

## LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

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

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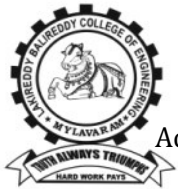
### Research & Development Cell

#### Details of R & D Accomplishments during the A.Y.: 2018-19

i.	No. of SCI papers	: 19
ii.	No. of Papers in Scopus indexed Journals	: 58
iii.	No. of Papers in Conf. Proceedings indexed by Scopus	: 24
	<b>Total Papers in SCI &amp; Scopus</b>	<b>: 101</b>
iv.	No. of Open Access Journals	: 97
v.	No. of Papers in General Conf. Proceedings	: 81
vi.	No. of Patents Published	: 01
vii.	No. of Books/Chapters published	: 07
viii.	No. of Research Projects	: 12
ix.	No. of Doctoral Faculty	: 68
x.	No. of Recognized Supervisors	: 28
xi.	No. of Ph.D. Scholars Pursuing	: 48
xii.	No. of Ph.D. Scholars awarded Ph.D.	: 02
xiii.	No. of Faculty Secured Ph.D.	: 03
xiv.	No. of Events Organized	: 04

#### Paper Publications for the A.Y.: 2018-19 (From 1<sup>st</sup> July 2018 – 30<sup>th</sup> June 2019)

Details of Paper Publications							
S.No.	Dept.	SCI	SCOPUS		Open Access	Other Proceedings	Total
			Journals	Conf. Proc.			
1.	AE	--	01	--	01	02	04
2.	CE	--	01	01	08	02	12
3.	CSE	--	09	01	03	38	51
4.	ECE	02	17	01	34	06	60
5.	EEE	04	07	04	16	--	31
6.	EIE	02	02	02	--	08	14
7.	ME	10	10	05	18	13	56
8.	IT	--	05	09	--	--	14
9.	FED	01	01	01	04	--	07
10.	MBA	--	03	--	13	12	28
11.	MCA	--	02	--	--	--	02
	<b>Total</b>	<b>19</b>	<b>58</b>	<b>24</b>	<b>97</b>	<b>81</b>	<b>279</b>



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#### SCI Papers - 19

AE-0, CE-0, CSE-0, ECE-2, EEE-4, EIE-2, FED-1, IT-0, ME-10, MBA-0, MCA-0, **Total-19**

#### Department of Electronics and Communication Engineering

1. **Adaptive decision feedback equalizer with dynamic principle for echo cancellation**, SK. Mastan Sharif, K. Satya Prasad, D. Venkata Rao, *Transactions of the Institute of Measurement and Control*, 40 (16), (Dec-2018), 1-17, **0142-3312**.
2. **Effects of post deposition annealing atmosphere on interfacial and electrical properties of HfO<sub>2</sub>/Ge<sub>3</sub>N<sub>4</sub> gate stacks**, KumarMalleem, Jagadeesh ChandraS.V, Minkyuju, SubhajtDutta, Swagata Phanchanan, SimpySanyal, Duy Phong Pham, Shahzada, QamarHussain, JinjooPark Young-HyunCho, Eun-ChelCho, JunsinYi, *Thin Solid Films*, 675 (1), ( Feb-2019), 16–22, **0040-6090**.

#### Department of Electrical and Electronics Engineering

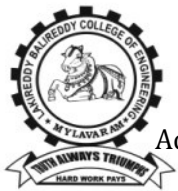
3. **Harness of maximum solar energy from solar PV strings using particle swarm optimization technique**, T. Nagadurga, P. V. R. L. Narasimham ,V. S. Vakula, *International Journal of Ambient Energy- T & F*, 40 (7), (May 2019), 1-10, **0143-0750, 2162-8246**.
4. **A New Passive Islanding Detection Technique for Integrated Distributed Generation System Using Rate of Change of Regulator Voltage Over Reactive Power at Balanced Islanding**, Ch. Rami Reddy, K. Harinadha Reddy, *Journal Of Electrical Engineering & Technology (Springer)*, 14 (2), March 2019, 527–534, **2093-7423**.
5. **Islanding Detection Techniques for Grid Integrated Distributed Generation –A Review**,Ch. Rami Reddy, K. Harinadha Reddy, *International Journal Of Renewable Energy Research*, 9 (2), (June2019),961-977, **1309-0127**.
6. **An Efficient Passive Islanding Detection Method for Integrated DG System with Zero NDZ**, Ch. Rami Reddy, K. Harinadha Reddy,*International Journal Of Renewable Energy Research*, 8 (4), (Dec2018),4-6, **1309-0127**.

#### Department of Electronics and Instrumentation Engineering

7. **Spectroscopic and electrochemical investigations on LiCr<sub>x</sub>Mn<sub>2-x</sub>O<sub>4</sub> cathodes for rechargeable battery application**, MC Rao, M.V.Basaveswara Rao, T. Satyanarayana, *Materials Research Express*, 6 (8), (May-2019),1-12, **2053-1591**.
8. **Role of molybdenum ions in lead zinc phosphate glass system by means of dielectric studies**, P. Venkateswarara G. Nagaraju, P. Syamprasad, T. Satyanarayana, N. Veeraiah, *Materials Science-Poland*, 36 (4), (Dec-2018), 623-629, **2083-134X**.

#### Department of Mechanical Engineering

9. **Influence of injection timing on the performance, combustion and emission characteristics of diesel engine powered with tamarind seed biodiesel blend**, M. Harun Kumara, V. Dhana Raju, P. S. Kishore, Harish Venu, *International Journal of Ambient Energy-T & F*, 41 (1), (Aug-2018), 2162-8246, **0143-0750**.



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### Research & Development Cell

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10. **Combined impact of EGR and injection pressure in performance improvement and NOX control of a DI diesel engine powered with tamarind seed biodiesel blend**, Dhana Raju Vallapudi, Harun Kumar Makineni, Srinivas Kishore Pisipaty, Harish Venu, *Environmental Science and Pollution Research*, 25 (36), (Dec-2018), 36381-36381, **0944-1344**
  11. **Eichhornia crassipes bio diesel as a renewable green fuel for diesel engine applications: performance, combustion and emission characteristics**, Harish Venu, D.Venkataraman, P.Purushothaman, Dhana Raju V, *Environmental Science And Pollution Research*, 26 (14), (Apr-2019), 18084–18097, **0944-1344**.
  12. **Combined effect of influence of NANO additives, combustion chamber geometry and injection timing in a DI diesel engine fuelled with ternary (diesel-biodiesel-ethanol) blends**, Harish Venu, V. Dhana Raju, B .Lingesan Subramani, *Energy*, 174 (10), (May-2019), 386-406, **0360-5442**.
  13. **Optimization of intake parameters for diesel engine fuelled with diesel-tamarind seed methyl ester biodiesel blend by Taguchi method**, P. S. Kishore, V.Dhana Raju, Murahari Kolli, *International Journal of Ambient Energy – T & F*, 41 (3), (Aug-2018),3-4, **2162-8246**
  14. **Engine parameter optimization of palm oil bio diesel as alternate fuel in CI Engine**, Akula Naresh Kumar, Pisipaty Srinivas Kishore, Kalidindi Brahma Bragadeshwaran, *Environmental Science and Pollution Research*, 26 (7), (Jan-2019), 6652–6676, **0944-1344**.
  15. **Effect of Reinforcement on compacting characteristics of Aluminium/10-Al<sub>2</sub>O<sub>3</sub>/Fly ash Metal Matrix composite**, Seelam Pichi Reddy, P.V.Chandrasekhar Rao, Kolli Murahari, *Journal of Testing and Evaluation* 48(2), (2020): 955-969, **0090-3973**.
  16. **Experimental Study of Nonpolar Surfactant Mixed with Dielectric Fluid on Die-Sinking EDM of Ti-6Al-4V Alloy**, Murahari Kolli, Adepu Kumar, *Journal of Testing and Evaluation*, 48(2) (2020): 1155-1174. <https://doi.org/10.1520/JTE20170660>.
  17. **Assessing the Influence of Surfactant and B<sub>4</sub>C Powder Mixed in Dielectric Fluid on EDM of Titanium Alloy**, Murahari Kolli, Adepu Kumar, *Silicon* 11, 1731–1743 (2019).
  18. **Multi-Response Optimization of Machining Process Parameters for Wire Electrical Discharge Machining of Lead-Induced Ti-6Al-4V Alloy using AHP-TOPSIS Method**, A.V.S. Ram Prasad, Koona Ramji, Murahari Kolli, G. Vamsi Krishna, *Journal of Advanced Manufacturing Systems*,18(02), 213-236 (2019).
- Freshmen Engineering Department**
19. **Effect of Cr<sub>2</sub>O<sub>3</sub> on the structural, optical and dielectric studies of LiF-SrO-B<sub>2</sub>O<sub>3</sub> glasses**, A. Ramesh Babu, S. Yusub, P.M. Vinaya Teja, P. Srinivasa Rao, V. Aruna, D. Krishna Rao, *Journal of Non-Crystalline Solids*, 520 (1) (June-2019), 1-8, **0022-3093**



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### Research & Development Cell

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#### Scopus Papers - 58

AE-1, CE-1, CSE-9, ECE-17, EEE-7, EIE-2, FED-1, IT-5, ME-10, MBA-3, MCA-2, **Total-58**

#### Aerospace Engineering Department

1. **Aeroelastic Instability of Cantilever Wing with Added Engine Mass and Thrust Loads Under the Gust Envelope**, L. Prabhu, J. Srinivas, *Journal of The Institution Of Engineers (India): Series C*, 100 (3), (June 2019),423-431,**2250-0553**.

#### Civil Engineering Department

2. **An Experimental Study on Concrete Cloth**, M. Satyanarayana, P. Padma Rao, A. Suri Babu , R. Venkata Ramana , G.Sambasiva Rao. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (8), (June-2019), 1116-1126, **2278-3075**.

#### Department of Computer Science Engineering Department

3. **Implementing Frequent Item set Mining By advanced Distributed Approach Using Matrix-Based Pruning**, Srinivasa Rao D, V Sucharita, *International Journal of Engineering and Advanced Technology (IJEAT)*, 8 (5), (June-2019), 2491-2493, **2249 -8958**.
4. **Efficient Algorithm using Big Data for Frequent Item sets Mining**, Srinivasa Rao .D, V Sucharitha, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (4), (Feb-2019), 394-396, **2278-3075**.
5. **Advanced Ensemble ACGC Technique using Image Segmentation Model**, S. Govindu, K.Sundeeep Saradhi, A.Sudhakar, Ch. Srinivasa Rao, J.Nageswara Rao, *International Journal of Recent Technology and Engineering (IJRTE)*,7(6S2), (April 2019), 796-799, **2277-3878**.
6. **Implementing Mining in Educational Digitization**, P. Vamsi Naidu, Sriram Konduru, J. Venkata Rao, *International Journal of Engineering and Advanced Technology (IJEAT)*, 8 (3), (Feb2019), 400-404, **2249 -8958**.
7. **Study of Data Mining and NN Approach For Compressed medical Image Retrieval**, Vamsidhar E., V. Siva Krishna, Gunna Kishore, *International Journal of Pure and Applied Mathematics*, 120 (6), (July2018), 9735-9753, **1314-3395**.
8. **Certificate and Behavior Based HTMS in Wireless Sensor Networks**, Dr.M.Ramakrishnam Raju, L.Venkata Krishna Rao, *Jour of Adv Research in Dynamical & Control Systems*, 7 (13), (Dec 2018), 746-753, **1943-023X**.
9. **Computational Model for Approximation of Rate Code in Action Potentials in Cognitive Neural Science**, D. Veeraiah, *Journal of Advanced Research in Dynamical & Control Systems*, 10 (9), (July-2018), 2074-2080, **1943-023X**.



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### Research & Development Cell

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10. **L-Semi-Supervised Clustering for Network Intrusion Detection**, N. Srinivasa Rao, Shaik Farzana, Potnuri Maheswari, *International Journal of Engineering and Advanced Technology(IJEAT)*, 8 (3S), (Feb 2019),805-809, **2249 -8958**.

11. **Recognition of Handwritten Characters using Deep Convolution Neural Network**, Jagan Mohan Reddy D, A. Vishnu vardhan Reddy, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (6S4), (April-2019),314-317, **2278-3075**.

#### Department of Electronics and Communication Engineering

12. **Design and Performance Analysis of Wideband Hexagonal Ring Antenna with Defected Ground Structure**, P. Rakesh Kumar, K.V.N.Kavya, CH.J.V.Madhavi, K.Vinay Kumar, M.Narendra Kumar, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (7S), ( May2019), 33-38, **2278-3075**.

13. **A Leakage Power Aware Transmission Gate Level Shifter**, Srinivasulu Gundala, *International Journal of Engineering and Advanced Technology (IJEAT)*, 8 (4), (April 2019), 1527-1530, **2249 -8958**.

14. **Development of Electronic System to Examine the Quality of Drinking Water**, M. Venkata Sudhakar, K. Lakshmi, *International Journal Of Innovative Technology And Exploring Engineering (IJITEE)*, 8 (8), ( June- 2019), 1707-1709, **2278-3075**.

15. **Development of Lesser Complexity Transmitter and Receiver for Generalized Frequency Division Multiplexing Systems**, M. Venkata Sudhakar U.Sirisha, K.Sudheer Kumar, K.Ramya, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (8), (June-2019), 1548-1550, **2278-3075**.

16. **Implementation of System for Detecting Unwanted Gases and Monitoring the Agricultural Parameters using IOT**, M.Venkata Sudhakar, P.K.S.Supriya Y.Saidileep,P. Chennakesava Reddy, B.Anil Kumar, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8(8), (June-2019), 1544-1547, **2278-3075**.

17. **Development of Delay Line Filtration based Dispersion Management Optical Fiber System**,M. Venkata Sudhakar, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (7), (May- 2019), 2599-2601, **2278-3075**.

18. **Identification of Artery/Vein in Retinal Image using Local Decision Tree Classifier**, Rama Krishna V.V, Suman. M, *International Journal of Recent Technology and Engineering (IJRTE)*, 7 (6S2), (April 2019), 669-673, **2277-3878**.



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19. **Self-Activated Commuting of Train Allaying Between Stations**, G. Srinivasa Rao, S.V. Jagdeesh Chandra, A. Narendra Babu, E.V. Krishna Rao, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (8), (June- 2019), 1853-1856, **2278-3075**.
20. **An Automated Unit for the Detection of Accident using Fuzzy Logic and IOT**, Y.S.V.Raman, A.Narendra Babu, P.Sai Swaroop, P.Nagarjuna , D.Jaya Sri, M.Omkar, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (8), (June, 2019), 1860-1863, **2278-3075**.
21. **Implementation of System for Air Quality Monitoring with Respect to Atmospheric Parameters using Raspberry Pi**, A.Narendra Babu, E.V.Krishna Rao, G. Srinivasa Rao, S.V.Jagadeesh Chandra, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (8), (June, 2019), 1867-1870, **2278-3075**.
22. **Medical Fusion Image using Wvelet Transformation**, S.V. Jagadeesh Chandra, A. Narendra Babu, G. Srinivasa Rao, Sk. Gousiya Begum, V. Sai Nageswara Rao, B. Nagababu, and B. Prem Kumar, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (8), (June, 2019), 1864-1866, **2278-3075**.
23. **Hand Gesture Controlled Mouse**, E.V. Krishna Rao, A.Narendra Babu, S.V.Jagadeesh Chandra, G.Srinivasa Rao, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (8),(June, 2019), P-P-1857-1859, **2278-3075**.
24. **Triple Image Encryption using Chaotic Maps and DNA Sequences**, Y.S.V.Raman, A.Narendra Babu, M.Krishna Priyanka, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (8), (June, 2019), 2489-2493, **2278-3075**.
25. **Performance of Capacity Improvement in MB-MF-SIC Detector using Resource Allocation Approach**, B. Suneela, E.V. Krishna Rao, Sarat K. Kotamaraju, K.Ch. Sri Kavya, *Jour of Adv Research in Dynamical & Control Systems*, 10 (07), ( JUNE-2018), 1461-1469, **1943-023X**.
26. **Multi User-Multiple Input Multiple Output Detector Capacity Enhancement by Resource Allocation in Transmission of Physical Layer Network**, B. Suneela, E.V.KrishnaRao, Sarat K., K. Kotamaraju, K. CH. Sri Kavya, *Journal of Computational and Theoretical Nano Science*, 16 (5-6), (May-2019), 2488-2494, **1546-1963**.
27. **Analytical Study on Low pass Filter with I-Shaped Defected Ground Structures for Medical ISM Band Applications**, Minakshmi Shaw, B.T.P. Madhav, Pradeep Kumar, P.Rakesh Kumar, *International Journal of Pharmaceutical Research*, 10 (3), (Sept 2018),565-573, **0975-2366**.



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### Research & Development Cell

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28. **Performance Improvement of MB-MF-SIC Detector system using Nakagami-m Fading Channel**, B. Suneela, E.V. Krishna Rao, Sarat, K. Kotamaraju, K.CH.Sri Kavya, *Jour of Adv Research in Dynamical & Control Systems*, 10 (07), (July-2018),1818-1826, **1943-0243X**.

#### Department of Electrical and Electronics Engineering

29. **Voltage and Frequency Controller in a Multi Micro grid System**, P. Balanagu, M. Umavani, *Journal of Advanced Research in Dynamical and Control Systems*, 10( 13), (Jun-2018),1287-1294, **1943-023X**.
30. **A Linear Quadratic Regulator (LQR)-Based Switching Controller for High Power Applications By Minimizing Switching Angle**, Uma Vani M, Vanajakshi, R.Srinivasa Rao, *International Journal Of Mechanical And Production Engineering Research And Development (IJMPERD)*, 8 (3), (Dec 2018),752-759, **2249-6890**.
31. **Resonance Propagation and Elimination in Integrated and Islanded Micro grids**, K. V. Siva Reddy, SK. Moulali, K. Reddy, Ch. Rami,K. Harinadha Reddy, B. V. Rajanna, G. Venkateswarlu, Ch. Amarendra, *International Journal of Power Electronics and Drive System(IJPEDS)*, 9(3), (Sept2018), 1445-1456, **088-8694**.
32. **FPGA-controlled seven-level soft switching isolated dc-dc converter topology**, J. Sivavara Prasad,Y.P. Obulesh and Ch. Sai Babu, *International Journal of Electronics Letters*, 106 (5), (Feb-2019), 1-18, **2168-1724**.
33. **Linear Peak Current Mode Control of Two Level Isolated DC-DC Converter**, J. Sivavara Prasad, K.R.L. Prasad, G. Nageswara Rao, *Jour of Adv Research in Dynamical & Control Systems*10 (10) (July2018), 42-57, **1943-023X**.
34. **Three-Port Soft -Switching DC-DC Interleaved Boost Converter Topology using Renewable Energy Sources**, M. Kiran Kumar, J. Sivavara Prasad, *Journal of Advanced Research in Dynamical & Control Systems*, 10 (10), (July 2018),36-41, **1943-023X**.
35. **A Passive Islanding Detection Method for Neutral point clamped Multilevel Inverter based Distributed Generation using Rate of Change of Frequency Analysis**, Ch. Rami Reddy, K. Harinadha Reddy, *International Journal of Electrical and Computer Engineering (IJECE)*,8 (4), (Aug. 2018), 1967-1976, **2088-8708**.

#### Department of Electronics and Instrumentation Engineering

36. **Modeling and Simulation of MEMS Comb Accelerometer for Sensitivity Improvement**, Anusha Ganta, T. Satyanarayana,R. Neela, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*,8 (8), (June 2019), 2578-2583, **2278-3075**.



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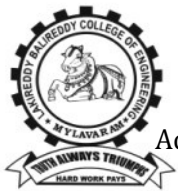
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37. **3D MR Images De-noising using Adaptive Block wise Approached Non-Local Means (ABNLM) Filter for Spatially Varying Noise Levels**, Poornaiah Billa, Anandbabu Gopatoti, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8 (4), (Feb 2019), 112-118, **2278-3075**.

#### Department of Mechanical Engineering

38. **Experimental Analysis of Jet Impingement on Aluminum Heat Sink**, Sk. Esub Basha, Lakshmi Prasad. K, G.Kartheek, K.V.Viswanath, *International Journal of Mechanical Engineering and Technology*, 9 (6), (July-2018), 1129-1140, **0976-6340**.
39. **Numerical Investigations of Optimal Distribution of Discrete Heat Sources under Natural Convection**, Maganti Sairam, Mr.R.Veeranjaneyulu, Pullarao Muvvala, *International Journal of Mechanical Engineering and Technology (IJMET)*, 9 (6), (June 2018),641-649, 0976-6340, **0976-6359**.
40. **Damage Identification of Fixed- Fixed Beam Using Normalized Natural Frequency Zones**, Chinka Siva Sankara Babu, Adavi Balakrishna, Putti Srinivasa Rao, *Jour of Adv Research in Dynamical & Control Systems*, 10 (10),(2018),2679-2687, **1943-0023X**.
41. **Vibration Analysis on Engine Elastomeric Angular Mount**, Sudheer Kumar Battula, Rama Murthy Raju. P Ratnam. Ch, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 8 (6), (Dec 2018),963-976, **2249-6890, 2249-8001**.
42. **An Innovative Technique to Calculate Optimal Cure Time of Elastomeric Compound for Angular Mounts Using Dynamic Mechanical Analysis**, Sudheer Kumar Battula P. Rama Murthy Raju, Ch. Ratnam, *Jour of Adv Research in Dynamical & Control Systems*, 10 (10), (2018),2659-2667, **1943-0023X**.
43. **Damage Localization of Cantilever Beam Based on Normalized Natural Frequency Zones and Vibration Nodes**, Siva Sankara Babu Chinka, Balakrishna Adavi, Srinivasa Rao Putti *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*,8 (5), (March 2019), 1167-1174, **2278-3075**.
44. **Experimental Studies on the Thermal Performance of a Closed Loop Pulsating Heat Pipe Using Water-ethanol Binary Working Fluids**, P.Venkataramana, P. Vijaya Kuamr, B. Bala Krishna, *International Journal of Recent Technology and Engineering (IJRTE)*,7 (ICETESM), (March 2019), 135-140, **2277-3878**.
45. **Modelling and Analysis Of Thermo Electric Cooler Module Using ANSYS**, P. Ravindra Kumar, A. Sekharam,P. Venu Madhav, G. Chitti Babu, V. Sai Babu, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*,9 (3), (Jun 2019),1249-1258, **2249-6890,2249-8001**.
46. **Refrigeration System Performance by Inserting Twisted Strip in Condenser Along with Liquid Suction Heat Exchanger**, T. Srinivasa Rao, K. Dilip kumar, K. Appa Rao, *International Journal of Engineering and Advanced Technology (IJEAT)*,8 (2C2), (Dec 2018), 59-62, **2249 – 8958**.





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### Research & Development Cell

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47. **Multi Response Optimization Of Edm Process Parameters For Inconel X-750 Using Moora**, Murahari Kolli, Shaik Khadar Basha, M.V. Jagannadha Raju, *Journal of Mechanical Engineering Research & Developments*, 42, (2019), 30-40, **1024-1752**.

#### Department of Information Technology

48. **Enhanced Northern Bald Ibis Optimization Algorithm based Clustering Method for Web Document Clustering**, Ravi Kumar Saidala, D. Nagaraju, Sreenivasa Reddy Edara, *Journal of Advanced Research in Dynamical & Control Systems*, 10 (9) (2018), 2081-2094, **1943-023X**.
49. **Snorezen Bubble Tube –A Therapy for the Mentally Challenged People**, Ch. Sambasiva Rao, Rama Devi Burri, *International Journal of Recent Technology and Engineering (IJRTE)* ,7 (6S5), (April 2019), 2005-2009, **2277-3878**.
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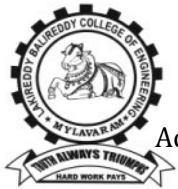
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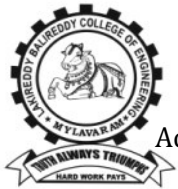
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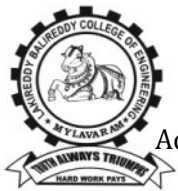
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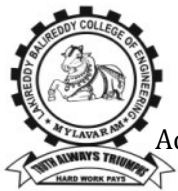
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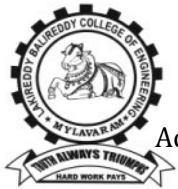
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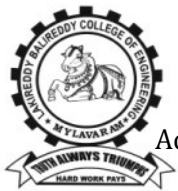
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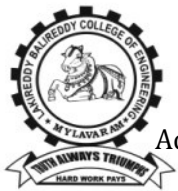
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45. **Tri Band Cp Slot Antenna Backed With Dual FSS Reflector**, Siva Hari Prasad, B.M.V.S. Prasad, *International Conference On Computational And Intelligence Techniques*, (5), (2018), 56456875, **2344-1234**
46. **Design Of Analysis Of Wideband Hexagonal Circular Ring Patch Antenna Using Defected Ground Structure**, P. Rakesh Kumar Prathipati, A.Guruva Reddy, K.Satya Prasad, *IETE, ICATE*, (1), APR-2019
47. **Solar PV System Dc-Dc Converter Duty-Ratio for Variations in the Load Demand, Irradiance And emperature**, Sobha Rani. P, M S Giridhar, R.Sarveswara Prasad, *3rd*



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### Research & Development Cell

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*International Conference On Innovative Applications Of Computational Intelligence On Power(Cipech-18)*, 1, (Jan-2019)

48. **Structural Investigation On Bio Activity Of P2o5-CaO--Na2O-K2O:MgO Glasses**, Satyanarayana.T, *ICONN 2019*, (Jan-2019).

#### Department of Electronics and Instrumentation Engineering

49. **An Efficient Optimization Technique For PV-System Under Partial Shaded Condition**, Sarveswara Prasad. R, *NCPACC-2018*, 1, (Nov-2018), **978-93-87862-36-4 D-2**
50. **Agricultural Crop Monitoring And Controlling Using IOT**, Vineela. V, Bhavya. P, Sandeep Bongarala, *Computational And Intelligent Techniques For Automation Of Engineering Systems*, (Mar 2019)
51. **Modelling And Simulation Of MEMS Comb Type Accelerometer For Sensitivity Improvement**, Anusha. G, Satyanarayana. T, Rambabu Busi, *ICONN 2019*, MAR-2019,
52. **Modeling And Simulation Of MEMS Based Pressure Sensor For Industrial Applications**, Anusha. G, Satyanarayana. T, Rambabu Busi, *ICONN 2019*, JAN-2019
53. **Design Of Zn-Controller For Coupled Tank System**, Seshu Kumar Chegu, *ICEAT*, APR-2019
54. **Comparative Assessment Of Outcome?? Based Education (OBE) And Outcome??Based Learning (OBL)- A Case Study In Technical Institution**, Anjaneyulu Naik. R, *International Conference On Transformations In Engineering Education Imparting Futuristic Skills*, Jul-2018.
55. **An Efficient Optimization Technique for PV System under Partial Shaded Condition**, Sarveswara Prasad. R, *National Conference on Process, Automation, Control And Computing*, Mar-2019.
56. **Solar PV System DC-DC Converter Duty-Ratio For Variations In The Load Demand, Irradiance And Temperature**, Sarveswara Prasad. R, *CIPECH-18*, 3, (Nov-2018) , **978-1-5386-6471-1**.

#### Department of Mechanical Engineering

57. **Modelling, Simulation And Optimization Of Thermal Systems In Supercritical Thermal Power Plant Cycle**, Ravindra Kumar. P, V Ramachandra Raju, *New Frontiers In Chemical, Energy And Environmental Engineering*, 2, (May-2019), **978-81-928314-5-9**
58. **Experimental Investigation On Heat Transfer Enhancement By Using Al2o3 Nano-Fluid In A Tube In Tube Heat Exchanger**, Mallikarjuna Rao Dandu, S. Ramireddy, K. Somasekhar, N Srinivas, *Conference Proceeding Of Ctames-2019*, 5, (Jun-2019)
59. **Comparative Assessment Of Outcome-Based Education (Obe) And Outcome-Based Learning (Obl) ?? A Case Study In Technical Institution**, Ravindra Kumar. P, K Appa Rao, K Anjaneyulu Naik, *ICTIEE2018*, 1, (Jul-2018)
60. **Evaluation Of Tensile Properties Of Bamboo Fibre Filled With Rock Dust Filler Reinforced Hybrid Composites**, Venkateswara Rao. T, T.Venkateswararao, V.Sankara Rao, *ICIPDIMS-2019*, 1, (Jun-2019)
61. **Experimental Investigation Of Ultrasonic Flaw Defects In Weld Clad Materials Using NDT Technique**, Ravindra Kumar. P, G.Vijay Kumar, K.Naga Murali, R.B.S.S.Kishore, *International Conference On Applied Mechanical Engineering Research*, 1, (May-2019).
62. **Mechanical And Micro Structural Characteristics Of Dissimilar Butt Weld Joints Of Aa 5083 And Aa6061 Fabricated By Friction Stir Welding**, Murahari Kolli, Dasari Sai Naresh, G. Kusuma Reddy, *Conference Proceeding Of Ctames-2019*, 5, (May-2019).
63. **Mathematical Modelling And Simulation Of Materials Flow In Friction Stir Welding For A**





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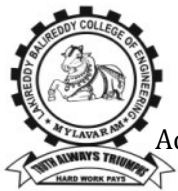
### Research & Development Cell

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- 5083, Murahari Kolli, Dasari Sai Naresh, *Conference Proceeding Of Ctames-2019,5*, (May-2019)
64. **Optimization Of Electrical Discharge Machining Of Al 7075/B4c/Gr Composite Using Rsm Method**, Murahari Kolli, R. Praveen Kumar, Shaik Khadhar Bashaisme, *ISME Conference Proceeding*, 1,(Feb-2019)
65. **Parametric Optimization Of Electrical Discharge Grinding On Ti-6al-4v Alloy Using Response Surface Methodology**, Murahari Kolli, Adepu Kumar, *ICAMER -2019 Proceedings*,1, (Jun-2019)
66. **Tribological And Fatigue Behavior Of Aluminium-Silicon Hypoeutectic Alloys With Melt Treatments**, Chandra Sekhar Rao. P.V, Y.Subbalakshmi, V.Dhana Raju, *ICPCM-2018*, 1, (May-2019)
67. **Mitigation Of NOX Emissions With Application Of Exhaust Gas Recirculation On Diesel Engine Fuelled With Diesel-Corn Seed Oil Biodiesel Blend**, E. Rama Krishna Reddy, Surendra Babu, Dhana Raju and .Bala Prasad, *ICRAMMES 2019*, JAN-2019,1-6
68. **Experimental Investigation On The Effect Of Fuel Additives With Tamarind Biodiesel On The Performance And Emission Characteristics Of Diesel Engine**, V. Dhana Raju, P.S.Kishore, Harish Venu, *AMMA-2018*, 02, (Nov-2018)
69. **Experimental Studies On The Thermal Performance Of A Closed Loop Pulsating Heat Pipe Using Water-Ethanol Binary Working Fluids**, Vijaya Kumar. P, *ICEESM'18*, Dec-2018.

#### Management of Business Administration Department

70. **The Saga Of Financial Turnaround - A Case Of APSRTC**, Siva Reddy. P, *Global Recovery: India At The Crossroads*, 7,(Sep-2018),**978-93-83302-32-1**
71. **Does The Indian Stock Market Have One Side Of The Coin - An Empirical Study With Asian Stock Markets**, Siva Reddy. P, Kalyan Kumar. B, *Global Recovery: India At The Crossroads*, 7, (Sep-2018),**978-93-83302-32-1**
72. **GST Accounting: A New Wave Of Accounting**, Adishesha Reddy. A, Siva Reddy. P, 9, *30th Aims Annual Management Education Convention 2018*, 1, (Sep-2018), **978-93-88237-03-1**
73. **Common Error In Depreciation Computation**, Ravikiran Yasaswi. K, A Two Day International Conference On "Global Business Management Practices-Emerging Trends And Challenges, *SPECIAL ISSUE*, (Jul-2018),**2455-3085**
74. **A General Perspective On Classification Of Humans**, K. Ravi Kiran Yasaswi, D.Kalyani & P.Siva Reddy, *3rd International Conference On Recent Research And Innovations In Social Science And Education*, 7, (July 2018), **978-93-87793-34-7**
75. **Is Research In India Without Glitches? Evidences Of Some Corrupt Practices**, Srinivas. L, *AIJR Proceedings*, 3, (Oct-2018), **978-81-936820-3-6**
76. **GST Accounting: The New Wave Of Accounting**, Adishesha Reddy. A, Siva Reddy. P, *Management Education-Connecting The Dots*, (Aug-2018),**978-93-88237-03-1**
77. **A Study On Consumer Perception Towards Hero Two Wheelers With Special Reference To Vijayawada City**, Venkateswarlu. D, *2nd International Conference Innovation And Sustainability Of New Businesses*, (Jan-2019)
78. **The Dimensions & Strategies Of Perpetual Transition Management**, V.V.Narsi Reddy, *International Conference On Advances In Humanities Sciences And Management*, (Dec-2018), **978-81-939386-3-8**
79. **Performance Of Lic-A Post-Deregulation Experience**, V.V.Narsi Reddy, *International Conference On Innovations In Engineering And Management*, (Feb-2019)
80. **Social Sector Expenditures And Their Impact On Human Development In India**, V.V.Narsi Reddy, *International Conference On Science, Technology And Management*,(Mar-2019)



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### Research & Development Cell

81. **Micro, Small And Medium Enterprises (MSME) In India: Opportunities, Issues And Challenges**, Jeyalakshmi. R, *International Seminar On Impact Of Globalisation On Msmes- Prospects, Challenges And Policy Implications On Growth*, (Mar-2019)

#### Details of Patents

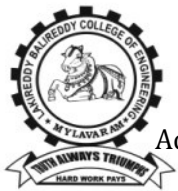
S.No.	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	Parents Identification System for Missing Children	Vijay Kumar Reddy Dr. Buraga Srinivasa Rao (IT)	201741041347	24-05-2019

#### Details of Sponsored Research

**No. of Research Projects : 12**

#### 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	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
<b>Other Grants</b>							
2.	EIE	Dr. T. Satyanarayana	International Travel Support (ITS) to deliver an Invited Talk at USA	UGC-TG	25 <sup>th</sup> Feb – 1 <sup>st</sup> Mar 2018	0.49716	May2019
3.	CSE	Dr.D. Veeraiah	Two week Faculty Development Program on Machine Learning to Deep Learning: Trends & Challenges	AICTE- FDP	1 Year	6.22	Mar2019
4.	CSE	Dr.D. Veeraiah	Training Program on Domestic Data Entry Operation	AICTE- PMKVY	1 Year	2.70466	Mar2019
5.	EEE	Dr. K. Harinadha Reddy	International Travel Support (ITS) to attend and conference at USA.	UGC-TG	19-22 Feb, 2018	1.82825	Jan2019
6.	EIE	Dr. T. Satyanarayana	International Travel Support (ITS) to deliver an Invited Talk at USA.	SERB-ITS	25 <sup>th</sup> Feb – 1 <sup>st</sup> Mar 2018	1.91471	Jul2018



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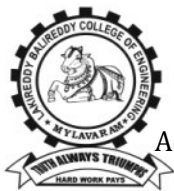
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### Research & Development Cell

#### Details of Sanctioned/Ongoing Projects-06

S.No.	Dept.	PI/Co-PI	Project Title	Funding Agency & Scheme	Duration	Total Amount Sanctioned in Lakhs	Month & Year of Sanction
1.	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
2.	ME	Dr. K. Appa Rao	Experimental Investigation on Homogeneous Charge Compression Ignition Engine (HCCI)	UGC-MRP	2 Years	1.55	Mar-2018
3.	AE	Mr.I Dakshina Murthy	Flow Characteristics of High-Speed Co-flow Jets	UGC-MRP	2 Years	4.30	Mar-2018
4.	MBA	Dr.L.Srinivas	A study on work-life balance of faculty in engineering colleges situated in Krishna District of Andhra Pradesh”	UGC-MRP	2 Years	1.70	Mar-2018
<b>Other Grants</b>							
5.	ECE	Dr. E.V.Krishna Rao	Modernization of ECAD Lab(VLSI & Embedded System Lab)	AICTE-MODROB	2 Years	9.37	Mar-2019
6.	ME	Dr. K. Appa Rao	Modernization of thermal Engineering Laboratory	AICTE-MODROB	2 Years	12.50	Sep-2017



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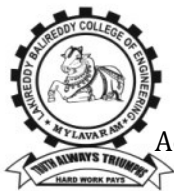
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**Research & Development Cell**

**Details of Supervisors & Scholars during the AY 2018-19**

- i. No. of Recognized Research Supervisors : 28
- ii. No. of Scholars Pursuing Ph.D. : 49
- 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	
						K.B.V.Satya Prakash	2013	Pursuing	
2.	Dr. V. Ramakrishna	Civil	2005	2019	Annamalai	M. 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. Venkata 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.L.V.Krishna Rao	2018	Pursuing	1



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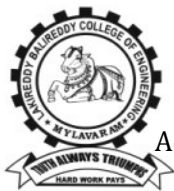
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6.	Dr. O. Rama Devi	CSE	2017	2019	JNTU-K	N.A.	N.A.	N.A.	0
7.	Dr. M. Srinivasa rao	CSE	2017	2019	JNTU-K	N.A.	N.A.	N.A.	0
8.	Dr.A.Narendra Babu	ECE	2008	2017	KLU	Mr. G. Venkata Ramanaiah	2017	Pursuing	1
9.	Dr.E.V.Krishna Rao	ECE	Apr. 2007	2008	JNTU-K	Mr. G. Venkata Rao	2019	Pursuing	5
		ECE	Apr. 2007	2013	KLU	Mr.N. Ravi Kumar Reddy	2015	Pursuing	
		ECE	Apr. 2007	2012	Kanchi Uni	Mr.K.Raja Rao	4 <sup>th</sup> Jan 2012	Pursuing	
		ECE	Apr. 2007	2013	KLU	B. Suneela Reddy	8 <sup>th</sup> Feb 2014	Pursuing	
		ECE	Apr. 2007	2008	JNTU-H	J. Ravindra Babu	2008	Pursuing	
		ECE	Apr. 2007	2008	JNTU-K	M. Ravindranath Tagore	2009	Awarded 1 <sup>st</sup> Mar 2019	2
		ECE	Apr. 2007	2008	JNTU-K	P. Ammi Reddy	2008	Awarded 25 <sup>th</sup> Sep 2018	
10.	Dr.G.L.N. Murthy	ECE	2018	2019	Annamalai	Mr. S. Ramakoteswara Rao	2019	Pursuing	1
11.	Dr. J. Babu	ECE	2013	2019	JNTU-K	N.A.	N.A.	N.A.	0
12.	Dr.Y. Amar Babu	ECE	2018	2018	Annamalai	Smt. M. Ramya Harika	2018	Pursuing	1
13.	Dr.J.Siva Vara Prasad	EEE	2018	2019	Annamalai	K.Girinadh Babu	2019	Pursuing	1



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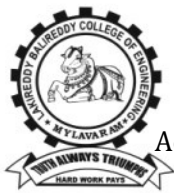
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14.	Dr.K.Harinadha Reddy	EEE	2012	2014	JNTU-K	Ch. Rami Reddy	2015	Pursuing	3
				2014	JNTU-K	Ch. Amarendra	2015	Pursuing	
				2014	JNTU-K	Mr.S. Govinda Raju	2014	Pursuing	
15.	Dr.M.Umavani	EEE	2012	2015	JNTU-K	Ms.N. Vanajakshi	2015	Pursuing	4
	Dr.M.Umavani					S.V.R. Lakshmi Kumari	2015	Pursuing	
	Dr.M.Umavani					P. Balanagu	2014	Pursuing	
	Dr.M.Umavani					M. Punya Sekhar	2014	Pursuing	
16.	Dr. B. Poornaiah	EIE	2016	2018	Annamalai	P. Bhavya	2018	Pursuing	2
						B. Sandeep	2018	Pursuing	
17.	Dr. B. Rambabu	EIE	2016	2018	Annamalai	Mrs. V. Vineela	2018	Pursuing	1
18.	Dr. T. Satyanarayana	EIE	2010	2018	Annamalai	M.B. Chakravarthi	2018	Pursuing	1
19.	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	2014	Pursuing	



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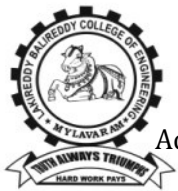
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						Batchanaboyina			
						Nalini Sri Mallela	2014	Pursuing	
						Srinivasa Rao Pokuri	2014	Pursuing	
20.	Dr.S. Naganjaneyulu	IT	2014	2016	JNTU-K	Katru Rama Rao	2016	Pursuing	2
						Kalva Sudhakar	2016	Pursuing	
21.	Dr. A.Adishesha Reddy	MBA	2013	2013	KLU	G.Srinivasu Raju	2012	Pursuing	1
22.	Dr.T. Rajasekhar	MBA	2007	2011	JNTU-K	N.A.	N.A.	N.A.	0
23.	Dr. K. Appa Rao	Mech	2013	2016	JNTU-K	Anil Kimar Chintalapudi	2016	Pursuing	1
24.	Dr.K.Dilip Kumar	Mech	2014	2016	JNTU-K	Tejomurthi Pinjala	2016	Pursuing	1
25.	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		
26.	Dr.P.V.Chandra Sekhar Rao	Mech	2013	2016	JNTU-K	K.Narayana	2019	Pursuing	2
2016				JNTU-K	Sumalatha Chatragada	2016	Pursuing		
27.	Dr.P.Vijay Kumar	Mech	2012	2016	JNTU-K	P.Venkata Ramana	2016	Pursuing	1
28.	Dr.S.Pichi Reddy	Mech	2012	2016	JNTU-K	Gopi Chand Dirisenapu	2016	Pursuing	1



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### Research & Development Cell

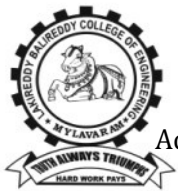
#### Details of Books

S. No.	Authors	Title of the Book	Publisher	Published on	ISBN
1.	Ch. Rami Reddy, <b>Dr.K. Harinadha Reddy</b> (EEE)	Balanced Islanding Detection of Integrated Distributed Generation <b>(104 Pages)</b>	Lambert Academic Publishing, <b>Germany</b>	13 <sup>th</sup> July 2018	978-3-330-08154-3
2.	Dr. V. Dhana Raju (ME)	Tamarind seed biodiesel: sustainable green fuel <b>(104 Pages)</b>	Lambert Academic Publishing, <b>Germany</b>	4 <sup>th</sup> May 2019	978-620-0-08092-9
3.	Dr. Gundala Srinivasulu (ECE)	Design of Low Power High Speed Level Shifters for Multi VDD Systems <b>(52 Pages)</b>	Lambert Academic Publishing, <b>Germany</b>	15 <sup>th</sup> April 2019	978-620-0-00610-3
4.	Dr. M. Venkata Sudhakar (ECE)	Development of IoT based System for Monitoring Agriculture Parameters <b>(60 Pages)</b>	Lambert Academic Publishing, <b>Germany</b>	19 <sup>th</sup> April 2019	978-620-0-07799-8
5.	Dr .D. Veeraiah (CSE)	A Novel Approach for Mining Cluster Data bases using Fuzzy Link Analysis	Research India Publications <b>New Delhi</b>	May, 2018	978-93-87374-32-4
6.	Dr.T.V. Nagalakshmi (FED)	Progress in Applied Materials Science	Penerbit UTM Press, <b>Malaysia</b>	Dec,2018	978-983-52-1580-3
7.	Dr.T. Rajasekhar (MBA)	Managing People at Work- Leadership Styles and Influence Strategies	Vandana Publications, <b>Lucknow</b>	20 <sup>th</sup> ,Dec. 2018	978-81-937887-7-6

#### Details of Faculty Secured Ph.D.

S.No.	Faculty with Designation	Date of Registration	Date of Awarding Ph.D.	Name of the University
1.	Dr.A.V.G.A. Marthanda Assoc. Professor, Dept. of EEE	08-08-2010	18-01-2019	Sri Venkateswara
2.	Dr. G.L.N. Murthy Assoc. Professor, Dept. of ECE	10-07-2010	26-12-2018	Sri Venkateswara
3.	Dr. V. Dhana Raju Sr. Asst. Professor, Dept. of ME	01-01-2014	08-10-2018	Andhra





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### Research & Development Cell

#### Details of Research Events Organized-04.

S.No	Topic	Resource Person	Date & Venue
1.	Quality of Research in Colleges	Dr.Shakeel Ahmed Joint Secretary University Grants Commission (UGC) – New Delhi.	17th April,2019 Venue: Dr. Sarvepalli Radhakrishnan Auditorium at admin Building, LBRCE
2.	Research in University and Institutions	Prof. D. Narayana Rao Pro Vice-Chancellor SRM University-A.P. Amaravati	31st January, 2019 Venue: Dr. Sarvepalli Radhakrishnan Auditorium at admin Building, LBRCE
3.	Webinar on IPR For Students and Faculty Members	Ms. Shwetaree Majumder Principal, Fidus Law Chamber, New delhi	10th January,2019 (Venue: Sonet hall at Ist Block, CSE Building, LBRCE
4.	How to write Good Research Proposal	Dr.V.Bhujanga Rao, ISRO Chair Professor, National Institute of Advanced Studies, IISc, Bengaluru	21st July,2018 Venue: Lotus hall at Administration Building, LBRCE

Dean R&D