



Dr. N. S. BASAVARAJAPPA

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EXPERIENCE SUMMARY

- Over 25 years of teaching experience in Engg. Colleges, 18 years of research experience.
- Currently working as **Professor and Head** in Department of Mathematics and as Chairman, BOS, Applied Sciences and Humanities. Bapuji institute of Engg and Technology, Davangere.
- Member of Board of Studies Kuvempu University from 2006 to 2010.

ACADEMICS

- Doctor of Philosophy (Ph.D) in Mathematics from Kuvempu University, Karnataka, 2009
- Master of Science in Mathematics, Kuvempu University, Karnataka, 1999

MEMBER

- Member of Indian Society for Technical Education (LM70917)

WORK HISTORY

Duration	Organization	Designation
1 st June 2022 to till date	B.I.E.T Davangere	Professor
1 st Jan 2012 to May 2022	B.I.E.T Davangere	Associate Professor
4 th Jan 2010 to Dec 2012	B.I.E.T Davangere	Asst. Professor.
Sep 2007 to Dec 2009	SBMJCE Bangalore	Asst. Professor.
Sep 2003 to Sep 2007	BTLIT, Bangalore	Senior Lecturer
Sep 2002 to Sep 2003	JVIT, Bangalore	Lecturer
Aug 1999 to Sep 2002	BCET, Bangalore	Lecturer

PUBLICATIONS IN JOURNALS

- 1) **N. S. Basavarajappa**, K. M. Niranjan, K. C. Shilpa, “Computation of Degree-Based Numerical Descriptors of Porous Graphene”, Vol. 12, Issue 4, 2023, pp. 1-10.
- 2) M. C. Shanmukha, K. N. Anil Kumar, **N. S. Basavarajappa**, A. Usha, “Neighborhood Topological Indices of Metal-Organic Networks”, Jnanabha, Vol. 52 No.1, (2022) pp. 174-181.
- 3) M. C. Shanmukha, A. Usha, K. C. Shilpa, **N. S. Basavarajappa**, “M-polynomial and neighborhood M-polynomial methods for topological indices of porous grapheme”, The European Physical Journal Plus, (2021) 136:1089, pp:1-16. <https://doi.org/10.1140/epjp/s13360-021-02074-8>.
- 4) M.C. Shanmukha, **N.S. Basavarajappa**, K.N. Anil Kumar and A. Usha, “Molecular Structure Investigation of Anticancer drug by Topological Indices”, Italian Journal of Pure and Applied Mathematics, Vol. 46, 2021, pp:970–983.

- 5) M.C. Shanmukha, A. Usha, **N.S. Basavarajappa**, K.C. Shilpa, “Graph entropies of porous graphene using topological indices”, Computational and Theoretical Chemistry (Elsevier), Vol. 1197, (2021), 113142, <https://doi.org/10.1016/j.comptc.2021.113142>, (IF- 1.926).
- 6) M.C. Shanmukha, A. Usha, **N.S. Basavarajappa**, K.C. Savitha, K. C. Shilpa, “A general neighborhood redefined Zagreb index on Boron Nanotubes”, Malaya Journal of Matematik (MJM), Vol.9, No.1, (2021), pp.836-843, <https://doi.org/10.26637/MJM0901/0147>, (IF- 4.529).
- 7) K.N. Anil Kumar, M.C. Shanmukha, **N.S. Basavarajappa**, C.M. Veena, K.C. Shilpa, “Cyclohexane based isomers discrimination using topological indices”, Malaya Journal of Matematik, Vol. 9, No.1, (2021), pp. 524-532, <https://doi.org/10.26637/MJM0901/0088> (IF- 4.529).
- 8) M.C. Shanmukha, **N.S. Basavarajappa**, A.Usha, K.C.Shilpa, “Novel neighbourhood redefined first and second Zagreb indices on carborundum structures”, Journal of Applied Mathematics and Computing (Springer), Vol. 66, (2020), pp. 263-276, <https://doi.org/10.1007/s12190-020-01435-3> (IF- 0.967)
- 9) M.C. Shanmukha, A. Usha, **N.S. Basavarajappa**, K.C. Shilpa, “*M*-Polynomials and Topological Indices of Styrene-Butadiene Rubber(SBR)”, Polycyclic Aromatic Compounds (Taylor and Francis), (2020), pp.1-16 <https://doi.org/10.1080/10406638.2020.1852283>, (IF- 1.44)
- 10) **N.S. Basavarajappa**, M.C. Shanmukha, K.M. Niranjana, K.C.Shilpa, “Dakshayani Indices on Carbon and Boron Nitride Nanotubes”, Letters in Applied NanoBioScience, Vol. 9 No.4, (2020), pp. 1680 – 1686, <https://doi.org/10.33263/LIANBS94.16801686>.
- 11) M.C. Shanmukha, **N.S. Basavarajappa**, K.N. Anil Kumar, K.C. Shilpa, “Generalized reciprocal sanskruti index: chemical applicability and bounds”, Letters in Applied NanoBioScience, Vol. 9 No.4, (2020), pp. 1595-1601 <https://doi.org/10.33263/LIANBS94.15951601>,
- 12) K.N. Anil Kumar, **N.S. Basavarajappa**, M.C. Shanmukha, A. Usha, “Reciprocal Atom-bond connectivity and Fourth Atom-bond connectivity indices for Polyphenylene structure of molecules”, Eurasian Chemical Communications, Vol. 2, (2020), pp. 1202-1209, <https://doi.org/10.22034/ECC.2020.255902.1095>
- 13) K.N. Anil Kumar, **N.S. Basavarajappa**, M.C. Shanmukha, K.C.Shilpa, “Degree-Based Topological Indices on Asthma Drugs with QSPR Analysis during Covid-19”, European Journal of Molecular & Clinical Medicine, Vol. 7 No. 10, (2020), pp. 53-66. (IF- 8.11)
- 14) M.C. Shanmukha, **N.S. Basavarajappa**, K.C. Shilpa, A. Usha, “Degree based topological indices on anticancer drugs with QSPR analysis”, Heliyon(Cell Press), Vol. 6, (2020) e04235, <https://doi.org/10.1016/j.heliyon.2020.e04235>, (IF- 1.857)
- 15) M.C. Shanmukha, **N.S. Basavarajappa**, K.N. Anil Kumar, A. Usha, “Degree based topological indices for DOX-loaded PEG-PASP polymer”. Jnanabha, Vol. 50 No.1, (2020) pp. 92-104.

- 16) M.C. Shanmukha, K.N.Anil Kumar, **N.S. Basavarajappa**, K.M. Niranjan, “Topological indices on properties of line graph of subdivision of plane graphs”, *Advances in Mathematics: Scientific Journal*, Vol. 9 No. 4, (2020), pp. 2121-2135, <https://doi.org/10.37418/amsj.9.4.72>, (IF- 1.494)
- 17) K.N. Anil Kumar, **N.S. Basavarajappa**, M.C. Shanmukha, “QSPR analysis of Alkanes with certain degree based topological indices”. *Malaya Journal of Matematik*, Vol. 8, No. 1, (2020) pp. 314-330. <https://doi.org/10.26637/MJM0802/0003>, (IF-4.529).
- 18) M.C. Shanmukha, **N.S. Basavarajappa**, K.N. Anilkumar, “Predicting Physico-chemical Properties of Octane isomers using QSPR approach”, *Malaya Journal of Matematik*, Vol. 8, No. 1, (2020) pp. 104-115, <https://doi.org/10.26637/MJM0504/0018>, (IF-4.529).
- 19) **N.S. Basavarajappa**, K.N. Anil Kumar, “conservative concircular curvature Tensor with respect to semi-symmetric metric connection on K – Contact and Trans-Sasakian Manifolds”, *Int. Jour of Latest Tech. in Engineering Management and Applied Sciences*, Vol. 4, No. 3, (2015), pp. 104-109. (IF- 5.471)
- 20) **N.S. Basavarajappa**, C.S. Bagewadi, D.G. Prakasha, “some results on Lorentzian β -Kenmotsu manifolds”, *Annals of the University of Craiova. Math. Comp. Sci. Ser*, Vol-35, (2008), pp.7-14.
- 21) D.G. Prakasha, C.S. Bagewadi, **N.S. Basavarajappa**, “on Pseudo symmetric Lorentzian α -Sasakian manifolds”, *Int. Jour. Pure and Applied Mathematics*, Vol. 48, No.1, (2008), pp.57-65.
- 22) C.S. Bagewadi, D.G. Prakasha, **N.S. Basavarajappa**, “On Lorentzian β - Kenmotsu manifolds”, *Int. Jour. Math. Analysis*, Vol. 2, No.19, (2008), pp.919-927.
- 23) C.S. Bagewadi, **N.S. Basavarajappa**, D.G. Prakasha, Venkatesha, “Some results on K-contact and Trans- Sasakian manifolds”, *European Jour.of Pure and Appl. Math*, Vol. 1, No 2, (2008), pp. 21-31,
- 24) C.S. Bagewadi, **N.S. Basavarajappa**, D.G. Prakasha, “On Weakly symmetric and special weakly Riccisymmetric Lorenzian α -Sasakian manifolds”, *Analele Universitatii de vest.*, XLVI 1 (2008), pp. 3-12.
- 25) C.S. Bagewadi, **N.S. Basavarajappa**, Venkatesha, “On LP Sasakian manifolds”, *Scientia, Series A, Math. Science*. Vol.16, (2008), pp.1-8.
- 26) C.S. Bagewadi, **N.S. Basavarajappa**, Venkatesh, “On Para-Sasakian manifolds”, *Journal of Analysis & Computation*, Vol. 3, No. 2, (2007), pp.127-133.
- 27) C.S. Bagewadi, **N.S. Basavarajappa**, D.G. Prakasha, Venkatesha, “On 3-dimensional Para-Sasakian manifolds”, *Int. e-Jour. Engg. Math. Theory & Appl.*, Vol. 2, (2007), pp.110-119.

PAPER PRESENTED IN CONFERENCES/ SEMINAR/WORKSHOP

- 1) Paper entitled “**Some results on Lorgentzian α -sasakian manifolds**” in International conference on Differential Geometry, Analysis and Fluid mechanics organized by department of P G Studies and Research in Mathematics Kuvempu University, Shankaraghatta, Shimoga from 4th to 5th February, 2016.
- 2) Paper entitled “**On K-Contact and Trans-Sasakian manifolds**” in National conference on Advances in Geometry Analysis and Fluid Mechanics organized by Department of P G Studies and Research in Mathematics Kuvempu University, Shankaraghatta, Shimoga from 26th and 27th August 2014.
- 3) Paper entitled “**Toresforming vector fields in a 3-dimentional para sasakian manifold**” in UGC sponsored National Conference on Geometry, Analysis and Fluid Mechanics organized by Department of Mathematics, Govt. First Grade College, Koppa from 20th to 21st September 2013.

CONFERENCES/ SEMINAR/WORKSHOP/SHORT TERM COURSES ORGANISED:

- 1) Organized Two days National level Webinar on “Advances in Mathematical Sciences and its Applications in Engineering and Research (AMSAER)-2021” by Department of Mathematics, Bapuji Institute of Engineering & Technology, Davangere, Karnataka on 11th and 12th July 2021.
- 2) Summer Internship conducted for Rural School Students on “Technology Barrier Reduction program” between 22nd April 2019 to 10th May 2019 at Bapuji Institute of Engineering & Technology, Davangere, Karnataka, organized by Foundation for Advancement of Education and Research and sponsored by Zebra Technologies, Bangalore.
- 3) Organized “Technology Barrier Reduction program (TBRP) from 24th April to 12th May 2017” held at Bapuji Institute of Engineering and Technology, Davangere.
- 4) Summer Internship conducted for Rural School Students on “Technology Barrier Reduction program” between 18th April 2016 to 6th May 2016 at Bapuji Institute of Engineering & Technology, Davangere, Karnataka, organized by Foundation for Advancement of Education and Research and sponsored by Zebra Technologies, Bangalore.

CONFERENCES/ SEMINAR/WORKSHOP/SHORT TERM COURSES ATTENDED:

- 1) Five days online FDP on “Mathematical Developments in Cryptography and Data Science” organized by Department of Mathematics, Ramaiah Institute of Technology, Bangalore, held during 9th to 13th August 2021.
- 2) One day webinar on “Operations Research & its Applications” organized by Department of Management Studies, The Oxford College of Engineering, on 30th June 2021.
- 3) One day webinar entitled “Applications of Mathematics in Engineering” organized by Department of Science & Humanities, V.P. Dr. P.G. Halakatti College of Engineering & Technology, Vijaypur, on 17th June 2021.
- 4) Six days virtual “Science Academies’ Lecture workshop on Linear Transformations, Metrics and their Applications-2020”, held in the Department of Mathematics, S.V.U. College of Science, S.V. University, Tirupati, from 2nd to 7th November 2020.
- 5) Five days virtual FDP on “Applications of Fluid Dynamics and Advanced Materials” organized by Department of Applied Science & Humanities, Bheemanna Khandre Institute of Technology, Bhalki from 24th to 28th August 2020.
- 6) Five days online FDP on “Applications of Mathematics in Engineering”, conducted by Department of Mathematics, KPR Institute of Engineering & Technology, Coimbatore from 27th to 31st July 2020.
- 7) Six days online FDP on “Applications of Mathematics in Engineering”, conducted by Department of Mathematics, KPR Institute of Engineering & Technology, Coimbatore from 20th to 25th July 2020.
- 8) One day webinar on “Applications of Probability and Statistics in Speech Recognition” organized by Department of Mathematics, AMC Engineering college, Bangalore on 11th July 2020.
- 9) Five days webinar on “Mathematical Perspectives on Computational Science and Engineering”, organized by Department of Mathematics, Ramaiah Institute of Technology, Bangalore from 6th to 10th July 2020.
- 10) One day webinar on “Teaching and Learning Process, Course Outcomes and Program Outcomes” organized by Internal Quality Assurance Cell, GM Institute of Technology on 4th July 2020.

- 11) One day national webinar on “Geogebra: An Effective Tool for Mathematics Teaching” organized by Department of Mathematics, Loyola College, Manvi on 3rd July 2020.
- 12) Four days “National Webinar on Fluid Mechanics and its Applications in Engineering Science” organized by Department of Mathematics, PES Institute of Technology and Management, Shivamogga, during 24th to 27th June 2020.
- 13) One week FDP on “Recent Advances in Material Science and Mathematical Application” organized by Department of Basic Science, Ghousia College of Engineering, Ramanagara from 15th to 19th June 2020.
- 14) Three days faculty development program for Student Induction (FDP-SI) held on 7-9 June 2018 at KLS GIT, Belagavi Organized by AICTE, New Delhi, India
- 15) Two days works shop on “Advanced Mathematical Techniques in Research and Engineering Applications held on 29th and 30th January 2018 at GMIT, Davangere, Karnataka, India
- 16) Four days symposium on Linear Algebra and its applications in Computer Vision held on 13th to 16th July, 2016 at JSS Academy of Technical Education, Bangalore.
- 17) Two days national conference on “Mathematics and its applications” held on 22nd and 23rd December 2015 at Adhichunchanagiri Institute of Technology, Chikkamangalore.
- 18) One day workshop on Basic Science Syllabus for BE Programme of VTU held on 28th August 2014 at UBDT College of Engineering, Davangere.
- 19) Two days Conference on “Advances in Geometry, Analysis and Fluid Mechanics” held on 26th & 27th August 2014 at Dept. of Mathematics, Kuvempu University, Jnana Sahyadri, Shakaraghatta, Shivamogga.
- 20) Two days UGC sponsored national conference on “Geometry, Analysis and Fluid Mechanics” held on 20th & 21st September 2013 at Govt. First Grade College Koppa.
- 21) One day UGC sponsored national conference on “Mathematical Sciences and Applications” held on 9th March 2013 at Govt. First Grade College Koppa.
- 22) Organized one day ISTE sponsored “Ramanujan Mathematics Awareness Programme” on 1st March 2013 in the Dept. of Mathematics, Bapuji Institute of Engineering & Technology, Davangere.
- 23) One day Workshop on “Mathematics & its Applications in Engineering “ held on 18th February 2010 at Bapuji Institute of Engineering & Technology, Davangere.

- 24) One day Seminar on “Recent Trends in Mathematics” held on 5th May 2008 at Kuvempu University, Jnana Sahyadri, Shakaraghatta, Shivamogga.
- 25) One-day workshop on “Recent Development in Mathematics” held at Govt. Science College Bangalore on 30th March 2007.
- 26) One-day workshop on “Computational Fluid Dynamics” held at P.G Dept. of Mathematics, M.E.S. College Bangalore on 10th March 2007.
- 27) The “19th International Conference of the Jangjeon Mathematical Society” Organized by Dept. of Mathematics, Central College Campus, Bangalore University Bangalore, held on 22nd to 24th February 2007.
- 28) A Symposium on “Applied Mathematics in Engineering Technology” held on 16th Dec 2006 at BNMIT Bangalore.
- 29) One day Workshop on revised syllabus of Engineering Mathematics I/II, held at Reva Institute of Technology and Management Bangalore on 9th September 2006.
- 30) One-day workshop on “Application of Science in Engineering and Technology” at Ghousia College of Engineering Ramnagaram on 7th May 2005.
- 31) A national Seminar on “Recent Developments on Mathematics and its Applications” (RDMA 2005) held in the Dept. of Mathematics, University of North Bengal. Darjeeling during 20th to 22nd January 2005.
- 32) A national Conference on “Geometry, Analysis, Fluid Mechanics and Computer Applications” held on 9th to 11th December 2004 at Kuvempu University.
- 33) Two days seminar on “Engineering Mathematics” held on 5th and 6th Nov 2004 at Sambhram Institute of Technology Bangalore.
- 34) Three days National workshop on “Applications of Mathematics in Engineering and Technology” from 1st to 3rd October 2004 at A.I.T Chikmagalore.
- 35) The QIP short term course on Mathematical Modeling of Engineering Systems at IIT Delhi, from 14th to 18th June 2004.

LIST OF RESEARCH SCHOLARS WORKING FOR Ph.D. PROGRAMME

Name of Research Scholar	ANIL KUMAR K N
Department	Mathematics
Ph. D Thesis title	“Certain Structures on Contact Manifolds and Curvature Tensors”
Registration Date	USN: 4BD16PGJ02 dt. 03.11.2015
Institute – University	Visvesvaraya Technological University, Belgaum Awarded in 2022

Name of Research Scholar	SHANMUKHA M C
Department	Mathematics
Ph. D Thesis title	“A Study on contact and Lorentzian Manifolds”
Registration Date	USN: 4BD16PGJ03 dt. 03.11.2015
Institute – University	Visvesvaraya Technological University, Belgaum Awarded in 2021

Name of Research Scholar	MOOKAMBIKA V G
Department	Mathematics
Ph. D Thesis title	“Impact of Geometry on the Study of Thermodynamics with Reference to Heat and Mass Transfer”
Registration Date	USN: 4BD18PMA01 dt. 08.02.2018
Institute – University	Visvesvaraya Technological University, Belgaum Waiting for Pre Ph.D. Comprehensive Viva-voce.

PERSONAL DETAILS

Father’s Name: - K.G. Sharanappa
 Nationality: - India
 Date of Birth:- 1st June 1975
 Marital Status: - Married

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 Davangere-577004

The above stated information’s are true and best of my knowledge.

(Dr. N. S. Basavarajappa)