



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B.Reddy Nagar, Mylavaram – 521 230, Andhra Pradesh, INDIA.

Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi.

Accredited by NAAC, NBA Tier-1 for CSE, IT, ECE, EEE & ME and “CPE” status by UGC.

Research & Development Cell

Details of R & D Accomplishments

Dept.: FED

A.Y.: 2021-22.

1. No. of SCI publications	: 04 (02Sci+ 02 WoS)		
2. No. of Scopus Publications	: 05		
3. No. of Papers in UGC/OA journals	: 07 (OA/UGC)		
4. No. Papers in Conf. Proc. (IEEE, Springer, Elsevier, Science Direct, Taylor & Francis etc)	: 03	National:	International:03
5. No. of Patents	: 00	Granted:0	Published:0
6. No. of Books/Chapters Published	: 00		
7. No. of Sponsored Research Works	: 00	Projects:	Other Grants:
8. No. of Scholars awarded for Ph.D. (Under supervision of our faculty)	:00		
9. No. of Faculty awarded Ph.D.	:00		

Details of SCI/WoS Publications(04)

1. **“The influence of Cu²⁺ ions on the ionic, electronic conductivity and optical characteristics of Li₂O-SrO-B₂O₃ system”**, S. Yusub, A. Ramesh Babu, V. Aruna, N. Sree Ram, P.M. VinayaTeja, Y. Chaitanya, Journal of Non-Crystalline Solids,572(1), 14th October 2021, 1-10, ISSN: 0022-3093.
2. **Bioconvective magnetized oldroyd-B nanofluid flow in the presence of Joule heating with gyrotactic microorganisms, Waves in Random and Complex Media**, K. Gangadhar, **K. Bhanu Lakshmi**, T. Kannan& Ali J. Chamkha, Waves in Random and Complex Media (2022),21 Mar 2022,1-25, 1745-5049.
3. **Step-etched U-bent silica fiber optic probes – Design and optimum geometry for refractive index sensing**, Allwyn S. Rajamani, HariharanManoharan, Christina Grace Danny, **P.V.N. Kishore**, V.V. R. Sai, Sensors and Actuators A: Physical, 342(2022), 113615, 13th May-2022,pp:1-10, 0924-4247.
4. **Thermal energy transport of radioactive nanofluid flow submerged with microorganisms with zero mass flux condition**, KothaGangadhar, **K. Bhanu Lakshmi**, Shreen El-Sapa, M. VenkataSubba Rao & Ali J. Chamkha, Waves in Random and Complex Media, 12th May-2022, pp:1-24, 1745-5049.

Details of Scopus Publications(05)

1. **Flow Past a Semi Infinite Moving Vertical Plate with Viscous Dissipation Under the Influence of Magnetic Field**, Ch V Ramana Murthy, **K R Kavitha**, Journal of Tianjin University Science and Technology, 54(8), 23rd August 2021, 367-383,0493 – 2137.
2. **Flow of a second grade fluid down an inclined porous plate**, Ch.V. Ramana Murthy, **K. Jhansi Rani**, Materials Today: Proceedings, 51(1), 6th August-21,1229-1232, 2214-7853.
3. **Stefan blowing on chemically reactive nano-fluid flow containing gyrotactic microorganisms with leading edge accretion (or) ablation and thermal radiation**, K Gangadhar , **K B Lakshmi** , T Kannan and A J Chamkha, Indian Journal of Physics, 26th July 21, 0973-1458(P).
4. **Thermal Transport of Magnetized Cu–Fe₃O₄/water Hybrid Nanofluid over a Curved Surface**, K. Gangadhar, **K.Bhanu Lakshmi**, T. Kannan, International Journal of Applied and Computational Mathematics, 7(191), 1st September 21, 1-22, 2349-5103(P).
5. **Characteristic features of time and porosity on flow over moving vertical surface**, Ch.V. Ramana Murthy, **K.R. Kavitha**, Swamy. K, Applied Mathematical Modelling, 108, May-2022, pg no: 1-19, 0307-904X.

Details of Open Access Publications(07)

1. **A Novel Method For Taylor's Partial Differential Equation In Fluid Mechanics Using DTM**, A. Rami Reddy and M. Srinivasa Reddy, Science, Technology and Development, 11(1), January 2022, 369-375, 0950-0707.
2. **Concept of Dharma Amish Tripathy's Shiva Trilogy**, B. Samrajya Lakshmi, Journal of English Literature and Cultural Studies, 2(2), October 2021, 13-23, 2667-6214.
3. **"Optimization Studies of Alkaline Protease from Aspergillus Flavus isolated From seashore Soil of Bay of Bengal"**, SumanKumar.Y, MadhaviJattavathu, Amrutha V Audipudi, L. Bhagya Lakshmi, ShahedaNiloufer, International Journal of Modern Agriculture,10(3), February 2022, 238-246, 2305-7246.
4. **"Impact of Pseudomonas Plecoglossicida AVP1, Plant Growth Promoting Rhizobacteria on Growth and Physiological Attributes in Chilli"**, Amrutha V Audipudi, V. Tulasibai, Narmada Sanneboyina , NagaRaju .K , L. BhagyaLakshmi, ShahedaNiloufer, and M. S. Reddy, International Journal of Modern Agriculture,10(3), February 2022, 247-257, 2305-7246.
5. **Antibacterial And Anticancer Fatty Acid Produced From Marine Bacillus Subtilis Avsc3: Isolation, Characterization And Biological Activity**, Chandini S Syed ,Amrutha V Audipudi, Lakkakula. BhagyaLakshmi , V. Parvathi and ShahedaNiloufer, International Journal of Aquatic Science, 12(3), July-21, 112-122, 2008-8019.
6. **Some Results on f -prime and f- semiprime Ideals in Semigroups**, Radha Rani T, Gangadhara Rao A , M Sowjanya , M J Subhakar, Stochastic Modeling& Applications,26(3), 15th December-2021,23-29, 0972-2641.
7. **Extreme Value Charts & Analysis Of Means Based On Exponentiated Inverse Kumaraswamy Distribution**, B.Srinivasa Rao, **M.Rami Reddy**&K.Rosaiah, Stochastic Modeling& Applications Vol. 26 No. 3 (Special Issue 2022, Special Issue 2022 Part - 2), pg.no:55-64, 0972-3641.

Details of papers presented and published in Conf. Proc.:(03)
(IEEE, Springer, Elsevier, Science Direct, Taylor & Francis etc)

1. **Monitoring of pH by using stimulus responsive hydrogel and Fiber Bragg grating for bioreactor application, N.Aruna, P.V.N.Kishore, K.ChandraMouli, Proc. SPIE 11925, Biomedical Imaging and Sensing Conference 2021, 11925(1B), 27th,October2021, 1-5, 0277-786X.**
2. **Carcinogenic chromium (VI) sensing using swelling characteristics of hydrogel on Fiber Bragg grating, P.V.N.Kishore, N.Aruna, J.Ashok, 11925(1C), 27th,October2021, 1-5, 0277-786X.**
3. **A study on Boolean like algebras, Sambasiva Rao, Pushpalatha, Ramesh D, Venuadhava Sarma and G. Vijayalakshmi, AIP Conference Proceedings, 2375, 020018-1 to 5, 05 October 2021, 1551-7616.**

Details of Faculty Secured Ph.D.

S.No.	Faculty with Designation	Date of Registration	Date of Awarding Ph.D.	Name of the University
1.	K. Bhanu Lakshmi	15-09-2014	30/12/2021	Acharya Nagarjuna University
2.	V. Bhagya Lakshmi	1/3/2014	4/10/2021	Acharya Nagarjuna University