



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.: 2020-21**

i.	No. of SCI papers	48
ii.	No. of Papers in Scopus indexed Journals	25
iii.	No. of Papers in Conf. Proceedings indexed by Scopus	28
	Total Papers in SCI & Scopus	101
iv.	No. of Open Access Journals	82
v.	No. of Papers in General Conf. Proceedings	09
vi.	No. of Patents Published	42
vii.	No. of Books/Chapters published	30
viii.	No. of Research Projects completed	02
ix.	No. of Research Projects Sanctioned/Ongoing	05
x.	No. of Sponsored STTP, FDPs, Travel Grants, Workshop	03
xi.	No. of Doctoral Faculty	70
xii.	No. of Faculty Secured Ph.D.	05
xiii.	No. of Recognized Supervisors	35
xiv.	No. of Ph.D. Scholars awarded Ph.D.	00
xv.	No. of Ph.D. Scholars Pursuing	47

Details of Publications

S.No.	Dept.	SCI	SCOPUS		Open Access	Other Proc.	Total	Patents	Books/ Chapters
			Journals	Conf. Proc.					
1.	AE	02	--	02	--	--	04	--	01
2.	CE	--	02	--	02	--	04	--	--
3.	CSE	02	01	11	27	04	45	11	08
4.	ECE	06	04	01	07	--	18	07	05
5.	EEE	06	--	04	20	01	31	12	04
6.	EIE	01	01	00	01	--	03	--	01
7.	ME	25	--	04	11	--	40	10	03
8.	IT	00	05	04	04	01	14	01	04
9.	FED	02	11	02	05	--	20	01	01
10.	MBA	04	01	--	05	03	13	--	03
Total		48	25	28	82	09	192	42	30

SCI/ESCI/WoS Publications - 48

ASE: 02, CE: 00, CSE: 02, ECE: 06, EEE: 06, EIE:01, ME: 25, IT: 00, FED: 02, MBA: 04 Total: 48

Department of Aerospace Engineering - 02

1. **Effect of Orifice Spacing on Twin Circular Parallel Compressible Jets**, K. B. V. Satya Prakash, P. Lovaraju and E. Rathakrishnan, International Journal of Turbo & Jet Engines, 38(3) (April 2021), 223-232, 2191-0332 (online)
2. **Flutter Characteristics of Axially Functional Graded Composite Wing System**, L. Prabhu, J. Srinivas, Advances in aircraft and spacecraft science, 7(4) (July 2020), 353-369, 2287-5271 (online)

Department of Computer Science Engineering - 02

3. **“An Effective Face Recognition System Based On Cloud Based Iot With A Deep Learning Model.”** Deepika Chauhan, Ashok Kumar, Pradeep Bedi, Vijay Anant Athavale, D.Veeraiiah, Boppuru Rudra Pratap, Microprocessors And Microsystems, 0141-9331, <https://www.sciencedirect.com/science/article/pii/S0141933120308711>. (SCI & SCOPUS)
4. **An Additive Sparse Logistic Regularization Method for Cancer Classification in Microarray Data**, Vijay Suresh Gollamandala and Lavanya Kampa, The International Arab Journal of Information Technology, 214-220,1683-3198, International Arab Journal of Information Technology (IAJIT), Sep-2020. <https://iajit.org/PDF/Vol%2018,%20No.%202/19647.pdf> (SCI & SCOPUS)

Department of Electronics and Communication Engineering - - 06

5. **Design of Complementary Split Ring Resonators on Elliptical Patch Antenna with Enhanced Gain for Terahertz Applications**, Keevath Kumar Naik, M Suman, E.V. Krishna Rao, *Optik*, 243, (June 2021), 167434, 0030-4026 (Print), 1618-1336 (online) (SCI & SCOPUS)
6. **System Investigation from Material Characterization to Modeling of Jute-Substrate-Based Conformal Circularly Polarized Wearable Antenna**, D. Ram Sandeep, N. Prabhakaran, B.T.P. Madhav, K.L. Narayana, P. Rakesh Kumar, *Journal of Electronic Materials*, 49(12), (October 2020), 7292-7307, ISSN: 0361-5235 (Print), 1543-186X (Online) (SCI & SCOPUS)
7. **Relocation of 5G Network in Mobile Devices for Effective Carrier Frequency Distribution**, B.Poornaiah, G. Kiran Kumar, P Shamili Srimani, M Narendra Reddy, *Turkish Journal of Physiotherapy and Rehabilitation*, 32(2), (April 2021), 1138-1149, 2651-4451(Print), 2651-446x (e-ISSN) (ESCI & SCOPUS)
8. **Performance Analysis of Fractional Earthworm Optimization Algorithm for Optimal Routing in Wireless Sensor Networks**, Venkat Rao Pasupuleti, Ch. Balaswamy, *EIA Endorsed Transactions on Scalable Information Systems*, (April 2021), 2032-9407 (Online) (ESCI)
9. **The Effect of Microwave Trimming on Electrical and Stability Characteristics of Polymer thick film Resistors**, Y. Srinivasa Rao, K.V. Subrahmanyam, B. Poornaiah, B. Rambabu, *Journal of Active and Passive Electronic Devices*, 15(2), (January 2021), 223-242, 1555-0281 (Print), 1555-029X (online).
10. **Performance Analysis of Neural Network, NMF and Statistical Approaches for Speech Enhancement**, Ravi Kumar Kandagatla, Venkata Subbaiah Potluri, *International Journal of Speech Technology*, 23(4),(September 2020), 917-937, 1381-2416 (Print), 1572-8110

Department of Electrical and Electronics Engineering - 06

11. **A Novel Time-Domain Passive Islanding Detection Technique for Grid-Connected Hybrid Distributed Generation System, Pangedaiah Bezawada**, Pedda Obulesu Yeddula, Venkata Reddy Kota, Arabian Journal for Science and Engineering, April-2021, 2193-567X, <https://doi.org/10.1007/s13369-021-05493-y>. (SCI & SCOPUS)
12. **A New Architecture Topology for Back to Back Grid-Connected Hybrid Wind and PV System, Pangedaiah Bezawada Y P Obulesu**, Venkata Reddy Kota, Journal of Electrical Engineering & Technology, 16, Pages: 1457-1467, May-2021, 1975-0102, <https://doi.org/10.1007/s42835-021-00685-w>. (SCI & SCOPUS)
13. **A new time domain passive islanding detection algorithm for hybrid distributed generation systems, Pangedaiah Bezawada**, Pedda Obulesu Yeddula, Venkata Reddy Kota, International Transactions on Electrical Energy Systems, 30 (12), Page. No: 1-14, December 2020, 2050-7038. (SCI & SCOPUS)
14. **Islanding Detection Parameters for Integrated Distributed Generation**, Recent Advances in Electrical & Electronics Engineering, S.Govinda Raju, **K.Harinadha Reddy**, Ch.Rami Reddy, 14(2), PP: 1341-143. ISSN: 2352-0973, DOI: 10.2174/213520965139992007241754113. (ESCI)
15. **Unified power flow controller in grid-connected hybrid renewable energy system for power flow control using an elitist control strategy**, Raghu Thumu, **Kadapa Harinadha Reddy**, Chilakala Rami Reddy, Transactions of the Institute of Measurement and Control, 43(1), (January 2021), 228-247, 0142-3312 (SCI)
16. **Performance analysis intelligent-based advanced PSO algorithm and testing of real-time matrix converter electrical system**, Ch.Amarendra, **K. Harinadha Reddy**, Soft Computing, 24(18), (September 2020), 14209-14220, 1433-7479 ((SCI)

Department of Electronics and Instrumentation Engineering - 01

17. **Correction to: Conversion of geared DC motor into stepper motor using switching delay time signals**, Dadi, V., Peravali, S. and **Busi Rambabu**, SN Applied Sciences A Springer Nature Journal, 3(5), March 2021, <https://doi.org/10.1007/s42452-021-04437-3>. (ESCI & SCOPUS)

Department of Information Technology - 00

Department of Mechanical Engineering - 25

18. **Parametric optimisation of Tribological Characteristics of Novel Al7010/B4C/BN Hybrid Metal Matrix Nanocomposites Using Taguchi Technique**, Gopichand Dirisenapu, Lingaraju Dumpala, Seelam Pichi Reddy, Australian Journal of Mechanical Engineering, (June 2021), 2204-2253 (Online), 1448-4846 (Print), 10.1080/14484846.2021.1938940.
19. **Dry Sliding Tribological Behavior of Al7010/B4C/BN Hybrid Metal Matrix nano composites Prepared by Ultrasonic-Assisted Stir Casting**, Gopichand Dirisenapu, Lingaraju Dumpala & Seelam Pichi Reddy, Transactions of the Indian Institute of Metals, 74:149-158, (Nov 2020), 0975-1645 (Online) 0972-2815 (Print), 10.1007/s12666-020-02128-y.
20. **Characterisation of zinc oxide nanoparticles-herbal synthesised coated with Ocimum tenuiflorum**, M. Bala Chennaiah, K. Dilip Kumar, B. Sudheer Kumar & Srinivasa Rao Tanneeru, Advances in Materials and Processing Technologies, (June 2021), 2374-0698 (Online), 2374-068X (Print), 10.1080/2374068X.2021.1934642

21. **Influence of rock dust reinforcement on mechanical properties of Al composite using friction stir processing**, Murahari kolli , Sai Naresh Dasari ,Nithin Sai Potluri, A.V.S Ramprasad, Australian Journal of Mechanical Engineering, (Nov 2020), 2204-2253 (Online), 1448-4846 (Print), 10.1080/14484846.2020.1842299.
22. **Multi-objective optimization of AAJM process parameters for cutting of B4C/Gr particles reinforced Al 7075 composites using RSM-TOPSIS approach**, Murahari Kolli, A.V.S Ram Prasad, Dasari Sai Naresh, SN Applied Sciences,3: 711, (June 2021), 2523-3971 (Online), 2523-3963 (Print), 10.1007/s42452-021-04699-x.
23. **Enhancement in combustion, performance and Emission characteristics of a Diesel engine fueled with Ce-zno Nano particle additive added to soybean biodiesel blends**, FayazHussain, Manzoore Elahi M. Soudagar, Asif Afzal , M.A. Mujtaba, I.M. Rizwanul Fattah, Bharat Naik, Mohammed Huzaiifa Mulla, Irfan Anjum Badruddin, T. M. Yunus Khan, Vallapudi Dhana Raju, Rakhamaji S. Gavhane and S.M. Ashrafur Rahman, Energies, 13(17), 4578, (Sep 2020), 1996-1073 (Online)/ (Print), 10.3390/en13174578.
24. **Effect of Sr@ZnO nanoparticles and Ricinuscommunis biodiesel-diesel fuel blends on modified CRDI diesel engine characteristics**, Manzoore Elahi M. Soudagar, M.A. Mujtaba, Mohammad Reza Safaei, Asif Afzal ,Dhana Raju V, Waqar Ahmed, N.R. Banapurmath, Nazia Hossain, Shahid Bashir,Irfan Anjum Badruddin, Marjan Goodarzi, Kiran Shahapurkar, Syed NoemanTaqi, Energy 215, Part A, (Jan2021),119094, 0360-5442 (Online), 1873-6785(Print), 10.1016/j.energy.2020.119094.
25. **An experimental assessment of prospective oxygenated additives on the diverse characteristics of diesel engine powered with waste tamarind biodiesel**, V. Dhana Raju, Harish Venu, LingesanSubramani, P.S. Kishore, P.L. Prasanna, D. Vinay Kumar, Energy, 203,(July 2020), 117821, 0360-5442 (Online), 1873-6785(Print), 10.1016/j.energy.2020.117821.
26. **Effect of split fuel injection strategies on the diverse characteristics of CRDI diesel engine operated with tamanind biodiesel**, katuri, bala Prasad, olive Meduri, Vallapudi, Dhanaraju, Arunakumari, Azmeera, Harish venu, Lingesan Subramani, Manzoore Elahi MSoudagar, Energy, Sources, PartA: Recovery, Utilization, and Environment Effects, (Dec 2020), 1556-7230 (omline), 1556-7036, 10.1080/15567036.2020.1856973.
27. **Influence of Al₂O₃nano additives in ternary fuel (diesel-biodiesel-ethanol) blends operated in a single cylinder diesel engine: Performance, combustion and emission characteristics**, Harish Venu, V.Dhana Raju, S.Lingesan and ManooreElahi M Soudagar, Energy, 215, 119091, ,(Jan 2021), 0360-5442 (Online), 1873-6785(Print), 10.1016/j.energy.2020.119091.
28. **Effect of alcoholic and nano-particles additives on tribological properties of diesel-palm-sesame biodiesel blends**, MA Majtaba, Haeng Muk Cho, HH Masjuki, MA Kalam, M.Farroq, Manzoore Elahi M.Soudagar, M Gul, Waqar Ahmed, Asif Afzal, Shahid Bashir, V.Dhanaraju, Haseeb Yaqoob and A.Z.Syahir, Energy Reports, 2352-4847(Print), ,(Dec 2020), 10.1016/j.egyr.2020.12.009.
29. **Experimental assessment of performance, combustion and emission characteristics of diesel fuelled with lemon peel oil**, A.Aruna Kumari, G.Sivaji, Syed Arifa, O.Sai Mahesh, T.Raja Rao, S.Venkata Kalyan, V.Dhana Raju, K.Bhargava and K.Lakshman Reddy, International Journal of Ambient Energy, (Dec 2020), 0143-0750 (Online), 2162-8246 (Print), [10.1080/01430750.2020.1861089](https://doi.org/10.1080/01430750.2020.1861089)
30. **Mitigation of harmful exhaust pollutants of DI diesel engine using emulsified fuel and hythane gas in a dual-fuel mode**, Radha Krishna Gopidesi , Premkartikkumar Sr & Vallapudi Dhana Raju, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (Jan 2021), 1556-7230 (Online), 1556-7036 (Print), [10.1080/15567036.2020.1861131](https://doi.org/10.1080/15567036.2020.1861131)

31. **Impact of Injection timings and exhaust gas recirculation rates on the characteristics of diesel engine operated with neat tamarind biodiesel**, K.Bala Prasad, V.Dhana Raju, Areef AhamadShaik,RadhaKrishnaGopidesi,M.Bala Satya Sreekara Reddy, Manzoore Elahi M Soudagar,and Muhammad Abbas Mujtaba, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (June 2021), 1556-7230 (Online), 1556-7036 (Print), [10.1080/15567036.2021.1924314](https://doi.org/10.1080/15567036.2021.1924314)
32. **Damage Assessment on Beam-Like Structures through Mode Shapes and its Curvatures**, Siva Sankara Babu Chinka, Srinivasa Rao Putti, Balakrishna Adavi, International Journal of Disaster Recovery and Business Continuity, 11(3), 2363-2375, (Nov 2020), 2207-8363 (Online), 2005-4289 (Print).
33. **Modal testing and evaluation of cracks on cantilever beam using mode shape curvatures and natural frequencies**, Siva Sankara Babu Chinka, Srinivasa Rao Putti and Bala Krishna Adavi, Structures, 32, 1386-1397, (Aug 2021), 2352-0124(Print), <https://doi.org/10.1016/j.istruc.2021.03.049>.
34. **Design Optimization and Computational Flow Analysis of Annular Type Combustion Chamber**, T J Prasanna Kumar , P GopalaKrishnaiah, Siva Sankara Babu Chinka, KanullaKarthik, Kolahalam Sai Babu, International Journal of Disaster Recovery and Business Continuity, 12 (1), 1195-1206, (Nov 2020), 2207-8363 (Online), 2005-4289 (Print).
35. **Decanol proportion effect prediction model as additive in palm biodiesel using ANN and RSM technique for diesel engine**, A.Naresh Kumar, P.S.Kishore, K.Brahma Raju, B.Ashok, R.Vignesh, A.K.Jeevanantham, K.Nanthagopal, A.Tamilvanan, Energy, 213, 1-16 (Dec2020), 0360-5442 (Online), 1873-6785(Print),
36. **Experimental analysis of higher alcohol-based ternary biodiesel blends in CI engine parameters through multivariate and desirability approaches**, A. Naresh Kumar, B. Ashok, K. Nanthagopal, H. C. Ong, M. J. Geca, John Victor, R. Vignesh, A. K. Jeevanantham, C. Kannan, P. S. Kishore, Biomass Conversion and Biorefinery, 1-16, (Nov 2020), 2190-6823, <https://link.springer.com/article/10.1007/s13399-020-01134-w>.
37. **Combined influence of compression ratio and EGR on diverse characteristics of a research diesel engine fueled with waste mango seed biodiesel blend**, AreefAhamadShaik , Seelam Rami Reddy , VallapudiDhana Raju &MuraliGovindarajan, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (Aug 2020), 1556-7036 (Print), <https://doi.org/10.1080/15567036.2020.1811809>.
38. **Assessment of diethyl ether as a fuel additive on the diverse characteristics of diesel engine powered with waste mango seed biodiesel blend**, S. Rami Reddy , G. Murali& V. Dhana Raju, International Journal of Ambient Energy, (Oct 2020), 0143-0750 (Online), 2162-8246 (Print), <https://doi.org/10.1080/01430750.2020.1824944>.
39. **Experimental evaluation of diesel engine powered with waste mango seed biodiesel at different injection timings and EGR rates**, S. Rami Reddy, G. Murali, AreefAhamadShaik, V. Dhana Raju, M.B.S. Sreekara Reddy, Fuel, 285, 119047, 1-12, (Feb 2021),0016-2361.
40. **Design And Analysis of Seed Sowing Mechanism for Agriculture ROBOT**, A Nageswara Rao, B Chaitanya, Dr. S Pichi Reddy, N Raju, B Udaya Lakshmi, B D I Prem Kumar, International Journal of Modern Agriculture, 10 (2), 4014-4021, (June 2021),2305-7246, <https://www.modern-journals.com/index.php/ijma/article/view/1285>.
41. **Fabrication and Modal Analysis of Composite Leaf Spring**, Sankararao Vinjavarapu, K. V. Viswanadh, B. Sudheer Kumar, P.GopalaKrishnaiah, Jaya Raju Gandepudi, International Journal of Disaster Recovery and Business Continuity, 12 (1),1133-1145, (June2021), 2207-8363 (Online), 2005-4289 (Print).

42. **Design and Static Structural Analysis of Pressure Vessel Using Finite Element Technique.**, P.Mastan Rao, T J Prasanna Kumar, P GopalaKrishnaiah, K AnupamaFrancy, KolagotlaVenkateswara Reddy, International Journal of Disaster Recovery and Business Continuity, 12 (1), 1288-1299, (June 2021), 2207-8363 (Online), 2005-4289 (Print).

Freshmen Engineering Department -02

43. **Isolation and Characterization of Fungal Lipase Strainform Oil Spilled Soils, Lakkakula Bhagya Lakshmi**, M.Raghu Ram, International Journal of Modern Agriculture, 10(1), (February 2021), 482-489, 2305-7246
44. **The eminence of copper ions on optical, electrical properties and morphology of B2O3-Bi2O3-Al2O3-MgO glasses**, G. KrishnaPriya, S.Yusub, A. RameshBabu, N. SreeRam, K. RamaKrishna, V.Aruna, Journal of Non-Crystalline Solids, 564(1), (04th February, 2021), 1-10, 0022-3093.

Master of Business Administration -03

45. **Effect of Occupational Stress on Job Satisfaction And Life Satisfaction**, Rajasekhar. T, Venkateswarlu. D, K.Chinni Krishna & K.Deepika, International Journal Of Aquatic Science, Volume 13, Issue. 3.
46. **Impact of Stress On Quality Of Teaching-A Case Study With Reference To Women Faculty in Post Graduate Colleges In Visakhapatnam, Andhra Pradesh**, K. Deepika, D. Venkateswarlu & R.Jeyalakshmi, PAIDEUMA JOURNAL, e-ISSN- 0090-5674, p.p.1-5.
47. **A Study on Buying Behavior of Consumers towards Samsung Mobiles in Coastal Andhra Pradesh**, Venkateswarlu, Dr.Rajasekhar. T, M. Papa Rao, & K. Deepika, International Journal Of Aquatic Science, Volume 12, Issue 03, p.p. 132-138
48. **Neuromarketing: The New Dawn and Disruption in Marketing Research**, **Dr. A. Adishesha Reddy**, IntechOpen, **June 2021**, The Science of Emotional Intelligence, p.p.1-6. DOI: 10.5772/intechopen.98299.

Publications in Scopus Indexed Journals - 25

ASE: 00, CE: 02, CSE: 01, ECE: 04, EEE: 00, EIE:01, IT: 05, ME: 00, FED: 11, MBA: 01 **Total: 25**

Civil Engineering Department -02

1. **A Study On Air Quality Index In Mylavaram, Andhrapradesh**, V .Rama Krishna, B. Dharani Mounika, M. Harith, T. Saiteja and A. Sambasivarao, Indian Journal of Environmental Protection, 40(12) (Dec 2020), 1338, ISSN:0253-7141.
2. **An Experimental Study on Partial Replacement of Cement and Fine Aggregate with Industrial Waste in Concrete Paver Blocks**, J Venkateswara Rao, S Rajesh, Gopi Shankar, Materials Science and Engineering, (Dec 2020), 1, ISSN:1757-899X

Department of Computer Science Engineering-01

3. **Supervision calamity of public opinion actions based on field programmable gate array and machine learning**, A Srinivasa Rao; Brahmadesam Viswanathan Krishna; D Saravanan; D Beulah David; O Rama Devi; AnjuAsokan; D Stalin David, International Journal of Nonlinear Analysis and Applications (IJNAA), 12,2,1187-1198,2008-6822,2021-June. https://ijnaa.semnan.ac.ir/article_5195.html. (**SCOPUS**)

Department of Electronics and Communication Engineering-04

4. **Inter-Gateway Handoff Management using Ant Colony Optimization (ACO) for Wireless Mesh Networks**, N. Bhushana Babu, **E.V. Krishna Rao**, K.S.N. Murthy in *International Journal of Engineering Trends and Technology*, 68(11), (November 2020), 63-71, 2231-5381(online), 23490918 (Print), (**SCOPUS**)

5. **Mobile Cluster Head based Routing Protocol to Improve Lifetime of Wireless Mesh Network** , N. Bhushan Babu, **E.V. Krishna Rao**, KSN Murthy, *Journal of Green Engineering*,10(11), (November 2020), 11360-11370, 1904-4720, **(SCOPUS)**
6. **Minimum Cost, Minimum Interference and Minimum Load (M3) Gateway Deployment Algorithm for Multi-Radio Multi-Channel Wireless Mesh Networks** , N. Bhushan Babu, **E.V. Krishna Rao**, KSN Murthy, *International Journal of Engineering Research and Technology*, 13(12), (November 2020), 4222-4229, 0974-3154. **(SCOPUS)**
7. **Development of Optimized Voltage Level Shifter for Nanoscale Applications, Srinivasulu Gundala**, Kommu Siddhartha Mavovara Kumar, Kona Naga Nandini, Sravani Gantala, J. Ravi Sankar Varma, C. Navya, *ARPN Journal of Engineering and Applied Sciences*,15(14), (July 2020),1552-1556, 1819-6608, **(SCOPUS)**

Department of Electronics and Instrumentation Engineering - 01

8. **Framework for Tree Crown Delineation from Panchromatic Images**, Yuva Krishna Aluri, Naveen V S S Kanuri, Marlapalli Krishna, **Rambabu Busi**, S Mohanbabu Chowdary and Bandlamudi S B P Rani, *EAI Endorsed Transactions on Energy Web*, ew **18**: e28, April 2021, **ISSN: 2032-944X**, doi.org/10.4108/eai.29-4-2021.169428.

Department of Information Technology-05

9. **Breast Cancer Prediction using Classification Techniques, Dr. B. Srinivasa Rao** ,Dr. R.Vijaya Kumar Reddy, Dr. Shaik Subhani, Dr. G. Rajesh Chandra *International Journal of Emerging Trends in Engineering Research* , Volume8 (9) (September & 2020) Page numbers (6074-6079), 2347 – 3983 **(SCOPUS)**
10. **Optimized threshold based EM Fusion Technique for Shrimp White Spot Disease Detection, Dr. B.Srinivasa Rao, Dr. R.Vijaya Kumar Reddy, Dr. G.Lakshmi, Dr. G. Rajesh Chandra** *International Journal of Advanced Trends in Computer Science and Engineering*, Volume 9(4), (August &2020), Page numbers (6577-6584), 2278-3091. **(SCOPUS)**
11. **Identifying the concept of Image and Captioning Using Deep Neural Networks, S Naganjaneyulu** , S.Sagar Imambi N.V. Nikhila, *International Journal of Advanced Trends in Computer Science and Engineering*, Volume 9(5) (October & 2020), page numbers (8330-8335), 2278-3091. **(SCOPUS)**
12. **Some Special Characteristics Of Lattice Ordered Commutative Loops, Rama Devi Burri, V. B. V. N. Prasad K. Prasad, Mudda Ramesh, T. Rama Rao**, *Advances in Mathematics: Scientific Journal* , Volume9(11), (October & 2020) , page numbers (2406-2410),ISSN: 1857-8365 **(SCOPUS)**
13. **Enhance the Educational Outcome in Higher Educational Institutes through Deep Neural Network, Veerraju Gampala, Anupriya Koneru**, Balajee Maram, *International Journal of Advanced Trends in Computer Science and Engineering*, Volume9(5), (October & 2020), page numbers (8315-8324), ISSN: 2278-3091 **(SCOPUS)**

Freshmen Engineering Department- 11

14. **Heat and Mass Transfer Effects on Semi Infinite Moving Surface Studded in a Stratified Porous Medium**, Ch.V. Ramana Murthy, **Y.P.C.S. Anil**, *Solid state technology*, 63(4), Oct. 2020, 2852-2862, ISSN: 0038-111X
15. **The Case Of Exponentially Decreasing Suction With Mhd Effects In Flow Through A Porous Channel**, Ch.V. Ramana Murthy, **Vijay Kumar.D**, *International Journal of Advanced Research in Engineering and Technology (IJARET)*, 11(10), December, 2021, 171-179, **0976-6499**
16. **Contribution of Porosity and Time over a Moving Porous Vertical Surface with Uniform Heat Flux, K.R. Kavitha**, Dr.Ch V Ramana Murthy, *Solid State Technology*, 63(5), September 2020, 371-384, 0038-111X

17. **In-vitro Analysis of Phytochemical, Anti-oxidant capacity of seed Ethanolic extracts of Sapindus saponaria Vahl and Anti-bacterial activity on Common Dental Pathogens, Shaheda Niloufer & Lakkakula Bhagya Lashmi**, Research Journal of Pharmacy and technology, 14(1), Jan-2021, pp-105-110, 0974-360X
18. **Film Thickness within a Fixed Vertical Circular Cylinder**, Ch V Ramana Murthy, K. Jhansi Rani, N Swamy Kallepalli, Design Engineering, 2021, 6, June-2021, 1773-1781, 0011-9342
19. **Entropy Generation in Magnetized Bioconvective Nanofluid Flow Along a Vertical Cylinder with Gyrotactic Microorganisms**, K. Gangadhar , K. Bhanu Lakshmi, T. Kannan , and Ali J. Chamkha, Journal of Nano-fluids, 9(4), June-2021, 302-312, 2169-432X
20. **Isolation And Characterization Of Fungal Lipase Strain from Oil Spilled Soils, Lakkakula Bhagya Lakshmi**, Amrutha v audipudi, Annals of the Romanian Society for Cell Biology, 25(6), May-2021, 7758-7770, 1583-6258.
21. **Results on Generalized Regular and Strongly Regular Near-Rings**, Marisetti Sowjanya, Gangadhara Rao, Radha Rani Tammileti, Turkish Journal of Computer and Mathematics Education, 12(5), April-2021, 846-851, 1309-4653.
22. **f-Primary ideals in Semi Groups, Radha Rani Tammileti**, Marisetti Sowjanya, Gangadhara Rao, Turkish Journal of Computer and Mathematics Education, 12(5), April-2021, 857-861, 1309-4653.
23. **F-Semi prime ideal In Semi Groups, Radha Rani Tammileti**, Gangadhara Rao Ankata, Marisetti Sowjanya, Chebiyyam Srimannarayana, Journal of Advanced Research in Dynamical and Control Systems (JARDCS), 12(2), Sept 2020, 1056-1062, 1943-023X
24. **Analytical study of thermodynamic quantities with surface tension and Debye temperature variations in Quinoline & p-Xylene at T = 303.15 K to 318.15 K, Nori.Timmeswara Sarma**, Fakruddin Babavali S.K, Naresh.P, Srinivasu C.H, Materials Today: Proceedings, 43(5), April-2021, 3125-3128, 2214-7853.

Master of Business Administration-01

25. **Work-Family Conflict: Gender Customised Support to Boost Faculty Satisfaction**, L. Srinivas, SCMS JOURNAL OF INDIAN MANAGEMENT, Vol. 18, Issue. 2, ISSN 0973-3167.

Publications in Scopus Conference Proceedings-26

ASE: 02, CE: 00, CSE: 11, ECE: 01, EEE: 04, EIE:00, IT: 04, ME: 04, FED: 02, MBA: 00 **Total: 28**

Department of Aerospace Engineering-02

1. **Experimental investigation on mechanical behavior of synthetic based bidirectional reinforced hybrid epoxy laminates**, S. Indrasena Reddy, L. Prabhu, Proceedings of International Conference on Recent Trends in Mechanical and Materials Engineering: ICRTMME 12th -13th Dec 2019, AIP Conference Proceedings, 2283(1), 020047 (1-6), <https://doi.org/10.1063/5.0025072>
2. **Design of an optimal ramjet inlet using meta-heuristic optimization scheme**, L. Prabhu, B. Eswara Kumar, S. Teja Swaroop, Proceedings of International Conference on Recent Trends in Mechanical and Materials Engineering: ICRTMME 12th -13th Dec 2019, AIP Conference Proceedings, 2283(1), 020045 (1-6), <https://doi.org/10.1063/5.0025071>

Department of Computer Science Engineering-11

3. **Dynamic Heart, Disease Prediction Using Multi- Machine Learning Techniques**, Dr.Veeraiah. D; Farzana Shaik, 5th International Conference on Computing, Communication and Security (ICCCS-2020),1-5,978-1-7281-5463-3, IEEE, Dec-2020.

- <https://ieeexplore.ieee.org/abstract/document/9277165> (SCOPUS CONFERENCE PROCEEDINGS)
4. **Predictions Of Loan Defaulter - A Data Science Perspective**, Dr.Venkata Narayana. Ch; Maheswari Potnuri, 5th International Conference on Computing, Communication And Security (ICCCS-2020),1-4,978-1-7281-5463-3, IEEE, Dec2020.
<https://ieeexplore.ieee.org/document/9277458> (SCOPUS CONFERENCE PROCEEDINGS)
 5. **Recognition of Plant Diseases Using Convolutional Neural Network**, Dr. Ramadevi Odugu; G Madhulatha,5th International Conference on Computing, Communication And Security (ICCCS-2020),738-743,978-1-7281-5463-3, IEEE, Dec-2020.
<https://ieeexplore.ieee.org/document/9243422> (SCOPUS CONFERENCE PROCEEDINGS)
 6. **Analysis of Hybrid Fusion-Neural Filter Approach to detect Brain Tumor**, Ranga SwamySirisati; Mekala Srinivasa Rao; SrinivasuluThonukunuri,2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC),460-464,978-1-7281-7132-6, IEEE,2021-jan-15. <https://ieeexplore.ieee.org/document/9315809> (SCOPUS CONFERENCE PROCEEDINGS)
 7. **Auto-Adaptative Learning for Machine Perception of Native Accent using Deep Learning**, Mekala Srinivasa Rao; P S V Srinivasa Rao, S Ranga Swamy, Aug-2020, 1st International Conference on Mathematical Modeling and Computational Science (ICMMCS2020).<https://www.researchgate.net/publication/351347640> AutoAdaptive Learning for Machine Perception of Native Accent Using Deep Learning (SCOPUS CONFERENCE PROCEEDINGS)
 8. **Recruitment Prediction Using Machine Learning**, Jagan Mohan Reddy Danda; Sirisha Regalla; Seelam Srinivasa Reddy,5th International Conference on Computing, Communication And Security (ICCCS-2020),1-4,978-1-7281-5463-3, IEEE,2021-March-16. <https://ieeexplore.ieee.org/document/9276955> (SCOPUS CONFERENCE PROCEEDINGS)
 9. **A Neural Network based Technique for Staircase Detection using Smart Phone Images**. Anurag Ramteke; Bhagath Parabattina; Pradip K. Das, International Conference on Wireless Communications Signal Processing and Networking -1-5,978-0-7381-1279-4,IEEE Mar-2021. <https://ieeexplore.ieee.org/document/9419425>
 10. **Speech Recognition for Indian spoken languages towards Automated Home appliances**. Bhagath Parabattina; Savinay Parihar; Pradip K. Das2nd International Conference of Emerging Technologies 2021(2nd INCET 2021), IEEE, Apr-2021. DOI:[10.1109/INCET51464.2021.9456267](https://doi.org/10.1109/INCET51464.2021.9456267) (SCOPUS CONFERENCE PROCEEDINGS)
 11. **Congestion Control Scheme for Efficient Energy (CCSEE) in Mobile Adhoc Networks**, G Balu Narasimha Rao; D Veeraiah, 2021 3rd International Conference on Signal Processing and Communication (ICPSC), „661-665,978-1-6654-2865-1,IEEE, 2021-June-15. <https://ieeexplore.ieee.org/abstract/document/9451721> (SCOPUS CONFERENCE PROCEEDINGS)
 12. **Cluster-Head And Optimal Path Selection Using K-Ga And T-Fa Algorithms For Wireless Sensor Networks**, M Sitharam; Shaik Johny Basha; Seelam Srinivasa Reddy; Kuda Nageswara Rao, International Conference On Electronics, Communication And Aerospace Technology (Iceca-2020), 798-805,978-1-7281-6387-1,IEEE Dec-2020.
<https://ieeexplore.ieee.org/abstract/document/9297535> (SCOPUS CONFERENCE PROCEEDINGS)

13. **Security Enhancement of Digital Signatures for Blockchain using EdDSA Algorithm**, Shaik Johny Basha; Venkata Srinivasu Veeram; Tamminina Ammannamma; Sirisha Navudu; M.V.V.S. Subrahmanyam, Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021), 978-0-7381-1183-4, IEEE, Feb-2021. <https://ieeexplore.ieee.org/document/9388411>

Department of Electronics and Communication Engineering-01

14. **Compact slotted multipitch antenna with defected ground structure for wireless communication**, A. Guruva Reddy, M. Madhavi, P. Rakesh Kumar, *Journal of Physics: Conference Series*, 1706 (1), (December 2020) , 012150, 1742-6596 (online), 1742-6588 (Print) **(SCOPUS Conference Proceeding)**

Department of Electrical and Electronics Engineering-04

15. **New Computational Method for Study of Ionic Current Environment of HVDC Transmission Lines**, M. Raja. Nayak S. Abdul. Mujeer, IEEE International Conference on Advances and Developments in Electrical and Electronics Engineering (ICADEE), ISBN: 978-1-7281-9251-2, PP-34-38. DOI:10.1109/ICADEE51157.2020.9368937. **(SCOPUS CONFERENCE PROCEEDINGS)**

16. **Enhanced Performance of Solar PV Array-Based Machine Drives Using Zeta Converter**, T. S. Kumar, M. Raja Nayak, R. V. Krishna and K. P. Rao, IEEE International Conference on Advances and Developments in Electrical and Electronics Engineering (ICADEE), ISBN: 978-1-7281-9251-2, PP-29-33. DOI:10.1109/ICADEE51157.2020.9368937. **(SCOPUS CONFERENCE PROCEEDINGS)**

17. **Simulation of PV and WECS using CUK and SEPIC converter**, M. Sivaramkrishnan, A.V.G.A. Marthanda, K.Lakshmi Prasad, Syed Abdul Mujeer, Udayakumar Durairaj , Mohammed Salim, 2021 5th International Conference on Intelligent Computing and Control Systems (ICICCS), ISBN NO: 978-1-6654-4834-5, PP: 6-8 May 2021 <https://doi.org/10.1109/ICICCS51141.2021.9432225>. **(SCOPUS CONFERENCE PROCEEDINGS)**

18. **A Deep learning approach for Islanding Detection of Integrated DG with CWT and CNN**, Ch. Rami Reddy, K.Harinadha Reddy, B. S. Goud and B. Pakkiraiah, IEEE Conference, ISBN NO: 978-1-7281-5682-8. doi: 10.1109/SeFet48154.2021.9375798, March 2021. **(SCOPUS CONFERENCE PROCEEDINGS)**

Department of Electronics and Instrumentation Engineering-00

Department of Information Technology-04

19. **IoT Based Vehicle (Car) Theft Rajasekhar Kommaraju** , Rangachary Kommanduri , S. Rama Lingeswararao, Boyapati Sravanthi , Cherukumalli Srivalli, International Conference on Image Processing and Capsule Networks , January 2021, ISBN:978-3-030-51858-5 **(Scopus Conference Proceedings)**

20. **Unique Dragonfly Optimization Algorithm for Harvesting and Clustering the Key Features**, Sarvani Anandarao, Nagaraju Devarakonda, Raviteja Kamarajugadda, Yingxu Wang, IEEE Xplore: International Conference on Cognitive Informatics & Cognitive, July 2020, 422-430, 978-1-7281-1419-4 **(Scopus Conference Proceedings)**

21. **An enhanced mathematical modelling approach for anomaly-based intrusion detection**, R. Ganesan, M. Vijay Anand, V.V. Krishna Reddy, B. Santhosh Kumar, Material Today Proceedings, 2214-7853 **(Scopus Conference Proceedings)**

22. **A Brief Analysis of Collaborative and Content Based Filtering Algorithms used in**

Recommender Systems, Sri Hari Nallamala, Usha Rani Bajjuri, **Sarvani Anandarao**, Dr. D. Durga Prasad and Dr. Pragnaban Mishra, IOP conference Series Materials Science and Engineering, Volume981(2), (December & 2020), page numbers (1-7), ISSN: 1757-899X
(Scopus Conference Proceedings)

Mechanical Engineering -04

23. **Machinability studies of lead induced Ti-6Al-4V alloy using Taguchi technique on WEDM process**, A.V.S Ramprasad, RamjiKoon, Murahari Kolli, Materials Today: Proceedings, 44 (1), 2593-2599, (Feb 2021), 2214-7853, <https://doi.org/10.1016/j.matpr.2020.12.652>.
24. **Simulation of PV And WECS UsingCUK and Sepic Converter**, M Sivaramkrishna, AVGAMarthanda, K Lakshmi Prasad,Syed Abdul Mujeer,Udaya Kumar Durairaj,Mohammad Salim, IEEE xplore, (May 2021), <https://ieeexplore.ieee.org/document/9432225/authors#authors>.
25. **Recent trends on titanium metal matrix composites: A review**, Dhanunjay Kumar Ammisetti, S S Harish Kruthiventi, Materials today: Proceedings, (Nov 2020), <https://www.sciencedirect.com/science/article/pii/S2214785320366153>.
26. **Improvement of weld joint strength by applying random vibrations along with external Magnetic field**, Suresh Chitturi, Mohana Krishna Chowdary K, MummunBhaumik, Dhanunjay Kumar Ammisetti, IOP Conference series: Materials science and Engineering, 998, 012035, 1-7, (Aug 2020), 17578981, 1757899X, <https://iopscience.iop.org/article/10.1088/1757-899X/998/1/012035>.

Freshmen Engineering Department -02

27. **Multi U-bent cladde POF sensors for refractive index measurement**, P.V.N.Kishore, N. Aruna, K. Chitti babu, J. Ashok, Proceedings of SPIE, 11772, 11772-OU-1, April-2021, 1996-756X,
Title of the conference: Optical Sensors2021, Duration: 19-31, April, 2021
Organized by: SPIE
28. Detection of copper by localized surface plasmon resonance based fiber optic technique. **N.Aruna, P.V.N.Kishore**, K. Chitti babu, J. Ashok, Proceedings of SPIE, 11772, 11772-OI-1, April-2021, 1996-756X
Title of the conference: Optical Sensors 2021, Duration: 19-31, April, 2021, Organized by: SPIE

OPEN ACCESS JOURNALS - 82

ASE: 00, CE: 02, CSE: 27, ECE: 07, EEE: 20, EIE:01, IT: 04, ME: 11, FED: 05, MBA: 05 Total: 82

Department of Civil Engineering-02

1. **Modeling and Prediction of Traffic Noise Levels**,V. Ramakrishna, N. Saigiri, K. Chakribabu ,Saliha Sultana and M. Dhanunjay,IOSR Journal of Engineering, 11(1) (Jan 2021), 4, ISSN:2250-3021
2. **Improvements in stabilization of Expansive Soil Using Quarry Dust and Recorn 3s Fiber - A Review**,M. Karthik Kumar, K. Harish Kumar, Journal of Emerging Technologies and Innovative Research, 7(8), (Aug 2020),1413,ISSN:2349-5162

Department of Computer Science Engineering-27

3. **Sentiment Mining of Customer Reviews from E-Commerce Websites**, Dr. K Naga Prasanthi; Dr MVP Chandra Sekhara Rao, Turkish Journal of Physiotherapy and Rehabilitation, 32, 3, 2090 - 2095, 2651-4451, 2021-may-20. <https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-251.pdf>
4. **Hand written Alphanumeric Recognition**, T.Uday Kumar; M.Poorna Hari Priya; S. Rishitha; G. Sai Ram; B. Keerthi Renuka, International Journal of Aquatic Science, 12,3,69-74,2008-8019,International Journal of Aquatic Science, 2021-June http://www.journal-aquaticscience.com/article_132694_7cac4efc2f516c9c36bc7e24f33480db.pdf

5. **Efficient Route Detection Using Machine Learning**, N. V. Naik; Sindhu Gonugunta; Tejaswini Dendukuri; Pavan Kumar Vastadu; Sri VarshithaBobburi, International Journal of Aquatic Science, 12,3,93-97,2008-8019, International Journal of Aquatic Science, 2021-June. http://www.journal-aquaticscience.com/article_132702.html
6. **Chatbot Application for College**, Dr K.NagaPrasanthi; BatchuYaswitha; Bhukya Sunitha; GeethikaSurakathula; Krishna Priya Kalakonda, Turkish Journal of Physiotherapy and Rehabilitation,32,3,68696874,2651-4451,2021-may-20. <https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-847.pdf>
7. **Personalized Medicine Prediction Using Deep Learning Approach**, Chintalapudi Sowndarya Lahari, B. Sivarama Krishna, J.Nageswara Rao, Turkish Journal of Physiotherapy and Rehabilitation, 32,3,6492 - 6496,2651-4451,Turkish Journal of Physiotherapy and Rehabilitation, 2021-May-15. <https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-791.pdf>.
8. **Speech Emotion Recognition Using RNN**, B.SivaRamaKrishna; N.Supriya; K.Nagamalleswara Rao; G.Mounikad; S.Ajay Bharani, Turkish Journal of Physiotherapy and Rehabilitation, 32,3,6864 - 6868,651-4451,Turkish Journal of Physiotherapy and Rehabilitation, 2021-May-20. <https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-846.pdf>
9. **Traffic Sign Classification Using Convolutional Neural Networks**, Venubabu Rachapudi; M Sitha Ram; P Dileep; T.L.Deepika Roy, Turkish Journal of Physiotherapy and Rehabilitation, 32,2,2987-2992,2651-4451,Turkish Journal of Physiotherapy and Rehabilitation, 2021-May-18 <https://turkjphysiotherrehabil.org/pub/pdf/322/32-2-390.pdf>
10. **An Enhanced Usage Pattern Hybrid Method for Mining Hui Sets from Large Datasets**, Avantika Tiwari, Sundeep SaradhiKanthety, D.N.V.S.L.S. Indira, J.Nageswara Rao, Turkish Journal of Physiotherapy and Rehabilitation, 32,3,6505 - 6509,2651-4451,Turkish Journal of Physiotherapy and Rehabilitation, 2021-May-10. <https://www.turkjphysiotherrehabil.org/pub/pdf/321/32-1-793.pdf>
11. **Predicting Customer Growth in Marketing Automation with Ensemble Learning**, Srilatha Yelamati; Sudhakar Atchala; J.Nageswara Rao, Turkish Journal of Physiotherapy and Rehabilitation, 32,3,6510 - 6518,2651-4451,Turkish Journal of Physiotherapy and Rehabilitation, 2021-May. <https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-794.pdf>
12. **Recognition of Consumer Behavior Using Human Eye Gaze Detection in Real Time Camera**, Sudhakar Atchala; SravaniRegalla; A Jayant Venkata Siva Pavan; Rama Seeta Sowmya Kaja; Sai Harsha Repaka, Turkish Journal of Physiotherapy and Rehabilitation, 32,3,6860 - 6863,2651-4451, Turkish Journal of Physiotherapy and Rehabilitation, 2021-may. <https://www.turkjphysiotherrehabil.org/pub/pdf/321/32-1-794.pdf>
13. **Image Classification Using ACNN (Advanced Convolutional Neural Network)**, Dr. N. Neelima, T.Uday Kumar, Turkish Journal of Physiotherapy and Rehabilitation, 32,3,7676 - 7680,2651-4451,Turkish Journal of Physiotherapy and Rehabilitation, 2021-May-10. <https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-952.pdf>
14. **An Improved K-Means Adaptive Clustering Method on Large Datasets**, AnumalaReethika Reddy, N V Naik, J.Nageswara Rao, Turkish Journal of Physiotherapy and

- Rehabilitation, 32,3,6497 - 6504,2651-4451,Turkish Journal of Physiotherapy and Rehabilitation, 2021-may-10. <https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-792.pdf>
- 15. Software Defect Prediction to Improve Software Quality using Machine Learning Approach**, Dr.KattaSubba Rao; Dr.Ch.Madhu Babu; GovinduSurla; J.Nageswara Rao, Turkish Journal of Physiotherapy and Rehabilitation, 32,3,6916 - 6922,2651-4451,Turkish Journal of Physiotherapy and Rehabilitation, 2021-May-10. <https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-855.pdf>
- 16. Use Sentiment Analysis to Predict Future Price Movement in the Stock Market**, Dr. K.S.M.V. Kumar; Dr. G Rajendra Kumar; NAGESWARA RAO. J, International Journal Of Advanced Research In Engineering And Technology (Ijaret), 11,11,1123-1130,0976-6499, IAEME, Nov-2020. https://iaeme.com/MasterAdmin/Journal_uploads/IJARET/VOLUME_11_ISSUE_11/IJARET_11_11_102.pdf.
- 17. Automatic Discovery of Online Harassment In Social Network With Machine Learning Techniques**, Y Vijaya Bhaskar Reddy; Yalanati Ayyappa; K.Swathi, Panibhate Neelakanteeswara, Solid State Technology, 63, 5, 3102-3113, 0038-111X, Oct-2020 <http://solidstatetechnology.us/index.php/JSST/article/view/3455>
- 18. A Deep Learning Technique To Predict Social Distance And Face Mask**, Mrs.M.SriBala; Ms.B.Navya; Ms.K.Nitisha; Ms.S.Bhavana; Mr.V.Sai Raghav, Turkish Journal of Computer And Mathematics Education, 12,12, 1849-1853,1309-4563,Turkish Journal of Computer and Mathematics Education (TURCOMAT), 2021-May-23. <https://www.turcomat.org/index.php/turkbilmat/article/view/7703>
- 19. A Novel Hybrid Machine Learning Based Frequent Item Extraction for Transactional Database**, Srinivasa Rao. D; Dr V Sucharita, Solid State Technology, 63,5,3016-3031,0038-111X, Solid State Technology, Oct-2020. <http://solidstatetechnology.us/index.php/JSST/article/view/3449>
- 20. Survey on Frequent Itemset Mining Methods and Techniques**, Srinivasa Rao. D; Dr V Sucharita, IT in Industry, 9,2,885-893,2204-0595, Science Research Society (SRS), 2021-Apr-21. <https://www.it-in-dustry.org/index.php/itii/article/download/426/502>
- 21. Driver's Seat Belt Detection Using Cnn**, DS Bhupal Naik; G Sai Lakshmi; V Ramakrishna Sajja; D Venkatesulu; J Nageswara Rao, Turkish Journal of Computer And Mathematics Education, 12,5,776-785,1309-4563, Turkish Journal of Computer and Mathematics Education (TURCOMAT), Apr-2021. <https://turcomat.org/index.php/turkbilmat/article/view/1483>
- 22. A Novel Approach To Detect Face Mask To Control Covid Using Deep Learning**, M Sitharam, T SubhamastanRao, S Anjali Devi, P Dileep, European Journal Of Molecular & Clinical Medicine, 7,6,658-668,2515-8260, Journal of Molecular & Clinical Medicine, Nov-2020. https://ejmcm.com/article_2807.html
- 23. A Modified Fuzzy C-Means Algorithm using Fruit Fly Optimization for Data Clustering**, S.Nagarjuna Reddy, S.Sai Satyanarayana Reddy, M.Babu Reddy, GRENZE International Journal of Engineering and Technology, 7,1,592-599,2395-5287,GRENZE International Journal of Engineering and Technology, 2021-June.

- 24. Trust Based Predictive Analysis On E-Commerce Applications**, Ms. G.V. Rajya Lakshmi; Mr. A.V.N. Pavan Kumar; Ms. S. Mounica; Mr. E. Harish; Mr. M. Naresh, Turkish Journal of Computer And Mathematics Education,12,11,4417-4422,1309-4563, Turkish Journal of Computer and Mathematics Education (TURCOMAT), 2021-May-10.
<https://www.turcomat.org/index.php/turkbilmat/article/view/6577>
- 25. A Novel Approach To Store An Image In QR Code**, NuchuYeswanth Surya Srikar; Narisetty Srinivasa Rao, Pothana Vamsi Naidu, Turkish Journal Of Computer And Mathematics Education, 12,2,3425-3435,1309-4563, Turkish Journal of Computer and Mathematics Education (TURCOMAT), 2021-June-21.
<https://turcomat.org/index.php/turkbilmat/article/view/9805>
- 26. Analysis of Covid-19 Pandemic's Impact on Physical and Psychological Health of Humans, Shaik Johny Basha**; Samineni Bhavani; Venkata SrinivasuVeesam; Rachna Behl; Tamminina Ammannamma, Turkish Journal Of Computer And Mathematics Education, 12,10,4688-4697,1309-4563, Turkish Journal of Computer and Mathematics Education (TURCOMAT), 2021-Apr-28.
<https://turcomat.org/index.php/turkbilmat/article/view/5222>
- 27. Image Segmentation With Machine Learning**, A.Praneetha; L.Mounika; M. Prudhvi Raj; K. Keerthi; N.Mahesh, Turkish Journal Of Computer And Mathematics Education, 12,12,3425-3435,3248-3255,Turkish Journal of Computer and Mathematics Education (TURCOMAT). 2021-May-23.
<https://turcomat.org/index.php/turkbilmat/article/view/8002/6292>
- 28. Security Analysis on Remote Authentication against Man-in-the-Middle Attack on Secure Socket Layer**, O.Rama Devi; S Parvathi Vallabhaneni; Dr. Mohammed Ali Hussain; TulisettiKranthi Kumar, IOP Conference Series: Materials Science and Engineering, 981,,1-7,1757-899X,IOP,Dec-2020.<https://iopscience.iop.org/article/10.1088/1757-9X/981/2/022015>.
- 29. A Brief Analysis of Collaborative and Content Based Filtering Algorithms used in Recommender Systems** Sri Hari Nallamala, Usha Rani Bajjuri, Sarvani Anandarao; Dr. D. Durga Prasad; Dr. Pragnaban Mishra, IOP Conference Series: Materials Science and Engineering, 981-1-7,1757-899X,IOP, Dec-2020.
<https://iopscience.iop.org/article/10.1088/1757-899X/981/2/022008/meta>

Department of Electronics and Communication Engineering-07

- 30. A Two Level Algorithm for Detection of Voice Pathology using Random Forest with Reduced Feature Dimension** , G.L.N. Murthy, R. Murali, S. Vijaya Shilpa, Ch. Durga Prasad, D. Mounica, *Turkish Journal of Physiotherapy and Rehabilitation*, 32(3), (June 2021), 7109-7115, 2651-4451(Print), 2651-446x (e-ISSN)
- 31. The Effect of Microwave Trimming on Electrical and Stability Characteristics of Polymer thick film Resistors** , Y. Srinivasa Rao, K.V. Subrahmanyam, B. Poornaiah, B. Rambabu, *Journal of Active and Passive Electronic Devices*, 15(2), (January 2021), 223-242, 1555-0281 (Print), 1555-029X (online)
- 32. U Shaped Slot and Spiral Shaped Monopole Antenna with Defected Ground Structure for Wireless Applications**, Bondili Siva Hari Prasad, M.V.S. Prasad, *Solid State Technology*, 63(5), (November 2020), 3077-3089, 0038-111X,.
- 33. Design of Energy Efficient Ferature Map Encoding Scheme using MLC STT RAM Memory Management**, Y.Amar Babu, Vemireddy Kavya, in *Journal of Critical Reviews*, 7(16),(July- 2020), 2191-2196, 2394-5125
- 34. Design and Analysis of 4X4 SRAM Array using 22nm Technology** , Srinivasulu
-

Gundala, Bhanu Konda, *Journal of Critical Reviews*, 7(16), (July-2020), 2176- 2183, 2394-5125

35. **Design of Advanced and Automatic Water Level Meter for Alerting Population about Floods**, **P.Lachi Reddy**, Nunna Swathi, *Journal of Critical Reviews*, 7(16),(July-2020), 2176-2183, ISSN: 2233-2238.
36. **Modeling of Dielecthoretic Seperation Platelets from Red Blood Cells**, RVNS Bharath, U. Moinudin Khan, P. Ramprasad, **Talam Satyanarayana**, G Anusha Reddy, M.C. Rao, *Journal of Critical Reviews*, 7(6), (July 2020), 32-39, 2394-5125.

Department of Electrical and Electronics Engineering-20

37. **Modelling and Manufacturing of Progressive die for Mechanical Press Operations**, V.Venkatrami Reddy, K.Bhaskar Mutyalu, S.Srinivasa Reddy, *Turkish Journal of Computer and Mathematics Education*, 12(3), 3662-3671. April-2021. 1309-4653. DOI: <https://doi.org/10.17762/turcomat.v12i3.1647>.
38. **A Photovoltaic Based Multilevel Inverter Fed Induction Motor Drive**, M. Raja. Nayak, M.Saritha, S. Abdul. Mujeer, B.Devulal, T.Santhosh Kumar, *Turkish Journal of Computer and Mathematics Education*, 12(10), 6196-6212. April-2021. 1309-4653. <https://turcomat.org/index.php/turkbilmater/article/view/5459>.
39. **A Novel Review on Modular Multilevel Converter for Induction Motor Drive Applications**, P.Deepak Reddy, M.Raja Nayak, *Turkish Journal of Computer and Mathematics Education*, 12(10), 6303-6309. April-2021. 1309-4653. <https://turcomat.org/index.php/turkbilmater/article/view/5471>.
40. **Maximum Power Extraction from Solar Photovoltaic Strings Using Grey Wolf Optimization Technique Under Partial Shading Condition**, T.Naga Durga, K.S.Lakshmi Lavanya, G.Tabita, *Design Engineering*, 2021(04), PP:1276 - 1285. May-2021. ISSN: 0011-9342, <http://www.thedesignengineering.com/index.php/DE/article/view/1663>
41. **Propeller Load Characteristic Pmsm Vector Control System Simulation Based**, Dr. R.Venkatasubramanian, Dr.A.V.G.A.Marthanda , Dr.J.Karthika , M. Devika Rani, Dr.S.JaanaaRubavathy, R.Venkatesh, *Annals of R.S.C.B*, 25(6), Pages. 4248 – 4254. May 2021, 1583-6258, <https://www.annalsofrescb.ro/index.php/journal/article/view/6257>.
42. **Inflammatory Syndrome Experiments Related With Covid-19**, Dr, D. Stalin David, Dr. G. Nageswara Rao Mahendra Pratap Swain, Uriti Sri Venkatesh, E. Fantin Irudaya Raj, D. Saravanan, *Turkish Journal of Physiotherapy and Rehabilitation*, 32(3), pp: 765-768. May 2021, 2651-4451. <https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-92.pdf>.
43. **Marine Area Remote Sensing Monitoring With advanced Flight Regulator And Self-Directed Regulator**, Koteswara Rao Vaddempudi, Dr.G.Nageswara Rao, D.Saravanan, S.Sindhura, S.Gopa Kumar, Dr. D. Stalin David, *Turkish Journal of Physiotherapy and Rehabilitation*, 32(3), pp: 1584-1590. May 2021, ISSN 2651-4451.<file:///C:/Users/admin/Downloads/32-1-190.pdf>
44. **Novel Contingency Analysis of Radial Distribution System with Distributed generation**, Sobha Rani.P, Giridhar.M.S., Padma.R, *Turkish Journal of Computer and Mathematics Education*, 12(13) (2021), PP: 5289-5299,1309-4653. <https://turcomat.org/index.php/turkbilmater/article/view/9720>.
45. **Single Input Single Output Two Level Isolated Dc-Dc Converter With Secondary Side Phase Shifting For Solar Applications**, K.Girinath Babu, J.Sivavara Prasad, V.Vasudevan, *Information Technology in Industry*, Vol. 9, No.2, PP: 433-442 March, 2021, 2204-0595.
46. **Three-Phase Three-Level Isolated DC-DC Soft Switching Converter For Solar Applications**, *Information Technology in Industry*, K.Girinath Babu, J.Sivavara Prasad,

47. **A Novel CMOS Implementation of FM0/Manchester Encoding Technique for DSRC Applications**, Dr. K. Seetharam, R. Anjaneyulu Naik, Journal of Interdisciplinary Cycle Research, XIII(V), Page No: 1741-1748, May/20210022-194.
48. **Low Density Parity Check Channel Coding For 5G New Radio**, R. Anjaneyulu Naik, Dr. K. Seetharam Journal of Interdisciplinary Cycle Research, XIII(V), Page No: 1749-1760, May/2021 0022-194.
49. **Power Quality Improvement Using Active Power Filter**, International Journal of Research and Analysis in Science and Engineering, Dr. G. Nageswara Rao, 1(3), pp: 1-9, May 2021, .2582-8118.
50. **Enhancement of Power Quality in Grid Connected PV System, Indianjournal Of Science And Technology**, P.Sobha Rani, R.Padma, R.Sarveswara Prasad P.Rathnakar Kumar, 13(35), pp-3630-3641, September 2020, 0974-6846.
51. **V/C Digital Controlled DC-DC Converter**, R.Sravani, P.Deepak Reddy, International Journal of Recent Technology and Engineering (IJRTE), 9(3), September 2020, pp-167-175, 2277-3878,
52. **A New Islanding Detection Technique using Ensemble Empirical Mode Decomposition**, Divya Sathya Sree.I, Pangedaiah.B, International Journal of Recent Technology and Engineering (IJRTE), 9(3), September 2020, 2277-3878.
53. **Performance of Flywheel Energy Storage System for Fault Ride through Support of Grid Connected Vsc-Hvdc Based Offshore Wind Farms**, CH. Aparna, J.V.Pavan Chand, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 9(12), PP-189-192, October 2020, 2278-3075.
54. **Sensor Based Automation And Control Of Coal Handling Plant, Using Plc., Compliance Engineering Journal**, G.Mounika, Ch. Teja Bhanu Prakash, Ch. Deepak, E. Shanmugha Muni, A.V. Ravi Kumar, 11(7), Page no. 408-413, July 2020. 0898-3577.
55. **Performance of Isolated Soft Switching Current Fed, Lcc-T Resonant Dc-Dc Converter for Pv/Fuel Cell Applications**, V.Prabhakar Reddy, J.Siva Vara Prasad,, International Journal of Innovative Technology and Exploring Engineering (IJITEE) 10(1), PP-1-4, November 2020, ISSN: 2278-3075.
56. **Determining The Appropriate Inclination Angle And Annual Energy Difference In Electricity**, Dr.A V G A Marthanda, Dr. G. V. Marutheswar, International Journal of Advanced Research in Engineering and Technology (IJARET), 11(12), Page. No: 3102-3112, December 2020, 0976-6480.

Department of Electronics and Instrumentation Engineering-01

57. **Water Quality Monitor in Fish Ponds by using Wireless Sensor Networks**, Rambabu Busi, Marlapalli Krishna, Naveen V S S Kanuri, Bandlamudi S B P Rani, International Journal For Innovative Engineering and Management Research, 9(12), December 2020, 707-710, ISSN 2456-5083. DOI: 10.48047/IJIEMR/V09/I12/117

Department of Information Technology-04

58. **Extraction Of Interesting Variables From Disparate Data In Big Data Analytics**, Dr.Satuluri Naganjaneyulu, Sambasivarao Chindam, K.Raviteja, Solid State Technology, Volume 63(5),(October & 2020), Page numbers (119-133), 0038-111X.
59. **A Secure Information Exchange and Efficient Access of Electronic Health Records using Block Chain Network** Dr. Satuluri Naganjaneyulu, Katru Rama Rao, Solid State Technology, Volume 63(5) (October & 2020), page numbers (3067-3076), 0038-111X

- 60. Some Special Properties of Ideals and Congruence's in Lattice Ordered Commutative Loop** Rama Devi Burri, V. B. V. N. Prasad K. Prasad, Mudda Ramesh, T. Rama Rao, European Journal of Molecular & Clinical Medicine, Volume7(8), (October & 2020), page numbers (2406-2410), ISSN: 2515-8260.
- 61. An Enhanced mathematical modelling approach for anomaly based intrusion detection**, R. Ganeshan , M. Vijay Anand , **V.V. Krishna Reddy** ,B. Santhosh Kumar, Materials Today, (March & 2021), page numbers (1-4), ISSN: 2214-7853
Department of Mechanical Engineering - 11
- 62. Experimental and CFD Analysis of Heat Transfer Rate in Multi Air Jet Impingement Over A Flat Plate and Pin-Fin Heat Sink**, Syed.Unees Babu, Perumalla Vijay Kumar, K. Lakshmi Prasad, International Journal of Innovative Technology and Exploring Engineering, 9 (12), 329-337, (Oct 2020), 2278-3075, L79831091220.pdf (ijitee.org).
- 63. Fatigue and wear behaviuor of Ti-6Al-4V implant Alloy**, K.G. Basava Kumar, P.V. Chandra sekhar Rao, Pichi Reddy Seelam, Indian Foundry Journal, 66 (11), (June 2021), 0379-5446.
- 64. Computational Performance Analysis of an Indirect Evaporative Cooler (IDEC) Unit**, Tanneeru Sai Ganesh, P. Ravindra Kumar, K. V.Viswanadh, Test Engineering and Management, 83 (12), 1-10, (Aug 2020), 0193-4120.
- 65. Experimental investigation on performance of vapour compression refrigeration system with integrated sub-cooling**, K.Dilip Kumar, Ch. Chandra Sekhar Reddy, T.Srinivasa Rao, B.PrasannaNagasai, Test Engineering and Management, 83 (12), 1-10, (Aug 2020), 5104-5111.
- 66. Experimental Study of Heat Transfer Rate in Single and Series Cross Flow Heat Exchanger using Matlab Coding**, P.ParabrahmaSai, K.Lakshmi Prasad, P.Ravindra Kumar, K. Srinivasa Rao, International Journal of Engineering and Advanced Technology, 12 (3), 273-280, (Oct 2020), 2249-8958.
- 67. Modeling and Manufacturing of Progressive Die for Mechanical Press Operations**, V.Venkatrami Reddy, K.BhaskarMutyalu, S.Srinivasa Reddy, M.Rajanaik, Turkish Journal of Computer and Mathematics Education, 12 (3), 3662-3671, (April 2021), 1309-4653.
- 68. Multi Response Optimization of Electro Discharge Machining of Ti-4V-6Al Alloy Using Taguchi based Grey Relational Analysis**, Jonnala Subba Reddy, A. V. S. S. K. S. Gupta, Design Engineering (tornoto), 2021 (3), 799-823, (June 2021), 0011-9342, <http://www.thedesignengineering.com/index.php/DE/article/view/1644>.
- 69. Modeling& Testing of 3D -Printer Specimens by Universal Testing Machine**, SnigdhaSurapaneni, B. LakshmanaSwamy, Mohan Awasthy, Pankaj Kumar Mishra, Design Engineering, 2021 (6), 1084-1091, (June 2021), 0011-9342,<http://www.thedesignengineering.com/index.php/DE/article/view/2086>.
- 70. Super charging of IC Engines with thermoelectric generator and run generator from the waste heat of IC engines**, K.Madhu Babu, K.Karthik, S. Uma Maheswara Reddy, OmNarendra, V. Nagaraju, Turkish Online Journal of Qualitative Inquiry, 12 (6), 508-520, (June 2021), 1309-6591.
- 71. Optimization of productivity of seats using time study and assembly line balancing**, Muddineni Naresh, Dhanunjay kumar Ammisetti, Ch.Suresh &Pakanati Anil Kumar, International Journal of Mechanical and Production Engineering Research and Development, 10 (3), 3829-3838, (June 2020), ISSN (P): 2249-6890;

- 72. Experimental Investigation of Diesel Engine with Novel Juliflora Biodiesel,** Dasari Akhil, K. Appa Rao, International Journal of Innovative Technology and Exploring Engineering 10(1), (Nov-2020) 2278-3075, (Online).

Freshmen Engineering Department-05

- 73. Flow Past a Vertical Porous Surface under Fluctuating Thermal and Mass Diffusion with MHD Effects,** K.R. Kavitha, Ch V Ramana Murthy, N. Swami Kallepalli, Journal of Mathematical and Computational Science (JMCS), 10(220), November 2020, 2955-2970, 1927-5307.
- 74. A Study of The Novel 'The Immortals of Meluha' in Amish Tripathi's Shiva Trilogy,** B. Samrajya Lakshmi, The Literary Herald, 6(4), Dec.2020, 113-128, 2454-3365.
- 75. Humanism, Myth, and Science in Amish Tripathi's Novels of Shiva Trilogy.** B. Samrajya Lakshmi, The Literary Herald, 7(1), June.2021, 45-57, 2454-3365.
- 76. A Study of the Novel 'The Secret of The Nagas' In Amish Tripathi Shiva Trilogy,** B. Samrajya Lakshmi, The Literary Herald, 6(6), February.2021, 41-63, 2454-3365.
- 77. A Study Of The Novel 'The Oath of the Vayuputras' in Amish Tripathi's Shiva Trilogy,** B. Samrajya Lakshmi, The Literary Herald, 6(6), February.2021,86-100, 2454-3365.

Management of Business Administration Department -05

- 78. Small and Medium Enterprises (SMEs) and Inclusive Growth in the Globalization Era,** A. Adishesha Reddy & V. V. Narsi Reddy, IJIEMR, Volume 9, Issue 12, p.p.671-683, ISSN:2456-5083.
- 79. Performance Evaluation of Gold-ETFs in India,** U. Rambabu, International Journal of Business Insights and Transformation, Vol. 13, Issue. 2.
- 80. Problems and Issues of Micro Small & Medium Enterprises (MSMEs) in Krishna District of Andhra Pradesh,** P. Siva Reddy & K. Ravikiran Yasaswi, Journal of Business Analytics and Data Visualization, Volume 1, Issue. 2. p.p-27-30.
- 81. The Land Acquisition (RFCTLARR) Act, 2013- The Antecedents And Precedents,** P. Siva Reddy, Indian Journal of Finance and Economics, Volume. 1, No.1, p.p.61-69.
- 82. Comparative Study on Land Acquisition and Land Pooling Practices in India,** P. Siva Reddy, Journal of Micro & Small Business Management, Volume. 1, Issue. 2.

Other Conference Proceedings-09

Department of Computer Science Engineering-04

1. **Analysis of Infant Mortality Rate in India using Time Series Analytics**, Jagan Mohan Reddy D; SK Johny Basha, Recent Trends in Communication & Intelligent Systems - Proceedings of ICRTCIS2020, 71-79, 978-981-16-0167-5, Springer, 2021-March-16. https://www.researchgate.net/publication/350065413_Analysis_of_Infant_Mortality_Rate_inIndia_Using_Time_Series_Analytics.
2. **Secure & Lightweight User Authentication Techniques for IoT Devices**, Dr M Srinivasa Rao; Dr Y Sowjanya Kumari, Ch Hari Prasad, 1st International Virtual Conference on Integrated Intelligence Enable Networks & Computing (IIENC-2020) Sep-2020 https://link.springer.com/chapter/10.1007/978-981-33-6307-6_50
3. **Cloud Supportive Multi-Stage Selection Model for Multiple Imputation in Large Scale Study: Non-Ignorable NMAR**, Jagan Mohan Reddy Danda; Seelam Srinivasa Reddy; Suresh G V, 21th Industrial Conference on Data Mining (ICDM 2021), 41-52, 978-3-942952-82-8, 2021-March. https://www.data-mining-forum.de/ICDM_2021_gesamt.pdf
4. **Voice-controlled Assistance for Robot navigation using Android-based Mobile Devices**, Bhagath Parabattina; Phool Chandra; Vanshali Sharma; Pradip K Das, International Conference on Wireless Communications Signal Processing and Networking -1-5, 978-0-7381-1279-4, IEEE Feb-2021. <https://ieeexplore.ieee.org/document/9419461>

Department of Information Technology-01

5. **Unique Dragonfly Optimization Algorithm for Harvesting and Clustering the Key Features**, P. Gangadhar Venkata Ramana, L. Prabhu, IEEE Xplore, **Sarvani Anandarao**; Nagaraju Devarakonda; Raviteja Kamarajugadda; Yingxu Wang Published in: 2019 IEEE 18th International Conference on Cognitive Informatics & Cognitive Computing (ICCI*CC), Milan, Italy, July 2020, ISBN: 978-1-7281-1419-. <https://10.1109/ICCICC46617.2019.9146092>.

Department of Electrical and Electronics Engineering-01

6. **A comparative study of augmented reality-based head-worn display devices**, G.Nageswara Rao, K.Aruna Kumari, D.Ravi Shankar, K.G.Kharade, Materials Today, Science Direct, Elsevier, ISSN:2214-7853, February 2021. <https://doi.org/10.1016/j.matpr.2020.12.400>.

Master of Business Administration-03

7. **Human Capital Behaviour Analytics**- P. Siva Reddy, UGC Sponsored Two Day National Seminar on '4.0 Industrial Norms and Its Impact on Business Functions' organized by Acharya Nagarjuna University, Guntur, 26th& 27th March- 2021.
8. **A Study on Problems faced by Customers in Using E-Banking Services and its impact on Customer Loyalty with respect to Rural SBI Branches, Guntur**, K. Ravikiran Yasaswi, International Research Conference & Award Summit 2020, September 2020.
9. **Investors Perception Towards Investment in Derivative Market in Capital City of Vijayawada: Andhra Pradesh**, K. Ravikiran Yasaswi, Finance India, Finance India International Research Conference, November 2020.

Details of Patents for the Academic Year 2020-21

ASE: 00, CE: 00, CSE: 11, ECE: 07, EEE: 12, EIE:00, ME: 10, IT: 01, FED: 01, MBA: 00 Total: 42

S.No.	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	A Table with Adjustable Chairs	Dr. Murahari Kolli (ME) K.V.Viswanadh Sankararao Vinjavarapu	345219-001	23-06-2021
2.	Navigation technique for industrial cleaning robots with multi height and width adaptability	Siva Sankara Babu Chinka (ME)	2021102660	23-06-2021
3.	Apparatus For Sanitizing Articles with Rotatable Inner Chamber to Evenly Distribute UV Radiation	Dr. Vayu Nandana Kishore Pabbiseti (FED)	202141022452	11-06-2021
4.	Patch Antenna, Method of Manufacturing And using such An Antenna, And Antenna System	Dr. G. Nageswara Rao (EEE)	202111022123 A	28-05-2021
5.	A method of text mining in ranking of web pages using machine learning	Dr. M. M. Sitha Ram (CSE)	2021100441	19-05-2021
6.	Image Contrast Enhancement System with Hybrid Binary Particle Swarm Optimization and Flower Pollination Algorithm	Mr. M. Samba Siva Reddy (ECE), Mr. P. Venkateswara Rao, Mr. Ch. Siva Rama Krishna,	202131018752 A	14-05-2021
7.	A Sensor Fusion Precision Technology in Agricultural and its method and Controlling Parameters	Dr. K. Dilip Kumar Sudheer Kumar Battula (ME)	202121021172	10-05-2021
8.	Method of Synthesizing Hybrid Metal Wood Composite And 3D Printing Thereof	V.Venkatrami Reddy (ME) K.Lakshmi Prasad S.Uma Maheswara Reddy K.V.Viswanadh A.Naresh Kumar	202141019607 A	07-05-2021
9.	A Decentralized privacy preserving Multi Instance Iris Authentication Device (Dpmiad)	J. Nageswara Rao (CSE)	202141019089	07-05-2021
10.	A Novel System for Interfacing the artificial Intelligence with Distributed Smart Grids	Dr. G. Nageswara Rao (EEE)	202111020987	09-05-2021
11.	An Agricultural Smart Robot Device	Dr. K. Dilip Kumar (ME)	2021101399	28-04-2021

12.	Interactive Electronic Smart Fabrics and a device for Remotely Monitoring the Vital Parameters	Dr. Godavarthi Lakshmi Narasimha Murthy(ECE),	202141017212	23-04-2021
13.	An AI Abetted Green Energy Generating Systems	Mr. G. Balu Narasimha Rao (CSE)	202141012214 A	20-04-2021
14.	An Enhanced Artificial Bee Colony for Improved Stability in Synchronous Generator	Rathnakar Kumar Pandala (EEE)	202141016020	16-04-2021
15.	Prevention of food harmfulness from production to customer for centralized kitchen facility using IoT	P.Ravindra kumar(ME)	2020103242	03-04-2021
16.	Three Axis Micro Electro Mechanical Systems with H and T Shaped Capacitive Comb Accelerometer	Dr. Satyanarayana Talam (ECE), Dr. B. Poornaiah Billa (ECE)	202141012662	02-04-2021
17.	Artificial Neural Network Based Driver Behavior Recognition for Automated Driving or Autonomous Vehicles	Dr. A V G A Marthanda (EEE)	202141009561 A	12-03-2021
18.	Generation of E-Bill transaction Number using Bloch Chain Technology	Dr. A V G A Marthanda (EEE)	202141007828 A	05-03-2021
19.	Economic Aspect Designing of Prototype Laboratory Multi Phase Induction Machine and Validation of Performance Analysis	Dr. K. Harinadha Reddy (EEE)	202041045361	05-03-2021
20.	A Novel Method of Big Data Retrieval System using Machine Learning	Veeraiah Duggineni (CSE)	2021100011	03-03-2021
21.	A Novel Method of Power Reduction in Modified AES Using Bit Encryption and Decryption Transition Scheme on FPGA	Mr. Shaik Johny Basha (CSE)	202141006425 A	19-02-2021
22.	Vehicle Window to Control Usage of Air Conditioner	M. Raja Nayak, Syed Abdul Mujeer(EEE)	202141004809 A	12-02-2021
23.	Intel light Proportional Integral Sliding mode based Direct Control of Double Field Induction Generator wind turbine	Dr.A V G A Marthanda (EEE)	202141004236 A	05-02-2021

24.	A Novel Global Secure Management System with Smart Card for IoT and Cloud Computing	Ms. B. Usha Rani (CSE)	202141000635	05-02-2021
25.	A Machine Learning Technique to Support Decisions along with Self Study	Dr. G. Nageswara Rao (EEE)	202141002009	22-01-2021
26.	PVAC- Improvement Techniques of Free Space Optical Link: Performance Analysis and improvement techniques of free space optical link in various Atmospheric conditions	A. Narendra Babu (ECE)	2020103328 (Australia)	23-12-2020
27.	IANM-Data Analysis: Intelligent Data Analysis (Academic, Non-Academic) using Machine Learning Programming	G.V. Suresh (CSE)	2020102877	02-12-2020
28.	Expert System for Detecting Drowsiness in Drivers	Phaneendra Kanakamedala (IT)	202041050058	27-11-2020
29.	Smart IoT Based System for Home Automation System	Mr. Parri Srihari (EEE)	202041049557	20-11-2020
30.	Ship Detection System from the SAR Images by Saliency Segmentation	Dr. O. Rama Devi (CSE)	202041048454	13-11-2020
31.	Peak to Average Power Ratio Reduction Method for MIMO-OFDM System	Manneva Srinivasa Rao, Arempula Sreenivasa Rao, Dr. Vamsidhar Anagani, H.D. Praveena, M.K. Lingamurthy (ECE)	202041049074	13-11-2020
32.	Aerial Manipulative Omni Directional Drones for Building Construction	Dr. V. Dhana Raju (ME)	2020102606	11-11-2020
33.	Enhanced Fingerprint Authentication System by Gabor Filter And Classification Dictionaries Learning	Dr. M. Srinivasa Rao (CSE)	202041047364	06-11-2020
34.	Conversion of Sliding Mode Controller to Grid Connected PV System for Boosting the Power for Inverter	Dr. K.Ramalingeswara Prasad (EEE) Dr. G. Nageswara Rao Dr.J Siva vara Prasad	202041048086	04-11-2020
35.	Conversion Based Fault Identifier in Three Phase Transformer using Wavelet Transform Technique	Dr. K.Ramalingeswara Prasad (EEE)	202041047385	30-10-2020

36.	Support Value Based Convolutional Neural Networks System for Internet of Things	Mr. Shaik Johny Basha (CSE)	202041043751	16-10-2020
37.	Method for Minimizing the Specific Absorption Values of the Multi-Homed Heterogeneous Wireless Devices	Dr. A. Narendra Babu (ECE)	2020102248	14-10-2020
38.	A Food Disposal Device	Dr. A. Narendra Babu (ECE)	202041036255	11-09-2020
39.	Human Sentiment Analysis: Neural Network-Based Human Sentiment Analysis Using Deep Learning Programming	Dr. D. Veeraiah (CSE)	202041035805	11-09-2020
40.	Surface Engineered Corrosion Free and Antibacterial Bio-Implants	J.Subba Reddy (ME)	202041040589 A	25-09-2020
41.	Multi Stage Sheet Bulk Metal Deformation Process Using Digital Image System	J.Subba Reddy (ME)	202041038431 A	11-09- 2020
42.	Low Energy Communicator Between External Programmer and Implantable Medical Devices Using BLE Technology	J.Subba Reddy (ME)	2020101619	26-08-2020

Details of Sponsored Research for the **A.Y.: 2020-21**

No. of Research Projects Completed: 02

S.No.	Faculty with Designation	Title of the Proposal	Funding Agency-Scheme	Amount Sanctioned & Date	Amount received in Rs. & Date	Duration & Status
1.	Mr. P. Siva Reddy & Mr. K. Ravikiran Yasaswi, Asst. Professor, MBA	Financing Issues of MSMEs' in Krishna District of Andhra Pradesh	ICSSR	3,00,000/- & 05.12.2019	1,20,000/- 9.06.2020 90,000/- 27.01.2021	1 Year & Completed
Other Grants						
2.	Dr.E.V. Krishna Rao, Professor, ECE	Modernization of ECAD Lab (VLSI & Embedded Systems Lab)	AICTE-MODROBS	9,37,000 /- & 26-03-2019	7,49,600 /- & 03-4-2019	Completed

No. of **Ongoing / Sanctioned** Research Projects during this AY: 05

S.No.	Faculty with Designation	Title of the Proposal	Funding Agency-Scheme	Amount Sanctioned & Date	Amount received in Rs. & Date	Duration & Status
1.	Dr. N.Sunil Naik Assoc. Professor, ME	Evaluation of Engine Parameters affecting the performance of Enzymatic Transesterification process using test fuel blends (ME)	SERB-EEQ	22,81,000 & 01-07-2018	11,30,000/- & 17.07.2019	3 Years & Ongoing
Other Grants						
2.	Dr.B. Srinivasa Rao (IT) Professor & HOD, IT	Modernization & Removal of Obsolescence of Cloud Computing Lab	AICTE-MODROBS	12,62,353/- 20-07-2020	10,09,882/ & 20 th July 2020	2 Years & Ongoing
3.	Dr. P.Vijaya Kumar Professor, ME	PRERANA-Programme Centre for SC/ST Students	AICTE - PRERANA	4,80,000	4,80,000 13 th Dec. 2019	2 Years & Ongoing
4.	Dr. Ch.V.Narayana Professor, CSE	Design and development of real time applications in	AICTE-MODROBS -Rural	10,75,000 & 16-5-2019	8,60,000/- & 06-3-2020	Ongoing

		the field of artificial intelligence				
5.	Dr. K. Harinadha Reddy Professor, EEE	Modernization & Removal of Obsolescence of Electrical Machines Laboratory	AICTE-MODROBS -Rural	15,88,334 & 16-5-2019	12,70,667- & 12-2-2020	Ongoing

Other Grants (STTP, FDPs, Travel Grants, Workshop/Conf. Grants etc) - 03

S.No.	Faculty with Designation	Title of the Proposal	Funding Agency-Scheme	Total Amount Sanctioned in Rs & Date, Duration	Amount received in Rs. & Date	Status
1.	Dr. G. Srinivasulu, Professor, ECE	Mixed Signal Design Approaches for Artificial Intelligence Processors	AICTE-STTP 28-12-2020 to 06-3-2021	2,86,667 /- & 10-8-2020	2,86,667 /- & 10 th Aug 2020	Completed
2.	Dr.K.Murahari Assoc. Prof. ME	Frontier of 3D Printing Technology and Its Industrial Applications	AICTE-FDP	4,77,833/-	30 th July 2020	Completed

Travel Grants for International Conferences - 01

S.No	Faculty, Name of the Conference, Duration	Country	Title of the Talk	Funding Agency - Scheme	Amount received in Rs. & Date
1	Dr. S. Naganjaneyulu Professor, Dept. of IT, IEEE 17 th International Conference On Cognitive Informatics & Cognitive Computing (ICCI*CC 2018)	USA	A Novel Feature Selection based Classification Algorithm for Real-Time Medical Disease Prediction	UGC-TG	Rs. 2,44,656/- & 19 th Feb. 2021

Details of Faculty Secured Ph.D. - 05

(CSE-01, ECE-02, IT-01 & MBA -01)

S.No.	Faculty with Designation	Date of Registration	Date of Awarding Ph.D.	Name of the University
1.	K. Naga Prasanthi Assoc. Prof, Dept. of CSE	01-04-2014	01-10-2020	Acharya Nagarjuna University
2.	K. Ravi Kumar Assoc. Professor, Dept. of ECE	08-02-2016	22-01-2021	JNTUK Kakinada
3.	P. Rakesh Kumar Assoc. Professor, Dept. of ECE	21-11-2013	03-09-2020	JNTUK Kakinada
4.	K. Lavanya Assoc. Professor, Dept. of IT	10-06-2014	27-08-2020	JNTUA, Ananthapuram
5.	T. Chandra Sekhar Yadav Asst Professor, SMS	14-9-2014	28-11-2020	Acharya Nagarjuna University
6.	Ch. Siva Sankar Babu Dept. of MECH	19-02-2014	20-02-2021 (Thesis Submitted)	Andhra University
7.	A. Naresh Kumar Dept. of MECH	19-02-2014	20-02-2021 (Thesis Submitted)	Andhra University

Details of Books/Chapters-30

ASE: 01, CE: 00, CSE: 08, ECE: 05, EEE: 04, EIE:01, IT: 04, ME: 03, FED: 01, MBA: 03 Total: 30

S.No.	Authors	Title of the Book	Publisher	Published Date	ISBN
1.	L. Prabhu, N. Kiran Jadediya, P. Gangadhar Venkata Ramana, and J. Srinivas ASE	Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering Title of Chapter: Numerical Investigation on Optimized Convergent Divergent Nozzle in 3S Separator Device	Springer	27-09-2020	978-981-15- 6619-6
2.	Dr. O. Ramadevi CSE	Introduction To Data Science	Immortal Publications	Sep-2020	978-93-5416- 648-8
3.	D. Srinivasa Rao CSE	Advances In Computational And Bio- Engineering Title of Paper : Frequent Item-Set Mining Using Lexicographical Sequential Tree Construction on Map Reduce Framework	Springer	Sep-2020	978-3-030- 46939-9
4.	Shaik Johny Basha CSE	An Introduction to Data Science, Data Scientist & Data Analytics	Immortal Publications	Sep-2020	978-93-5416- 648-8
5.	D. Srinivasa Rao CSE	Data Science: Issues, Challenges And Applications	Immortal Publications	Sep-2020	978-93-5416- 648-8
6.	M. Sitha Ram CSE	Data Preparation, Data Preprocessing & Data Wrangling: Key Skills To Become A Data Scientist	Immortal Publications	Sep-2020	978-93-5416- 648-8
7.	Shaik Johny Basha CSE	Machine Learning Algorithms For Data Science Beginners: A Comprehensive Review	Immortal Publications	Sep-2020	978-93-5416- 648-8

8.	Shaik Johny Basha CSE	A Study On Sentiment Analysis And Its Applications	Immortal Publications	Sep-2020	978-93-5416-648-8
9.	G.V. Suresh CSE	Mathematical Modelling Of Deterministic And Stochastic Models Of Infectious Disease	Immortal Publications	Sep-2020	978-93-5416-648-8
10.	Dr. Venkata Sudhakar Mupidi ECE	Modeling of IOT Enabled Parking Management using Mobile Application	Lambert Academic Publishing	29-06-2021	978-620-3-92776-4 (84 Pages)
11.	Dr. Srinivasulu Gundala M. Mahaboob Basha ECE	Basic and Advanced Multiplier Architectures	Lambert Academic Publishing	26-06-2021	978-620-3-92560-9 (53 Pages)
12.	Dr. Ravi Kumar Kandagatla ECE	Speech enhancement using statistical based and NMF approaches	Lambert Academic Publishing	14-05-2021	978-620-3-86086-3 (192 Pages)
13.	Dr.Y.Amar Babu ECE	Modelling and Design of Modified SDM based Network on Chip	Lambert Academic Publishing	17-03-2021	978-620-3-47103-8
14.	J. Babu, B. Ramesh Reddy, J. Doondi Kumar, N. Siva Govind, Baji Babu Mutte ECE	Shaped Beams for Circular Aperture Antennas (Conference Proceeding as Chapter)	Springer Part of Lecture Notes in Electrical Engineering Book Series	05-01-2021	978-981-15-8438-1 (page Number 169-178)
15.	Dr.G. Nageswara Rao EEE	AI Techniques for Harmonic Elimination in Cascaded Multilevel Inverter	Multidisciplinary Subjects for Research-IV, Volume-1 PP-234-237	Jan-21	978-1-716-20064-9
16.	Dr.K.Ramalingeswara Prasad, Dr.G.Nageswara Rao EEE	Power Quality Enhancement for Nonlinear Loads using Active Power Filter	Redshine Publication, Lunawada (Gujarat).	Mar-21	979-8-718-87865-3

17.	Dr.G.Nageswara Rao EEE	Intellegent Control Schemes for Harmonic Elimination in Cascaded Multilevel Invereter	AkiNik, Publications, New Delhi.	May-21	978-93-90846-55-9
18.	Dr. M.S.Giridhar Dr. P.Sobha Rani EEE	Multi-objective Pareto based Optimal Placement and Sizing of Solar PV and Wind Generation System	Advanced Aspects of Engineering Research	May-21	978-93-90888-46-7
19.	Marlapalli K, Bandlamudi R.S.B.P., Busi Rambabu, Pranav V., Madhavrao B. EIE	Chapter: A Review on Image Compression Techniques, In: Communication Software and Networks. Lecture Notes in Networks and Systems, vol 134.	Springer, Singapore	04-10-2020	978-981-15-5396-7
20.	Dr. B. Rama Devi, Ch. Sambasivarao IT	Detecting driving information for Transporting using AI Techniques	Immortal Publications	Sep-20	978-93-5416-648-8
21.	Dr. K. Anupriya IT	Applications of Data Science	Immortal Publications	Sep-20	978-93-5416-648-8
22.	Dr. K. Lavanya IT	IOT and AI Applications to fight COVID-19 Pandemic	Immortal Publications	Sep-20	978-93-5416-648-8
23.	S. Nagamani, K.Rajasekhar IT	Significance of Hadoop map reduce Process and Data flow in map reduce	Immortal Publications	Sep-20	978-93-5416-648-8
24.	Dr. Perumalla Vijaya Kumar&Dr.Kandimalla Apparao ME	Phase change materials for thermal management and energy conservation in buildings (BOOK)	Lambert Academic Publishing	01-11-2020	ISBN:978-620-3-02881-2
25.	K. Soma Sekhar, P. Vijay Kumar, B. Kamala Priya ME	An Experimental Investigation of Tube-in-Tube Type Heat Exchanger to Enhance Heat Transfer Using Titanium Oxide TiO ₂ -Water Nanofluid (Book Chapter)	Springer	10.03. 2021	ISBN 978-981-33-4164-7

26.	Dr.V.Dhana Raju, S.Rami Reddy ME	Effect of Nanoparticles in Bio-oil on the performance, combustion and emission characteristics of a diesel engine (Book Chapter)	Wiley Publisher	07.05.2021	978-1-119-79198-0
27.	Dr. V. Pawel FED	Family as an Oppressive Structure: A Study of Arundhati Roy's "The God of small Things" and Kiran Desai's "The inheritance of Loss".	Authors press	March 2021	978-93-90891-44-3
28.	Dr. V.V. N. Reddy MBA	Dynamic Business Trends and Innovations in Contemporary Times	Paramount Publishing House	01.12.2020 Book Editor	978-81-948876-3-8.
29.	Mr. P. Siva Reddy MBA	Equity Crowdfunding in Europe - A New Financial Phenomenon for Gen-Z Entrepreneurs			978-93-5457-696-6.
30.	Mr. P. Siva Reddy & K. RavikiranYasaswi MBA	Problems and Issues of Micro, Small and Medium Enterprises in Krishna District of Andhra Pradesh	Paramount Publishing House	01.12.2020	978-81-948876-3-8.

Details of Supervisors & Scholars during the AY 2020-21

- i. No. of Recognized Research Supervisors **35**
 ii. No. of Scholars Pursuing Ph.D. **47**
 iii. No. of Scholars Awarded Ph.D. **00**

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
						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.Ch. Murthy Tommandru	2020	Pursuing	6
		ECE	Apr. 2007	2008	JNTU-K	Mr. G. Venkata Rao	2019	Pursuing	
		ECE	Apr. 2007	2013	KLU	Mr.N. Ravi Kumar Reddy	2015	Pursuing	
		ECE	Apr. 2007	2013	KLU	Mr.B.Bhushan Babu	2014	Pursuing	
		ECE	Apr. 2007	2008	JNTU-K	Mr.A.Pavani	2012	Pursuing	
		ECE	Apr. 2007	2008	JNTU-H	J. Ravindra Babu	2008	Pursuing	
12.	Dr.G.L.N. Murthy	ECE	2018	2019	Annamalai	Mr. S. Ramakoteswara Rao	2019	Pursuing	1
13.	Dr.Y. Amar Babu	ECE	2018	2020	JNTU-K	Smt.Surekha Musali	2020	Pursuing	2
			2018	2018	Annamalai	Smt. M. Ramya Harika	2018	Pursuing	

14.	Dr. G. Srinivasulu	ECE	2017	2020	JNTU-K	N.A.	N.A.	N.A.	0
15.	Dr. B. Poornaiah	ECE	2016	2018	Annamalai	P. Bhavya	2018	Pursuing	2
					Annamalai	B. Sandeep	2018	Pursuing	
16.	Dr. T. Satyanarayana	ECE	2010	2018	Annamalai	M.B. Chakravarthi	2018	Pursuing	1
17.	Dr.J.Siva Vara Prasad	EEE	2018	2019	Annamalai	K.Girinadh Babu	2019	Pursuing	1
18.	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	
19.	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	
20.	Dr. M. S. Giridhar	EEE	2017	2019	JNTU-K	N.A.	N.A.	N.A.	0
21.	Dr. P. Shoba Rani	EEE	2016	2019	JNTU-K	N.A.	N.A.	N.A.	0
22.	Dr. K. R. L. Prasad	EEE	2017	2019	JNTU-K	N.A.	N.A.	N.A.	0
23.	Dr. G. Nagaeswara Rao	EEE	2017	2019	JNTU-K	N.A.	N.A.	N.A.	0
24.	Dr. A.V.G.A. Marthanda	EEE	2019	2019	JNTU-K	N.A.	N.A.	N.A.	0

25.	Dr. B. Rambabu	EIE	2016	2018	Annamalai	V. Vineela	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
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	2020	KLU	V. Kiran Kumar	2020	Pursuing	2
				2016	JNTU-K	Tejomurthi Pinjala	2016	Pursuing	
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
35.	Dr.V.Dhana Raju	Mech	2018	2020	KLU	S.Rami Reddy	2021	Pursuing	2