



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

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

Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada.

Accredited by NAAC with "A" Grade and NBA Tier-1 for ASE, CE, CSE, IT, ECE, EEE & ME.

An ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution.

## Research & Development Cell

Date: 12-10-2023

### Details of R & D Accomplishments during the A.Y.: 2022-23

i.	No. of SCI/ESCI papers	: 40/20
ii.	No. of Papers in Scopus indexed Journals	: 22
iii.	No. of Papers in Conf. Proceedings indexed by Scopus	: 110
	<b>Total Papers in SCI &amp; Scopus</b>	<b>: 192</b>
iv.	No. of Open Access Journals	: 30
v.	No. of Books/Chapters published	: 22/22
vi.	No. of Patents Published	: 45
vii.	No. of Research Projects Completed/Ongoing	: 02/01
viii.	Faculty pursuing Ph.D.	: 106
ix.	No. of Faculty Secured Ph.D.	: 11
x.	No. of Ph.D. Scholars awarded Ph.D.	: 02
xi.	Supervisors and Scholars	: 72 and 53

### R & D Publications for the A.Y.: 2022-23

(From 1<sup>st</sup> July 2022 – 30<sup>th</sup> June 2023)

			Details of Publications							
S.No.	Dept.	SCI	ESCI	Scopus-J	Scopus-C	Total	UGC/Open Access	Books	Chapters	Patents
1.	AI&DS	0	0	1	9	10	0	6	0	3
2.	ASE	1	0	0	2	3	0	0	0	1
3.	CE	0	0	1	4	5	0	0	1	0
4.	CSE	9	0	3	29	41	3	1	4	1
5.	ECE	6	10	4	26	46	8	11	8	8
6.	EEE	12	1	3	13	29	7	3	1	1+5
7.	IT	5	2	2	9	18	1	0	0	4
8.	ME	4	6	2	15	27	4	1	8	19
9.	MBA	0	0	1	0	01	5	0	0	3
10.	FED	3	1	5	3	12	2	0	0	0
<b>Total</b>		<b>40</b>	<b>20</b>	<b>22</b>	<b>110</b>	<b>192</b>	<b>30</b>	<b>22</b>	<b>22</b>	<b>45</b>

## **i. SCI/ESCI Papers**

### **SCI Papers: 40**

AI&DS: 0 ASE: 1 CE: 0 CSE: 9 ECE: 6 EEE: 12 IT: 5 ME: 4 MBA: 0 FED: 3 Total :37

#### **Department of Aerospace Engineering (ASE): 01**

1. **Effect of free boundary on the performance of single expansion nozzle, I. Dakshina Murthy, P. Lovaraju**, Ramachandra Raju Vegesna, International Journal of Turbo & Jet-Engines, Published online: 15<sup>th</sup> May 2023, <https://doi.org/10.1515/tjj-2023-0034>.

#### **Department of Computer Science Engineering (CSE): 09**

2. **A mass correlation based deep learning approach using deep Convolutional neural network to classify the brain tumor**, Gandhi Sathyanarayana, P. Appala Naidu, Venkata Subbaiah Desanamukula, Kadupukotla Satish Kumar, B. Chinna Rao, Biomedical Signal Processing and Control, Vol.81, 2023, ISSN: 1746-8094  
<https://www.sciencedirect.com/science/article/abs/pii/S1746809422008497?via%3Dihub>
3. **An optimized generalized adversarial system for predicting specific substructures in brainstem.** B. Srikanth, S. Jayaprada, K. Kranthi Kumar, Kavitha Chaduvula, Babu Rao Markapudi Syed Khasim, Multimedia Tools and Applications, ISSN:1573-7721/1380-7501  
<https://link.springer.com/article/10.1007/s11042-022-13663-9>
4. **Optimized CNN-based Brain Tumor Segmentation and Classification using Artificial Bee Colony and Thresholding**, P. Ashok Babu, B. V. Subba Rao, Y. Vijay Bhaskar Reddy, G. Rajendra Kumar, J. Nageswara Rao, Surendra Kumar Reddy, G. Sunil Kumar, International Journal of Computers Communications & Control, ISSN:1841-9844  
<https://univagora.ro/jour/index.php/ijccc/article/view/4577>
5. **Convolutional gated recurrent unit networks based real time monaural speech enhancement.** V. Sunny Dayal, Vaishnavi Anumola, Ponnappalli Tejasree, R. Divya and B. Manaswini, Multimedia Tools and Applications, May 2023.  
<https://link.springer.com/article/10.1007/s11042-023-15639-9>
6. **Prediction of biomedical signals using deep learning techniques**, Kalaivani, K. Kshirsagar, Pravin R, Sirisha Devi, Bandela, Surekha Reddy, Colak, Ilhami, Nageswara Rao, Rajaram, A. Journal of Intelligent & Fuzzy Systems: Applications in Engineering and Technology, 01-06-2023, 1841-9844,  
<https://dl.acm.org/doi/abs/10.3233/JIFS-230399>
7. **Gene expression data classification with robust sparse logistic regression using fused regularisation**, Kampa Lavanya, Pemula Rambabu, G. Vijay Suresh and Rahul Bhandari International Journal of Ad Hoc and Ubiquitous Computing, 01-04-2023,  
<https://www.inderscienceonline.com/doi/pdf/10.1504/IJAHUC.2023.130470>
8. **Detection of Malicious Cloud Bandwidth Consumption in Cloud Computing Using Machine Learning Techniques**  
D. Veeraiah, Mohanty R, Kundu S, Dhabliya D, Tiwari M, Jamal SS, Halifa, Computational Intelligence and Neuroscience, ISSN: 1687-5273/1687-5265,  
<https://www.hindawi.com/journals/cin/2022/4003403/>
9. **Security Protection Mechanism in Cloud Computing Authorization Model Using Machine Learning Techniques**, Pradeep Kumar Tiwari, K. Kannan, Duggineni Veeraiah, Nikhil Ranjan, Jain Singh, Ghalib H. Alshammri, Awal Halifa,

10. **The future development direction of cloud associated edge-computing security in the era of 5G as edge intelligence, Odugu Rama Devi** Julian Webber, Abolfazl Mehbodniya, Morsa Chaitanya, Parag S. Jawarkar, MukeshSoni and Shahajan Miah Hindawi Scientific Programming , ISSN:1058-9244,E-ISSN:1875-919X Volume 2022, Article ID 1473901, <https://doi.org/10.1155/2022/1473901>

#### **Department of Electronics and Communication Engineering (ECE): 06**

11. **Doppler Sodar measured winds and sea breeze intrusions over gadanki(13.5<sup>0</sup> N, 79.2<sup>0</sup> E), India,** Potula Sree Brahmanandam, G. Uma, K. Tarakeswara Rao, S.Sreedevi, N.S.M.P. Latha Devi, Yen-Hsyangchu, Jayas hree Das, K. Mahesh Babu, **A. Narendra Babu**,Subrata Kumar Das, V. Naveen Kumar, K. Srinivas, in Sustainability **June 2023**, ISSN: 2071-1050, <https://doi.org/10.3390/su151612167>
12. **Simultaneous Seismic Data Denoising and Recontruction with Attention based Wavelet-Convolutional Neural Network,** Vineela Chandra Dodda, **Lakshmi Kuruguntla**, Anup Kumar Mandpura, Karthikeyan Elumalai, in IEEE Transactions on Geoscience and Remote Sensing, April 2023, ISSN:1558-0644, [10.1109/TGRS.2023.3267037](https://doi.org/10.1109/TGRS.2023.3267037)
13. **Ensemble deep honey architecture for COVID-19 prediction using CT Scan and Chest X-ray images,** B.Bhaskar Reddy, **M.Venkata Sudhakar**, P.Rahul Reddy, P.Raghava Reddy, in Multimedia Systems, April 2023, ISSN: 1432-1882, <https://doi.org/10.1007/s00530-023-01072-3>
14. **Investigations on Complementary Split Ring Resonator(CSRR) array integrated printed conformal band pass filters for modern wireless communication applications,** KV.Vineetha, **P.Rakesh Kumar**, **A.NarendraBabu**, J. BramaiahNaik, BTP Madhav, Sudipta Das, Journal of Instrumentation, 17, Oct-22, 10043, 1748-0221, 10.1088/1748-0221/17/10/P10043
15. **Automotive communication applications based circular ring antenna with reconfigurability and conformal nature,** Tirunagari Anil kumar, B.T.P. Madhav, M. Venkateswara Rao, B. Prudhvi Nadh, **P. Rakesh Kumar**, International Journal of Communication Systems, Oct-22, 1099-1131, <https://doi.org/10.1002/dac.5364>
16. **Importance of the donor unit on fluoranthene for selective detection of nitro aromatic explosives,** Kasthuri Selvaraj, Praveen B, Sharmarke Mohamed, **Satyanarayana Talam**, Venkataramaiah Nutalapati, Journal of Photochemistry & Photobiology, A: Chemistry, 433, Aug-22, 114215, 1010-6030, <https://doi.org/10.1016/j.jphotochem.2022.114215>

#### **Department of Electrical and Electronics Engineering (EEE): 12**

17. **Assessment of integrated renewable energy system state through VFMF—A novel approach,** **K. Harinadha Reddy**, Electric Power Systems Research,Vol. 216, March2023,09056. <https://www.sciencedirect.com/science/article/pii/S0378779622011051>
18. **Improved tunicate swarm search–based MPPT for photovoltaic on a grid-connected inverter system ,** GodinaVenkata Lakshmi &**K. Harinadha Reddy**, Environmental Science andPollutionResearch,29, 78650–78665,13<sup>th</sup> June 2022, ISSN:0944-1344 <https://doi.org/10.1007/s11356-022-21157-2>.

19. **Machine Learning k-Means Cluster Support S-FSCV Algorithm to Estimate Integrated Network Operating State**, K. Harinadha Reddy, Arabian Journal for Science and Engineering., 48, pages2473–2488, 04<sup>th</sup>Oct. 2022  
<https://link.springer.com/article/10.1007/s13369-022-07356-6>.
20. **A deep CNN approach for islanding detection of integrated DG with time series data and scalogram**, Ch.Rami Reddy, K. Harinadha Reddy, Soft Computing, Volume27,Pages 4943-4951, April 2023, <https://link.springer.com/article/10.1007/s00500-022-07561-3>
21. **A robust passive islanding detection technique with zero-non-detection zone for inverter-interfaced distributed generation**, B.Pangedaiah, Y.P. Obulesu, Venkata Reddy. K, P.L. Santosh Kumar Reddy, Mamdouh L. Alghaythi, IEEE Access, Vol 10, Pages: 96296 – 96306, ISSN:2169-3536, Dec. 2022. <https://ieeexplore.ieee.org/document/9881501>
22. **Combined DC-Link Fed Parallel-VSI-Based DSTATCOM for Power Quality Improvement of a Solar DG Integrated System**, P.V.V.Satyanarayana, A. Radhika, Ch.RamiReddy, B.Pangedaiah, L.Martirano Electronics(MPDI) January 2023  
[doi.org/10.3390/electronics12030505](https://doi.org/10.3390/electronics12030505).
23. **Investigation and Minimization of Power Loss in radial distribution network using gray wolf optimization**. M.Alqahtani, P.Mari, V.Moorthy, B.Pangedaiah, Ch.Ramireddy, M. Kirankumar, M. Khalid, Energies, June 2023, 16, 4571, <https://doi.org/10.3390/en16124571>.
24. **A hybrid deep learning for patient activity recognition (PAR): Real time body wearable sensor network from healthcare monitoring system (HMS)**, Balasubramanian, Kishore, Prabu, A.V., Shaik, MahammadFirose, R. AnjaneyuluNaik, Suguna, S. Kanimozhi, Journal of Intelligent & Fuzzy Systems, Sep. 2022, doi.org/10.3233/JIFS-212958.
25. **Design of mobile robot navigation controller using neuro-fuzzylogic system** Divyendu Kumar Mishraa, Aby Thomasb, JinsaKuruwillab, P.Kalyanasundaram, K.Ramalingeswara Prasad, Anandakumar Haldoraie, Computers and Electrical Engineering, ISSN:1869-9391, Vol. 101, page 108044, 10<sup>th</sup> July 2022, <https://doi.org/10.1016/j.compeleceng.2022.108044>
26. **Maximum Power Point Tracking Algorithm Based on Particle Swarm Optimization to Capture Maximum Power from PV Strings**, G. Radhika, M. Raja Nayak, M. Saritha, RowthuPadma, T. Nagaraju, T. Santhosh Kumar, Sustainable Energy Technologies and Assessments, 53, ISSN: 2213-1388, October 2022. <https://doi.org/10.1016/j.seta.2022.102796>
27. **Is It Feasible to Reduce Academic Stress in Net-Zero Energy Buildings? Reaction from Chat GPT**, P.Sobha Rani., K.Radha Rani., D.SureshBabu., A. Ravi, Annals of Bio medical engineering' (Springer Nature), September 2022. <https://doi.org/10.1007/s10439-023-03286-y>
28. **Optimal renewable resource for enhanced performance of unbalanced radial distribution systems** Chintalapudi V. Suresh, Munigoti S. Giridhar, Ch. Naga Sai Kalyan1, K. Prudhvi Raju, Microsystem Technologies <https://doi.org/10.1007/s00542-022-05409-2>.

### Department of Information Technology (IT): 05

29. **A Hybrid Classification of Imbalanced Hyper spectral Images Using ADASYN and Enhanced Deep Subsampled Multi-Grained Cascaded Forest** Debaleena Datta, Pradeep Kumar Mallick, Annapareddy VN Reddy, Mazin Abed Mohammed, Mustafa Musa Jaber, Abed Saif Alghawli, Mohammed AA Al-qaness, Remote Sensing MDPI journal, ISSN:2072-4292, <https://www.mdpi.com/2072-4292/14/19/4853/>
30. **Integrated Design of Optimized Weighted Deep Feature Fusion Strategies for Skin Lesion Image Classification**, Niharika Mohanty, Manaswini Pradhan, Annapareddy V. N. Reddy, Sachin Kumar, Ahmed Alkhayyat Cancers MDPI journal, ISSN: 2072-6694

31. **An efficient brain tumor classification using MRI images with hybrid deep intelligence model**, **Annapareddy VN Reddy**, Pradeep Kumar Mallick, B Srinivasa Rao, Phaneendra Kanakamedala, The Imaging Science Journal(Taylor & Francis), ISSN:1368-2199.
32. **An empirical hybridized Siamese network using hypercube natural aggregation algorithm for handling imbalance data learning.**  
Subhashree Rout, Pradeep Kumar Mallick, **Annapareddy VN Reddy**, Meshal Alharbi, Ahmed Alkhayyat, Expert Systems Journal, ISSN:1468-0394.
33. **Prediction of chronic kidney disease from patient record using ensemble ranking SVM**  
Tatireddy Subba Reddy, **V. V. Krishna Reddy**, R. Vijaya Kumar Reddy, Chandra Sekhar Kolli, V. Sitharamulu&Majjaru Chandrababu, The Imaging Science Journal (Taylor & Francis), ISSN:1368-2199,

#### **Department of Mechanical Engineering (ME): 04**

34. Experimental Investigation of Aluminum oxide Nanofluid on Closed loop Pulsating Heat Pipe Performance **P.Venkataramana, P.Vijaya Kumar, B.Balakrishna**, Journal of Applied Fluid Mechanics, July 2022. ISSN: 1947-1955, [https://www.jafmonline.net/article\\_2116.html](https://www.jafmonline.net/article_2116.html).
35. Combined assessment of injection timing and exhaust gas recirculation strategy on the performance, emission and combustion characteristics of algae biodiesel powered diesel engine **Vallapudi Dhana Raju**, Jayashri N Nair, Harish Venu, Lingesan Subramani, Manzoore Elahi M. Soudagar, MA Mujtaba, T.M. Yunus Khan, Khadiga Ahmed, Ismail, Ashraf Elfakhany, Abdulfatah Abdu Yusuf, Badr A Mohamed & Islam M. R. Fattah  
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Sep 2022, ISSN: 1556-7036, <https://doi.org/10.1080/15567036.2022.2123068>.
36. Influence of Rotary Assisted Electrical Discharge Machining of 17-4PH Stainless Steel Using Taguchi Technique **Murahari Kolli**, Satyanarayana Kosaraju, Devaraju Aruri, &Medikondunageswararao, Indian Journal of Engineering & Materials Sciences, Vol. 29, pp. 799-806, January 2023, ISSN: 1955-2513 <https://doi.org/10.56042/ijems.v29i6.70267>.
37. Hybrid controller for battery operation in photovoltaic assisted EV charging station **S. Rami Reddy**, Saroj Kumar Sarangi International Journal of Electronics, Feb, 2023, <https://doi.org/10.1080/00207217.2023.2173806>

#### **. Freshmen Engineering Department (FED): 03**

38. Impact of copper ions on physical, structural, spectroscopic, and dielectric properties of  $\text{Bi}_2\text{O}_3\text{-CaO-P}_2\text{O}_5\text{-B}_2\text{O}_3$  glasses, **S. Yusub**, Y. Chaitanya, A. Ramesh Babu, V. Aruna, N. Sree Ram, Ch. Linga Raju, Materials Chemistry and Physics, 290(1), 22<sup>nd</sup> August 2022, pp.1-10, 0254-0584. <https://doi.org/10.1016/j.matchemphys.2022.126584>
39. “Electrical and spectroscopic characteristics of  $\text{B}_2\text{O}_3\text{-Bi}_2\text{O}_3\text{-Al}_2\text{O}_3\text{-MgO}$  glasses alloyed with MnO, **S. Yusub**, G. Krishna Priya, A. Ramesh Babu, N. Sree Ram, V. Aruna, J. Physics and Chemistry of Solids, 170(1), 22<sup>nd</sup> November 2022, pp:1- 11, 0022-3697. <https://doi.org/10.1016/j.jpics.2022.110957>
40. Nonlinear radiation phenomena for Casson–Maxwell nanoliquid flow with chemical reactions

K. Gangadhar, E.M. Victoria, **K. Bhanu Lakshmi**, A.J. Chamka, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 20<sup>th</sup> Sep. 2022, pp:1-11, 2041-3009,

<https://doi.org/10.1177/09544089221132356>



## ESCI Papers: 22

AI&DS: 0 ASE: 0 CE: 0 CSE: 0 ECE: 10 EEE: 1 IT: 2 ME: 6 MBA: 0 FED: 1 Total :22

### Department of Electronics and Communication Engineering (ECE): 10

1. **Studies on stability of polymer thick film resistors by using pulse voltage trimming method (PVTM), Poornaiah Billa, Y.SrinivasaRao in Journal of Active and Passive Electronic Devices, 17(1), 1-19, May 2023, ISSN: 1555-029X**  
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-17-number-1-2023/japed-17-1-p-1-19/>
2. **Implementation of 23 Gbps optical wireless link for 750 km inter-aircraft communications, M.Venkata Sudhakar, G.K. Rajani, Engineering Research Express, 5(1) February 2023, ISSN: 2631-8695, DOI: 10.1088/2631-8695/acbd89**
3. **Design of Near-threshold CMOS and TG Based Adder Circuit for Computing Applications, Basha, Gundala Srinivasulu, Busi Rambabu, , Naishadh kumar PV, Journal of Active and Passive Electronic Devices, 16(3), 191-201, December 2022, ISSN: 1555-029X,**  
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-16-number-3-2022/japed-16-3-p-191-201/>
4. **The influence of high voltage impulses on PVC-Graphite Thick Film Resistors, Busi Rambabu, T. Satyanarayana, Gundala Srinivasulu, Y. Srinivasa Rao, in Journal of Active and Passive Electronic Devices, 16(3), 225-231, Dec 2022, ISSN: 1555-029X**  
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-16-number-3-2022/japed-16-3-p-225-231/>
5. **Polyimide-based flexible antenna for Telemedicine and wireless applications, Prathipati Rakesh Kumar, B.Y.V.N.R. Swamy, B. Siva Hari Prasad, K. Rama Krishna, A. Narendra Babu, Potula Sree Brahmanandam, in Recent Advances in Electrical & Electronic Engineering, 16 (4), December 2022, 10.2174/2352096516666221201095009, 426-435, 2352-0965, <https://doi.org/10.3390/electronics10030334>**
6. **IoT framework for monitoring the condition of roads, Ravi Kumar Kandagatla, V. Jayachandra Naidu,P.S. Sreenivas Reddy, T.V. PreethikaLahari, J. Prudhvi, K. Kavya Sri, S. Dhanush, Journal of Engineering Science and Technology, 18(1), January 2023, 100-111, 1823-4690,**  
[https://jestec.taylors.edu.my/Vol%2018%20Issue%201%20February%20%202023/18\\_1\\_8.pdf](https://jestec.taylors.edu.my/Vol%2018%20Issue%201%20February%20%202023/18_1_8.pdf)
7. **A Novel approach for Wearable Antenna Design for Biomedical applications, K.Rani Rudrama, G.Catherine Christina, R. Teja, P.Niteesh Kumar, M. Anush, K.Srinivasa Rao, Transactions on Electrical and Electronic Materials, Aug-22, 2092-7592, [10.1109/TBCAS.2020.3010259](https://doi.org/10.1109/TBCAS.2020.3010259)**
8. **Internet of things based pesticide spraying robot- A revolutionary in smart Farming, A. Narendra Babu, Mahija Cherry Blossom, A. Praneetha, P. Shirisha, P. Mani Kishore, F. Mary Mounika, Indian Journal of Science and Technology, 15, 29, Jul-22, [10.17485/IJST/v16i22.926](https://doi.org/10.17485/IJST/v16i22.926)**
9. **Smart Energy Meter, A.Narendra Babu, Ch V L D Kavya, A. Praneetha, TT Sai Dhanush, TV Ramanaiah, K Nideesh, PS Brahmanandam, Indian Journal of Science and Technology, 15, 29, Jul-22, 1451-1457, 0974-6846, [10.17485/IJST/v15i29.1241](https://doi.org/10.17485/IJST/v15i29.1241)**

10. **Structural investigations of borate incorporated germanium antimonite glasses**, A. Pranav Kumar, S.HimaBindu, P.VenkateswaraRao, K.Naveen Kumar, M. Mohan, **T.Satyanarayana**, M.Sroda, P.Syam Prasad, Results in Chemistry, 4, Jul-22, 100449, 2211-7156, <https://doi.org/10.1016/j.rechem.2022.100449>

**Department of Electrical and Electronics Engineering (EEE): 01**

11. **Optimal Switching Operations of Soft Open Points in Active Distribution Network for Handling Variable Penetration of Photovoltaic and Electric Vehicles Using Artificial Rabbits Optimization**, VaraprasadJanamala, K. RadhaRani, **P. Sobha Rani**, A. N. Venkateswarlu, I. Sai Ram, Process Integration and Optimization for Sustainability, December 2022. <https://doi.org/10.1007/s41660-022-00304-9>.

**Department of Information Technology (IT): 02**

12. **A Tailored Particle Swarm and Egyptian Vulture Optimization-Based Synthetic Minority-Oversampling Technique for Class Imbalance Problem**, Subhashree Rout, Pradeep Kumar Mallick, **Annareddy V. N. Reddy** and Sachin Kumar Information Journal (MDPI), ISSN: 2078-2489, <https://www.mdpi.com/2078-2489/13/8/386>
13. **Chronic Kidney Disease Prediction Using ML-Based Neuro-Fuzzy Model** S Phani Praveen, Veerapaneni Esther Jyothi, Chokka Anuradha, **K VenuGopal**, Vahiduddin Shariff, and S Sindhura International Journal of Image and Graphics, ISSN :02194678, <https://www.worldscientific.com/doi/10.1142/S0219467823400132>

**Department of Mechanical Engineering (ME): 06**

14. Influence of Zr<sub>2</sub>O<sub>3</sub> nano additives on particle size diameter (PSD), mass fraction burnt (MFB) and engine characteristics of Jatropa biodiesel fuelled DI diesel engine, Harish Venu, Prabhu Appavu, **Dhana Raju V**, Australian Journal of Mechanical Engineering, July 2022, ISSN 1448-4846, <https://doi.org/10.1080/14484846.2022.2100042>
15. Finite Element modelling aspects in the failure assessment of a low pressure steam turbine blade Ravi prakash babu Kocharla, Raghu Bandlamudi, Devarau Aruri, **MurahariKolli**, Satyanarayana Kosaraju International Journal of Interactive Design and Manufacturing, Oct 2022, ISSN: 1955-2513, <https://doi.org/10.1007/s12008-022-01045-2>.
16. Optimization of Process Parameters for Preparation of Lanthanum Hexa-Aluminate Powders Using Combinatorial Approach of Taguchi-GRA and ACO Methods Kode Srividya, **Seelam Pichi Reddy**, Kurra Hari Prasad, Naga Sai Rama Krishna Thati, KilariSnehita, Unnam Sai Pranay, Naga Venkata Sairam Yellapragada, Annales de Chimie - Science des Matériaux, Vol. 47, No. 1, February, 2023, pp. 43-50. ISSN: 0151-9107. <https://iicta.org/journals/acsm/paper/10.18280/acsm.470106>
17. Prediction of recital characteristics of a ci diesel engine operated by bio-fuel extracts from cotton seed oil, linseed oil and mahua seed oil using ANN method, Srinivasa Reddy Kunduru, Hanumantha Rao Yarrapathruni Venkata, **DhanarajuVallapudi**, Narmatha Deenadayalan, Arul Raj Kumaravel, Journal of Thermal Engineering, Vol. 9, No. 2, 1-15, March 2023, ISSN: 2148-7847. <https://jten.yildiz.edu.tr/article/653>
18. Application of Taguchi – PCA/GRA Method to Optimize the Wear Behaviour of Polyester / Carbon Fibre Composites, Naga Venkata Sai Ram Yellapragada, Venkata Sai Kumar Madala, Sameer Kumar Devarakonda, Raqheeb Sadiq Mahaboob Ali Shaik, **Nageswara Rao Annamdasu**, Kondala Rao Dasari, Hasheer Shaik Mohammad, Revue des Composites et des



19. Effect of Graphite on Mechanical and Tribological Properties of Al6061/SiC Hybrid Composites, Mastan Rao Papabathina; **Siva Sankara Babu Chinka**; Nageswara Rao Putta; Murkonda Vijaya; Dhoria, Sneha, Annales de Chimie - Science des Matériaux, Vol 47, issue 3, pp: 125-132, ISSN: 0151-9107,  
<https://doi.org/10.18280/acsm.470301>

**Freshmen Engineering Department (FED): 01**

20. Carcinogenic Chromium (VI) Sensing Using Transducing Characteristics of Fiber Bragg Grating and Physical Swelling of Hydrogel, B. M. Pratima, **P. V. N. Kishore**, J. Ashok, M. Satyanarayana, P. Krishna Reddy, N. RajeswaraRao, D. Vijaya Lakshmi, Sensing and Imaging, 23(27), July-2022, pp:1-16,1557-2064.

## **ii. Papers Published in Scopus Journals: 23**

**AI&DS: 1 ASE: 0 CE: 1 CSE: 3 ECE: 4 EEE: 3 IT: 2 ME: 2 MBA: 1 FED: 5 Total :23**

### **Department of AI&DS: 01**

1. **A review based Investigation of Exploratory analysis in AI and Machine learning for a variety of Applications.**” Sirisha. J Sowjanya Vuddanti , J.V.N. Ramesh International Journal on Recent and Innovation Trends in Computing and Communication Page No.182-185 Volume 10 Issue.2 Dec-22 <https://doi.org/10.17762/ijritcc.v10i2s.5926>

### **Department of Civil Engineering (CE): 01**

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11. **A Study on Important Atmospheric Convective Indices and their Impacts on Aviation**, S.Sreedevi, A.Narendra Babu, P.S. Brahmanandam, G.Uma, A. Praneetha, G. Anil Kumar, V.NaveenKumar, M.P. Rao, European Journal of Applied Sciences, 10,4, Aug-22, 136-142, <https://doi.org/10.14738/aivp.104.12519>

#### **Department of Electrical and Electronics Engineering (EEE) -07**

12. **Fuzzy-based optimization and linear feedback fluid actuators for soft handheld robots**, Msampath Kulshrestha, V. Mahandiran, S., B., Kurikyala, P. Y, Marthanda. A. V. G. A, Ganesan, International journal of Health Sciences, 6(S3), ISSN NO: 11093-1114, Vol.22, No.5, Page: 132-137.2022. <https://doi.org/10.53730/ijhs.v6nS3.8732>.
13. **Modeling of Three phase diode bridge rectifier and boost converter for wind energy systems** Dr.J.SivaVaraPrasad, Mr.J.V.PavanChand, GIS Science Journal, Volume 9, issue 7 Page: 1889, August 2022, ISSN: 1869-9391, <https://drive.google.com/file/d/181zf9Biu1Z81SqNhv6XwdD9qUYpRXUbV9/view>
14. **Design and Implementation of a Hybrid System with Enhanced Power Smoothing Functionality using NN Controller**, G.Tabita., R.Gopi., M.ManiPradeep., D.Ramanjaneyulu,



15. **Flywheel Energy Based Energy Power Generator Grid-Connected VSC HVDC Performance Under Faults**, p venkatamaniSudha,**Dr.J.SivaVaraPrasad,Mr.J.V.Pavan Chand** Proceedings of the International Conference on Artificial Intelligence Techniques for Electrical Engineering Systems (AITEES 2022) ISSN978-94-6239-266-3\_21 [https://link.springer.com/chapter/10.2991/978-94-6239-266-3\\_21](https://link.springer.com/chapter/10.2991/978-94-6239-266-3_21).
16. **Maximum Power Point Tracking Algorithm Based on Particle Swarm Optimization to Capture Maximum Power from PV** I.DivyaSatyaSree, **P.Sobha Rani, T.NagaDurga**, Proceedings of the International Conference on Artificial Intelligence Techniques for Electrical Engineering Systems (AITEES 2022),15-10-2022, ISSN: 978-94-6239-266-3\_21[https://link.springer.com/chapter/10.2991/978-94-6239-266-3\\_21](https://link.springer.com/chapter/10.2991/978-94-6239-266-3_21).
17. **Securing Online Web Application for IoT Management**, Vivek.v, Narendrababu.R, **Dr.G.NageswaraRao**, S.Ahamad, Ankur Gupta, C.S.Suri, ICACCEST-2022, 04th-05th March,PG NP:1-4, ISSN:1530-8669, August 2022, <https://doi.org/10.1155/2022/3893875>.
18. **Intelligent Wheelchair Using Voice, Touch and Gesture Control by Smart Phone**, J.V. Pavan Chand, Ms.Sowmika s, 4th International Conference on Communication & Information Processing (ICCIP) 2022,July31,2022.SSRN:<https://ssrn.com/abstract=4326714> or <http://dx.doi.org/10.2139/ssrn.4326714>

#### **Department of Mechanical Engineering (ME) -04**

19. **Kamala Priya B**, Sravani V, Dilip kumar, Investigation of elliptical and square unit cell for the rediction of effective thermal conductivity, International journal for Innovative engineering and management research, Vol 11 Issue 09, Sep 2022, ISSN: 2456-5083.
20. An Optimisation Method of Construction for Warping Copper Plates and Engines Using Complete Block Designs with Some Special Types of Graphs P. Karthikeyan, K. Kalaiselvi, M. Pachamuthu, **Kanulla Karthik**, A. Johnson Santhosh, Advances in Materials Science and Engineering, Jan 2023, ISSN: 1687-8434, Special Issue : Article ID 9002743, <https://doi.org/10.1155/2023/9002743>
21. Optimizing wear of Al 6062 alloy using machine learning and tungsten carbide nanoparticles, Soundararajan S, E Srimathi, **Sudheer Kumar Battula**, R MalkiyaRasalin Prince, N Suresh, Neelam Rawat, V Jaiganesh, V. Sharun, European Chemical Bulletin, Vol. 12, Issue 6, March 2023, ISSN: 2063-5346.
22. Design of Green IoT for Sustainable Smart Cities and Eco-friendly Environment, K.Maheswari, Oluwadare Joshua Oyebode, M. Priscilla, Vikas Maheshkar, **k. Lakshmi Prasad**, Ch. Venkata Krishna Reddy, Sandeep Kumar, European Chemical Bulletin, Vol. 12, Issue 4, March 2023, ISSN: 2063-5346.

#### **Department of MBA -05**

23. Land Pooling Practicess in India- A Case study of Amaravathi and Magarpatta, Dr. Kovvali Bhanu Prakash , Dr. D. Surya Chandra Rao , **K. Ravi Kiran Ysaswi** Vol-11, Issue-11, Dec-2022, pg.no 278-283, 2278-0181,IJERT
24. A comparative study of customer satisfaction with online Banking Services WRT SBI HDFC Bank in Bangalore city, **Dr. D. Venkateswarlu**, Dr. N. Suresh Babu, Dr. P. Venkateswara Rao, June-2023, ISSN:2063-5346, European Chemical Bulletin.



25. Identifying and converting opt-in prospects at international markets, **Dr.K. Deepika**, Dr.GNR Prasad, Mr Bathula Prasanna Kumar, **June-2023, ISSN:2063-5346, European Chemical Bulletin.**
26. Business Intelligence in Finance: Impact of Tools and Analytics, **Dr.O. Naresh**, K.Archana, Dr. M Ashok, **June-2023, ISSN:2063-5346, European Chemical Bulletin.**
27. An assessment of potential appraisal on software industries in Hyderabad, Dr.T.Chandrasekaryadav, Dr.Meeravalishaik, **Mr.U.Rambabu**, Dr.Praveen Kumar, Vol-12, Issue-S6, pg.no: 29-39, MAY-2023 ISSN:2063-5346, European Chemical Bulletin.

### **Freshmen Engineering Department (FED) -02**

28. "Authorship Collaboration pattern in university news - A weekly journal of Higher Education from 2013 to 2022: An Evaluation", M.Doraswamy, **T. Sambasiva Rao**, University News, Vol.61, No.21 May 22- 28 , 2023, pp.9-16, 0566-2257.
29. "A Bi-Vector Fluid Dynamic Algebraic Approach Based on Vorticity, Stress-Energy Tensor, Helicity, Parity", **A. Rami Reddy and M. Srinivasa Reddy**, Mathematical Statistician and Engineering Applications, 71(4), 14<sup>th</sup> November 2022, pg: 8698-8704, ISSN: 2094-0343.

### **Department of IT -01**

30. Sudhakar kalva, **Naganjaneyulu Satuluri**, Stock Market Investment Strategy Using Deep-Q-Learning Network, Multi-disciplinary Trends in Artificial Intelligence. MIWAI 2023. Lecture Notes in Computer Science, vol 14078. Springer, Cham. [https://doi.org/10.1007/978-3-031-36402-0\\_45](https://doi.org/10.1007/978-3-031-36402-0_45)

## v. Details of Books/Chapters for the Academic Year 2022-23

AI & DS: 6, ASE: 0, CE: 1, CSE: 5, ECE: 19, EEE: 4, IT: 0, ME: 9, FED: 0, MBA: 0; Total: 44  
 Total Number of **Books: 22** Total Number of **Chapters: 22**

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
<b>Department of AI &amp; DS: 06 (Books: 6 &amp; Chapters: 0)</b>					
1.	<b>Editors:</b> Dr. O. Rama Devi V. Sowjanya P. Ashok	Research Algorithms in Real world Applications	Immortal Publications	Mar-2023	978-93-5780-385-4 <b>(Print Version)</b>
2.	<b>K. Sudhakar</b> Dr. KVNR Sai Krishna	Python experiments for Mechanical Engineers	SS Publications	Nov-2022	978-81-947453-3-4 <b>(Print Version)</b>
3.	<b>K. Sudhakar</b> Dr. KVNR Sai Krishna	Introduction to Industry 4.0 and It's future.	SS Publications	Oct-2022	978-81-947453-2-7 <b>(Print Version)</b>
4.	<b>S. Siva Rama Krishna</b>	Introduction to Data Science & Its Applications	SS Publications	Apr-2023	978-81-936640-8-7 <b>(Print Version)</b>
5.	Dr. S. Pushpa <b>Venkatesh Koreddi</b> Dr. K. Deepa Dr. N. A. Sheela Selvakumari	Artificial intelligence: Principles and concepts	Alpha International Publications	Dec-2022	978-939-59-7868-2
6.	<b>V. Sowjanya</b>	A Survey on Parkinson's Disease Diagnosis through Computer Assist	Scope of Federated Learning in Next Gen Industrial Systems	Dec-2022	978-93-5777-445-1 <b>(Print Version)</b>
<b>Department of CE: 01 (Books: 0 &amp; Chapters: 1)</b>					
7.	Dr. B. Sumanth Kumar, <b>Dr. V. Ramana Kollipara,</b> Dr. D. Rama Seshu	<b>Conf. Proceedings:</b> Environmental Concerns and Remediation  Proceedings of F-EIR Conference 2021 <b>Chapter 10:</b> Experimental Study on Fly ash and GGBS Based Geopolymer Corbels	Springer	Sep-2022	978-3-031-05984-1

SI.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
<b>Department of CSE: 05 (Books: 1 &amp; Chapters: 4)</b>					
8.	<b>Shaik Johnny Basha,</b> T. Ammannamma, A. Nageswari, Kolla Vivek	Data Structures and Algorithms with Java Script	Notion Press	Sep-2022	979-8888150924
9.	<b>Swathi Buragadda,</b> G.V. Rajya Lakshmi	<b>Book:</b> Recent development in Deep Learning Applications: Healthcare and agriculture  <b>Chapter 10:</b> A Comparative study on machine learning and Deep learning Techniques in Agriculture	Immortal Publications	Oct-2022	978-93-5680-798-3 <b>(Print Version)</b>
10.	<b>Kundeti Naga Prasanthi,</b> M.V.P. Chandra Sekhara Rao, Ch. Sudhasree, P. Seshu Babu	<b>Book:</b> Information Security and Privacy in the Digital World  <b>Chapter:</b> Enhanced Hybrid Privacy Preserving Data Mining	Intech Open	Nov-2022	978-1-83768-196-9
11.	<b>Swathi Buragadda,</b> Padmaja Grandhe K. S. R. Radhika, Srikanth Busa, D. Omkar Aviansh	<b>Book:</b> Advancement of Deep Learning and its Applications in Object Detection and Recognition  <b>Chapter 11:</b> An Extensive Study on Object Detection and Recognition using Deep Learning Techniques	Taylor and Francis Group River Publishers	May -2023	9781003393658
12.	<b>K. Devi Priya,</b> <b>V. Chandra Kumar,</b> V. Anusha	<b>Book:</b> Research algorithms in real world applications  <b>Chapter 11:</b> Breast Cancer Detection Analysis using Machine Learning algorithms	Immortal Publications	Feb -2023	978-93-5780-385-4 <b>(Print Version)</b>

SI.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
<b>Department of ECE: 19 (Books: 11 &amp; Chapters: 8)</b>					
13.	<b>Rajeswari</b> , N. Vinod Kumar, K.M. Suresh, N. Sai Kumar, K. Girija Sravani	<b>Book:</b> Machine Learning for VLSI Chip Design  <b>Chapter 4:</b> IoT-Based Smart Home Security Alert System for Continuous supervision	Wiley Online Library	June-2023	9781119910497
14.	<b>K. Sasi Bhushan</b> , U. Preethi, P. Naga Sai Navya, R. Abhilash, T. Pavan, K. Girija Sravani	<b>Book:</b> Machine Learning for VLSI Chip Design  <b>Chapter 7:</b> Investigation of Diabetic Retinopathy Level Based on Convolution Neural Network using Fundus images	Wiley Online Library	June-2023	9781119910497
15.	<b>B. Ramesh Reddy</b> , K. Bhargav Manikanta, P.V.V.N.S. Jaya Sai, R. Mohan Candra, M. Greeshma Vyas, K. Girija Sravani	<b>Book:</b> Machine Learning for VLSI Chip Design  <b>Chapter 8:</b> Anti-Theft Technology of Museum Cultural Relics using RFID technology (127-138)	Wiley Online Library	June-2023	9781119910497
16.	<b>Narendra Babu Alur</b> , Kurapati Poorna Durga, Boddu Ganesh, Manda Devakaruna, Lakkimsetti Nandini, A. Praneetha, <b>T. Satyanarayana</b> , K. Girija Sravani	<b>Book:</b> Machine Learning for VLSI Chip Design  <b>Chapter 10:</b> Design of Smart Wheelchair with health Monitoring System (161-170)	Wiley Online Library	June-2023	9781119910497
17.	<b>K. Rani Rudrama</b> , Mounika Ramala, Poorna Sasank Galaparti, Manikanta Chary Darla, Siva Sai Prasad Loya, K. Srinivasa Rao	<b>Book:</b> Machine Learning for VLSI Chip Design  <b>Chapter 11:</b> Design and Analysis of Anti-Poaching Alert System	Wiley Online Library	June-2023	9781119910497

SI.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
		for Red Sandalwood Safety (171-183)			
18.	<b>T. Anil Raju,</b> K. Srihari Ressay, Sk. Arifulla Rabbani, G. Suresh, K. Saikumar Reddy, K. Girija Sravani	<b>Book:</b> Machine Learning for VLSI Chip Design  <b>Chapter 12:</b> Tumor Detection using Morphological Segmentation with DSP processor TMS320C6748 (185-194)	Wiley Online Library	June-2023	9781119910497
19.	<b>P. Venkateswara Rao,</b> V. Hymavathi, L. Pavan Kumar, Ch. Ugandhar Venkata Sai Krishna	<b>Book Series:</b> Part of Smart Innovation, Systems and Technologies,  <b>Book:</b> Intelligent Manufacturing and Energy Sustainability, ICIMES 2022, 571-580  <b>Conference Paper:</b> Smart Watch for panic alert	Springer	June-2023	978-981-19-8497-6
20.	<b>P. Rakesh Kumar,</b> <b>B. Siva Hari Prasad,</b> K. Srilatha, Ch. Yogendra	<b>Book Series:</b> Part of Smart Innovation, Systems and Technologies,  <b>Book:</b> Intelligent Manufacturing and Energy Sustainability, ICIMES 2022,  <b>Conference Paper:</b> A Compact wideband rectangular patch antenna for wireless applications	Springer	June-2023	978-981-19-8497-6
21.	<b>Ch. Siva Rama Krishna,</b> M. Vasavathi, K. Hemanth Reddy, G. Jaswanth	<b>Book Series:</b> Part of Smart Innovation, Systems and Technologies,  <b>Book:</b> Intelligent Manufacturing and	Springer	June-2023	978-981-19-8497-6

SI.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
		Energy Sustainability, ICIMES 2022, <b>Conference Paper:</b> Heart disease prediction using Machine Learning			
22.	<b>M. Sambasiva Reddy</b>	<b>Book Series:</b> Part of Smart Innovation, Systems and Technologies <b>Book:</b> Intelligent Manufacturing and Energy Sustainability, ICIMES 2022, <b>Conference Paper:</b> Fire and Gas Detection System for Home and Industry Safety using ARM7 through ESP8266 Wi-Fi Module	Springer	June-2023	978-981-19-8497-6
23.	<b>Dr. E.V. Krishna Rao</b>	Part of Lecture Notes in Electrical Engineering Series: Advances in Signal Processing, Embedded Systems and IoT  Proceedings of Seventh ICMEET- 2022  Raspberry Pi Alive Human Detection Robot using PIR Sensor	Springer	May-2023	978-981-19-8865-3
24.	<b>Dr. A. Narendra Babu</b>	Part of Lecture notes in Electrical Engineering, Advances in Signal Processing, Embedded Systems and IoT, Proceedings of Seventh ICMEET- 2022.  Tropospheric Zenith Dela (TZD) for microwaves during	Springer	May-2023	978-981-19-8865-3



SI.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
		severe weather events over a few Indian stations			
25.	<b>Dr. Y. Amar Babu</b>	<b>Book Series:</b> Advances in Transdisciplinary Engineering  Alive Human Detection and Health Monitoring using IoT based Robot	IOS Press	Jan-2023	978-1-64368-360-7
26.	<b>Smt. K. Rani Rudrama</b>	<b>Book Series:</b> Advances in Transdisciplinary Engineering,  Intelligent Vehicle Safety and Security Monitoring System using ECU & VSU Technology	IOS Press	Jan-2023	978-1-64368-360-7
27.	<b>V.V. Rama Krishna</b>	<b>Book Series:</b> Advances in parallel Computing  Advances in parallel Computing Algorithms, Tools and Paradigms  Fire Detection using Deep Convolution Neural Network in Video Streams	IOS Press	Nov-2022	978-1-64368-314-0
28.	<b>V.V. Rama Krishna</b>	<b>Book Series:</b> Advances in parallel Computing Algorithms, Tools and Paradigms,  Smart Surveillance System using Fae and Optical Character	IOS Press	Nov-2022	978-1-64368-314-0

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
		Recognition for Secure Environment			
29.	<b>M. Venkata Sudhakar</b>	<p><b>Book:</b> Part of the Algorithms for Intelligent Systems book series (AIS)</p> <p><b>Chapter:</b> Simplified Design of IMC Tuned PID Controller for Integrating Process based on Maximum Sensitivity</p> <p><b>Conference:</b> Proceedings of International Conference on Communication and Computational Technologies</p>	Springer	Sep-2022	978-981-19-3951-8_7
30.	<b>G.L.N. Murthy, Rajesh Babu Nemani, M.Samba Siva Reddy, M.K. Lingamurthy</b>	<p><b>Book:</b> Cognitive Computing Models in Communication Systems</p> <p><b>Chapter:</b> Review on Detection of Neuromuscular Disorders using Electromyography</p>	Wiley Online Library	Sep-2022	9781119865070
31.	<b>Poornaiah Billa, Srinivasa Rao Y</b>	Studies on Stability Properties of Polymer Thick Film Resistors	Lambert Academic Publishing	Jul-2022	978-6204982656
<b>Department of EEE: 04 (Books: 3 &amp; Chapters: 1)</b>					
32.	<b>A.V. Ravikumar</b>	Basics of Number System	Lambert Academic Publishing	Jan-2023	978-620-5-64048-7

SI.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
33.	Dr. A. K. Srivastava Dr. M. Sudha Dr. V. P. Patil <b>Dr. A.V.G.A. Marthanda</b>	Internet of Things: A New Age Era of Technologies and Application	GCS Publishers India	June-2022	978-93-94304-12-3 <b>(Print Version)</b>
34.	Dr. K. R. Suja R. Meenakshi Reddy Dr. R. Premalatha <b>Dr. A.V.G.A. Marthanda</b>	Renewable Energy Sources	GCS Publishers India	Aug-2022	978-93-94304-54-3 <b>(Print Version)</b>
35.	Veeresh Rampur, Y. Prasanna Kumar, Santanu Das, Shahanawaj Ahamad, <b>G. Nageswara Rao,</b> Sushma Jaiswal and Ankur Gupta	<b>Book:</b> An Interdisciplinary Approach in The Post-Covid-19 Pandemic Era  <b>Chapter 8:</b> Detection and Analysis of Mental Stress in Online Learning Using IoT Devices	Nova Science Publishers, Inc	Sep-2022	979-8-88697-185-9 <b>(Print Version)</b>
<b>Department of ME: 09 (Books: 01 &amp; Chapters: 08)</b>					
36.	<b>Murahari Kolli,</b> J. Paulo Davim	<b>Book:</b> Waste Residue Composites	Walter de Gruyter GmbH & Co KG, Germany	Mar-2023	978-3-11-076640-0
37.	Pranta Barua, <b>V.Dhana Rau,</b> Manzoore Elahi M.Sodagar, Nazia Hossain	<b>Book:</b> Novel Feedstocks for Biofuels Production  <b>Part of the Book series:</b> <u>Clean Energy Production Technologies</u> (CEPT)  Animal Fat-Derived Biodiesel and Nano-Technology Applications	Springer, Singapore	Oct-2022	978-981-19-3581-7

SI.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
38.	<b>Seelam Pichi Reddy,</b> PV Chandrasekhara Rao, A. Nageswar Rao	<b>Book:</b> Waste Residue Composites <b>Chapter 5.2:</b> Effect of ball milling on compacting characteristics of Al-10% Al <sub>2</sub> O <sub>3</sub> -fly ash composites	Walter de Gruyter GmbH & Co KG, Germany	Apr-2023	978-3-11-076652-3
39.	<b>Murahari Kolli,</b> Krishna Kishore Mugada, Adepu Kumar, Sunkara Gopi Rakesh	<b>Book:</b> Waste Residue Composites <b>Chapter 1:</b> Next-generation waste residue composite materials	Walter de Gruyter GmbH & Co KG, Germany	Apr-2023	9783110766523
40.	Sai Naresh Dasari, <b>Murahari Kolli</b>	<b>Book:</b> Waste Residue Composites <b>Chapter 5.1:</b> Performance of economical aluminum MMC reinforced with welding slag particles produced using solid-state liquid metallurgical stir casting	Walter de Gruyter GmbH & Co KG, Germany	Apr-2023	9783110766523
41.	<b>Murahari Kolli,</b> Krishna Kishore Mugada, N. Jaya Prakash	<b>Book:</b> Waste Residue Composites <b>Chapter 8:</b> Applications of green waste composite	Walter de Gruyter GmbH & Co KG, Germany	Apr-2023	9783110766523
42.	<b>V. Dhana Raju,</b> Harish Venu., Jayashri N Nair, <b>M.B.S. Sreekar Reddy</b> and <b>J. Subba Reddy.</b>	<b>Book:</b> Nanotechnology for Advanced Biofuels: Fundamentals and Applications, A Volume in Micro and Nano Technology <b>Chapter 10:</b> CNTs based nano-fuels: Performance,	Elsevier Science Direct	Mar-2023	978-0-323-91759-9

SI.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
		combustion and emission characteristics			
43.	Jayashri N.Nair, Y.V.V. Satyanarayana Murthy, <b>V. Dhana Raju</b> and V. Sivaramakrishna.	<b>Book:</b> Nanotechnology for Advanced Biofuels: Fundamentals and Applications, A Volume in Micro and Nano Technology  <b>Chapter 8:</b> Ultrasonic dispersion of algae oil blends on diesel engine	Elsevier Science Direct	Mar-2023	978-0-323-91759-9
44.	Sai Naresh Dasari, <b>Sankararao Vinjavarapu</b> , Murali Mohan Cheepu	<b>Book:</b> Waste Residue Composites  <b>Chapter 4.2:</b> Effect of reinforcement particle size on LM-13-snail shell ash-SiC hybrid metal matrix composite	Walter de Gruyter GmbH & Co KG, Germany	Apr-2023	9783110766523

## **vi. Details of Patents for the Academic Year 2022-23**

**AI&DS: 3, ASE: 1, CE:0, CSE: 1, ECE: 8, EEE: 1+5, ME: 19, IT: 4, FED:0, MBA: 3**

**Total: 45**

Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Published Date
<b>Granted Category - 01</b>			<b>EEE-01</b>		
1.	A Method of Preventing Malfunction and Distant Relay due to Power Swing in Multi-Machine Systems	<b>Dr. M. Uma Vani</b> Dr. M. Ramamoorthy	1356/CHE/2011  <b>Grant Ref. No.:420972</b>	Date of Pub.: 26/10/2012	08/02/2023 <b>Granted Indian Patent</b>
<b>Patents under Published Category - 42</b>					
<b>AI &amp; DS-03</b>					
2.	Design and Prototyping of Quadra Parallel Manipulator with Endoscope End Position MEMS Accelerometer Based Control mechanism	Mr. Kalyan Dusarlapudi Dr. K Narasimha Raju <b>MrKattupalli Sudhakar</b> MrTiruvuri Charan Sai MrSankurathri Lokesh Babu MrPolasi Venkata Satya Kireeti Mr. Sumit Kumar Behera	202241037534	30/06/2022	08/07/2022
3.	Solar powered camera based kit for lead ions detection in water employing H <sub>2</sub> S gas	Dr. Rohit Pandey Dr S Suyambazhahan Dr. Shekaina Justin Dr. M. Sreenivasan <b>Kattupalli Sudhakar</b> Dr. B. Varun Kumar N.Ahamed Hussain Asif R. Jegadeesh Kumar S.Sivarajan Purushottam Balaso Pawar	202321025271	03/04/2023	05/05/2023
4.	Design and evaluation of an IoT system's machine learning security framework	Dr. Nandam Gayatri Dr.Venkata N Inukollu Narender Chinthamu Mr.Naresh Babu Merugu <b>Kattupalli Sudhakar</b> Dr.JyotiKharade Om Prakash Singh Mrs.S. Biruntha Dr. Mauparna Nandan Mrs. Avula Geethanjali	202341025123	02/04/2023	05/05/2023
<b>ASE-01</b>					



Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Published Date
5.	Semi-Automated Farming Structure	Raghava Sai Murthy Puppala, Gopinath Chowdary Ponnaganti, Dr. Venkateswarlu Alapati, Naga Bagradwaj Purighella, Sricharan Snagala, Gaurav S Kumar, <b>Simhadri Indrasena Reddy</b> , Dr. P. Phani Prasanthi	129522 <b>(Design Patent)</b>	30/11/2022	21/02/2023
<b>CSE-01</b>					
6.	An IoT based Autonomous Robot Monitoring System	Dr. D. Venkata Subbaiah	1195896 <b>(Design Patent)</b>		19/01/2023
<b>ECE-08</b>					
7.	T - Slits on Circular Patch Antenna System and Method to Establish IoT Applications	<b>Dr. E.V. Krishna Rao</b> Gadameedi Dinesh Kumar, Bhukya Srinivasarao U.V. Ratna Kumari M. Sree Ram Kiran Kethavath Kumar Nayak	202241075829 <b>(AICTE-KAPILA)</b>	27/12/2022	06/01/2023
8.	A Rectangular A-Shaped Microstrip Patch Antenna with Defected Ground Structure for Wireless Communications	<b>Dr.P.Rakesh Kumar</b> , Dr. E.V.Krishna Rao, A. Uma Maheswari, Y. Sirisha, K. Kushal Kumar, D. Pavan Gurudev	202341002404 <b>(AICTE-KAPILA)</b>	12/01/2023	17/02/2023
9.	An Artificially Intelligent Smart Medical System using Soft Computing	<b>Dr. Poornaiah Billa</b> Dr. Satyanarayana Talam Dr. Rambabu Busi Dr. E.V. Krishna Rao	202341002403 <b>(AICTE-KAPILA)</b>	12/01/2023	17/02/2023
10.	A Fully Automated Vehicle Control System using System on Chip Technology	<b>Dr. G.L.N. Murthy</b> Mr. M.K. Lingamurthy, Mr. M. Samba Siva Reddy	202341002405 <b>(AICTE-KAPILA)</b>	12/01/2023	17/02/2023
11.	A Tide Wave Energy Harvester using the Piezoelectric Unimorph Cantilever Beam	<b>Dr. Satyanarayana Talam</b> Dr. E.V. Krishna Rao Dr. Rambabu Busi Dr. Poornaiah Billa	202241053891 <b>(AICTE-KAPILA)</b>	21/09/2022	30/09/2022
12.	Smart Voltage Level Shifter for Nano-Device Applications	<b>Dr. Srinivasulu Gundala</b> <b>Dr. Y. Amar Babu</b> <b>Mr. N. Dharmachari</b> <b>Mr. Gummadidala Venkata Rao</b>	202241075343 <b>(AICTE-KAPILA)</b>	26/12/2022	30/12/2022
13.	Hand Gesture Recognition System Using Machine Learning Algorithm for Physically Challenged People	<b>Dr. Srinivasulu Gundala</b> <b>Dr. E. V. Krishna Rao</b> <b>Dr. Y. Amar Babu</b> <b>Dr. T. Satyanarayana</b>	202241075342 <b>(AICTE-KAPILA)</b>	26/12/2022	30/12/2022

Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Published Date
14.	Computer Aided Diagnosis System for Cancer Histology Images using Discriminative Patches based on Clustering and Deep Learning	Mr.G.Vijay Kumar Mr.P.Murali Krishna Mr.U.Dhanunjaya Mr.P.R.Rajesh Kumar Mrs.Earli.Manemma Dr. Adluri Phanindra <b>Mrs.Pavani Kollamudi</b> Mrs.C.Nagamani Mr.Adepu Rajesh Mr.Satyabrata Jena	202241068607	29/11/2022	23/12/2022
<b>EEE -05</b>					
15.	A Machine Learning Algorithm to Assess Autism and its Symptoms in Computer Vision Technique Tools	Dr. S. Roselin Mary Priya C B Dr. C. Gnana Kousalya <b>Dr. A.V.G.A. Marthanda</b> Dr. G. Rohini Dr. R. Ramkumar Dr. R. Thiagarajan Ms. J. Omana	202241046403	16/08/2022	26/08/2022
16.	A Robust Optimal Controller for Generator Side Converter of Wind Driven Energy Conversion System	<b>Dr. Konda Ramalingeswara Prasad</b> <b>Dr. Janapati Siva Vara Prasad</b> <b>Dr. Gudupudi Nageswara Rao</b>	202241053890 (AICTE-KAPILA)	21/09/2022	30/09/2022
17.	Robotic application based Smart and Self analysis of Electric Vehicles Fault Identification and Rectification	<b>Dr. Gudipudi Nageswara Rao</b> Dr. Yogendra Rathore Dr.Manish Shrimali S.Sakthi Anand Goswami Vivek Dubey Rashi Goswami Malini T Dr Annal Ezhil Selvi S <b>Jonnala Subba Reddy</b> Samraat Sharma Prabhdeep Singh	202241048681	26/08/2022	02/09/2022
18.	Designing a framework of IOT integrated with PV solar cells to increase the renewable energy extraction by capturing the solar rays	<b>Dr.G.Nageswara Rao</b> Dr. Pradosh Kumar Sharma Sanjay Srivasthava Mukesh Kumar MD Ahsan SJ Khanam Mohd Esa Dr.Shweta Rani Dr.Sumit Kumar Gupta Dr.Animesh Kumaer Sherma Stinivasan C P.Velmurugan	202241056904	02/09/2022	18/08/2022

Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Published Date
19.	Robotic Application Based Smart and Self Analysis of Electric Vehicles Fault Identification and Rectification	<b>Dr.Gudipudi Nageswara Rao</b> Dr.Yogendra Rathore Dr.Manish Sharimali S.Sakthi Anand Goswami Vivek Dubey Mohd Esa Malini T Dr.Annal Ezhil Selvi S <b>Jonnala Subba Reddy</b> Samraat Sharma Prabhdeep Singh	202241048681	02/09/2022	26/08/2022
<b>IT-04</b>					
20.	A Computational System that Computes Network Condition in Cloud Based Software as a Service (SaaS)	<b>Dr. Annapareddy V. N. Reddy</b> <b>Dr. Kampa. Lavanya</b> <b>Dr. B. Srinivasa Rao</b> <b>Dr. E. V. Krishna Rao</b> <b>Phaneendra</b> <b>Kanakamedala</b>	202241075345 <b>(AICTE-KAPILA)</b>	26/12/2022	30/12/2022
21.	Reliability-Driven Time Series Data Analysis in Multiple-Level Deep Learning Method	<b>Dr. Kampa. Lavanya</b> <b>Dr. B. Srinivasa Rao</b> <b>Dr. E. V. Krishna Rao</b> <b>Sarvani Anandarao</b> <b>Gollamandala Vijaya</b> <b>Suresh</b> <b>Dr. Annapareddy V. N. Reddy</b>	202241075344 <b>(AICTE-KAPILA)</b>	26/12/2022	30/12/2022
22.	An AI-based System for Enhancing Conversational Abilities and Personality Development and Method Thereof	<b>Dr. Satuluri</b> <b>Naganjaneyulu</b> <b>Mrs. R. Pavithra</b> <b>Mr. M. Vijay Kumar</b> <b>Mr. K. Rajasekhar</b>	202341007075	03/02/2023	24/02/2023
23.	Artificial Intelligence (AI) Based Pedagogical System for Progressive Skill Development	<b>Mr. G. Rajendra</b> <b>Dr. Buraga Srinivasa Rao</b> Mr. Cheruku Poorna Venkata Srinivasa Rao Mr. P. V. V. S. D. Nagendrudu	202341007077	03/02/2023	24/02/2023
<b>MECH-19</b>					
24.	Machine Learning based prediction of recommended song selections based on the people mindset using the dataset of age and emotional words using deep learning algorithm	Dr. L. Bharathi Dr. Govindraj B. Chittapur Amogh Babu K A V. Senthil Kumar Dr. P. Banu Priya Dr. Subhabrata Banerjee <b>Mr. Jonnala Subba Reddy</b> B.Tapasvi	202241038948	06/07/2022	22/07/2022

Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Published Date
25.	A Smart and Handy Cleanser for Fabrics	Dr. V. Anantha Lakshmi Dr. Sridhar S Dr. Gangadhar N B. Amarnath Naidu Vemula Venkatakondaiah <b>Jonnala Subba Reddy</b>	202241042605	26/07/2022	29/07/2022
26.	Hygiene Robotic-based Agricultural Practices to Maintain the Crops from inferring their growth with Unwanted plants and weeds by avoiding Nutrition Sharing	Dr. Mahesh Mallampati Sharada K A Dr.S.M.Ramesh Dr Rajbhoj Balaji Govindrao Dr.VinothKumar.V Pradip Kumar Saini Preeti Avasthi <b>Jonnala Subba Reddy</b>	202241042295	23/07/2022	29/07/2022
27.	IoT, Big Data science & Analytics, Cloud Computing and Mobile App based Hybrid Model for Healthcare Management System	Dr. T. S. Sasikala Archana V Nair S Dr.S.Raju Mrs. Anjana S Dr Anuradha Sarkar Rejini K Dr. S. Srinivasan Dr. Naresh Kumar U <b>Jonnala Subba Reddy</b>	202241043737	29/07/2022	12/08/2022
28.	Designing an Artificial Intelligence module for analyzing Six Sigma-based Approaches to Business Practices in Manufacturing, Services, and Production	Dr N Priyadharshini Dipesh Daddelal Uike Dr.K.Kalaivani Kalpanadevi D Bhola Khan R. Veerappan Prof. Surendra Ramesh Sawardekar Dr.A.Sumithra <b>Jonnala Subba Reddy</b> Dr.A.Sasi Kumar Dr. Animesh Kumar Sharma Mr. Shyamal Mandal	202241045393	09/08/2022	19/08/2022
29.	Artificial Intelligence and Machine Learning based approach to Predict the preferences of target customers for various Marketing Strategies	A. Priyadharshini Suman Devi Dr. Syed Asadullah Hussaini Dr. Vikas Tripathi Dr. Mohammed Azam Dr. Urmilla Sarkar Dr. Gurumeet Wadhawa <b>Jonnala Subba Reddy</b> Dr. G. Sudhagar Prof (Dr). Nitin Girdharwal Prof. Jitendra Charan Dr. A. Sasi Kumar	202241045453	09/08/2022	19/08/2022

Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Published Date
30.	Artificial Intelligence based system along with IoT Alert Mechanism to Predict the Occurrence of Earthquake and Safeguard the Buildings from its Disastrous Effects	Dr. R. Vijay Kumar Dr. Deepak Nathuji Kakade Dr. Droupti Yadav Ruthra R Suvarna Devidas Kamble Dr. Shweta Rani NyathaniMaramu Dr. Ravindra D Nalawade Dr.P.Arulprakash Prof.S.Pranavan Dr.A.Sasi Kumar <b>Jonnala Subba Reddy</b>	202241046666	17/08/2022	26/08/2022
31.	A smart robot to manage and Monitor the Covid 19 patients along with treating them by reducing the burden on medical practitioner	Ajith V S Swati Trivedi Akriti Pal Dr. Droupti Yadav Yadvendra Dutt Shukla Neha Srivastava Ankur Srivastava <b>Jonnala Subba Reddy</b> Mohd Esa Banupriya V Dr. Nagsen Samadhan Bansod Umesh Chandra Pandey	202241046505	16/08/2022	26/08/2022
32.	Systematic approach to analyse the impact of utilising the aspects of green building in construction technology	Dr. S. M. Subash Dr. Deepak Kakade Dr.M.Chittaranjan Ravindra Kumar Goliya Pavan Kumar Thimmaraju Dr. Ravindra D Nalawade Dr.Rashmi Trivedi Dr. Droupti Yadav Prof. S.Pranavan <b>Jonnala Subba Reddy</b> Digambar Balasaheb Patil Mr. Nishant Anantrao Upadhye	202241048680	26/08/2022	02/09/2022
33.	Machine Learning approaches to for Improving the Automatic Solar Light Tracking System for Energy Efficiency	Sudeshna Surabhi Dr. T. Jeya Shree R. Kiranmayi Md Ahsan Anjum Ayyaj Patel Ekta Menghani Rashi Goswami <b>Jonnala Subba Reddy</b> Dr. K. Boopathy Dr. Subhash Chander Dr Sumit Kumar Gupta Samraat Sharma	202241050110	02/09/2022	09/09/2022

Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Published Date
34.	Machine Learning based approach to analyse the Characteristics of Various Nano Materials and their impact in Improving Agricultural Yield	Ramya M Dr. Vishal Mehta Dr. Deepa Sharma Preethi Vasanthakumar Tekle Leza Dr. Piyush Thakur Kumud Tanwar Dr. Swati Jha Karthi K <b>Jonnala Subba Reddy</b> Dr Vishnu Kiran Manam Dr.ThimmaiahBayavanda Chinnappa	202241052856	15/09/2022	07/10/2022
35.	Thermal Analysis Of Polymer-Modified Road Bitumens	Dr.S.Sathees Kumar Dr.Shashishankar.A Dr. S. Sheeju Selva Roji Dr. Katakam Satyanarayana MrsManepalli.Sailaja Mr. Ankush BalajiraoKhansole Mr. Chandresh M. P. Dr. R. Meenakshi Reddy Mr. Sakthi <b>Mr.Kolagotla Venkateswara Reddy</b>	202241062488	02/11/2022	11/11/2022
36.	Smart Robotic Application Integrated With Internet Of Things Techniques To Automate The Process Of Physiotherapy Exercises	Dr. Vadhri Suryanarayana Dr Priyanka Sethi Dr Preeti Saini Dr. Ganesh K Khushboo Sharma Prof.NiranjanBarnwal <b>A Nageswara Rao</b> Dr. Bhasker Pant	202241040814A	17/07/2022	29/07/2022
37.	Design And Fabrication of Multi Functional Air Conditioning System	<b>B. Kamala Priya.</b> Dr. K. Dilip Kumar, P. Mounika, I. Bindu, B. Sudheer Kumar, <b>B. Udaya Lakshmi,</b> A. Dhanunjay Kumar, Kiran Sai Gorle, C. Trishit	202341011370	20/02/2023	24/03/2023



Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Published Date
38.	Predicting the industrial maintenance based on iot and ant colony optimization algorithm	Dr.Yogesh Pal Keerti Patil Ravindra Kumar Yadav Subasish Mohapatra Subhadarshini Mohanty <b>Dr. Siva Sankara Babu Chinka</b> Sindu Devi J Prof. Dr. E. Daniel Francis Dr. Deepak Dalal Dr. Mamta Sharma Dr. Animesh Kumar Sharma Dr. Pasupuleti Subrahmanya Ranjit	202311025408	04/04/2023	19/05/2023
39.	Ultra light weight natural fiber composites for aerospace applications	Sivasubramanian palanisamy Santhosh kumar D Kumaran Prema Kumar <b>Sudher kumar Battula</b> Dr. P.C Krishnamachary Dr. P. Suresh Kumar M.Sudhakar	202321032319	08/05/2023	16/06/2023
40.	A Smart and Collapsible Space-Saving Head Guard for Riders	Dr. Venkateswarlu Reddy Siripireddy M. Anand Dr. K. Anandan Dr. Avinash Gudimetla <b>Seelam Rami Reddy</b> Dr. Sanjit Kumar Dash	202341020328	23/03/2023	07/04/2023
41.	Smart and Compact Foldable Storage System	Ch. Leela Naga Deepika Dr. Katta Subba Rao <b>Seelam Rami Reddy</b> Dr. Reema Mathew A. Dr. H. Parthasarathi Patra Dr. Punyaban Patel	202341020183	22/03/2023	31/03/2023
42.	An Apparatus for the Friction Stir Process	Dr. K. Satyanarayana <b>Dr.Murahari Kolli</b> K. Raj Kiran Abdul Chan Basha	202341040400	14/06/2023	30/06/2023

## MBA-03

43.	Investigation Sustainable Business Growth Via Human Recourse Management	Dr.K Mallikarjuna Rao Prof Meera Mathur <b>Dr. T. Rajasekhar</b> Ms.VasudhaKurikala Dr. Mora Murali Dr. Rajesh B. Survase Prof. Manoj Kumar Mishra Dr Amrita Chaurasia Dr.P.Gurusamy Ms.Saswati Jena Dr.Manoj Kumar Katual Dr. Harikumar Pallathadka	202241038950	06/07/2022	22/07/2022
44.	Analysis of Social Media Marketing Is A Part of Marketing Plans for Small and Medium Sized Business	Dr. Manish Joshi Mr. Kaushik KumarRatilal Dalvi Mr. Shyam Sundar J Prof. Manoj Kumar Mishra <b>Dr T. Rajasekhar</b> Dr.P.Gurusamy Ms.Saswati Jena Mrs.Chitsimran Mr. Sumit Kumar Lt.(Dr) Seema Singh Dr.Manoj Kumar Katual	202221037119	28/06/2022	15/07/2022
45.	Design of A Smarter and Automated Delivery Systems for E-Commerce Sites for Safer and Tracked Delivery of Ordered Products	Dr. M Aklimuthu <b>Dr. Naresh Ogirala</b> Mr. B.D Patil, Dr Vivek Dube T Jaya Sivakumar Dora Shwetha S M, Subha N Rinkoo Bhatia Dr. DeekpakSamptha Kumar Vikas Sharma Dr. Rupa Kanna Malhotra Dr. Manoj Kumar	202241049723	31/08/2022	09/09/2022

## vii. Details of Sponsored Research

- i. No. of Research Projects **Completed** : 02
- ii. No. of Grants **other than Research Projects** Completed : 02
- iii. No. of **Ongoing / Sanctioned** Research Projects during this A.Y. : 01
- iv. Total **Funds mobilized** from Funding Agencies during this A.Y. : Rs. 25,67,337

### Research Projects

S.No.	Faculty with Designation	Title of the Proposal	Funding Agency-Scheme	Amount Sanctioned & Date	Amount Received in Rs.& Date	Duration & Status
1.	Dr. B. Rambabu Professor &HoD Dept. of <b>EIE</b>	Development and Characterization of Miniaturized Piezoresistive Cantilever for Biosensors	SERB-EEQ	27,96,332 & 17/12/2022	14,71,000 & 02/03/2023	3 Years & <b>Ongoing</b>
2.	Dr. V. Rama Krishna Professor &HoD Dept. of <b>Civil</b> Engg.	Geospatial Analysis and Development of Knowledge Dissemination of Resources to Combat COVID-19 and Similar Pandemics in the Villages of Mylavaram and G. Konduru Mandals of Krishna district, Andhra Pradesh	DST-NGP	17,67,084 & 24/11/2021	17,30,000 & 18/12/2021 22/12/2021	9 Months & <b>Completed</b>
3.	Dr. N. Sunil Naik Assoc. Professor Dept. of <b>Mech.</b> Engg.	Evaluation of Engine Parameters affecting the performance of Enzymatic Transesterification process using test fuel blends	SERB-EEQ	22,81,000 & 01-07-2018	11,30,000/- & 17/07/2019	3 Years & <b>Completed</b>

**Other Grants (MODROBS, STTP, FDPs, TG, Workshop/Conf. Grants etc) - 03**

S.No.	Faculty with Designation	Title of the Program	Funding Agency-Scheme	Total Amount Sanctioned in Rs & Date, Duration	Amount received in Rs. & Date	Status
1.	The Principal	Patent Filing Financial Assistance (Two Patents filed)	AICTE-KAPILA	Rs. 5,600 & 22/09/2022	Rs. 5,600 & 22/09/2022	Completed
2.	Dr. J. Siva Vara Prasad Dr.K.R.L. Prasad Dept. of <b>EEE</b>	Internet of Things Based Green Energy Technologies (17/10/2022 to 29/10/2022)	AICTE – ATAL FDP	Rs. 3,00,000 & 07/09/2022	Rs. 2,38,000 & 14/10/2022	Completed
3.	Dr. D. Veeraiah Dr. P. Bhagath Dept. of <b>CSE</b>	Data Analysis Tools & Techniques for Text and Speech Analytics (14/11/2022 to 25/11/2022)	AICTE – ATAL FDP	Rs. 3,00,000 & 07/09/2022	Rs. 2,38,000 & 14/10/2022	Completed
<b>Pending amounts released for already completed projects:</b>						
4.	Dr. E.V. Krishna Rao Dept. of <b>ECE</b>	Modernization of ECAD Lab (VLSI & Embedded System Lab)	AICTE& MODROBS	Rs. 9,37,000 & 14/03/2019	Rs. 46,850 & 23/01/2023	Completed earlier
5.	Dr. B. Srinivasa Rao Dept. of <b>IT</b>	Modernization & Removal of Obsolescence of Cloud Computing Laboratory	AICTE& MODROBS	Rs.12,62,353 & 20/07/2020	Rs. 2,50,220 & 17/10/2022	Completed earlier
6.	Dr. K. Harinadha Reddy Dept. of <b>EEE</b>	Modernization & Removal of Obsolescence of Electrical Machines Laboratory	AICTE& MODROBS Rural	Rs. 15,88,334 & 16/05/2019	Rs. 3,17,667 & 06/10/2022	Completed earlier

## viii. Faculty Pursuing Ph.D.: 106

S.No.	Name of the Faculty	Supervisor/ Co-Supervisor	Date of Registration	University	Area of Research
<b>AI &amp; DS-08</b>					
1.	Mrs.T.S. Raja Rajeswari	Dr. Sandeep Kumar Dash	01/02/2022	NIT-MZ	Natural Language Processing
2.	Mr. K. Sudhakar	Dr.M.J. Stephenson	01/08/2017	Andhra University	Cloud Computing services
3.	Mr. P. Narendra	Dr. Ajoy Kumar Khon	22/08/2022	Mizoram University	Federated Learning
4.	Mr.D. SrinivasaRao	Dr.V.Sucharitha	16/01/2014	KLEF	Data Mining
5.	Mr. K.Venkatesh	Dr.K. Suhashini	19/09/2019	Annamalai university	Deep Learning
6.	Mrs.V.Sowjanya	Dr A.SriNagesh	02/06/2022	Acharya Nagarjuna University	Deep Learning
7.	MrV.Chandra Kumar	Dr.R.Kalpana	17/11/2022	Pondicherry University	Machine Learning
8.	Mr.P.Gandhi Prakash	-----	25/01/2023	JNTU - Kakinada	Machine Learning
<b>ASE-03</b>					
9.	Mr.I.DakshinaMurthy	Dr.P.Lovaraju & Dr.V.RamachandraRaju	06/03/2016	JNTUK, Kakinada	Gas Dynamics
10.	Mr.S.IndrasenaReddy	Dr.B.Nagaraju	14/07/2020	Andhra University	Composite Materials
11.	Mr. Nazumuddin Shaik	Prof. P.Venkataramaiah	30/07/2022	Sri Venkateswara University	Composite Materials
<b>CE-09</b>					
12.	J Rangaiah & Civil	Dr. P. Udaya Bhaskar	2/12/2016	JNTUK	Water Resource Engineering
13.	C Rajamallu & Civil	Dr. E. Aruna Kanthi	5/12/2016	JNTUA	Structural Engineering
14.	B Ramakrishna & Civil	Dr. P.Subba Rao	9/3/2020	JNTUK	Structural Engineering
15.	B Narasimha Rao & Civil	Dr. K.Ramu	9/3/2020	JNTUK	Geo Technical Engineering
16.	J Eeshwar Ram & Civil	Dr. S. Kamal	9/25/2019	Annamalai University	Structural Engineering
17.	M Satyanarayana & Civil	Dr. D. Gopinath	9/25/2019	Annamalai University	Structural Engineering
18.	M Manoj Kumar & Civil	Dr. A. Uma Maheshwara	15/05/2021	SRM-AP	Transportation Engineering

S.No.	Name of the Faculty	Supervisor/ Co-Supervisor	Date of Registration	University	Area of Research
19.	K Harish Kumar & Civil	Dr. M.V.N. Sivakumar	30/08/2021	NITW	Structural Engineering
20.	K. Jaya Rao & Civil	Dr. M.Sivakumar/Dr. M.V.L.R. Anjaneyulu	24/01/2022	NITC	Transportation Engineering
<b>CSE-23</b>					
21.	Mr. G V Suresh	Dr. E Srinivasa Reddy	22/08/2011	JNTU-H	Data Mining
22.	Mr. A Srirama Chandra Murthy	Dr. Ch V Narayana	09/02/2016	JNTU-K	Data Mining
23.	Mr. A Raja Gopal	Dr. MHM Krishna Prasad	23/11/2013	JNTU-K	Data Mining
24.	Mr. N V Naik	Dr PVGD Prasad Reddy	13/07/2020	Andhra University	Machine Learning
25.	Mr. SK Johny Basha	Dr. D. Veeraiah	10/9/2020	JNTU-K	Network security & Machine Learning
26.	Mr. S Govindu	Dr. R Lakshmi	9/8/2019	Pondicherry University	DNA Computing
27.	Ms. A Praneetha	Dr. S Srinivasa Rao	15/01/2018	KL University	Cloud Computing & Security
28.	Ms. B. Swathi	Dr. K. V. Ramana		JNTU-K	Machine Learning
29.	Mr. N. Srinivasa Rao	Dr G Madhavi	29/04/2022	JNTU-K	Machine Learning
30.	Mr. T N V S Praveen	Dr O Ramadevi	29/07/2022	JNTU-K	Computer Networks
31.	Mr. S. Srinivasa Reddy	Dr. Ch V Narayana	29/04/2022	JNTU-K	Machine Learning
32.	Ms. B. Usha Rani	Dr. D Rajya Lakshmi	28/01/2023	JNTU-GV	Machine Learning
33.	Mr. A. Gopi Suresh	Dr. P Boobalan	13/04/2022	Puducherry Technological University	bio metrics security
34.	Mr. R. Ashok	Dr. R Subramanian	31/07/2018	Pondicherry University	IoT
35.	Ms. G. V. Rajya Lakshmi	Dr. S Krishna Rao	16/07/2020	Andhra University	Machine Learning
36.	Mr N Srikanth	Dr.T.PremJacob	01/07/2018	Sathyabama ,Chennai	Cloud computing
37.	Mr D Anil Kumar	Dr. M. Ezhilarasan	13/04/2021	Puducherry Technological University	Machine Learning
38.	Mr. Ch Srinivasa Rao	Dr.G .Zayaraz Professor	18/11/2022	Puducherry Technological University	Machine Learning and



S.No.	Name of the Faculty	Supervisor/ Co-Supervisor	Date of Registration	University	Area of Research
					Information Security
39.	Mr. P. Veeraswamy	Dr D.N.D.Harini	17/02/2023	Andhra University	Machine Learning and Deep Learning
40.	Mr M Kiran Kumar	Dr.G .Zayaraz Professor	18/11/2022	Puducherry Technological University	Machine Learning
41.	Mr P Jagadeeswara Rao	Not Assigned	28/01/2023	JNTU-K	Machine Learning, Deep Learning, DIP
42.	Ms P Sarala	Not Assigned	25/01/2023	JNTU-K	Machine Learning and Deep Learning
43.	Mr Md. Amantulla	Dr. N V S Lakshmipathi Raju	27/01/2023	Andhra University	Machine Learning & Data Science
<b>ECE-18</b>					
44.	Mr.V.V. Rama Krishna	Dr.M. Suman	05/07/2017	KL University, Vaddeswararam	Signal Processing
45.	Mr. G. Venkata Rao	Dr.E.V. Krishna Rao Dr.B.T. Krishna	21/02/2019	JNTUK Kakinada	VLSI
46.	Dr. K. Rani Rudrama	Dr. P. Siddaiah Dr.M.N. Giri Prasad	20/04/2015	JNTUA Anantapur	Micro Strip Patch Antennas
47.	Mr. K. Sasi Bhushan	Dr. P. Rajesh Kumar	12/04/2008	A.U. College of Engineering, Andhra University, Vizag	Image Processing
48.	Mr. M. Siva Sankara Rao	Dr. P. Satyanarayana	05/07/2017	KL University, Vaddeswararam	Communication and Signal Processing
49.	Mr.M.K. Linga Murthy	Prof. G.Umamaheswara Reddy	26/10/2020	SVU Tirupati	Satellite Image Processing
50.	Smt.B. Rajeswari	Prof.P. Abdul Khayum	29/06/2017	JNTUA Anantapur	Medical Image Processing
51.	Smt. M. Ramya Harika	Dr. A. Charles Dr.Y.Amar Babu	12/11/2018	Annamalai University	Comuunications
52.	Mr. P. Venkateswara Rao	Dr.M.V.D. Prasad	15/07/2019	KL University, Vaddeswararam	Signal Processing
53.	Mr.Ch.Siva Rama Krishna	Dr. Raja Chandra Sekharan	15/07/2019	KL University, Vaddeswararam	Communications

S.No.	Name of the Faculty	Supervisor/ Co-Supervisor	Date of Registration	University	Area of Research
54.	Mr.Ch.Mallikarjuna Rao	Dr. Sumit Kumar Chatterjee	29/07/2019	BITS Pilani, Hyderabad Campus	Digital VLSI Design
55.	Smt.M.V.L. Bhavani	Dr.G.Manmadha Rao	09/07/2020	Andhra University, Anits College, Visakhapatnam	Antennas
56.	Mr.K.V.Ashok	Prof. P. Rajesh Kumar	15/07/2020	A.U. College of Engineering, Vizag	Bio-Medical Signal Processing
57.	M. Samba Siva Reddy	Dr. P. Vinay Kumar	07/09/2020	JNTUK Kakinada	Modern Wireless Communication
58.	Smt.K.Balavani		30/04/2022	JNTUK Kakinada	VLSI
59.	Mr.P.James Vijay	Dr. P. Vinay Kumar	30/04/2022	JNTUK Kakinada	Signal Processing for Communication
60.	Mr.N.Dharmachari	Dr. Y. Amar Babu	30/04/2022	JNTUK Kakinada	FPGA Accelerators
61.	Smt.K.Pavani	Dr.G. Srinivasulu	30/04/2022	JNTUK Kakinada	VLSI
<b>IT-10</b>					
62.	Mr. G. Rajendra	Dr. M. Babu Reddy	28/05/2010	Rayalaseema University	Software Engineering
63.	Mr. Shake Saida	Dr M. Kamala Kumari	10/11/2020	Adikavi Nannaya university Rajamandri	AI & ML
64.	Mr. Rajasekhar K	Dr.M.S.Anbarasi	18/04/2022	Pondicherry Technology University	Deep learning
65.	Mr. Rajesh Reddy Muley	Dr. B. Bhanu Prakash	29/04/2022	JNTU-K	Machine Learning
66.	Mr. V.V. Krishna Reddy	Dr. V. Geetha	25/11/2022	Pondicherry Technology University	Big Data Analytics, Machine Learning
67.	Mr. Ch.P.V. Srinivasa Rao	Dr.J.Jayabharathy	18/11/2022	Pondicherry Technology University	Machine Learning, Distributed Computing
68.	Mr.K.Ravi Teja		25/01/2023	JNTU-K	Machine Learning
69.	Mr.ChSambasiva Rao		25/01/2023	JNTU-K	Machine Learning

S.No.	Name of the Faculty	Supervisor/ Co-Supervisor	Date of Registration	University	Area of Research
70.	Mr.M.Vijay Kumar		25/01/2023	JNTU-K	Machine Learning
71.	Mrs.D.Vijayasri	Dr.B.Jaya Lakshmi	25/02/2023	Andhra University	Information Security(IOT)
<b>ME-11</b>					
72.	B.Kamala Priya	Dr.S.N. Padhi	05/07/2017	K L E F, Vaddeswararam	Thermal Engineering
73.	K.V.Viswanath	Dr. P. Srinivasarao	22/05/2018	Andhra University VIZAG	Design Engineering
74.	A.Dhanunjay Kumar	Dr. K.S.S. Harish	03/07/2018	NIT Tirucharapalli	Production Engineering
75.	A.NageswaraRao	Dr. Jeya Paul	20/12/2018	NIT Tiruchirappalli	Production Engineering
76.	K.Narayana	Dr.V.V. Subba Rao	01/03/2019	JNTU Kakinada	Production Engineering
77.	D.Mallikarjuna Rao	Prof Indrakiran, ANITS College, Visakhapatnam	15/07/2020	Andhra University VIZAG	Thermal Engineering
78.	V.Sankara Rao	Dr. K.Siva Prasad, ANITS College, Visakhapatnam	15/07/2020	Andhra University VIZAG	Design Engineering
79.	S.Rami Reddy	Dr.Saroj Kumar Sarangi	16/09/2021	NIT PATNA	Thermal Engineering
80.	K.Karthik	Dr.R.Ranjith	03/03/2022	Anna University	Production Engineering
81.	K.Venkateswara Reddy	K.Venkateswara Reddy	28/04/2022	JNTU Kakinada	Production Engineering
82.	K.Lakshmi Prasad	Dr.S.Rama Krishna, GVPCE, Visakhapatnam	29/04/2022	Andhra University, VIZAG	Thermal Engineering
<b>FED-07</b>					
83.	Mr. Y.P.C.S. Anil Kumar	Dr. V. Ramana Murthy	2009	Rayalaseema University	Fluid Mechanics
84.	Mr. D. Vijay Kumar	Dr. V. Ramana Murthy	2009	Rayalaseema University	Fluid Mechanics
85.	Mr. N.T. Sarma	Dr. Ch. Srinivasu	23-03-2009	Rayalaseema University	Ultrasonics
86.	Mr. M.Rami Reddy	Prof.K.Rosaiah, Dr.B.Srinivasa Rao	24-08-2020	Acharya Nagarjuna University	Statistical Quality Control

S.No.	Name of the Faculty	Supervisor/ Co-Supervisor	Date of Registration	University	Area of Research
87.	Ms. D. Chaitanya	Dr. Reema Chakraborty	10-03-2022	Vignan University	Dalit Feminism
88.	Ms. M. Anuradha	Dr.G.Chenna Reddy	09-01-2020	Acharya Nagarjuna University	American Literature
89.	Ms. K. Sridevi	Prof.M.Neeraja	03-06-2022	Sri Pamavathi Mahila Visvavidyalayam	Indian writing
<b>EEE-13</b>					
90.	P.Deepak Reddy	Dr.B.Basavaraju	13-03-2013	GITAM	P.Deepak Reddy
91.	Ramavath Anajeneyulu Naik	Dr.V.Rama Koti Reddy	13-12-2010	Andhra University	MEMS Smart Sensor
92.	J.V.Pavan Chand	Dr.K.Narasimha Rao	27-04-2022	Andhra University	Wind Interconnected to Grid
93.	Parri Srihari	Dr.Kiran Teeparthi	20-08-2020	NIT AP	Wind Power
94.	K. S. L. Lavanya	Dr.Ch.V.Narasimha Raja	16-07-2020	Andhra University	Power Systems
95.	Nagalingachary Kodavatiganti	Dr.Durga Prasad Garapati	04-09-2020	Jawaharlal Nehru Technological University Kakinada	Renewable Energy Systems
96.	Rajesh chintalapudi	Dr J. Sivavara prasad	04-09-2020	Jawaharlal Nehru technological University kakinada	Electrical Vehicles
97.	Rathnakarkumar Pandala	Dr. Sarat kumar sahu	04-09-2020	JNTUK	Power Systems
98.	Rowthu Padma	Dr. P. Sobharani	04-09-2020	Jawaharlal Nehru Technological University, Kakinada	Power Electronics & Drives
99.	G.Tabitha	Dr. P.Umapathi Reddy	04-09-2020	JNTUA	DG system
100.	MB. Chakravarthi	Dr.B.Santhanakrishnan	25-12-2018	Annamalai University	Power System
101.	Mr.A.V.Ravi Kumar	Dr.J.Siva Vara Prasad	28-04-2022	JNTU kakinada	Power Electronics & Drives
102.	Mr. Imran Abdul	Dr.C.V.K.BHANU	27-04-2022	Andhra University	Power Systems
<b>MBA-04</b>					
103.	Mrs.R.Jeyalakshmi	Prof.Venkat Rao	27-05-2013	VSU	Finance
104.	Mr.U.Rambabu	Dr.S.Srinivasarao	22-09-2016	ANU	Finance

S.No.	Name of the Faculty	Supervisor/ Co-Supervisor	Date of Registration	University	Area of Research
105.	Mr. K. Ravi Kiran Yasaswi	Dr. M.C Bala Gurubaran	04-02-2020	ANNAMALAI UNIVERSITY	Finance- SMEs
106.	Mr.B.Kalyan Kumar	Dr. M.Sravani	09-09-2021	KRU	Finance

### ix. Details of Faculty Secured Ph.D.: 11

S.No.	Faculty with Designation	Date of Registration	Date of Awarding Ph.D.	Name of the University
<b>CSE-02</b>				
1.	<b>S. Nagarjuna Reddy</b> Assoc. Professor	28/07/2013	12/07/2022	JNTUK, Kakinada
2.	<b>Dr. B. Sivarama Krishna</b> Assoc. Professor	20/08/2011	06/02/2023	Acharya Nagarjuna University
<b>ECE-02</b>				
3.	<b>Prof. B. Ramesh Reddy</b> IQAC Coordinator	15/07/2008	08/05/2023	JNTUH, Hyderabad
4.	<b>B.V.N.R. Siva Kumar</b> Associate Professor	10/10/2016	12/06/2023	Amity University, Madhya Pradesh
<b>EEE-02</b>				
5.	<b>Dr.B. Pangedaiah</b> Assoc. Professor	01/09/2014	07/09/2022	JNTUK, Kakinada
6.	<b>Dr. T. Nagadurga</b> Sr. Assistant Professor	15/11/2015	15/04/2023	JNTUK, Kakinada
<b>IT-02</b>				
7.	<b>B. Deepak Raj</b> Sr. Assistant Professor	28/07/2014	29/03/2023	IIT Guwahati
8.	<b>K. Phaneendra</b> Sr. Assistant Professor	25/03/2010	07/07/2023	Rayalaseema University
<b>ME-01</b>				
9.	<b>B. Sudheer Kumar</b> Sr. Assistant Professor	07/01/2014	15/06/2023	Andhra University
<b>FED-02</b>				
10.	<b>Ms. T. Radha Rani</b> Assistant Professor	19/03/2017	26/09/2022	Acharya Nagarjuna University
11.	<b>N. Aruna Naidu</b> Assistant Professor	06/01/2014	15/04/2023	Andhra University

### x. Details of Ph.D. Guided Successfully: 02

S.No.	Details of Faculty	Acted as	Scholar Name	Awarding University	Date of Awarding
1.	Dr. M.B.S. Sreekara Reddy	Supervisor	Ratna Deepika Manikonda	KLU, Vaddeswaram	02-07-2022
2.	Dr. K. Harinadha Reddy	Supervisor	Ch. Amarendra	KLU, Vaddeswaram	25-05-2023

## **xi. Details of Supervisors & Scholars during the A.Y.: 2022-23**

- i. No. of Faculty with Ph.D. : 86  
 ii. Recognized Research Supervisors : 72 (JNTUK Recognized: 39)  
 iii. No. of Scholars Pursuing Ph.D. : 53 (JNTUK: 28)  
 iv. No. of Scholars Awarded Ph.D. : 02 (EEE & ME from KLU)

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
1	Dr. P. Lovaraju	PhD and 2008	Yes	2009	Yes	K.B.V. Satya Prakash	17-11-2013	Experimental Studies on Twin Jets	ASE
		PhD and 2008	Yes	2009	Yes	V. Mani Kumar	14-10-2014	Experimental Studies on Flow over Skewed steps	ASE
		PhD and 2008	Yes	2009	Yes	Kedaranath Mahapatro	09-09-2014	Effect of Annular Ring on Co-flow Characteristics	ASE
		PhD and 2008	Yes	2009	Yes	I Dakshina Murthy	06-03-2016	Experimental & Computational studies on SERN	ASE

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
2	Dr.L. Prabhu	PhD and 2018	No	N.A.	Yes	N.A.	N.A.	N.A.	ASE
3	Dr. V. Ramakrishna	PhD and 2005	Yes	2019	Yes	M. Satyanarayana	25-09-2019	Experimental study on partial replacement of cement, coarse aggregate and fine aggregate with silica fume, demolition waste and quarry dust.	Civil
4	Dr. J. Venkateswara Rao	PhD and 2017	No	N.A.	Yes	N.A.	N.A.	N.A.	Civil
5	Dr. K. Venkata Ramana	PhD and 2021	Yes	2021	Yes	K. Harish Kumar	28-08-2021	Structural Health Monitoring	Civil
6	Dr. M. Srinivas Rao	PhD and 2018	Yes	2019	Yes	Chennakesava Rao	11-09-2020	Intrusion Detection system using Deep Learning Approches	CSE



S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
7	Dr. D. Veeraiah	PhD and 2017	Yes	2019	Yes	L.V. Krishna Rao	21-01-2019	Key Management in Wireless Sensor Networks	CSE
		PhD and 2017	Yes	2019	Yes	Sk. Johny Basha	10-09-2020	Self Regulated Bot Detection System Based on soft computing Techniques	CSE
8	Dr. Ch. Venkata Narayana	PhD and 2014	Yes	2016	Yes	V Kishore Babu	09-02-2016	Big Data Applications	CSE
		PhD and 2014	Yes	2016	Yes	Mr.A. Sri Rama Chandra Murthy	06-07-2015	Outlier Detection using Machine Learning Techniques	CSE
		PhD and 2014	Yes	2016	Yes	Mr. S. Srinivasa Reddy	24-04-2022	Agriculture Supporting Sytem using Machine Learning	CSE
9	Dr. O. Rama Devi	PhD and 2017	Yes	2019	Yes	T.N.V.S. Praveen	24-04-2022	Design of Security Schemes for	CSE

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
								Detection and Prevention of Attacks on IOT.	
10	Dr. D.Venkata Subbaiah	PhD and 2021	Yes	2022	Yes	Nil	Nil	Nil	CSE
11	Dr.Y.Vijaya Bhaskar Reddy	PhD and 2019	Yes	2022	Yes	Nil	Nil	Nil	CSE
12	Dr. P.Ashok Reddy	PhD and 2019	Yes	2022	No (On Leave) (26-01-2022)	Nil	Nil	Nil	CSE
13	Dr. K.Naga Prasanthi	PhD and 2020	Yes	2022	Yes	Nil	Nil	Nil	CSE
14	Dr. P.Bhagath	PhD and 2020	Yes	2022	Yes	Nil	Nil	Nil	CSE
15	Dr. M.Sitha Ram	PhD and 2020	Yes	2022	Yes	Nil	Nil	Nil	CSE
16	Dr. S.Jayaprada	PhD and 2018	Yes	2022	Yes	Nil	Nil	Nil	CSE
17	Dr. B.Manaswini	PhD and 2020	Yes	2022	Yes	Nil	Nil	Nil	CSE
18	Dr. K.Devi Priya	PhD and 2021	No	NA	Yes	Nil	Nil	Nil	CSE

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
19	Dr. J.Nageswara Rao	PhD and 2022	No	NA	Yes	N.A.	N.A.	N.A.	CSE
20	Dr.Y.Amar Babu	PhD and 2018	Yes	2018	Yes	N. Dharmachari	30-04-2022	FPGA based Accelerators of Deep Learning Networks	CSE
		PhD and 2018	Yes	2018	Yes	Surekha Musali	08-09-2020	Efficient Approaches for Designing Digital Circuits for Low Power Consumption	ECE
		PhD and 2018	Yes	2018	Yes	M. Ramya Harika	12-11-2018	Wireless Communications	ECE
21	Dr.G.Srinivasulu	PhD and 2017	Yes	2022	Yes	K. Pavani	30-04-2022	VLSI	ECE
22	Dr. E.V. Krishna Rao	PhD and 2007	Yes	2008	Yes	Ch.Murthy Tommandru	07-09-2020	Wireless Communications	ECE
		PhD and 2007	Yes	2008	Yes	G. Venkata Rao	21-02-2019	FPGA Implementation of Network on Chip	ECE

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
								(NOC) using Machine Learning	
23	Dr.G.L.N.Murthy	PhD and 2018	Yes	2019	Yes	S. Ramakoteswara Rao	26-09-2019	Brain MR Image Segmentation	ECE
		PhD and 2018	Yes	2019	Yes	P. Venkateswara Rao	27-01-2023	Deep Learning based Image Classification	ECE
24	Dr. T. Satyanarayana	PhD and 2010	Yes	2018	Yes	M.B. Chakravarthy	05-12-2018	Design, Modelling and Fabrication of MEMS based Piezoelectric Energy Harvesters	ECE
25	Dr.B.Poornaiah	PhD and 2016	Yes	2018	Yes	B.Sandeep	15-11-2018	MEMS	ECE
		PhD and 2016	Yes	2018	Yes	P.Bhavya	15-11-2018	MEMS	ECE
26	Dr.A.NarendraBabu	PhD and 2008	Yes	2017	Yes	G. Venkata Ramanaiah	10-01-2017	RADAR Signal Processing	ECE

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
27	Dr.K. Ravi Kumar	PhD and 2021	Yes	2022	Yes	Ganjanaboyina Venkat Rao	23-02-2023	Low Power VLSI	ECE
28	Dr.B.Ramesh Reddy	PhD and 2023	Yes	2023	Yes	Nil			ECE
29	Dr.P.Lachi Reddy	PhD and 2017	Yes	2022	Yes	Nil	Nil	Nil	ECE
30	Dr. Y.S.V. Raman	PhD and 2016	Yes	2020	No (Relieved on 06-12-2022)	Nil	Nil	Nil	ECE
31	Dr.M.Venkata Sudhakar	PhD and 2016	Yes	2020	Yes	Nil	Nil	Nil	ECE
32	Dr.B.Siva Hari Prasad	PhD and 2021	No	N.A.	Yes	N.A.	N.A.	N.A.	ECE
33	Dr.P. Rakesh Kumar	PhD and 2020	Yes	2022	Yes	Nil	Nil	Nil	ECE
34	Dr.B.Y.V.N.R. Swamy	PhD and 2020	Yes	2022	Yes	Nil	Nil	Nil	ECE
35	Dr. P. Venkat Rao	PhD and 2022	No	N.A.	Yes	N.A.	N.A.	N.A.	ECE
36	Dr. V. Ravi Sekhara Reddy	PhD and 2022	No	N.A.	Yes	N.A.	N.A.	N.A.	ECE

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
37	Dr J. Siva Vara Prasad	PhD and 2018	Yes	2022	Yes	A.V. Ravi Kumar	28-04-2022	Hybrid AC/DC Microgrid	EEE
		PhD and 2018	Yes	2019	Yes	Ch. Rajesh	09-04-2020	Electric Vehicles	EEE
		PhD and 2018	Yes	2019	Yes	K. Girinadh Babu	04-09-2020	Power Systems	EEE
38	Dr.K.Harinadha Reddy	PhD and 2012	Yes	2015	Yes	Mr.S. Govinda Raju	31-07-2015	Robust design and control of power systems for enhancing stability	EEE
		PhD and 2012	Yes	2016	Yes	Ch. Amarendra	29-06-2016 ( <b>Awarded</b> on 25-05-2023)	Switching State Selection for Direct Matrix Converter using PSO, Modified PSO and Mutated PSO Techniques for integrated renewable energy system	EEE

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
		PhD and 2012	Yes	2020	Yes	Shaik Kousar Sana	04-09-2020	Power and Energy Systems	EEE
39	Dr. M. Umavani	PhD and 2012	Yes	2015	Yes	S.V.R. Lakshmi Kumari	31-07-2015	A three leg and two leg based FACTS device for power quality improvement of distribution system	EEE
		PhD and 2012	Yes	2015	Yes	Mr.P. Balanagu	31-07-2014	Integration of multiple micro-grids with man grid	EEE
		PhD and 2012	Yes	2015	Yes	N. Vanajakshi	31-07-2015	Power Quality	EEE
40	Dr. G. Nageswra Rao	PhD and 2017	Yes	2020	Yes	A. Anada Kumar	04-09-2020	Power Grid	EEE
41	Dr. P. Sobha Rani	PhD and 2016	Yes	2020	Yes	R. Padma	04-09-2020	Power Electronics & Drives	EEE



S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
42	Dr.K.R.L. Prasad	PhD and 2017	Yes	2022	Yes	K V V Bapiraju	28-04-2022	Grid Integregation of Renewable Energy Sources	EEE
43	Dr.M.S. Giridhar	PhD and 2017	Yes	2019	Yes	Nil	N.A.	N.A.	EEE
44	Dr.A.V.G.A. Marthanda	PhD and 2019	Yes	2019	Yes	Nil	N.A.	N.A.	EEE
45	Dr.B. Rambabu	PhD and 2016	Yes	2016	Yes	Mrs.V.Vineela	15-11-2008	Microelectronics	EIE
46	Dr.A. Rami Reddy	PhD and 2007	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
47	Dr.B. Samrajya Lakshmi	PhD and 2010	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
48	Dr.V. Parvathi	PhD and 2015	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
49	Dr. Sujit Kumar Rath	PhD and 2016	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
50	Dr. Syed Yusub	PhD and 2014	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
51	Dr. Matcha Srinivas Reddy	PhD and 2016	No	N.A.	Yes	N.A.	N.A.	N.A.	FED

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
52	Dr.K.R. Kavitha	PhD and 2013	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
53	Dr. Shaheda Niloufer	PhD and 2016	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
54	Dr.K. Jhansi Rani	PhD and 2020	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
55	Dr. Veliventi Pawel	PhD and 2020	No	N.A.	No (Relieved on 02-05-2023)	N.A.	N.A.	N.A.	FED
56	Dr. Pabbiseti Vayunanda Kishore	PhD and 2019	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
57	Dr.Lakshmi V R Babu Syamala	PhD and 2018	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
58	Dr.V. Bhagya Lakshmi	PhD and 2021	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
59	Dr. K. Bhanu Lakshmi	PhD and 2021	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
60	Dr.N.V. Raj Kumar	PhD and 2017	No	N.A.	Yes	N.A.	N.A.	N.A.	FED
61	Dr. Sambasiva Rao Tadepu	PhD and 2015	No	N.A.	Yes	N.A.	N.A.	N.A.	FED

S.No	Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution? /If not, when did he/she leave the institution?	Name of the scholar	Date of Registration of the scholar	PhD Scholar's Title of the Thesis	Dept.
62	Dr. B. Srinivasa Rao	PhD and 2016	No	N.A.	Yes	N.A.	N.A.	N.A.	IT
63	Dr.S.Naganjaneyulu	PhD and 2014	Yes	2015	Yes	K. Sudhakar	09-02-2016	Big Data Computing	IT
		PhD and 2014	Yes	2015	Yes	K. Rama Rao	09-02-2016	Big Data Computing	IT
65	Dr. K. AnuPriya	PhD and 2019	No	N.A.	No (Relieved on 26-11-2022)	N.A.	N.A.	N.A.	IT
66	Dr.K. Lavanya	PhD and 2020	No	N.A.	No (Relieved on 23-02-2023)	N.A.	N.A.	N.A.	IT
68	Dr. A.V.N Reddy	PhD and 2021	No	N.A.	Yes	N.A.	N.A.	N.A.	IT
69	Dr. K. Venu Gopal	PhD and 2022	No	N.A.	Yes	N.A.	N.A.	N.A.	IT
70	Dr. A. Adishesha Reddy	PhD and 2013	No	NA	Yes	N.A.	N.A.	N.A.	MBA
71	Dr.T. Rajasekhar	PhD and 2007	No	NA	Yes	N.A.	N.A.	N.A.	MBA
72	Dr. L. Srinivas	PhD and 2009	No	NA	Yes	N.A.	N.A.	N.A.	MBA

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73	Dr. V. V. Narsi Reddy	PhD and 2011	No	NA	Yes	N.A.	N.A.	N.A.	MBA
74	Dr. D. Venkateswarlu	PhD and 2018	No	NA	Yes	N.A.	N.A.	N.A.	MBA
75	Dr. K. Deepika	PhD and 2019	No	NA	Yes	N.A.	N.A.	N.A.	MBA
76	Dr. K. Appa Rao	PhD and 2013	Yes	2016	Yes	Anil Kumar Chintala Pudi	11-02-2016	Thermal Engineering	Mech
77	Dr. P. V. Chandra Sekhar Rao	PhD and 2013	Yes	2016	Yes	Sumalatha Chatragada	11-02-2016	Design Engineering	Mech
		PhD and 2013	Yes	2016	Yes	K Narayana	01-03-2019	Design Engineering	Mech
78	Dr. S. Pichi Reddy	PhD and 2012	Yes	2016	Yes	K. Venkateswara Reddy	28-04-2022	Composite Materials	Mech
79	Dr. P. Vijay Kumar	PhD and 2012	Yes	2016	Yes	P. Venkata Ramana	11-02-2016	Thermal Engineering	Mech
80	Dr. P. Ravindra Kumar	PhD and 2017	Yes	2020	Yes	Nil	Nil	Nil	Mech
81	Dr. K. Dilip Kumar	PhD and 2014	Yes	2016	Yes	Tejomurthi Pinjala	11-02-2016	Thermal Engineering	Mech

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		PhD and 2014	Yes	2016	Yes	V. Kiran Kumar	29-08-2020	Thermal Engineering	Mech
82	Dr. K. Murahari	PhD and 2016	Yes	2016	Yes	Ram Swaroop Sing	29-06-2016	Production Engineering	Mech
		PhD and 2016	Yes	2016	Yes	S. Chandra Sekar Reddy	07-01-2017	Production Engineering	Mech
83	Dr. V. Dhana Raju	PhD and 2018	Yes	2016	Yes	K. Srinivasa Reddy	18-07-2016	Experimental studies on the effect of fuel additives over diverse attributes of diesel engine operated with waste plastic biodiesel	Mech
84	Dr. M.B.S. Sreekara Reddy	PhD and 2018	Yes	2019	Yes	Bankar Priyanka Suresh	29-06-2018	Production Engineering	Mech
		PhD and 2018	Yes	2019	Yes	Ratna Deepika Manikonda	23-02-2014 (Awarded on 02-07-2022)	Experimental investigation of machinability and tribological	Mech

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								behaviour of AA2014 hybrid composite	
		PhD and 2018	Yes	2019	Yes	Asalekar Amol Jagannath	29-06-2019	Production Engineering	Mech
		PhD and 2018	Yes	2019	Yes	Sivarishna Visinigiri	29-06-2020	Production Engineering	Mech
85	Dr. Ch. Siva Sankar Babu	PhD and 2021	No	N.A.	Yes	N.A.	N.A.	N.A.	Mech
86	Dr. B. Sudheer Kumar	PhD and 2023	No	N.A.	Yes	N.A.	N.A.	N.A.	Mech

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