



## 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 during the A.Y.: 2019-20

i.	No. of SCI papers	: 29
ii.	No. of Papers in Scopus indexed Journals	: 126
iii.	No. of Papers in Conf. Proceedings indexed by Scopus	: 12
	<b>Total Papers in SCI &amp; Scopus</b>	<b>: 167</b>
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iv.	No. of Open Access Journals	: 151
v.	No. of Papers in General Conf. Proceedings	: 02
vi.	No. of Patents Published	: 13
vii.	No. of Books/Chapters published	: 02 (Book-1, Chapter-1)
viii.	No. of Research Projects completed	: 06
ix.	No. of Research Projects Sanctioned/Ongoing	: 05
x.	No. of Doctoral Faculty	: 73
xi.	No. of Recognized Supervisors	: 34
xii.	No. of Ph.D. Scholars awarded Ph.D.	: 02
xiii.	No. of Ph.D. Scholars Pursuing	: 40
xiv.	No. of Faculty Secured Ph.D.	: 03

#### Paper Publications for the A.Y.: 2019-20

Details of Paper Publications							
S.No.	Dept.	SCI	SCOPUS		Open Access	Other Proceedings	Total
			Journals	Conf. Proc.			
1.	AE	--	01	--	--	01	02
2.	CE	--	06	--	09	--	15
3.	CSE	--	33	03	30	--	66
4.	ECE	03	43	03	28	--	77
5.	EEE	05	08	01	48	--	62
6.	EIE	03	06	--	--	--	09
7.	ME	14	14	04	07	--	39
8.	IT	01	14	01	20	--	36
9.	FED	02	01	--	--	--	03
10.	MBA	01	--	--	01	01	03
11.	MCA	--	--	--	08	--	08
<b>Total</b>		<b>29</b>	<b>126</b>	<b>12</b>	<b>151</b>	<b>02</b>	<b>320</b>



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### Research & Development Cell

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#### SCI Papers - 29

AE-0, CE-0, CSE-0, ECE-3, EEE-5, EIE-3, ME-14, IT-1, FED-2, MBA-1, MCA-0, **Total-29**

#### Department of Electronics and Communication Engineering

1. **Long-Term Observations Of Stratosphere-Troposphere Exchange Using Mst Radar And Aura Mls Measurements Over A Tropical Station**, GadankiSiddharth Shankar Das, K.V. Suneeth, M. Venkata Ratnam, K.N. Uma, M. Durga Rao, Narendra Babu. A, Radio Science, 55(6) (May 2020), 1944-799X (online) 00486604 (Print)
2. **Optimised Routing And Compressive Sensing Based Data Communication In Wireless Sensor Network**, Venkat Rao. P,Ch. Bala Swamy, IET Communications, 14(6) (April 2020) 982-993, 1751-8636 (online) 1751-8628 (Print)
3. **Design And Analysis of Compact Periodic Slot Multiband Antenna With Defected Ground Structure For Wireless Applications**, Siva Hari Prasad. B,M.V. Prasad, Progress in Electromagnetics Research M, 93(1) (June 2020), 77-87, 1937-8726

#### Department of Electrical and Electronics Engineering

4. **Passive Islanding Detection Technique for Integrated Distributed Generation at Zero Power Balanced Islanding**, Ch. Rami Reddy, K. Harinadha Reddy,International Journal Of Integrated Engineering Vol. 11 NO. 6 (2019), 126-137,2229-838X e-ISSN : 2600-7916
5. **PI, Fuzzy Based Controllers for FACTS Device in Grid Connected PV System, Raghu Thumu**, K. Harinadha Reddy, International Journal Of Integrated Engineering,11(6), (2019) 176-185, 2229-838X e-ISSN : 2600-7916
6. **NDZ Analysis of Various Passive Islanding Detection Methods for Integrated DG System over Balanced Islanding**, Ch. Rami Reddy,K. Harinadha Reddy,International Journal Of Integrated Engineering, 11(8),(2019), 206–220, 2229-838X ;e-ISSN : 2600-7916.
7. **PSO Supported Dual Matrix Converter for Doubly fed Induction Generated Driven by Variable Speed Wind Turbine System**, Ch. Amarendra, K. Harinadha ReddyInternational Journal Of Renewable Energy Research, 10(1),(March,2020),131-142, 1309-0127.
8. **Global maximum power point tracking of solar PV strings using the teaching learning based optimisation technique**, T. Nagadurgaa,P. V. R. L. Narasimhamc and V. S. Vakula, International Journal of Ambient Energy, 1-12, (Feb 2020),0143-0750 (P) 2162-8246 (E)

#### Department of Electronics and Instrumentation Engineering

9. **Preparation and Structural Characterization of P<sub>2</sub>O<sub>5</sub>-CaO-Na<sub>2</sub>O: CuO glasses**,Satyanarayana Talam, Rambabu Busi, Nagarjuna Gunnam,P.Syam Prasad, Venkateswara Rao Penugonda, Journal of Optoelectronics and Advanced Materials, 21(7-8) Aug 2019, 530-535, 1454-4164.



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### Research & Development Cell

10. **Optical, Electrical and Photoluminescence Studies on Al<sub>2</sub>O<sub>3</sub> doped PVA Capped ZnO Nanoparticles for Optoelectronic Device Application**, Ravindranadh Koutavarapu, R.K.N.R. Manepalli, B.T.P. Madhav, T. Satyanarayana, G. Nagarjuna, Jaesool Shima, M.C. Rao, Optik International Journal for Light and Electron Optics, 205, Jan 2020, 1-9, P-ISSN & E-ISSN: 1687-9384 & 1687-9392

11. **Modeling and Simulation of H-T shape Capacitive Comb Accelerometer**, Anusha Ganta, Satyanarayana Talam, Neela.R, Helix, 10(1), (Feb 2020), 27-32, 2277-3495 & 2319-5592.

#### Department of Mechanical Engineering

12. **Experimental investigation on the performance and emission characteristics of a diesel engine powered with waste mango seed biodiesel blends**, B.Prasanth Kumar, K.Appa Rao, V.Dhanaraju, S.Rami Reddy, D.Mallikarjuna Rao, J.Subba Reddy, International Journal of Ambient Energy, Dec 2019, <https://doi.org/10.1080/01430750.2019.1705911>, ISSN: 2162-8246

13. Experimental optimization of mechanical properties of Al<sub>70</sub>10/B<sub>4</sub>C/BN hybrid metal matrix nanocomposites using Taguchi technique, Gopichand Dirisenapu, Lingaraju Dumpala, **Pichi Reddy Seelam**, Materials Research Express, 6(10), (Aug 2019), 2053-1591. <https://doi.org/10.1088/2053-1591/ab3bf8>,

14. **The effect of B<sub>4</sub>C and BN nanoparticles on the mechanical and microstructural properties of Al<sub>70</sub>10 hybrid metal matrix**, Gopichand Dirisenapu, Lingaraju Dumpala, Pichi Reddy Seelam, Materials Research Express, Vol. 6, Issue 10, Sep 2019, 2053-1591. <https://doi.org/10.1088/2053-1591/ab3d6d>

15. **The influence of B<sub>4</sub>C and BN nano particles on Al 7010 hybrid metal matrix nanocomposites**, Gopichand Dirisenapu, Lingaraju Dumpala, Seelam Pichi Reddy, Emerging Materials Research, 9(3), (Sep 2019), 558-563, 2053-1591 <https://doi.org/10.1088/2053-1591/ab3d6d>

16. **Assessment of performance, combustion and emission characteristics of the diesel engine powered with corn biodiesel blends**, E.Ramakrishna Reddy, Y.Subbalakshmi, V.Dhana Raju, K.Appa Rao, M.Harun Kumar, S.Rami Reddy, P.Tharun Sai, International Journal of Ambient Energy, July 2019, <https://doi.org/10.1080/01430750.2019.1636867>, ISSN: 2162-8246.

17. **Experimental studies on the influence of antioxidant additive with waste tamarind biodiesel on the diverse characteristics of diesel engine**, V.Dhana Raju, K.Saibabu, K.Appa Rao, S.Rami Reddy, P.Tharun Sai, International Journal of Ambient Energy, July 2019, 1-11, 2162-8246. <https://doi.org/10.1080/01430750.2019.1636871>.

18. **Novel Water Hyacinth biodiesel as a potential alternative fuel for existing unmodified diesel engine: Performance, Combustion and Emission characteristics**, Karthikeyan Alagu, Harish Venu, Jayaprabhakar Jayaraman, V.Dhana Raju, Lingesan Subramani, Prabhu Appavu, Dhanasekar S, Energy, 179, July 2019, 295-305, 0360-5442. <https://doi.org/10.1016/j.energy.2019.04.207>,



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### Research & Development Cell

19. **Emission reduction in DI diesel engine using exhaust gas recirculation (EGR) of palm biodiesel blended with TiO<sub>2</sub> nano additives**, Harish Venu, L.Subramani, V. Dhana Raju, Renewable Energy, 140, Sep 2019,245-263, 0960-1481.<https://doi.org/10.1016/j.renene.2019.03.078>,
20. **Effect of 1-butanol on the characteristics diesel engine powered with novel tamarind biodiesel for the future sustainable energy source**, DLSVN Swamy, Y.Kowsik, V.Dhanaraju, K.Appa Rao, Harish Venu, L.Subramani, K.Bala Prasad, Energy Sources Part A: Recovery, Utilization and Environmental effects, Oct 2019,1-20, , 1556-7230 (Online), 1556-7036 (Print).<https://doi.org/10.1080/15567036.2019.1675810>.
21. **Experimental assessment on the regulated and unregulated emissions of DI diesel engine fuelled with Chlorella emersonii methyl ester (CEME)**,Harish Venu, V.Dhana Raju, LingesanSubramani, Renewable Energy, 151, (May 2020),88-102, 0960-1481<https://doi.org/10.1016/j.renene.2019.11.010>.
22. **Experimental assessment of various fuel additives on the performance and emission characteristics of the spark ignition engine**, T.Srinivas Rao, Sk.JakeerHussain, V.Dhanaraju, Harish Venu, Lingesan Subramani, International Journal of Ambient Energy, Dec 2019,2162-8246 <https://doi.org/10.1080/01430750.2019.1694987>
23. **Effect of EGR on diverse characteristics of diesel engine operated with corn seed biodiesel blend**, E.Rama Krishna Reddy, BVS Keerthana, V.Dhana Raju, A.SaiMahith and B.Dhanush, International journal of Ambient Energy, March 2020, 2162-8246.<https://doi.org/10.1080/01430750.2020.1745275>
24. **Experimental study on engine parameters variation in CRDI engine fuelled with palm biodiesel**, A.Naresh Kumar, P.S.Kishore, K.Brahma Raju, K.Nanthagopal, B.Ashok, Fuel, 276, May 2020, 1-13, 0016-2361 <https://doi.org/10.1016/j.fuel.2020.118076>
25. **Influence of decanol as fuel additive on the diverse characteristics of the diesel engine powered with mango seed biodiesel blend**, S.Rami Reddy, G.Murali, V. Dhana Raju, International journal of Ambient Energy, June 2020, 1-15, 2162-8246 <https://doi.org/10.1080/01430750.2020.1783356>.

#### Information Technology

26. **Optimizing parameters in algorithm trading using map reduce on Indian stock exchange**, S. Naganjaneyulu, Kalva Sudhakar Journal of statistics and management system, 23(2), (20 April 2020),389-397,0972-0510(P), 2169-0014(E)[[Available in Archives and Journal is available in mjl Clarivate](#)]

#### Freshmen Engineering Department

27. **Efficacy of copper ions on lithium ion conductivity, electron hopping, optical band gap, metallization criterion and morphology of Li<sub>2</sub>O-B<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub> glasses**, S. Yusub, V. Aruna, M. Venkateswarlu, A. Ramesh Babu, K. Anitha, Journal of Non-Crystalline Solids, 536, (12, May 2020), 120015, 0022-3093.



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### Research & Development Cell

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28. **Ascendancy of iron ions on lithium ion conductivity, optical band gap, Urbach energy and topology of LiF-SrO-B<sub>2</sub>O<sub>3</sub> glasses**, S. Yusub, A. Ramesh Babu, Journal of Non-Crystalline Solids, 533, (1-Apr-20), 119906, 0022-3093.

#### Management of Business Administration Department

29. **Work-life satisfaction in academia: myth or reality?**, Srinivas. L, DECISION, 47, 2, Jun-2020, 153-176, 0304-0941, <https://doi.org/10.1007/s40622-020-00243-9>-3878.

#### Scopus Papers - 126

AE-1, CE-6, CSE-33, ECE-43, EEE-8, EIE-6, FED-1, ME-14, IT-14, MBA-0, MCA-0, **Total-126**

#### Aerospace Engineering Department

1. **Experimental and Computational Investigations on Flow Characteristics of Supersonic Ejector**, E. Sri Ramy, P. Lovaraju, I. Dakshina Murthy, S. Thanigaiarasu, E. Radhakrishnan, International Review of Aerospace Engineering, 13(1) (Feb 2020) 1-9, 1943-023X, <https://doi.org/10.15866/irease.v13i1.18108>.

#### Civil Engineering Department

2. **Influence of fly ash on the properties of recycled coarse aggregate concrete**, B.Rama Krishna, B. Harshini, G.N.K. Iswarya Lakshmi, k. Sangireddy, K. Pavana Krishna Prasad, International Journal of Emerging Trends in Engineering Research, 8(5) (May 2020), 2097-2100, 2347-3983
3. **Properties of GGBS Concrete Under Various Curing Conditions**, B. Rama Krishna K. Harish Kumar, T. Mani Kumar, I. Likitha, International Journal of Emerging Trends in Engineering Research, 8(4) (April 2020), 1384-1387, 2347-3983
4. **Level of Service of Roads in Vijayawada**, M.Manoj Kumar, S.HariPrasanna Rao, B.Lalithya, P.SaiBhargavi, A.Pavankumar, International Journal Of Recent Technology And Engineering, 8(2) (July 2019), 1373-1378, 2277-3878
5. **Determining the Strength Properties of Concrete using Plastic Waste (Synthetic Polymers & Thermoplastic Polymer Resins)**, G. Rambabu, P.Mohana Ganga Raju, J. Eeshwar Ram, International Journal Of Recent Technology And Engineering, 8(2) (July 2019), 1314-1316, 2277-3878
6. **Quality Improvement On Properties Of Concrete By Using Lightweight Aggregates**, K. Harish Kumar, T. Sai Teja, B. Ramesh, International Journal Of Recent Technology And Engineering, 8(2) (July 2019), 4550-4554, 2277-3878
7. **An Experimental Study on Effect of Replacing Natural Sand by Quarry Dust and Saw Dust on Properties of Concrete**, K. Harish Kumar, K. Chandra VenkataShabarish, G. Bhanu, K. DurgaVara Prasad, Ch. Satish Kumar, International Journal of Emerging Trends in Engineering Research, 8(5) (May 2020), 1906-1914, 2347-3983



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### Research & Development Cell

#### Department of Computer Science Engineering Department

8. **Discernment of Objects Using Common Objects Context Dataset**, D. Veeraiah, Anusha, S. Saijaswanth, A.N.V.S Sakthi Swaroop, K. Manasa, Jour of Adv Research in Dynamical & Control Systems, 12(2), March-2020, 1038-1043, 2020, DOI:10.5373/JARDCS/V12I2/S20201132
9. **Dynamic And Advanced Security For DataStorage In Distributed Environment**, Veeraiah. D, Kruthiventy Bhargavi, International Journal of Innovative Technology and Exploring Engineering, 8(9S2), July 2019, 830-833, 2278-3075.
10. **Accidents Risk Reducing System**, D. Veeraiah, S. Sowmya, M. Sai Kumar, V. Swathi, L. Sai Sravan, International Journal of Advanced Science and Technology, IJAST, 29(03), (March-2020), 5911 – 5916, 2005-4238.
11. **Emotion Sensing Facial Recognition**, O. Rama Devi, G. Siva Supraja, G. Swathi, J. Vijaya, B. Vara Prasad, Jour of Adv Research in Dynamical & Control Systems, 12(02), 916-922, 2020, DOI: 10.5373/JARDCS/V12I2/S20201115
12. **Research On Sensation Recognition Using Mobile Phones**, Ramadevi Odugu, B. Rama Devi, B. Srinivara Rao, International Journal of Engineering and Advanced Technology (IJEAT), 8(6), August 2019, 3763-3768, 2249 – 8958
13. **Real Time Fast and Accurate Brain Sinus Detection by DM-RPC with Vessel Segmentation Classification by Logistic Regression Machine Learning Algorithm**, M. Srinivasa Rao, S. Narayana, Hari Prasad Chandika, Jour of Adv Research in Dynamical & Control Systems, 12(3), 2020, 30-40, 1943-023X
14. **Automated Testing Analysis On Machine Learning Models To Predict Branch Coverage**, P. Ashok Reddy, V. Prem Sai, V. Narasimha Rao, D. Hymavathi, G. Kalyani, International Journal of Advanced Science and Technology, 29(05), (2020), 915-922,
15. **Image Caption To Voice Generation Using Deep Learning**, Naga Prasanthi. K, S. Naga Sai Damodhar, K. Gayathri, M. Bala Vamsi, K. Rahul Pramod, Jour Of Adv Research In Dynamical & Control Systems, 12(2), 897, 943-023X.
16. **A Novel Method Of Privacy Preserving Classification Mining Balancing Utility And Accuracy**, Naga Prasanthi. K, Mvp Chandra Sekhara Rao, Jour of Adv Research in Dynamical & Control Systems, 11(05), July-2019, 577-587
17. **Handling Missing Data For Big Data Using Parallel Miss Forest Imputation Method**, G. V. Suresh, Krishna Rao. L. V. Ch. Srinivasa Rao, Jour Of Adv Research In Dynamical & Control Systems, 7(07), June-2020, 2570-2578, 1943-023X.
18. **Effective Prediction Techniques Of Chronic Kidney Disease With Distinct Classification Methods**, M. Sri Bala, T. Kavya, T. Vijay Krishna, M. Sai Prasanth, R. Phani, Jour of Adv Research in Dynamical & Control Systems, 12(02), March-2020, 854-858 DOI: 10.5373/JARDCS/V12I2/S20201105.
19. **Detection and Classification of Rice Leaf Diseases Using Deep Learning**, D. Srinivasa Rao, N. Kavya, S. Naveen Kumar, L. Yasaswi Venkat N. Pranay Kumar, International Journal of Advanced Science and Technology 29(03), (March-2020), 5868- 5874, 2005-4238.



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### Research & Development Cell

20. **Analyzing Safety of Women in India using Bow**, A.S. Rama Chandra Murthy, J. Phanikanth K. Prudhvi Venkata Teja T. Veena Apurupa A. Vinay Kumar Reddy, International Journal of Advanced Science and Technology, 29(03), (March-2020), 5890- 5894, 2005-4238.
21. **Classification and identification of loyal customers Using machine learning**, B. Siva Rama Krishna, P. Sai Krishna, P. V. K. Priya, M. Gopi Sainath, G. Sai Kumar, Jour of Adv Research in Dynamical & Control Systems, 12(02), 859-866, March-2020
22. **MoDdensity Based Document Clustering** Using Tf-Idf Approach, A. Raja Gopal, Bandaru Siva Sai, Jaya Prakash Pediredla, Banka Charan, ModugapalliPraneeth Kumar, Jour of Adv Research in Dynamical & Control Systems, 12(02), 835-844, March-2020, DOI: 10.5373/JARDCS/V12I2/S20201103, .
23. **Implementation of Attendance Scheme using Face Recognition Algorithm**, G. Balu Narasimha Rao, B. Venkata Anusha Ch. Amrutha. Sindhu G. Trishore Baji, International Journal of Advanced Science and Technology, 29(03), (March-2020), 5904 – 5910, 2005-423
24. **Content image Retrieval Based on using open Computer Vision and Deep**, J. Nageswara Rao, Rambabu Busi, G Rajendra Kumar, U. Surya Kameswari, International Journal of Advanced Science and Technology Learning Techniques, IJAST, 29(03), (April-2020) 5926 – 5933, 2005-4238.
25. **A New Analysis on Assessment of Sentiments Using EEG Signals and BCI**, Rambabu Busi, J. Nageswara Rao, G Rajendra Kumar, H. Sudhakar, Jour. of Adv Research in Dynamical & Control Systems, 12(02), Mar-2020, 1044-1047.
26. **Twitter Sentiment Analysis for Different Business Applications**, J. Nageswara Rao, Y. Durga Malleswari, K. Teja Krishna, CH. Vishnu Sai, Y. Ramya Sri, Jour of Adv Research in Dynamical & Control Systems, 12(02), March-2020, 1048-1055, DOI: 10.5373/JARDCS/V12I2/S20201134,.
27. **A Study of fraud detection approaches in Credit Card Transactions**, L.V. Krishna Rao, S. Satyanarayana, R. Iswarya, D. Kalyan Kumar, T. Narasimha Rao, Jour of Adv Research in Dynamical & Control Systems, 12(02), March-2020, 905-909 DOI: 10.5373/JARDCS/V12I2/S20201113,.
28. **Classification of Fake Online Reviews**, G.V. Rajyalakshmi, K. Sai Swetha, A. Sri Harsha, Md. Nissar Khan, Y. Rajasekhar, Jour of Adv Research in Dynamical & Control Systems, 12(3), March-2020, 910-915. DOI: 10.5373/JARDCS/V12I2/S20201114,.
29. **An Enhanced Automatic Song Genres Classification Using Deep Learning Technique**, A. Sudhakar, V. Bhargav Durga Prasad G. Krishna Reddy T. Sai Nikhil B. Komal Sai, International Journal of Advanced Science and Technology, IJAST, 29(03), (March-2020), 5899- 5903, 2005-4238.
30. **Spam Email Detection using Rnn and Comparative Study with Knn And Logistics**, T. Uday Kumar, V. Sravanthi, G. Anvitha, A. Anusha, M. Rajesh, Jour of Adv Research in Dynamical & Control Systems, 12(3), 845-853, March-2020 DOI: 10.5373/JARDCS/V12I2/S20201104.



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### Research & Development Cell

31. **Identification Of Fake Users And Spammers On Social Media**, V. Siva Krishna, Y. Spandana, V Revathi, S Yaswanth, S. Durga Reddy, Jour of Adv Research in Dynamical & Control Systems, 12(3), March-2020. DOI: 10.5373/JARDCS/V12I2/S20201124
32. **Phishing URL Detection Using Random Forest Classifier**, T.N.V.S.Praveen, V.Keerthy, G.Mohan Krishna, K.Mounika, M.Venkata Gopi, Jour of Adv Research in Dynamical & Control Systems, 12(02), 879-884, March-2020, DOI: 10.5373/JARDCS/V12I2/S20201109, .
33. **Object Perception in Image**, N.V.Naik, N.Lahari, A.V.Rama Chari, P.Sneha, B.Shanmuk, Jour of Adv Research in Dynamical & Control Systems, 12(02), March-2020, 944-948, 2020, DOI: 10.5373/JARDCS/V12I2/S20201119, .
34. **An Application for Secured Deduplication of Multimedia Data in Cloud**, N. Srinivasa rao, J. Pavan Kumar Reddy, D. Pavan Kumar, P. Nalini, B. Thirupathi Rao, Jour of Adv Research in Dynamical & Control Systems, 12(02), March-2020, 949-954, 2020, DOI: 10.5373/JARDCS/V12I2/S2020120, .
35. **ERA: Emergency Rescue Application using Android**, Sk.Johny Basha, S. Gowtham Kumar, J. Krupa Sangeeth, N. Amulya Keerthana, G. Keerthi Priya, Jour of Adv Research in Dynamical & Control Systems, 12(02), March-2020, 931-935 DOI: 10.5373/JARDCS/V12I2/S20201117.
36. **Research of Various Data Mining Techniques For Iot Applications**, Sk. Johny Basha, MVV. Subramanyam, International Journal of Recent Technology and Engineering (IJRTE), 8(2S11), September 2019, 1083-1086, 2277-3878.
37. **Online Deceptive Reviews Detection**, Ch. Srinivasa Rao, M.Sai Kumari, Y.Mahesh S.Durga Risheta, L.S.Prasanna, International Journal of Advanced Science and Technology, IJAST, 29 (03), (March-2020), 5895- 5898, 2005-4238.
38. **Face Recognition and Classification**, A.Praneetha, K.Nagamani, P.Yasawini, P.Vinod Kumar, A.Sasi Kumar Jour of Adv Research in Dynamical & Control Systems, 12(3), March-2020, 890-896. DOI: 10.5373/JARDCS/V12I2/S20201111
39. **Detecting Fake News using NLP and Machine Learning Classification Algorithms**, S.Srinivasa Reddy, M. Akhila, S. Hinduja, R. Hari Durga Reddy, B. Vijaya Lakshmi, Jour of Adv Research in Dynamical & Control Systems, 12(02), March-2020, 885-889 DOI: 10.5373/JARDCS/V12I2/S20201110.
40. **Churn Detection Model in Telecommunication Using Machine Learning Techniques**, Ch.Ratnajyothi, Neha Basavanaboyina, S.Vijaya Lakshmi, B.Akhila, A.Rahul Sai, Jour of Adv Research in Dynamical & Control Systems, 12(02), March-2020, 936-940. DOI: 10.5373/JARDCS/V12I2/S20201118

#### Department of Electronics and Communication Engineering

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#### Open Access Journals- 151

AE-0, CE-8, CSE-30, ECE-28, EEE-48, EIE-0, FED-0, IT-20, ME-7, MBA-1, MCA-8 **Total-150.**

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#### Details of Patents - 13

S.No	Patent Title	Applicant / Inventor	Patent No.	Published Date (DD-MM-YYYY)
1.	Automatic Voltage level up/level down shifter for VLSI circuits	Dr. Srinivasulu Gunadala (ECE)	202041017082	05-06-2020
2.	Pet Cleanliness Detecting Smart Belt (Design Patent)	Mr. Shaik Johny Basha (CSE) Dr. Mekala Srinivasa Rao	327364-001 (Cbr No:3476)	08-05-2020 (Cbr Date)
3.	Smart Wearable Reminder Device	Dr. Ede Venkata Krishna Rao (ECE)	201941054851	03-01-2020
4.	V-ATM: Intelligent Virtual Bank with Automated Teller Machine	Divvela Srinivasa Rao (CSE)	202041003687	07-02-2020





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5.	Automatic Fire Ball Ejecting Device	Dr.P.Ashok Reddy (CSE) M.Hema Latha	202041002780	31-01-2020
6.	Computer Implemented Method for Enhanced Security of Color Image using Asymmetric RSA Algorithm	Dr. Chaduvula Rathna Jyothi (CSE)	202041002481	31-01-2020
7.	Method of Machine Learning based Cluster Analysis for Large Categorical Data	Dr. Duggineni Veeraiah (CSE) Vekkuluri Siva Krishna	201941042954	25-10-2019
8.	IHY-Prediction: Intelligent System and Method for Advanced Harvest Yield Prediction Using IoT based Technology	Dr. Srinivasa Rao Mekala (CSE)	201941054460	03-01-2020
9.	Smart Eyewear with Reading Assistive System	Dr.O.Rama Devi (CSE) Dr.Rama Devi Burri	201941049771	13-12-2019
10.	A Seamlessly Integrated Super Network of Blood Banks for Easy and Transparent Transactions	Dr. B. Srinivasa Rao (IT) Dr. S. Naganjaneyulu Dr.O.Rama Devi Dr.Rama Devi Burri Ch. Sambasiva Rao	201841021654	13-12-2019
11.	ATM Card and Fingerprint based Authentication System for Online Banking using Smartphone	Chandra Sekhar Kolli V.V. Krishna Reddy (IT)	202041015194	13-12-2019
12.	Smoothing filters-based jpeg compression for noisy images	Dr. Busi Rambabu (EIE)	201941044505	29-11-2019
13.	An Alternative Indexing Device for Milling Machines	Dr. L. Prabhu (ASE) P. Gangadhar Venkata Ramana	201941052488	27-12-2019

### Details of Sponsored Research

**No. of Research Projects: 11**

### Details of Projects Completed - 06

S.No	Dept	PI/Co-PI	Project Title / Program	Funding Agency & Scheme	Duration	Total Amount Sanctioned in Lakhs	Month & Year of Sanction
1.	ME	Dr. K. Appa Rao	Experimental Investigation on Homogeneous Change Compression Ignition Engine (HCCI)	UGC-MRP	2 Years	1.55	Mar-2018
2.	AE	I.Dakshina Murthy	Flow Characteristics of High-Speed Co-flow Jets	UGC-MRP	2 Years	4.30	Mar-2018
3.	MBA	Dr.L.Srinivas	A study on work-life balance of faculty in engineering colleges situated in Krishna	UGC-MRP	2 Years	1.70	Mar-2018



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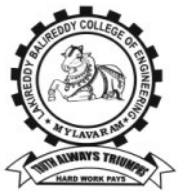
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### Research & Development Cell

			District of Andhra Pradesh”				
4.	AE	Guide: Dr. L. Prabhu PI:P. Gangadhar Venkata Ramana (Student)	Experimental Investigation of Condensation Process In 3S Device with Precooling System	IEI- Technical Grant	6 Months	0.20	Jan. 2020
<b>Other Grants</b>							
5.	CSE & IT	Dr. Jagan Mohan Reddy Dr. B. Ramadevi	E&ICT, Python Programming – an Industry Perspective	MNIT/Jaipur-FDP	2 <sup>nd</sup> to 6 <sup>th</sup> Dec. 2019	0.882	Dec-2019
6.	ME	Dr. K. Appa Rao	Modernization of thermal Engineering Laboratory	AICTE-MODROB	2 Years	12.50	Sep-2017

#### Details of Sanctioned/Ongoing Projects-05

S.No.	Dept.	PI/Co-PI	Project Title / Program	Funding Agency & Scheme	Duration	Total Amount Sanctioned in Lakhs	Month & Year of Sanction
1.	MBA	Dr.P. Siva Reddy	Financing Issues of MSMEs in Krishna District of Andhra Pradesh –A Diagnostic Study	MHRD-ICSSR	1 Year	3.0	Dec-2019
2.	ME	Dr. Nunavathu Sunil Naik	Evaluation of Engine Parameters affecting the performance of Enzymatic Transesterification process using test fuel blends	SERB- EEQ	3 Years	22.81	Jul-2018
<b>Other Grants</b>							
3.	EEE	Dr.K.Harinadha Reddy	Electric Machines lab	AICTE-MODROB	2 Years	15.8834	Feb-2020
4.	CSE	Dr. Ch.V.Narayana	Design and development of real time applications	AICTE-MODROBS -Rural	2 Years	10.75	Feb-2020



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			in the field of artificial intelligence				
5.	ME	Dr.P.Vijaya Kumar	PRERANA-Programme Centre for SC/ST Students	AQIS-Prerana	2 Years	4.8	Nov.2019

### Details of Books/Chapters-02

S. No.	Authors	Title of the Book	Publisher	Published Date	ISBN
1.	<b>Dr. M. Srinivasa Rao (CSE)</b> Dr. E. Suresh Babu Ch. Hari Prasad	Problem Solving and Programming in C	Lambert Academic Publishing	16-12-2019	978-620-0-48461-1 (Pages: 1-273)
2.	P. Gangadhar Venkata Ramana, J. Srinivas, <b>L. Prabhu (ASE)</b>	<b>Chapter:</b> Design and Analysis of last Stage of Low-Pressure Steam Turbine for Aeroelastic Stability  34 <sup>th</sup> Indian Engineering Congress during 27 <sup>th</sup> to 29 <sup>th</sup> Dec. 2019	Institution of Engineers India (IEI)	27-12-2019	978-81-942561-5-1. Pages (1-6)



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**Research & Development Cell**

**Details of Supervisors & Scholars during the AY 2019-20**

- i. No. of Recognized Research Supervisors : 34
- ii. No. of Scholars Pursuing Ph.D. : 40 (Internal Faculty: 10)
- iii. No. of Scholars Awarded Ph.D. : 02

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	I. Dakshina Murthy	2016	Pursuing	4
						Kedaranath Mahapatro	2014	Pursuing	
						V. Mani Kumar	2014	Pursuing	
						Mr. K.B.V.Satya Prakash	2013	Pursuing	
2.	Dr. V. Ramakrishna	Civil	2005	2019	Annamalai	Madireddy Satyanarayana	2019	Pursuing	1
3.	Dr. D. Jagan Mohan Reddy	CSE	2018	2019	JNTU-K	N.A.	N.A.	N.A.	0
4.	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	
5.	Dr. D. Veeraiah	CSE	2017	2018	JNTU-K	Mr. Sk. Johny Basha	Sep. 2019	Pursuing	2



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						Mr.L.V.Krishna Rao	2018	Pursuing	
6.	Dr. O. Rama Devi	CSE	2017	2019	JNTU-K	N.A.	N.A.	N.A	0
7.	Dr. M. Srinivasa Rao	CSE	2017	2019	JNTU-K	N.A.	N.A.	N.A	0
8.	Dr.Y.S.V. Raman	ECE	2016	2020	JNTU-K	N.A.	N.A.	N.A.	0
9.	Dr. M. V. Sudhakar	ECE	2016	2020	JNTU-K	N.A.	N.A.	N.A.	0
10.	Dr.A.Narendra Babu	ECE	2008	2017	KLU	Mr. G. Venkata Ramanaiah	2017	Pursuing	1
11.	Dr.E.V.Krishna Rao	ECE	Apr. 2007	2008	JNTU-K	Mr. G. Venkata Rao	2019	Pursuing	3
		ECE	Apr. 2007	2013	KLU	Mr.N. Ravi Kumar Reddy	2015	Pursuing	
		ECE	Apr. 2007	2008	JNTU-H	J. Ravindra Babu	2008	Pursuing	
		ECE	Apr. 2007	2012	Kanchi Uni	Mr.K.Raja Rao	4 <sup>th</sup> Jan 2012	Awarded 3 <sup>rd</sup> Jul 2019	2
		ECE	Apr. 2007	2013	KLU	Smt.B.Suneela Reddy	8 <sup>th</sup> Feb 2014	Awarded 6 <sup>th</sup> Feb2020	
12.	Dr.G.L.N. Murthy	ECE	2018	2019	Annamalai	Mr. S. Ramakoteswara Rao	2019	Pursuing	1
13.	Dr.Y. Amar Babu	ECE	2018	2018	Annamalai	Smt. M. Ramya Harika	2018	Pursuing	1
14.	Dr. G. Srinivasulu	ECE	2017	2020	JNTU-K	N.A.	N.A.	N.A.	0



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15.	Dr.J.Siva Vara Prasad	EEE	2018	2019	Annamalai	K.Girinadh Babu	2019	Pursuing	1
16.	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	
17.	Dr. M. Umavani	EEE	2012	2015	JNTU-K	Ms.N. Vanajakshi	2015	Pursuing	4
						S.V.R. Lakshmi Kumari	2015	Pursuing	
						Mr.P. Balanagu	2014	Pursuing	
						Mr. Punya Sekhar	2014	Pursuing	
18.	Dr. M. S. Giridhar	EEE	2017	2019	JNTU-K	N.A.	N.A.	N.A.	0
19.	Dr. P. Shoba Rani	EEE	2016	2019	JNTU-K	N.A.	N.A.	N.A.	0
20.	Dr. K. R. L. Prasad	EEE	2017	2019	JNTU-K	N.A.	N.A.	N.A.	0
21.	Dr. G. Nagaeswara Rao	EEE	2017	2019	JNTU-K	N.A.	N.A.	N.A.	0
22.	Dr. A.V.G.A. Marthanda	EEE	2019	2019	JNTU-K	N.A.	N.A.	N.A.	0
23.	Dr. B. Poornaiah	EIE	2016	2018	Annamalai	P. Bhavya	2018	Pursuing	2
					Annamalai	B. Sandeep	2018	Pursuing	
24.	Dr. B. Rambabu	EIE	2016	2018	Annamalai	V. Vineela	2018	Pursuing	1
25.	Dr. T. Satyanarayana	EIE	2010	2018	Annamalai	M.B. Chakravarthi	2018	Pursuing	1
26.	Dr. S. Naganjaneyulu	IT	2014	2016	JNTU-K	Katru Rama Rao	2016	Pursuing	2
						Kalva Sudhakar	2016	Pursuing	
27.	Dr. A. Adishesha Reddy	MBA	2013	2013	KLU	G.Srinivasu Raju	2012	Pursuing	1



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28.	Dr. T. Rajasekhar	MBA	2007	2011	JNTU-K	N.A.	N.A.	N.A.	0
29.	Dr. K. Appa Rao	Mech	2013	2016	JNTU-K	Anil Kimar Chintalapudi	2016	Pursuing	1
30.	Dr. K. Dilip Kumar	Mech	2014	2016	JNTU-K	Tejomurthi Pinjala	2016	Pursuing	1
31.	Dr.K.Murahari	Mech	2016	2016	KLU	G.Siva Prasad	2017	Pursuing	4
				2016	KLU	S. Chandrasekar Reddy	2017	Pursuing	
				2016	KLU	Ram swaroop Singh	2016	Pursuing	
				2016	KLU	Inovath Srinivsa Naik	2016	Pursuing	
32.	Dr.P.V.C. Sekhar Rao	Mech	2013	2016	JNTU-K	K.Narayana	2019	Pursuing	2
				2016	JNTU-K	Sumalatha Chatragada	2016	Pursuing	
33.	Dr.P.Vijay Kumar	Mech	2012	2016	JNTU-K	P.Venkata Ramana	2016	Pursuing	1
34.	Dr. S. Pichi Reddy	Mech	2012	2016	JNTU-K	Gopi Chand Dirisenapu	2016	Pursuing	1



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## **Research & Development Cell**

### **Details of Faculty Secured Ph.D. -03**

(ECE-01, IT-01 & MBA -01)

S.No.	Faculty with Designation	Date of Registration	Date of Awarding Ph.D.	Name of the University
1.	<b>B.Y.V.N.R. Swamy</b> Assoc. Professor, Dept. of ECE	10-10-2014	12-02-2020	Acharya Nagarjuna
2.	<b>Koneru Anupriya</b> Assoc.Professor, Dept. of IT	04-03- 2014	28-09-2019	Acharya Nagarjuna
3.	<b>T. Chandrasekhar Yadav,</b> Asst. Professor, Dept. of MBA	14-09-2014	28-11-2020	Acharya Nagarjuna

**Dean R&D**