



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.: 2016-17

i.	No. of SCI papers	:12
ii.	No. of Papers in Scopus indexed Journals	:10
iii.	No. of Papers in Conf. Proceedings indexed by Scopus	:07
	Total Papers in SCI & Scopus	:29
iv.	No. of UGC Journals	:28
v.	No. of Open Access Journals	:68
vi.	No. of Papers in General Conf. Proceedings	:08
vii.	No. of Patents Published	:01
viii.	No. of Books/Chapters published	:04
ix.	No. of Research Projects	:05
x.	No. of Doctoral Faculty	:54
xi.	No. of Recognized Supervisors	:16
xii.	No. of Ph.D. Scholars awarded Ph.D.	:01
xiii.	No. of Ph.D. Scholars Pursuing	:41

R & D Publications for the A.Y.: 2016-17

(From 1st July 2016 – 30th June 2017)

Details of Publications (Verified in database on 15-08-2018)								
S.No.	Dept.	SCI	SCOPUS		UGC	Open Access	Other Proceedings	Total
			Journals	Proceedings				
1.	AE	---	---	---	---	---	05	05
2.	CIVIL	---	---	---	02	07	---	09
3.	CSE	---	02	03	06	08	---	19
4.	ECE	06	03	02	02	16	01	30
5.	EEE	03	01	---	03	09	---	16
6.	EIE	03	03	---	---	05	01	12
7.	MECH	---	---	---	07	15	---	22
8.	IT	---	01	02	01	04	01	09
9.	FED	---	---	---	05	02	---	07
10.	MBA	---	---	---	02	---	---	02
11.	MCA	---	---	---	---	02	---	02
Total		12	10	07	28	68	08	133



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SCI Papers - 12

AE-0, CE-0, CSE-0, ECE-6, EEE-3, EIE-3, ME-0, IT-0, FED-0, MBA-0, MCA-0, **Total-12**

Department of Electronics and Communication Engineering

1. **Extraction of Micro aneurysms and Hemorrhages from Digital Retinal Images**, Ravindranath Tagore Mamilla, Venkata Krishna Rao Ede, Prabhakar Rao Bhima, Journal of Medical and Biological Engineering, June 2017, 37 (3) 395-408- Springer, 2199-4757 (Online)
2. **Investigation of structural and electrical properties on substrate material for high frequency metal-oxide-semiconductor (MOS) devices**, M. Kumar, Sung-Hyun Yang, K. Janardhan, Reddy and S.V. Jagadeesh Chandra, Material Research Express-IOP publishing, 4 (4), April 2017, 2053-1591.
3. **Dual Polygonal Slit Square Patch with Defected Ground Plane for Tri Band Operation**, P. Rakesh Kumar, K. Satya Prasad, A. Guruva Reddy, Microwave and Optical Technology Letters, 59 (5), May 2017, 1071-1074.
4. **Speech enhancement using MMSE estimation under phase uncertainty**, Ravi Kumar.K. P.V. Subbaiah, International Journal of Speech Technology, June 2017, 20(2), 373–385, 1381-2416.
5. **Design and development of Fractional Deep Belief Networks for speaker emotion recognition**, Kasi Prasad Mannepalli, Panyam Narahari Satry, Maloji Suman, International Journal of Speech Technology-Springer, 19(4), September 2016, 779–790. 1381-2416.
6. **A novel Adaptive Fractional Deep Belief Networks for speaker emotion recognition**, Kasi prasad Mannepalli, Panyam Narahari Sastry, Maloji Suman, Alexandria Engineering Journal, 56 (4), 485-497, December 2017, 1110-0168. ELSEVEIR, <https://doi.org/10.1016/j.aej.2016.09.002>,

Department of Electricals and Electronics Engineering

7. **FPGA controlled five level soft switching full bridge DC-DC converter for high power applications**, J. SivavaraPrasad, Y.P.Obulesh, Ch.Sai Babu, Cogent Engineering (Taylor & Francis), 3(1), 2016, 2331-1916.
8. **FPGA controlled solar based zero voltage and zero current switching DC-DC converter for battery storage applications**, J. Sivavara Prasad, Y.P.Obulesh, Ch.Sai Babu, Energy (ELSEVIER), Volume 106, 1 July 2016, Pages 728–742.
9. **FPGA Controlled Five- Level Soft Switching Full Bridge DC-DC Converter Topology**, J Sivavara Prasad, YP Obulesh, Ch Sai Babu, Journal of Electrical Systems , Volume 13, Issue 2, June, 2017, 1112-5209.

Department of Electronics and Instrumentation Engineering

10. **Effect of Change in Cao Concentration on Spectroscopic Properties of Tm³⁺ ions in Phosphate Glasses**, T. Satyanarayana, Tilak Mukherjee, G. Nagarjuna, Journal of Optoelectronics and Advanced Materials-SCI, 18 (9-10) (2016) 827-831.



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Research & Development Cell

11. **Structural investigations on P_2O_5 -CaO- Na_2O - K_2O :SrO bioactive glass ceramics**, T. Satyanarayana, M. VasuBabu, V. Rama Koti Reddy, G. Nagarjuna, P. Venkateswara Rao and P. Syam Prasad, *Ceramics International-ELSEVIER*, 43(13) (2017), 10144-10150.
12. **Structural and luminescent properties of Fe^{3+} doped tin oxide thin films by spray pyrolysis**, T.Satyanarayana, M.C.Rao, K.Ravindranadh, G. Nagarjuna, R.K.N.R. Manepalli, *Optoelectronics and Advanced Materials – Rapid Communications*, 11(3-4) (2017), 242-245.

Scopus Papers - 10

AE-0, CE-0, CSE-2, ECE-3, EEE-1, EIE-3, ME-0, IT-1, FED-0, MBA-0, MCA-0, Total-10

Department of Computer Science Engineering Department

1. **Real Time Electronic Control of Multi Fingered Hand Based on Sensors**, B.Shyamala, *Procedia Computer Science*, 92, 2016, Pages 253-259, 1877-0509
2. **Maximum Utility Item sets for Transactional databases using GUIDE**, D.SrinivasaRao, V. Sucharita, *Procedia Computer Science*, 92,2016, Pages 244-252, 1877-0509.

Department of Electronics and Communication Engineering

3. **Studies of Two Important Stability Indices of Earth's Atmosphere determined by using the COSMIC GPS Radio Occultation Technique**, R. Mastanaiah, P. S. Brahmanandam, G. Uma, A. NarendraBabu and K. Krishna Reddy, *Indian Journal of Science and Technology*, 9(38), Oct. 2016, 1-9, 0974-6846.
4. **Investigations on the Nitride Interface Engineering at HfO_2/Ge stacks for MOS devices**, G. Venkata Rao, M.Kumar, T.V.Rajesh, D.V. Rama Koti Reddy, D.Anjaneyulu, B. Sainath and S.V.Jagadeesh Chandra, *Materials Today Proceedings*. July-2016, 1-7. 2214-7853.
5. **CPHC based Procedure for Automatic Micro-aneurysm in Retinal Images**, G. Srinivasa Rao and Y. Srinivasa Rao, *Journal of Theoretical and Applied Information Technology*, 93(2), (November 2016), 571-579, 1992-8645.

Department of Electricals and Electronics Engineering

6. **Three-Phase Three-Level Soft Switching Dc-Dc Converter for Industrial Applications**, J Sivavara Prasad, YP Obulesh, Ch Sai Babu, *International Journal of Power Electronics and Drive Systems (IJPEDS)*, 8(2) June 2017, pp. 785-794, 2088-8694



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Research & Development Cell

Department of Electronics and Instrumentation Engineering

7. **Luminescent and Gas Sensing Properties of SnO Thin Films Grown by Pulsed Laser Deposition**, M.C. Rao, K. Ravindranadh, T. Satyanarayana, G. Nagarjuna, M.S. Shekhawat, Der Pharma Chemica, 2016, 8(4), 243-250, 0975-413X.
8. **Effective Adaptive Algorithm Technique for Acoustic Echo Cancellation**, Sk.Mastan Sharif, International Journal of Multimedia and Ubiquitous Engineering, 11(9), (2016), 375-384, 1975-0080.
9. **Modelling and Deformation Analysis of Piezoresistive Cantilever for Bio-sensing Applications**, T. Satyanarayana, M. VasuBabu, D. Venkata Lakshmi ·D. V. Rama Koti Reddy , Indian Journal of Science & Technology, 9(S1) (2016) 1-7. 0974-6846.

Information Technology

10. **Improved Whale Optimization Algorithm Case Study: Clinical Data of Anaemic Pregnant Woman**, Ravi Kumar Saidala, Dr. D. Nagaraju, Data Engineering and Intelligent Computing (Advances in Intelligent Systems and Computing-SCOPUS), AISC, IC3T-2016. 5-6, November 2016, 2194-5357.

Scopus Conference Proceedings - 07

AE-0, CE-0, CSE-3, ECE-2, EEE-0, EIE-0, ME-0, IT-2, FED-0, MBA-0, MCA-0 **Total-07.**

Department of Computer Science Engineering Department

1. **Real Time Electronic Control of Multi Fingered Hand Based on Sensors**, B.Shyamala, 92, 2016, Pages 253-259, 1877-0509, Elsevier.
2. **Improved Whale Optimization Algorithm Case Study: Clinical Data of Anaemic Pregnant Woman**, Ravi Kumar Saidala, Nagaraju Devarakonda, Data Engineering and Intelligent Computing, pp 271-281, volume 542, 01-06-2017, 978-981-10-3222-6, Springer, Singapore.
3. **Maximum Utility Itemsets for Transactional databases using GUIDE**, D. Srinivasa Rao, Dr. V. Sucharita, Procedia Computer Science, 92, Pages 244-252, 2016, 1877-0509, Elsevier.

Department of Electronics and Communication Engineering

4. **Enhancement of noisy speech using sub-Band harmonic regeneration and speech presence uncertainty Estimator**, K. Ravi Kumar, P.V. Subbaiah, IEEE Xplore, 1/9/2017, 978-1-5090-0774-5.



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Research & Development Cell

5. **Slice specific atlas independent hippocampus segmentation using simple labelling**, G. L. N. Murthy; B. Anuradha; Siva Rama Krishna; B. Naresh Kumar Reddy; R. Sithara, IEEE XPLore, 3-11-2016, 978-1-4673-7807-9

Information Technology

6. **Collaborative Attack Effect Against Table-Driven Routing Protocols for WANETs: A Performance Analysis**, E. Suresh Babu, S.Naganjaneyulu, P.S.V. SrinivasaRao, M. Srinivas Rao, Computer Communication, Networking and Internet Security - Springer, Online ISBN 978-981-10-3226-4, ISBN978-981-10-3225-7.
7. **A Comprehensive Study on Cloud Service Brokering Architecture**, AnupriyaKoneru, M. Sreelatha, Proceedings of the IEEE 2017 International Conference on Computing Methodologies and Communication (ICCMC), 78-1-5090-4890-8/17/\$31.00 ©2017 IEEE

UGC Papers - 28

AE-0, CE-2, CSE-6, ECE-02, EEE-3, EIE-0, ME-7, IT-1, FED-5, MBA-2, MCA-0 Total-28.

Civil Engineering Department

1. **Study on Water Quality Ranking in Rajam**, V.Ramakrishna, International Journal of Engineering Research & Technology (IJERT), 6(6), JUNE-2017, 344-349, 2278-0181.
2. **A Study on Ground Water Quality in CRDA Region**, V.Ramakrishna, M.Charitha,G.V.S.N Sai, S.N.D. Manikanta,B.Rani, Asia Pacific Journal of Research,1, June 2017, 2347-4793.

Department of Computer Science Engineering Department

3. **Flexible and Secure Key Exchange Mechanism for Network File Systems** , Joshi Padma Narasimhachari, Dr.N. Ravi Shankar, Dr.M.Balaraju,T.Soundarya, International Journal of Research in Information Technology, 4(10), October 2016, 55-65, 2001-5569.
4. **Enhanced QoS Based Collaborative Filtering for Web Service Recommender System**, Joshi padmanarasimhachari, Dr.N.Ravi Shankar, Dr.M.Balaraju, G. Anil Kumar, International Journal of Research in Information Technology , 4(10), October 2016, 66-76, 2001-5569.
5. **Diversify Based On the Context of the Word Queries for Xml Data**, Mrs.Joshi Padma Narasimhachari, Kaveti SaiTeja , Dr. N. Ravi Shankar, Dr. M. B. Raju, , International Journal of Research , 3914), Oct. 2016, 2348-6848.
6. **P2P Sharing Cluster Proximity Interest-Aware File System**, MasamValli Kumar, Mrs.Joshi Padma Narasimhachari, Dr. N. Ravi Shankar, Dr. M. B. Raju, , International Journal of Research, 3 (14), Oct. 2016, 2348-6848.



7. **The Strong Confidence: The Process of Computational Dynamic Trust Model for Secure Communication in Multi-Agent Systems**, Mrs.Joshi Padma Narasimhachari, Valli Kumar Masam, Dr. N. Ravi Shankar, Dr. M. B. Raju, , International Journal of Research , 3(14), October 2016, 2348-6848.
8. **Cloud Privilege of Access to Data and Anonymity with the Unknown Entirely Based Encryption to ontrol Characteristics**, Kaveti SaiTeja, Mrs.Joshi Padma Narasimhachari, Dr. N. Ravi Shankar, Dr. M. B. Raju, , International Journal of Research , 3(14), October 2016, 2348-6848.

Department of Electronics and Communication Engineering

9. **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.
10. **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 Electrical and Electronics Engineering

11. **A Novel Full bridge DC-DC converter with energy recovery turn-off snubber**, B.Eswar, E. Raghu Babu, Journal for Research in Applied Science & Engineering Technology, 4(8), August 2016, 2321-9653
12. **Performance comparison of a speed controlled PFC bridgeless Buck-Boost converter fed BLDC motor drive with PI & Fuzzy controllers**, B.Gopala Krishna, Dr.M.Uma Vani, International Journal for Research in Applied Science & Engineering Technology (IJRASET), 4(12), Dec. 2016, 119-133, 2321-9653.
13. **A New Topology for Compensation of Voltage Sag/ Swell Problems Using Dynamic Voltage Restorer**, Shaik Esoobu, B. Pangedaiah, Journal for research in applied science & engineering technology, 4(9), Sep. 2016, 2321-9653.

Department of Mechanical Engineering

14. **Effect of Copper Nano Particles on Banana Fibber Reinforced Polyester Composites** , Dr.S.PichiReddy, Dr.K.Dilip Kumar, Journal of Manufacturing Engineering, 12(1), March,2017, 26-28, 2314-5781.
15. **Simulation & Optimization of Thermal Power Plant Cycles**, P. RavindraKumar, V.Ramachandra Raj, N. RaviKumar, Perspectives in Science (ELSEVEIR), 8, September 2016, 304-306, 2213-0209.



16. **A review on tribological properties of lubricating oil with nanoparticles additives**, K.N.D.Malleswara Rao, V.Sankara Rao , K.Somasekhar, International Journal of advance engineering and research development, 4(6), June-2017, 2348-4470.
17. **Evaluation of Flexural properties of Bamboo Fiber Reinforced Hybrid composites**, T.VenkateswaraRao, K.V.Viswanadh,K.Narayana, International Journal of advance engineering and research development, 4(6), June-2017, 2348-4470.
18. **Study of Hardness an optimization of Wear Properties of AL 7075 Hybrid Composite**, P. Sandeep Kumar, Dr.S. Pichi Reddy , G. Kartheek, International Journal of Engineering Research & Technology, 6(6), June – 2017,946-949, 2278-0181.
19. **Investigation on Performance Parameters of Vapour Compression Refrigeration System by Incorporating Phase Change Materials**, Dr.K.Dilip Kumar, T.Ayyappa, And Dr.K.Vijay Kumar, International Journal of Advanced Mechanical Engineering. Research India Publications, 6, Number 1 (2016), 17-26, 2250-3234.
20. **Influence of Strontium Concentration on Dry Sliding wear Behaviour of Eutectics Al-Si cast alloys with varying speed**, P V Chandra Sekhar Rao, A Satya Devi, K G Basava Kumar, Indian Foundry Journal, 2(4) October 2013,9-17, 0379-5446.

Information Technology

21. **Feature Based Opinion Analysis of Chinese Mobile Reviews**, K. Rajasekhar,V. V. Krishna Reddy , Ch. SambasivaRao,, International Journal for Research in Applied Science and Engineering Technology, 5(IV), April 2017,282-288, 2321-9653.

Freshmen Engineering Department

22. **MHD flow past an Accelerated Infinite Vertical Porous Plate**, K. Jhansi Rani, Ch.V. Ramana Murthy,, International Journal of Mathematical Archive, 8(6), June– 2017 , , 2229-5046.
23. **Variation of flow rate in case of MHD flow over a moving infinite vertical Porous plate in the presence of Thermal Radiation and Uniform Heat Flux**, K. Jhansi Rani, Ch.V. Ramana Murthy, , International Journal of Mathematical Archive, 8(3), March – 2017, 13-20, 2229-5046.
24. **A brief Report about characteristics of Municipal Solid Waste, its health impacts and awareness of households on solid waste management in Hyderabad city**, K.Syamala Devi, Dr. A.V.V.S. Swamy, and ShahedaNilofer, , Asia Pacific Journal of Research, I(XLIV), November 2016,174, 2320-5504.
25. **Seasonal Variations in the ground water characteristics at MSW sites at Kondapalli area**, V. Bhagya Lakshmi,Dr. M. Raghuram, Asia Pacific Journal of Research, I(XLII), August 2016, 242, 2320-5504.



26. **Adsorption of Basic Textile Dye from Aqueous Solution by Prepared Activated Carbon**, T.V. Nagalakshmi, K.A. Emmanuel, Ch. Suresh Babu, K.Nagaraju and KazaSomasekharaRao, Journal of Applicable Chemistry, 2278-1862.

Management of Business Administration

27. **HRD climate in Indian premier public and private sector banks: an urban-rural comparison**, Srinivas Lakkoju, Indian Journal of Industrial Relations, Apr-Jun 2017, 634-643, 0019-5286.
28. **Importance-Performance Analysis of Service Quality in Higher Education: a case study**, SrinivasLakkoju, Indian Journal of Industrial Relations, 52(1), July-Sep 2016, 144-156, 0019-5286

Open Access Journals- 68

AE-0, CE-7, CSE-8, ECE-16, EEE-09, EIE-5, ME-15, IT-4, FED-2, MBA-0, MCA-2 Total-68.

Civil Engineering Department

1. **Determination of Strength Properties by using Glass Fibre in Concrete**, B. Ramakrishna,E. Nagaraju,T.Sivakumar,T. Ramesh, Y.Tejakumar, International Journal for Scientific Research & Development , Vol. 5, Issue 02, 2017, 2321-0613.
2. **Determination of Strength Properties by using Paper Pulp in Concrete**, Dr.K.Srinivasa Reddy, Varaprasad.G.Naveen Kumar, D.Leelakrishna. O.KalyanNaik, , International Journal for Scientific Research & Development , Vol. 5, Issue 02, 2017, 2321-0613.
3. **Modified Flexible Pavement Design by using Foamed Polystyrene Waste**, Dr.K.Srinivasa Reddy,Sk.Amreen,S.Mounika, M.Parvage, B.Padmakar Reddy , International Journal for Scientific Research & Development , Vol. 5, Issue 02, 2017,Pg 555-557, 2321-0613.
4. **Pollution Absorbing Pavements**, M.Manoj Kumar, Imam Shaik, P.Sravanthi, A.Sesirekha, P.Keerthi&S.Geetha, , Imperial Journal of Interdisciplinary Research (IJIR) , Vol-3, Issue-4, 2017, Pg 1625-1631, 2454-1362.
5. **Performance Based Study and Behaviour of Pervious Concrete**, S. Nagendra, Ch. Srinivas, International Journal of Innovative Technologies April-, Volume.05, Issue No.04 2017, Pages: 0613-0617, 2278-3075.
6. **Variations in Strength of Concrete by using Waste Plastic as Coarse Aggregates Replacement Material**, P. Sravanya, Ch. Srinivas,, International Journal of Innovative Technologies , Volume5, Issue No.04, April-2017, Pages: 0603-0607, 2278-3075.



7. **Experimental Investigation on Strength Properties of High Strength Self Compacting Concrete By Using Mineral Admixtures**, ChunduriVijaya Krishna, Ch.Srinivas, International Journal For Technological Research In Engineering , Volume 4, Issue 8, April-2017, 2347-9450.

Department of Computer Science Engineering Department

8. **Mitigating the Malicious Nodes by the Effect of Trust Evaluation with Composite Trust Public Key Management in MANET**, Madhuri Vajrala, G.BaluNarashimaha Rao, International Journal of Research in Electronics and Communication Engineering, 4(4), Sep. 2016, 2321-5593.
9. **Dynamic Optimized cloud provisioning in cloud data sharing**, K.RamaRao and B.Siarama Krishna, International Journal of Applied Sciences, Engineering and Management , 5 Sept 16, 65-69, 2581-7000.
10. **Integrated framework for multiuser encrypted query operations on cloud data bases**, A.Rama Satyasureshbabu and G.NageswaraRao, International journal for development of computer science and technology, 4, Sept-Oct 2016 1-6, 2321-0257.
11. **Prediction policy based technique for multimedia content sharing in social network sites**, M. NageswaraRao, A.Sudhakar, International journal for development of computer science and technology, Vol-6,issue -5,sept-oct 2016, 2321-0257
12. **An enhanced approach of secure pattern classification under attack**, Ch.Lakshmi,D.Veeraiah, International Journal Of Emerging Technology In Computer Science And Electronics, 23(5), Sept 2016, 2321-0257.
13. **A new test tool for network debugging and faults identification**, ReshmiKallam and K.SundeeSarathi, International Journal Of Emerging Technology In Computer Science And Electronics, 23(5), Sept 2016, 0976–1353.
14. **Secured Personalized web search using adopted algorithms**, Ch.PoornaVenkatasrinivasaRao and M.SriBala, International journal for development of computer science and technology, 6(5), Sept 2016, 2321-0257.
15. **Intrusion Detection by using fuzzy genetic algorithm**, Bhavani, G.V.Rajya Lakshmi, , International Journal of Innovative research in Advanced Technology , 1(4),Oct-2016, page.no-219-227, 2349-2163 .

Department of Electronics and Communication Engineering

16. **Personal Identification Using Left and Right Palm print Images by Steerable Filter**, M. Hema, Dr. A. NarendraBabu, Dr. S. V. Jagadeesh Chandra, Dr. G. Srinivasa Rao, International Research journal of Engineering and Technology , Volume: 03 Issue: 09, Sep -2016, 678-683.



17. **Non Uniform Blur and Illumination Variance Face Recognition Using Local Binary Pattern** , K. Sravya and M.Suman, International Research journal of Engineering and Technology, Volume -3, Issue-9, September 2016, 775-780.
18. **Dual Tree Complex Wavelet Transform for Medical Image Fusion**, Y. Padma, Dr.K.Nagaprakash and P.Rakesh Kumar, International Research journal of Engineering and Technology, Volume -3, Issue-9, September 2016, 684-689.
19. **Image Forgery Detection using Adaptive Over Segmentation and Feature Point Matching**, Nazeema, B.Ramesh Reddy, P.Rakesh Kumar, International Journal of Innovative Research in Technology, September 2016 Volume 3 Issue 4, 305-310., ISSN:2349-6002.
20. **Age-Invariant Face Recognition System Using Combined Shape And Texture Features**, T.VijayKanth, Dr.S.V.Jagadeesh Chandra, Dr.A.NarendraBabu and Dr.G.Srinivasa Rao, International Journal of Innovative Research in Technology , September 2016, Vol-3 Issue 4, 242-247., ISSN:2349-6002.
21. **Automatic Highway Vehicle Counting and Classification for Surveillance Applications**, K. Rani and E.V.Krishna Rao, International Journal of Innovative Research in Technology , September 2016, Vol-3 Issue 4, 212-218., ISSN:2349-6002.
22. **RADAR Imaging by Sparsity and compressed Sensing**, G.Srinivasa Rao, L.VijayaPurna, International Journal of Innovative Research in technology, October 2016, Vol-3 Issue 5, ISSN:2349-6002.
23. **Micro Blaze Based SOC Platform for JPEG2---0 Compression on SPARTAN6 FPGA**, Y.AmarBabu, M.Rama Devi , International Journal of Innovative Research in technology, September 2016, Vol-3 Issue 4, ISSN:2349-6002.
24. **Non Brain Region Removal in Coronal MR images with Histogram Modeling**, G.L.N.Murthy, B.Anuradha , International Journal of Software Engineering and its Applications, Vol-10, Issue 12 (2016), ISSN:2349-6002.
25. **Intensity Inhomogeneity Correction With Energy Optimization**, K.Srinadh, G.L.N Murthy, International Journal of Innovative Research in technology, September 2016, Vol-3 Issue 4, ISSN:2349-6002.
26. **Spot Detection with Optimal Scale Selection in Fluorescence Microscopy Image**, Sk.Fairoze, V.V.Rama Krishna, P.Rakesh Kumar, , International Journal of Innovative Research in technology, October 2016, Vol-3 Issue 5., ISSN:2349-6002.
27. **Automatic Detection of Pathogenic Diseases on Leaves**, K.L.Kartheek, T.Anil Raju, International Journal of Innovative Research in technology, September 2016, Vol-3 Issue 4, ISSN:2349-6002.



28. **Wavelet Entropy Measure to Quantify Information Transmission using EEG Signals**, B.Rajeswari, T.AnilRaju,, International journal of innovative research in technology, April 2017, Volume 3 Issue 11, ISSN:2349-6002
29. **Diagnosis of Diabetic Retinopathy Using Morphological Process and SVM Classifier**, B.V.N.R. Siva Kumar, International Journal of Innovative Research in technology, September 2016, Vol-3 Issue 4, ISSN:2349-6002.
30. **Reversible Image Data Hiding with Contrast Enhancement**, K. Rani Rudrama, International Journal of Innovative Research in technology, September 2016, Vol-3 Issue 4,, ISSN:2349-6002.
31. **Synchronization Likelihood - a Non Linear Multivariate Technique for finding Functional Connectivity**, B.Rajeswari, T.Anil Raju, International journal of innovative research in technology, May 2017 , Volume 3 Issue 12, ISSN:2349-6002

Department of Electrical and Electronics Engineering

32. **A High voltage gain flyback converter with soft switching for solar applications**, R.Bhaskararao, J.Sivavara Prasad, K.R.L.Prasad, Journal of Engineering & Technology, 3(7), Jul- 2016 , 1623-1626, 2227-524X.
33. **A new H-Bridge Cascaded Multi level inverter with reduced number of components**, M.Deepika,K.Sudheer Kumar, Journal for Research & Development in Technology,6(2),Sep-2016. 2349-3585.
34. **High Gain Switched Boost Inverter with Single LC Filter**, Thummuri.rajareddy, Ch.Rajesh, Journal of Innovative Research Methodology,3(3), August 2016, 2349-6002.
35. **Designing of Five Level Diode Clamped Inverter Based PV System Fed Induction Motor Drive**, A.V.G.A.Marthanda , Dr. G.V. Marutheswar,, International Journal of Applied Sciences, Engineering and Management, 6(1), January 2017, pp. 140-1442320 -3439.
36. **A Reduced Switch Three-Phase Buck–Boost Ac–Dc Converter**, M GayathriNeelima, K Naga Linga Chary, International Journal For Research & Development In Technology, 6(2), (Sep-16), 2349-3585.
37. **Implementation of a closed loop system to improve DVR Response**, A.V.RaviKumar, K.NagalingaChary, P.Srihari, , Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, 4(8), 7-10, August 2016, 2321-2004.
38. **Reduced Switching Loss AC/DC/AC Converter with feed forward control**, A.SarithaReddy,T.NagaDurga, Journal of Innovative Research Technology, 3(4), Sep-2016,53, 2349-6002.



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Department of Electronics and Instrumentation Engineering

41. **Automation of temperature variation setup for impedance analyzer using LabVIEW**, T.Satyanarayana, Rahul Gunde, Krishna KanthKonda, Int. J. of Engineering Research, 4(5) (2016) 82-89. 2229-5518.
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43. **Mobile Irrigation System**, G.Mallikarjuna Rao, K. Pavani, International Journal of Advanced Research, Pp. 476-480 September(17), Issue, Vol.4 (2016), 2665-2634.
44. **Acoustic Echo Cancellation using Computationally Efficient Adaptive Algorithm Techniques**, Sk.Mastan Sharif, Journal on Computer Science and Information Technologies, 1(2), (2016), 53-58, 2543-1543.
45. **Area and delay optimization for ambaaxi in SOC applications**, D.VenkataLakshmi, V. Vineela, International Journal of Research, 3(17), (2016), 2348-6848.

Department of Mechanical Engineering

46. **Experimental Investigation on Cylindrical Parabolic trough Collector with Water-Ethylene Glycol at Various Proportions**, K.Anu Kumar Naik, P.Vijay Kumar, K.Dilip Kumar, V.Nageswara Rao, International Journal of Thermal Technologies, Vol.6, No.3 (Sept 2016), pp249-252.
47. **Effect of Exhaust gas Recirculation and Isobutanol Additive on Biodiesel Fuelled Diesel Engine for the Reduction of NO_x Emissions**, S.KiranKumar, K.Apparao, R.Nagendrababu, International Journal of advanced science and Technology, Vol.92(2016), pp.17-24, 2395-1052.
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51. **Performance analysis of twin cylinder water cooled diesel engine by using distilled tyre pyrolysis oil**, Mr.A.NareshKumar, International journal for science and advance research in technology, 3(6). 1403-1410, JUNE 2017, 2395-1052.
52. **Mathematical modeling and Markov chain analysis of corrosion propagation in pipelines to predict the failure**, Ch.SivaSankarBabu, V.Venkatesu,, International journal of Mechanical Engineering, Special Issue May, 2017, 51-56, 2348-8360.
53. **Numerical Investigation of Heat Transfer Characteristics in a Pin Fin Dimple Channel with various Inclinations**, A.V.V.R.Prasad, K.LakshmiPrasad, S.Rami Reddy, International journal for science and advance research in technology, 2(7) Jan -Feb-2015, 2395-1052.
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58. **Synthesis and Thermal Analysis of Bioactive Glasses-In Vitro Characterization**, ShaikPharuk, Dr.P.Vijay Kumar, , International Journal of Innovative Research In Technology, Volume 3 , Issue 3,august 2016,PP 153-159, 2349-6002.
59. **Exergy Analysis of Heat Pump System for Both Heating And Cooling**, Dr.P.Ravindra Kumar , International Journal of Innovative Research In Technology, 2349 -6002.
60. **Energy and Exergy Analysis of Thermal Power Plant**, V. Satish, V. Dhana Raj, International Journal of Engineering Science and Computing, Vol. 6 Issue 8, Aug. 2016, pp 2636-44, 2319-7242.



61. **Enhanced Caesar Cipher algorithm with variable length key and increased cipher complexity**, P.Srinivasa Rao, Dr. D. Naga Raju, International Journal of Computer Science and Information Security (IJCSIS), 14, September 2016, 1947-5500.
62. **A unique dimensionality shrink style for high dimensional spatiotemporal brain signal databased on graph signal processing theory**, Dr. D. Naga Raju, A.Sarvani, B.Venugopal, , International Journal of Computer Science and Information Technology (IJCSIS), 14, September 2016, 1947-5500 (OPEN).
63. **Classification with Active Learning Method in Relevance Feedback for Content-Based Image Retrieval**, Suresh Thommandru, Dr. D. Naga Raju, International Journal of Computer Science and Information Security (IJCSIS), 14, September 2016, 1947-5500 (OPEN).
64. **Collaborative Attack Effect Against Table-Driven Routing Protocols for WANETs: A Performance Analysis**, E. Suresh Babu, S. Naganjaneyulu, P. S. V. SrinivasaRao, M. Srinivas Rao, Computer Communication, Networking and Internet Security - Springer, Online ISBN 978-981-10-3226-4, ISBN978-981-10-3225-7,

Freshmen Engineering Department

65. **Impact of Municipal Solid waste on the Ground water quality in Kondapally city, Andhra Pradesh**, V. Bhagyalakshmi, Dr.M. Raghuram, Dr.Shaheda Niloufer, International Journal of Applied and Pure Science and Agriculture, 3(4) April 2017, 17-21, 2394-5532.
66. **Decolorization of Textile Effluents to Maintain Water Quality by Using Activated Carbon**, T.V. Nagalakshmi, K.A. Emmanuel, Dr.N.V.V.S.Prasad, International Journal of Education and Applied Research, 6(2) Spl(2), 15-20, July - Dec 2016 2348-0033 (Online), 2249-4944 (Print).

Master of Computer Applications

67. **Modifiability Analysis at Architecture Level through Scenario Elicitation Modifiability Analysis at Architecture Level through Scenario Elicitation (MAASE)**, P. Ashok Reddy, Dr. K. Rajasekhara Rao, Babu Reddy, International Research Journal of Engineering and Technology, 3(9), September 2016, Page No:1548-1553, 2395-0056.
68. **Validation Of Usability Evaluation Models Through Experimental Setup And Empirical Study**, P. Ashok Reddy, K. Rajasekhara Rao, Babu Reddy, International Journal of Innovative Research and Advanced Studies (IJIRAS), 3(9), August 2016, Page No:292-298, 2394-4404.



Details of General Conf. Proceedings- 08

(AE-05, ECE-01, EIE-01, IT-01)

Aerospace Engineering Department

1. **Characteristics of twin compressible jets**, K.B.V.Satyaprakash, P.Lovaraju, E.Rathakrishnan,, 18th national conference on enabling sustainable development in mechanical engineering on 23-25, feb-2017, Proceeding of 1st International.
2. **The effect of number of stages and blade twist angles of Savonius rotor Vertical Axis wind Turbine (VAWT) for electricity production**, ManikantaReddy, B. Eswara Kumar, A. BalaRaju., 61st Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM), VITU - Vellore, India, Dec. 11-14, 2016., A numerical study- Proceedings.
3. **Experimental Studes on Blunt Nosed Bodies**, T.Srinivasarao, V.Sivakhanna, I. Dakshina Murthy P. Lovaraju, International Conference on Engineering Materials and Processes, ICEMAP 9-10 March, 2017.
4. **Effect of Body Geometry on Flow Field Variance**, T.Srinivasarao, I.Dakshina Murthy, P.Lovaraju,, National Conference on Green and Sustainable Energy India Prospective in Global Environment, 14-15 July 2017, Organized by Aditya Institute of Technology and Management, Tekkali, AP.
5. **Characteristics of Concentric and eccentric Co-Flowing Subsonic Jets**, T.Srinivasarao, I.Dakshina Murthy, P.Lovaraju, , National Conference on Green and Sustainable Energy India Prospective in Global Environment, 14-15 July 2017, Organized by Aditya Institute of Technology and Management, Tekkali, AP.

Department of Electronics and Communication Engineering

6. **Reduction of Micro Aneurysms in Retinal Identification Based on Hierarchical Clustering in Terms of Improved Circular Gabo Filter**, G. Srinivasa Rao and Y. Srinivasa Rao, First International Conference on Information and Communication Technology for Intelligent Systems: Volume 1, Smart Innovation, Systems and Technologies, Volume 1, ISBN No: 978-3-319-30932-3, 393436_1_En (36). 2016, Pg. 349-364.

Department of Electronics and Instrumentation Engineering

7. **Synthesis & Characterization of SrO doped Calcium Phosphate Bioactive Glasses**, Dr. T. Satyanarayana, International Conference on Science and Engineering of Materials for Future Needs, Proceedings, ISBN 978-1-329-77555-8 (e-book) (2016) 130-135.



Department of Information Technology

8. **Identifying data stream mining by using Irregular Gaussian Naïve Bayes Classifier with recurring concept drift**, Samba Siva Rao.ch, SSRG International Journal of Computer Science and Engineering- ICEEMST conference, March 2017.

Details of Patents - 1

S.No.	Patent Title	Applicants	Patent No.	Published Date
1.	Vehicle Deceleration Indicating System	Mr. Chaitanya Bhavaraju (ME)	201641038756	25/11/2016.

Details of Sponsored Research

No. of Research Projects: 05

Details of Projects Completed-Nil

Details of Sanctioned/Ongoing Projects-05

S.No.	Dept.	PI/Co-PI	Project Title	Funding Agency & Scheme	Duration	Total Amount Sanctioned in Lakhs	Month & Year of Sanction
1.	ME	Mr.B.Chaitanya	Experimental studies on influence of cognitive and visual distractions in motor vehicle drivers leading to accidents	DST-CSRI	3 Years	21.69	Oct-2015
2.	EIE	Dr T.Satyanarayana	Investigation on Zn, Sr, and Mg ions doped Highly Bioactive Phosphate Glass Ceramics	DST-YS	3 Years	15.00	Mar-2015
3.	ME	Dr.Chandra Sekhara Rao. P.V	Investigation on fatigue behavior of materials subjected to reversed bending	UGC-MRP	2 Years	4.80	Jan -2015
4.	ME	Dr.Seelam Pichi Reddy	Characterization of Aluminum – fly- Ash Composites with various metallic and non-metallic Additions	UGC-MRP	2 Years	4.55	Jan -2015
5.	EIE	Dr T.Satyanarayana	Influence of Crystallization on Luminescence Efficiencies of Tm ³⁺ doped Phosphate Glass Fibre Amplifiers	UGC-MRP	2 Years	4.0	Sep-2014



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Research & Development Cell

Details of Supervisors & Scholars during the AY 2016-17

- i. No. of Recognized Research Supervisors : 16
- ii. No. of Scholars Pursuing Ph.D. : 41
- iii. No. of Scholars Awarded Ph.D. : 01

S.No	Name of the Supervisor	Dept.	Ph.D. Conferred Year	Year of Recognition as Supervisor	Recognized University	Name of Scholars	Year of Registration	Status	No. of Scholars
1	Dr. P. Lovaraju	ASE	2008	2009	JNTU-K	Mr. I. Dakshina Murthy	2016	Pursuing	4
						Mr. Kedaranath Mahapatro	2014	Pursuing	
						Mr. V. Mani Kumar	2014	Pursuing	
						Mr. K.B.V.Satya Prakash	2013	Pursuing	
2	Dr. Ch. V. Narayana	CSE	2014	2015	JNTU-K	V. Kishore Babu	09/02/2016	Pursuing	2
		CSE	2014	2015	JNTU-K	A Srirama Chandra Murthy	09/02/2016	Pursuing	
3	Dr.A.Narendra Babu	ECE	2008	2017	JNTU-K	Mr. G. Venkata Ramanaiah	2017	Pursuing	1
4	Dr. E. V. Krishna Rao	ECE	Apr. 2007	2013	KLU	Mr.N. Ravi Kumar Reddy	2015	Pursuing	7
		ECE	Apr. 2007	2012	Kanchi Uni	Mr.K.Raja Rao	4 th Jan 2012	Pursuing	
		ECE	Apr. 2007	2013	KLU	B. Suneela Reddy	8 th Feb 2014	Pursuing	
		ECE	Apr. 2007	2008	JNTU-K	M. Ravindranath Tagore	2009	Pursuing	



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Research & Development Cell

		ECE	Apr. 2007	2008	JNTU-K	P. Ammi Reddy	2008	Pursuing	
		ECE	Apr. 2007	2008	JNTU-H	J. Ravindra Babu	2008	Pursuing	
		ECE	Apr. 2007	2008	JNTU-H	N. Udaya Kumar	2008	Awarded 13-06-2017	
5	Dr.K.Harinadha Reddy	EEE	2012	2014	JNTU-K	Ch. Rami Reddy	2015	Pursuing	3
				2014	JNTU-K	Ch. Amarendra	2015	Pursuing	
				2014	JNTU-K	Mr.S. Govinda Raju	2014	Pursuing	
6	Dr.M.Umavani	EEE	2012	2015	JNTU-K	Ms.N. Vanajakshi	2015	Pursuing	4
	Dr.M.Umavani					S.V.R. Lakshmi Kumari	2015	Pursuing	
	Dr.M.Umavani					Mr.P. Balanagu	2014	Pursuing	
	Dr.M.Umavani					M. Punya Sekhar	2014	Pursuing	
7	Dr. D. Naga Raju	IT	2014	2014	JNTU-K	Ravi kumar Saidala	2014	Pursuing	8
						Shaik Mahaboob Basha	2014	Pursuing	
						Home Prasanna Raju Y	2014	Pursuing	
						Dasaradha Raman Jalli	2014	Pursuing	
						Kishore Babu Dasari	2014	Pursuing	
						M.Rao Batchanaboyina	2014	Pursuing	
						Nalini Sri Mallela	2014	Pursuing	
						Srinivasa Rao Pokuri	2014	Pursuing	
8	Dr.S. Naganjaneyulu	IT	2014	2016	JNTU-K	Katru Rama Rao	2016	Pursuing	2
						Kalva Sudhakar	2016	Pursuing	
9	Dr. A.Adishesha Reddy	MBA	2013	2013	KLU	G.Srinivasu Raju	2012	Pursuing	1
10	Dr. T. Rajasekhar	MBA	2007	2011	JNTU-K	N.A.	N.A.	N.A.	0



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11	Dr. K. Appa Rao	Mech	2013	2016	JNTU-K	Anil Kimar Chintalapudi	2016	Pursuing	1
12	Dr. K. Dilip Kumar	Mech	2014	2016	JNTU-K	Tejomurthi Pinjala	2016	Pursuing	1
13	Dr.K.Murahari	Mech	2016	2016	KLU	G. Siva Prasad	2017	Pursuing	4
				2016	KLU	Sunappu Chandrasekar Reddy	2017	Pursuing	
				2016	KLU	Ram Swaroop Singh	2016	Pursuing	
				2016	KLU	Inovath Srinivsa Naik	2016	Pursuing	
14	Dr.P.V.Chandra Sekhar Rao	Mech	2013	2016	JNTU-K	Sumalatha Chatragada	2016	Pursuing	1
15	Dr.P.Vijay Kumar	Mech	2012	2016	JNTU-K	P.Venkata Ramana	2016	Pursuing	1
16	Dr.S.Pichi Reddy	Mech	2012	2016	JNTU-K	Gopi Chand Dirisenapu	2016	Pursuing	1



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Details of Ph.D. Guided Successfully-00

S.No.	Details of Faculty	Acted as	Scholar Name	Awarding University	Date of Awarding
1.					

Details of Books/Chapters-04

S. No.	Authors	Title of the Book	Publisher	Published Date	ISBN
1.	Rajesh T.V, Jagadeesh Chandra S.V (ECE) , V.V. Ramana Ch	Role of Annealing on the Interface Engineering in Ge-MOS devices	Lambert Academic Publisher	2017	978-3659-68485-2
2.	Dr. Shaheda Niloufer (FED) , Dr. A.V.V.S. Swamy	Impact of Municipal Solid Waste on the Ground water (A case study of dumpsites at Vijayawada city in Andhra Pradesh, India)	Lambert Academic Publisher	2016	978-3-330-00920-2
3.	Dr.D.Veeraiah (CSE)	Advanced Engineering Research and Applications.	Research India Publications	2017	978-93-87374-32-4

Dean R&D