

Dr. K. SOBHAN BABU

Professor

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Present Position

Professor, Department of Mathematics, University College of Engineering Narasaraopet JNTUK, Narasaraopet from 2016.

Previous Positions

- Associate Professor, Department of Mathematics, JNTUK University College of Engineering Vizianagaram, Vizianagaram during 31-12-2012 and July-2016
- Assistant Professor, Department of Mathematics, University College of Engineering Kakinada, JNTUK, Kakinada during January – 2009 and December – 2012.
- Assistant Professor, Department of Mathematics, College of Engineering Anantapur during November 2006 and January – 2009.

Present Additional Responsibility :

- Vice-Principal, University College of Engineering Narasaraopet JNTUK, Narasaraopet.
- Head, Department of M & BS, University College of Engineering Narasaraopet, JNTUK, Narasaraopet.
- Officer In-charge of Library, University College of Engineering Narasaraopet JNTUK, Narasaraopet.

Previous Additional Responsibility

- Head, Department of BS & HSS, University College of Engineering Vizianagaram, JNTUK, Vizianagaram during January – 2016 to July – 2016.
- Officer In-Charge of Examinations, University College of Engineering Vizianagaram, JNTUK Vizianagaram during
- B.Tech (CCC) Co-ordinator, Jawaharlal Nehru Technological University Kakinada, Kakinada
- Additional Controller of Examinations, Jawaharlal Nehru Technological University Kakinada, Kakinada
- NCC Co-ordinator, University College of Engineering Kakinada
- Deputy warden, University College of Engineering Kakinada

Degree

- Ph.D. JNTUA, Anantapuramu, March, 2011
- M.Phil., S V University, Tirupati, December, 2000
- M.Sc., S K University, Anantapur, April, 1997
- B.Sc., Acharya Nagarjuna University, April 1995

Area of specialization

- Operations Research
- Relativity & Cosmology
- Fluid Dynamics
- Machine Learning

Membership in Professional Organization

- IAENG
- ISTE
- IMS
- ORSI
- APSMS

Research guidance

- Number of Ph.D. Scholars guided : 03
- Number of Ph.D. Scholars guiding : 03

Papers published in Journals: 34

34	Karuna Sree Chitturi, Sri Ramachandra Murthy and SobhanBabu.K , “Convective flow and temperature distribution in rotating inclined composite porous and fluid layers”, Songklanakarin J. Sci. Technol. 44 (2), 370-380, Mar. - Apr. 2022
33	A.P. Phaneendra Kumar, M. Sambasiva Rao and K. Sobhan Babu , “Filters of Distributive Lattices generated by Dense Elements” Palestine Journal of Mathematics, Vol. 11(2)(2022) , 45–54.
32	A.P. Phaneendra Kumar, M. Sambasiva Rao and K. Sobhan Babu , “Divisibility and Filters in Distributive Lattices” Palestine Journal of Mathematics, Vol. 11(2)(2022) , 143–151
31	Krishna Mandala, Sobhan Babu Kappala , Uma Shankar Rao Erothi, “Least Square Privacy Preserving Technique for Intrusion Detection System” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9, Issue-2, Dec 2019.
30	M.P.V.V.Bhaskara Rao, D.R.K.Reddy, K.Sobhan Babu , “Kantowski - Sachs modified holographic Ricci dark energy model in Saez - Ballester theory of gravitation”, Can. J. Phys. dx.doi.org/10.1139/cjp-2016-0670.03 November 2017.
29	M.P.V.V.Bhaskar, D.R.K.Reddy, K.Sobhan Babu , “Bianchi Type-V Modified Holographic Ricci Dark Energy Model in Brans-Dicke Theory of Gravitation”, Prespacetime Journal January 2017 Volume 8 Issue 1 pp. 21-32.
28	M.P.V.V.Bhaskara Rao, D.R.K.Reddy, K.Sobhan Babu , “Five-dimensional FRW Modified Holographic Ricci Dark Energy Cosmological Models with Hybrid Expansion Law in a Scalar-Tensor Theory of Gravitation”, Prespacetime Journal November 2016 Volume 7 Issue 13 pp. 1749-1760.
27	M.P.V.V.Bhaskara Rao, D.R.K.Reddy, K.Sobhan Babu , “A modified holographic Ricci dark energy model in a self-creation cosmology”, Can. J. Phys. 94: 1314–1318 (2016) dx.doi.org/10.1139/cjp-2016-0486.
26	D.R.K.Reddy, P. Raju, K.Sobhan Babu , “Five dimensional spherically symmetric minimally interacting holographic dark energy model in Brans-Dicke theory”, Astrophys Space Sci, (2016), DOI 10.1007/s10509-016-2709-0.
25	P. Raju, K.Sobhan Babu , D.R.K.Reddy “Minimally interacting holographic dark energy model in a five dimensional spherically symmetric space-time in Saez-Ballester theory of gravitation”, Astrophys Space Sci, (2016), DOI 10.1007/s10509-016-2658-7.
24	D.R.K.Reddy, P. Raju, K.Sobhan Babu , “Bianchi Type –IX Minimally Interacting Holographic Dark Energy model with Linearly Varying Deceleration Parameter in Scalar-Tensor Theory of Gravitation”, Prespacetime Journal February 2016 Volume 7 Issue 2 pp. 315-324.

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23	P. Raju, K.Sobhan Babu , D R K Reddy, “ <i>Conformally Flat Spherically Symmetric Prefect Fluid Distribution in $f(R, T)$ Gravity</i> ”, Prespacetime Journal February 2016 Volume 7 Issue 2 pp. 309-314.
22	P. Raju, K.Sobhan Babu , D.R.K.Reddy “ <i>Spherically symmetric five dimensional cosmological model in scale covariant theory of gravitation</i> ”, Astrophys Space Sci, (2016), DOI 10.1007/s10509-015-2627-6.
21	M.P.V.V.Bhaskara Rao, D.R.K.Reddy, K.Sobhan Babu , “ <i>Bianchi type-V Bulk viscous string cosmological model in a self-creation theory of gravitation</i> ”, Astrophys Space Sci, (2015) 359:52, DOI 10.1007/s10509-015-2501-6. 16 September 2015.
20	K.Dasu Naidu, R.L.Naidu, K.Sobhan Babu , “ <i>Kantowski-Sachs cosmological model with anisotropic dark energy in scale covariant theory of gravitation.</i> ” Astrophys Space Sci (2015) 359:5, DOI 10.1007/s10509-015-2445-x.
19	K.D.Naidu, R.L.Naidu, K.S.Babu , D.R.K.Reddy, “ <i>Bianchi Type-III Bulk Viscous String Cosmological Model in Self-Creation Theory of Gravitation</i> ”, Prespacetime Journal August 2015 Volume 6 Issue 8 pp. 710-718.
18	Dr. K.Sobhan Babu , “ <i>A Data Guided Lexi-Search approach for Time Dependent Travelling Salesman Problem</i> ”, International Journal of Engineering Sciences & Research Technology, 4(4), pp. 58-64, 5. April. 2015.
17	K.Dasu Naidu, R.L.Naidu, K.Shoban Babu , “ <i>Kantowski-Sachs bulk viscous string cosmological model in a self-creation theory of gravitation.</i> ” Astrophys Space Sci (2015) 358:23, DOI 10.1007/s10509-015-2421-5.
16	Dr.K.SobhanBabu , Vijaya Kumar K and Purusotham S, “ <i>A Lexi-Search approach of Variant Vehicle Routing Problem.</i> ”, International Journal of Advanced Research in Computer Science, vol. 6, No. 1, Jan-Feb. 2015, pp. 204-209.
15	D.R.K.Reddy, R.L.Naidu, K.SobhanBabu , K.Dasu Naidu, “ <i>Bianchi type-V bulk viscous string cosmological model in Saez – Ballester scalar-tensor theory of gravitation.</i> ” Astrophys Space Sci (2014) 349:473–477, DOI 10.1007/s10509-013-1619-7.
14	T.Lakshmana Kishore, K.L.Satya Varma and Dr. K.Sobhan Babu , “ <i>Experimental Analysis of Turbulent Flow Heat Transfer Enhancement in a Horizontal Circular Tube Using Mesh Type Vortex Generators Varying Hydraulic diameter</i> ”, International Journal of Mechanical Engineering and Material Sciences, 07, 2014, Pp 83-88.
13	D.R.K.Reddy, ShobhanBabu , P. Raju, “ <i>Non-existence of kinks in a modified gravity.</i> ” Astrophys Space Sci (2014), DOI 10.1007/s10509-014-2024-6.
12	D.R.K.Reddy, M.P.V.V.Bhaskara Rao, K.Sobhan Babu , “ <i>Bianchi type-II Bulk viscous string cosmological model in self-creation theory of gravitation</i> ”, Astrophys Space Sci, DOI 10.1007/s10509-014-1843-9. 22 February 2014.
11	R.L.Naidu, K.Dasu Naidu, K.SobhanBabu , D.R.K.Reddy“ <i>A five dimensional Kaluza-Klein bulk viscous string cosmological model in Brans-Dicke scalar-tensor theory of gravitation</i> ”, Astrophys Space Sci (2013) 347:197–201, DOI 10.1007/s10509-013-1498-y.

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10	Sobhan Babu. Kappala , Dr.KeshavaReddi and Sundara Murthy. M, “ <i>Travelling Salesman Problem with a grouping Constraint – A Lexi-Search Approach</i> ”, International Journal of Advanced Research in Computer Science (2012)
9	K.SobhanBabu , Dr.M.Sundara Murthy and C. Suresh Babu, “ <i>Variant Minimum Spanning Network Connectivity Problem</i> ”, International Journal of Advanced Research in Computer Science (2012)
8	Sobhan Babu. Kappala , Dr.KeshavaReddi and Sundara Murthy. M, “ <i>An Exact Algorithm for Travelling Salesman Problem</i> ”, International Journal of Advanced Research in Computer Science (2012)
7	B. Naganna, K.SobhanBabu and M.Sundara Murthy, “ <i>Truncated Continuous Time Dependent Travelling Salesman Problem</i> ”, International Journal of Mathematical Modelling, Simulation and Applications (2011) , Vol. 4, No.1, pp.9-16.
6	B. Naganna, K.SobhanBabu and M.Sundara Murthy, “ <i>Continuous Time Dependent Travelling Salesman Problem</i> ”, International Journal of Mathematics Research (2011), Vol.3, No.1, pp.69-78.
5	K.Sobhan Babu , B. Naganna and Sundara Murthy. M, “ <i>Continuous Time Dependent Multiple Travelling Salesman Problem</i> , ActaCienciaIndica, Vol.XXXVI M, No.4, 2010, pp.537-545.
4	K.Sobhan Babu , Chandra Kala. K, B. Naganna and Sundara Murthy. M, “ <i>A Lexi-Search Approach for Variant Multiple Travelling Salesmen Problem</i> ,” International Journal of Advanced Research in Computer Science, Vol. 1, No.3, Sep – Oct, 2010, pp.169-172.
3	K.Sobhan Babu , Chandra Kala. K, Purusotham. S and Sundara Murthy. M, “ <i>A New Approach for Variant Multi Assignment Problem</i> ”, International Journal on Computer Science and Engineering, Vol. 2, No.5, August – 2010. pp. 1633-1640.
2	K.SobhanBabu and Sundara Murthy. M, An Efficient Algorithm for Variant Bulk Transportation Problem, International Journal of Engineering Science and Technology, Vol. 2(7), July-2010, pp. 2595-2600.
1	K.SobhanBabu and Sundara Murthy. M, A Lexi-Search Algorithm for P-Median Problem, ActaCienciaIndica, Vol.XXXV M, No.3, 2009.

Extension & Outreach Program

- Member, Board of Studies in various affiliated colleges
- Governing Body member in various affiliated colleges
- President, Teachers’ Association, University College of Engineering Vizianagaram
- Secretary, Teachers’ Association, University College of Engineering Vizianagaram

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- Vice-Principal, University College of Engineering Narasaraopet.
- Head, Department of M & BS, JNTUK-UCEN, Narasaraopet
- Head, Department of BS & HSS, JNTUK-UCEV, Vizianagaram
- Officer In-charge of Examinations, JNTUK – UCEV, Vizianagaram
- Additional Controller of Examinations, J N T U Kakinada
- NSS Officer, JNTUK-UCEK, Kakinada
- Deputy Warden for Boys Hostels, JNTUK-UCEK, Kakinada
- B.Tech (CCC) Co-Ordinator, J N T U Kakinada
- Deputy Warden for Boys Hostels, College of Engineering Anantapur
- Board of Studies Member, J N T U Kakinada.
- Board of Studies Member, J N T U Anantapur.
- Board of Studies Member, Vasireddy Venkatadri Institute of Tech., Namburu.
- Board of Studies Member, Narasaraopet Engineering College, Narasaraopet.
- Board of Studies Member, Swarnandhra College of Engineering & Technology.
- President, Teachers' Association, UCEV, Vizianagaram
- Secretary, Teachers' Association, UCEV, Vizianagaram
- Treasurer, Teachers' Association, UCEK, Kakinada.
- Governing Body member for different affiliated Colleges.
- Vice-Principal, Lenora College of Engineering Rampachodavaram

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