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.

Research & Development Cell

Details of R & D Accomplishments during the A.Y.: 2015-16

i.	No. of SCI papers	: 06
ii.	No. of Papers in Scopus indexed Journals	: 04
iii.	No. of Papers in Conf. Proceedings indexed by Scopus	: 04
	Total Papers in SCI & Scopus	**: 14**
iv.	No. of UGC Journals	: 21
v.	No. of Open Access Journals	: 32

R & D Publications for the A.Y.: 2015-16
(From 1st July 2015 – 30th June 2016)

S.No.	Dept.	SCI	SCOPUS		UGC	Open Access	Total
			Journals	Proceedings			
1.	AE	---	---	---	---	---	00
2.	CIVIL	---	---	---	---	---	00
3.	CSE	01	02	02	04	13	22
4.	ECE	02	01	02	02	---	07
5.	EEE	01	---	---	----	11	12
6.	EIE	---	01	---	----	04	05
7.	MECH	01	---	---	12	---	13
8.	IT	---	01	---	---	03	04
9.	FED	01	---	---	01	01	03
10.	MBA	---	---	---	02	---	02
11.	MCA	---	---	---	---	---	00
Total		06	05	04	21	32	68

SCI Papers – 6

AE-0, CE-0, CSE-1, ECE-2, EEE-1, EIE-0, ME-1, IT-0, FED-1, MBA-0, MCA-0, Total-6

Department of Computer Science Engineering Department

1. **Relative Dimensionality of Feature Selection Based on Collective Behavior in Cluster Databasesd**, D. Veeraiah, Vasumathi. D, Journal of Scientific and Industrial Research, 76(8) (August 2017), 468-472, 0975-1084 (Online), 0022-4456 (Print)

Department of Electronics and Communication Engineering

2. **Automated Lung Segmentation from HRCT Scans with Diffuse Parenchymal Lung Diseases, Pulagam**, A.R., Kande, G.B., Ede, V.K. et al. Journal of digital imaging, 29, 507–519, (March 2016), 0897-1889, https://doi.org/10.1007/s10278-016-9875-z.

3. **Luminescent and Gas Sensing Properties of SnO2 Thin Films Grown by Pulsed Laser Deposition,** M.C. Rao, K. Ravindranadh, T. Satyanarayana, G. Nagarjuna, K. Srinivas, M. S. Shekhawat Der Pharma Chemica 8(4) (Jan. 2016) 243-250.

Department of Electricals and Electronics Engineering

4. **FPGA Controlled Five- Level Soft Switching Full Bridge Dc-Dc Converter Topology**, Siva Vara Prasad. J YP Obulesh Ch Sai Babu, Journal Of Electrical Systems, 13-2 (2017): 266-284 Jun-2016, 1112-5209.

Department of Mechanical Engineering

5. **Simulation & Optimization of Thermal Power Plant Cycles,** P.Ravindra Kumar, V.Ramachandra Raju, N.Ravi Kumar, Perspectives in Science, Volume 8, Pages 304-306, Apr-16, 2213-0209.

Freshmen Engineering Department

6. **Ionic conductivity, dielectric and optical properties of lithium lead,** S. Yusub, P.Srinivasa Rao, D.Krishna Rao, Journal of Alloys and Compounds, Volume 663, 5 April 2016, Pages 708-717, 0925-8388.

Scopus Papers - 04

AE-0, CE-0, CSE-2, ECE-1, EEE-0, EIE-1, ME-0, IT-1, FED-0, MBA-0, MCA-0, Total-05

Department of Computer Science Engineering Department

1. **Dynamic Optimized Cloud Resource Provisioning in Cloud Data Sharing,** K. Ramarao, B. Sivarama Krishna, International Journal of Applied Sciences, Engineering and Management, 5(5), Sept 2016, 65- 69, 2320-3439.

2. **Feature Sub Selection over High Dimensional Data based on Classification Models**, D. Veeraiah, and D.Vasumathi, Indian Journal of Science and Technology, 9(8), February 2016, 1-6, 0974-6846

Department of Electronics and Communication Engineering

3. **A High Performance Hybrid Technique of Microaneurysm Extraction Using Vessel Suppression and Connected Component Extraction**, S. Srinivasa Reddy, K. N. Prakash, P. V. V. Kishore, International review on computers and software, 10(10), 1828-6003.

Department of Electronics and Instrumentation Engineering

4. **Modeling and Deformation Analysis of Piezoresistive Cantilever for Bio-sensing Applications**

   T. Satyanarayana, M. Vasu Babu, D. Venkata Lakshmi, D.V. Rama Koti Reddy
   Indian Journal of Science & Technology, (**SCOPUS Indexed**) 9(S1) (2016) 1-7

Information Technology

5. **An Optimal Voting Mechanism for Cluster-Based Certificate Revocation in Mobile Adhoc Networks**, Mohammed Ali Hussian and Dr.Satuluri Naganjaneyulu, Middle-East-Journal of Scientific Research, 23 (9), 2198-2204, 2015, 1990-9233.

Scopus Proceedings Papers - 02

Department of Computer Science Engineering Department

1. **Fuzzy Link Based Analysis for Mining Informational Systems,** D. Veeraiah and Dr. D. Vasumathi, Advances in Intelligent Systems and Computing, pp 55-62, volume 408,Springer, Singapore , 2/11/2016, 978-981-10-0129-1.

2. **Categorical Data Clustering Based on Cluster Ensemble Process**, D. Veeraiah, Advances in Intelligent Systems and Computing, pp 101-111, volume 439, Springer, 09-06-2016, 978-981-10-0755-2

Department of Electronics and Communication Engineering

3. **Generation of biological energy using vegetable waste**, S. Sai Krishna, K. Sai Chandra Manoj, N. Sri Sarada, T. Satyanarayana, IEEE Explore (Scopus) Oct. 2015, DOI: 10.1109/ISCO.2015.7282348, IEEE 9th International Conference on Intelligent Systems and Control (ISCO), 2015.

4. **BIO INSPIRED computing techniques –A Survey**, M.Sri Bala, B.Shyamala , 2016, 978-1511885-049

UGC Papers - 21

AE-0, CE-0, CSE-4, ECE-02, EEE-0, EIE-0, ME-12, IT-0, FED-1, MBA-2, MCA-0 Total-21.

Department of Computer Science Engineering Department

1. **Cloud Privilege of Access to Data and Anonymity with the Unknown Entirely Based Encryption to** Control Characteristics, K aveti Sai Teja, Joshi Pa dma Narasimhachari, N. Ravi Shankar, M. B. Raju International Journal of Research, 3(14), January 2016, pp: 4332-4338, 2348-6848.

2. **The Strong Confidence: The Process of Computational Dynamic Trust Model for Secure Communication in Multi-Agent Systems**, Narasimhachari, Joshi Padma et al. International Journal of Research 3 (2016): 5325-5333.

3. **A Novel Technique To Detect The Misbehaving Nodes In Delay Tolerant Networks,** Begum M, M. Y., & Bala, S. M. S. (2015). IJRDO - Journal of Computer Science Engineering 1(7), 16-20. 2456-1843, https://ijrdo.org/index.php/cse/article/view/913.

4. **Analysis of Different Utility Mining Methodologies in Transactional Databases**, Divvela, Srinivasarao and Sucharita, V, International Journal of Big Data Security Intelligence. 3(1), 1-10., (June 2016), 2205-8524 http://dx.doi.org/10.21742/ijbdsi.2016.3.1.01

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5. **Bias Field Corrected Hippocampus Segmentation Using k means Clustering and Region Growing** , G.L.N.Murthy, B.Anuradha, International Journal of Hybrid Information Technology, 9(12) (2016), 1738-9968.

6. **A Survey on Speech Enhancement Methodologies ,** K. Ravi Kumar, P.V.Subbaiah, International Journal of Intelligent Systems and Applications, 3(4), September 2016, 2074-904X

Department of Mechanical Engineering

7. **Tensile and Flexural Strength of OKRA Fiber Reinforced Polymer Composites**, S.Pichi Reddy, A. Chennakesava Reddy, International Journal of Engineering and Management Research, 6(1), 491-495, January-February-2016, 2394-6962.

8. **Simulation of a PCM based roof structure for thermal comfort in buildings using COMSOL software,** P. Vijay Kumar, V. Dhanaraju, A.Madhuri, International Journal Of Core Engineering & Management (IJCEM), 2(5), August 2015 , 43-49, 2348-9510.

9. **Performance and Emission Analysis of a Four Stroke Diesel Engine Fueled with Hibiscus Oil**, K .Appa Rao, G. V. Prudhvi Dilip, International Journal of Engineering Research & Technology (IJERT), 4(7), July 2015, 2278-0181.

10. **Experimental Investigation Of Sesame Oil Ethyl Esters On 4-Stroke Single Cylinder Water Cooled Diesel Engine Added With Iso-Butanol**, V.Dhanaraju, P.Vijay Kumar K.Divyanka,

P.Srinivas Kishore, International Research Journal of Engineering and Technology, 3(4), Jul-15, 2395-0056.

11. **Thermodynamic Analysis of Triple Pressure Heat Recovery Steam Generator**, P. Ravindra Kumar, Vinjamuri Narasimharao, IJIRST –International Journal for Innovative Research in Science & Technology, 2(3), 190-196, Aug 2015, 2349-6010.

12. **Evaluation of Performance and Emission Characteristics of Flax Oil Ethyl Ester with Ignition Improver on Diesel Engine and Comparison With Jatropha**, P.Vijaya Kumar.K.Dilip Kumar, P.Bhagyasri, International Journal of Mechanics and Thermodynamics, 6(1), 1-10,Aug-15, 2278-361X.

13. **Thermodynamic Analysis on Gas Turbine Unit**, K.Dilip Kumar, P.Vijaya Kumar, R.Ram Babu, International Journal for Innovative Research in science and Technology, 2(2), 280-285, July 2015, 2349-6010.

14. **Performance & Emissions Characteristics of a Four Stroke Diesel Engine Fuelled With Different Blends of Ankola Oil with Diesel**, K. Appa Rao, S. Krishnaveni, International Journal of Scientific Engineering and Research, 3(9), 38-42, Sep-15, 2347-3878.

15. **Performance Enhancement of an Automotive Radiator Using Ethylene Glycol and Al2o3 Nanofluid as a Coolant,** P. Vijaya Kumar, K. Sirisha, International Journal of Science and Research, 4(9), 43-46, Sep-15, 2319-7064.

16. **Aerodynamic Studies of non – Circular High – rise buildings,** V Dhana Raju, P P.Ravindra Kumar, Y N V M Sandeep Kumar, IOSR Journal of Mechanical and Civil Engineering, 12(5), 14-21,Sep - Oct 2015, 2278-1684.

17. **Simulation and CFD Analysis of Heat Pipe with Different Wick Geometry using CFX**, P.Vijay Kumar, K. Dilip Kumar, Ch.Naveen Kumar, International Journal of Thermal Technologies, 5(3),210-213, Sep-15, 2277 -4114.

18. **Performance and Emissions Analysis of Kusum Oil Methyl Esters with Air Pre Heating on C.I Engine,** A.V.Krishna Reddy, N.Bhargavi, International Journal of Science and Research Technology, 3(9), 27-31, Aug-15, 2395-1052 (online)

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19. **Municipal Solid Waste Management – An Overview**, K. Shyamala Devi, A.V.V.S. Swamy, ShahedaNiloufer, Asia Pacific Journal of Research, 3(4), 2015, 23205504.

Management of Business Administration

20. **Factors influencing work-life balance of women educators: a case study,** Srinivas Lakkoju & R.Jeyalakshmi, Indian Journal of Industrial Relations, 51(2), 267-284, October 2015, 0019-5286.

21. **HRD in Vizag Steel Plant: An Empirical Study,** Srinivas Lakkoju, Management Today, 5(1), 1-6, Jan 2015, 2230-9764.

Open Access Journals–34

AE-0, CE-0, CSE-13, ECE-0, EEE-11, EIE-4, ME-0, IT-3, FED-1, MBA-0, MCA-0 Total-32.

Department of Computer Science Engineering Department

1. **Effect of substrate temperature on the structural, optical and electrical properties of dc magnetron sputtered tantalum oxide films**, **Chandra, S. J. et al**. Applied Surface Science 254 (2008): 1953-1960.

2. **An Intelligent Wheelchair Controlled using Keyboard and Accelerometer**, D Anjaneyulu, B Ajanta Reddy and BVNR Siva Kumar, European Journal of Advances in Engineering and Technology, 2015, 2(9): 45-51, 2394 - 658X.

3. **Extraction of Hidden Features using Preprocessing Techniques and Texture analysis for Face Recognition,** Raju, T. (2015), 2394 - 658X.

4. **Data Security System Using Encryption Key In Digital Images For Secret Communication** Peketi Divya , Bojja Ramesh Reddy, International Journal of Engineering & Science Research, 5(6), 554-559, 2277-2685.

5. **Palmprint recognition by using enhanced completed local binary pattern (CLBP) for personal recognition**, Prakash, Dr. K. N. and M. Lakshmi, (2015).

6. **Effective utilization of labeling algorithms for Hippocampus segmentation** G.L.N.Murthy, B.Anuradha, CH. Siva Rama Krishna, B. Naresh Kumar Reddy and J.V.N.Ramesh, 134(2), August 2015, 206-211, 1450-216X.

7. **Background subtraction for effective object detection using GMM and LIBS**, G.L.N Murthy, R.Pravallika, International research journal of engineering and technology, 2(5), 333, 2015, 2395-0072.

8. **Hand movements based control of an intelligent wheelchair Using Accelerometer, obstacle avoidance Using Ultrasonic and IR sensors**, International Journal of Engineering Research and Development, D.Anjaneyulu, B.V.N.R. Siva Kumar, 11(7), (July 2015), PP.01-09, 2278-800X.

9. **Image Enhancement Using Wavelet Decomposition, Super Resolution Algorithm & Lum Filters**, K. Tejasri, K. Rani Rudrama, International Research Journal of Engineering and Technology, 2(5), 520-524, Aug-2015, 2395-0072.

10. **Implementation of Panoramic Image Mosaicing using Complex Wavelet Packets**, T Anil Raju, N Adinarayana and B Ajanta Reddy, European Journal of Advances in Engineering and Technology, 2015, 2(12): 25-31, 2394 - 658X.

11. **De-Interleaving and Identification of Pulsed Radar Signals Using ESM Receiver System**, P. Rakesh Kumar, N.Ramya, V.Dhananjayulu, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, 4(7), 6243-6252, July 2015, 2320 – 3765.

12. **Shadow Detection and Enhancement of Satellite Images Using Morphological Filtering and MRF**, D. Prasanth Varma1 and B.Siva Hari Prasad, International Journal For Research In Emerging Science And Technology, 2(8), Aug-2015, 52-55, 2349-7610.

13. **Advancement is independent component analysis speech enhancement process**, M.K. Linga Murthy, K.Satyanarayana, International Journal of Research, 2(9), Sep 2015, 657-662, 2348-795X.

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14. **Simulation Of A Novel Renewable Energy Based Hybrid Power System,** Ravi Kumar. A.V K.Nagalinga Chary Y.Murali Krishna, International Journal Of Advanced Research In Electrical, Electronics And Instrumentation Engineering, 5(2), February 2016, 707-712, 2320-3765.

15. **Enhancement Of Power System Security Using Pso-Nr Optimization Technique**, Sobha Rani. P K.S.L.Lavanya, International Journal Of Electrical Engineering & Technology (IJEET), 7(1), Jan-Feb, 2016, pp.35-44, 0976-6545.

16. **Fixed Frequency Sliding Mode Controller For Direct Driven Wind Energy Conversion System**, K.Ramalingeswara Prasad K.Chandra Sekhar, International Journal Of Innovative Research In Electrical, Electronics, Instrumentation And Control Engineering, 3(7), 62-67, July 20152321-2004.

17. **Control Strategies For Generator Side Converter Of Direct Driven Wind Energy Conversion System,** K.Ramalingeswara Prasad K.Chandra Sekhar, International Journal Of Scientific & Engineering Research, 6(7), July-2015 , 124-128, 2229-5518.

18. **Zero Voltage And Zero Current Switching Dc-Dc Converter With Active Clamping Technique**, Siva Vara Prasad. J Yp Obulesh Dr Ch Sai Babu, International Journal Of Innovative Research In Electrical, Electronics, Instrumentation And Control Engineering, 3(7), 15-19, July-2015 2321-2004.

19. **A Multi-Level Full Bridge Dc-Dc Converter With Zvzcs Pwm Control Scheme**, Siva Vara Prasad. J Yp Obulesh Dr Ch Sai Babu, International Journal For Research In Applied Science & Engineering Technology (IJRASET),3(6), 733-746, June 2015, 2321-9653.

20. **Closed Loop Control Of Zero Voltage Switching Dc-Dc Converter To Generate Three Outputs**, Siva Vara Prasad. J Yp Obulesh Dr Ch Sai Babu, International Journal Of Scientific & Engineering Research, 6(6), 1401-1415, June-2015 2229-5518.

21. **Comparative Analysis Of Fuzzy And Pi Controllers Based Dtc For Induction Motor,** Marthanda. A.V.G.A Dr.G.V.Marutheswar, International Journal Of Scientific Engineering And Technological Research, 4(5), 0908-0913, February-2015, 2319-8885.

22. **Controlling Of Fast Dynamic Dc/Dc Buck Converter,** P.Deepak Reddy Basavaraja Banakara, International Journal Of Innovative Research In Electrical, Electronics, Instrumentation And Control Engineering, , 3(7), 57-61, July-2015 2321-2004.

23. **Sliding Mode Control Technique For Dc-Dc Buck Converter With Improved Performance**, P.Deepak Reddy . Basavaraja Banakar, International Journal For Research In Applied Science & Engineering Technology (IJRASET), 3(12), 271-280, December 20152321-9653.

24. **Automatic Load Disconnection and Reconnection To Power System Using Controllable Loads**, Imran Abdul K Hareesh A Siva Satya Reddy Ch Dinesh, International Journal For Modern Trends In Science And Technology, 6(6), 15-20, June 2020, 2455-3778.

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25. **Model Predictive Control System for Steam Turbine Using MATLAB,** G.Mallikarjuna Rao, Bikash Swain, International Journal of Advanced Research in Electrical,Electronics and Instrumentation Engineering, 5(1), 162-169, January 2016, 2320-3765.

26. **Model Predictive Control of multi-Input multi-Output (MIMO)Boiler turbine system Using MATLAB**, Bikash Swain, R.Sarveswara Prasad, G.Mallikarjuna Rao, Journal of Instrumentation Society of India, 46(1), PP 16-19March 2016. 0970-9983.

27. **Implementation of dual direction suntracking solar system using AT89C52 microcontroller,** Pavani Kollamudi, International Journal of Science, Engineering and Technology Research (IJSETR), 5(2), February 2016, 2278-7798.

28. **Design,simulation and Analysis of Highly sensitive MEMS Cantilever beams using COMSOL Multiphysics,** G.Mallikarjuna Rao, International journal of Informative and futuristic Research, 2(10), June 2015, 2347-1697.

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29. **Comparative Study of OSC and NOSC Algorithms for High Dimensional Data**, A. Rama Satish, Dr. P. Bala Krishna Prasad, Dr. D. Naga Raju, Ravi Kumar Saidala, International Journal of Applied Engineering Research, 2015, 0973-4562. DOI:10.22214/IJRASET.2017.10328.

30. **Survey on Adaptive Position Update for Geo Routing Using Mobility Prediction and on demand learning in MANETS,** HemaSindhu Dara, Dr.S.Naganjaneyulu, International Journal of Research in Information Technology, 3(8), August 2015, Pg. 135-139, 2001-5569.

31. **Insider Attack Detection System (IADS) in MANETs**, Rangachary K, Dr.S.Naganjaneyulu, International Journal of Advanced Research in Computer and Communication Engineering, 4(6), 288-292, June 20152319-5940.

Freshmen Engineering Department

32. **Comparison of Ground Water Quality with Leachate from Municipal Solid Waste Dumpsites,** K. Shyamala Devi, A.V.V.S. Swamy, ShahedaNiloufer, Asia Pacific Journal of Research, 2015, 2320-5504.