Mathematics, JNTUH College of Engineering Hyderabad, on 30th August, 2013.
- 13. Participated in a Mission 10X Workshop Conducted at CMR Institute of Technology, Medchal from 1st May to 5th May 2012
- 14. A workshop on 'Advanced Techniques in Computational Fluid Dynamics' organized by the Department of Mathematics, Osmania University on 24 & 25 February, 2012.
- 15. One day seminar on 'Mathematical Modelling in Fluid Mechanics' organized by Department of Mathematics, Osmania University on 30th November, 2011
- 16. A training programme 'Mathematical Programming and Advanced Analysis for Post Graduate Faculty of Affiliated Colleges' organized by the Department of Mathematics, Kakatiya University, Warangal on 8-11 April, 2011.
- 17. 'International Conference on Recent Advances in Fluid Mechanics', organized by Osmania University on 23 & 24 December 2010 held at Department of Mathematics, Osmania University, Hyderabad
- 18. 5th National Conference on 'Applicable Mathematics in Wave Mechanics and Vibrations' (5th WMVC-2010) held at Kakatiya University, Warangal (AP), India, from 13 to 15 March, 2010.
- 19. 'National Conference on Mathematical Modeling in Engineering and Technology', on 13 & 14 February, 2010 held at Stanly College of Engineering and Technology for women, Chapal road, Abids, Hyderabad (A.P), India.
- 20. A two day faculty development program on 'Engineering Mathematics' organized by the Department of Humanities and Sciences, CMR College of Engineering & Technology, Hyderabad, from 25th to 26th August 2010.
- 21. National Training Program on 'Matlab, Graphics an, Kakatiya d Latex', March 21 & 22, 2009 held at Department of Mathematics University, Warangal (A.P),India.
- 22. National Seminar on Numerical Techniques organized by the Department of Mathematics, University College of Engineering, Osmania University, from 3rd to 4th, August 2007.
- 23. 'National Conference on Number Theory, Fixed Point Theory and Their Applications organized by the Department of Mathematics, Osmania University, Hyderabad, during 30-31 August, 2007
- 24. 'National Conference on New Trends in Functional Analysis and Operator Theory' organized by the Department of Mathematics, Osmania University, Hyderabad, from 11th to 12th, March, 2005

Professional Memberships:

Life time member in Andhra Pradesh State Mathematical Society. Life membership in The Indian National Congress Association.

Certifications

- ➤ NPTEL online certified (12-week) course on 'Multivariable Calculus' in ELITE, June 2018.
- ➤ NPTEL online certified (12-week) course on 'Numerical Linear Algebra' on June 2018.
- ➤ COURSERA online certified course on "Introduction to Mathematical Thinking" by Stanford University on 02/11/2019

Any Other Achievements

- 1. Chaired a session in an International Conference on Mathematical Science and Applications Techniques(ICMSA-2019) conducted by Department of Mathematics, School of Technology GITHAM University, Telangana, held from 9th to 11th t August, 2019.
- **2.** Chaired a session in a National Conference on Recent Advances of Mathematical Techniques in Science and Engineering, conducted by Department of Mathematics, Osmania University, Telangana, held from 30th & 31st July, 2017.
- 3. Delivered a guest lecture in a One Week Refresher Course on `Engineering Mathematics' organized by CMR Engineering College, Hyderabad on 13th June 2017.
- 4. Delivered a guest lecture on the Mathematics subjects for B.Tech 1st year students held on April 11th 2017, in CMR Engineering college, Hyderabad.
- 5. Performed as subject expert in Institute of Aeronautical Engineering on 24th February,2016.
- 6. Delivered a guest lecture in the Faculty Development Programme on Numerical Methods and Optimization Techniques in Engineering Research ".organized by Dept.of Mechanical Engineering and H & S held on 14-12-2016. in CMR Engineering college, Hyderabad.
- 7. Discharged duties as a coordinator for NBA Accreditation work for BS & H dept in the year 2016-17 in BVRIT, Hyderabad
- 8. Discharged duties as a coordinator for a program 'MATHEMATICS DAY' conducted on the occasion of Ramanujan's Birthday on 22nd December 2015 in BVRIT, Hyderabad.
- **9.** Delivered guest lecture in Prof. G. Ram Reddy Centre for Distance Education for the year 2010-2011.