



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(Autonomous)

L.B. Reddy Nagar, Mylavaram – 521230, Andhra Pradesh, INDIA

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

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

Recognised by Scientific and Industrial Research Organisation (SIRO)

Research & Development Cell

Date: 15-10-2025

Details of R & D Accomplishments-Books/Chapters- during the A.Y.: 2024-25

i. No. of Books/Chapters published : 16/34

R & D Publications for the A.Y.: 2024-25

(From 1st July 2024 – 30th June 2025)

S.No.	Dept.	Books	Chapters
1.	AI&DS	06	00
2.	ASE	00	00
3.	CE	00	00
4.	CSE	04	07
5.	CSE(ML)	00	01
6.	ECE	00	16
7.	EEE	01	03
8.	IT	01	01
9.	ME	03	01
10	MBA	00	05
11	FED	01	00
Total		16	34
50			

i. Details of Books/Chapters for the Academic Year 2024-25

AI & DS: 6, ASE: 0, CE: 0, CSE: 11, CSE(ML): 1, ECE: 16, EEE: 4, IT: 2, ME: 4, FED: 1, MBA: 5; Total: 50

Total Number of **Books**: 16

Total Number of **Chapters**: 34

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
Department of AI & DS: 06 (Books: 6 & Chapters: 0)					
1.	Dr. Divvela Srinivasa Rao	Machine Learning Mastery Algorithms and Applications	IGI Global	07/01/2025	978-93-6736-378-2 (Book)
2.	Dr. Divvela Srinivasa Rao	Internet of Things(IOT) and Applications	IGI Global	09/12/2024	978-93-6736-694-3 (Book)
3.	Mr. SVVD. Jagadeesh	Strategic Algorithms and Data Structures	SMSAMS PUBLICATIONS	30/05/2025	978-81-978852-4-2 (Book)
4.	Mrs. M. Sabitha	Algorithm Techniques And Problem Solving Approach in Python Programming (Quick Interview Approach)	SMSAMS PUBLICATIONS	30/05/2025	978-81-978852-0-4 (Book)
5.	Dr. O Rama Devi	Design Thinking Essentials.	SMSAMS PUBLICATIONS	30/05/2025	978-81-978852-1-1 (Book)
6.	Mrs V Sowjanya	Artificial intelligence in Drug Discovery and Development	IMMORAL PUBLICATIONS	28/06/2025	978-93-343-2260-6 (Book)
Department of CSE: 11 (Books:04 & Chapters:07)					
7.	V. Priyanka A. Praveena Dr. D. Veeraiah Mr. P. Pandiyarajan V. Jasmine Sowmya	Blockchain Technology: Principles and Applications	IGI GLOBAL Publishing Next Gen Reserch	December 2024	978-93-6736-850-3 (Book)

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
8.	Vikas B, Srinivasa Rao B, Dr. S. Nagarjuna Reddy , Dr.M.Tholkapiyan,, Dr. V. Elanangai	Concepts of Neural Networks and Deep Learning	Pandit Publications	August-2024	978-93-93769-96-1 (Book)
9.	Geetha Rani E., Bhuvaneshwari P., Ch Suguna Latha, Jaya Lakshmi D., Sethu Madhavi, D. Anusha, Dhanwand Krishna K. and J. Nageswara Rao	Using RFID Technology, A Cutting-Edge System for Traffic Infringement Control and Punishment	CRC Press	September-2024	9781032888903
10.	Dasari Anusha, B. Usha Rani , P. Neela Sundari	Empowering Financial Inclusion: The Role of AI- In Hyper-Personalized Payment Systems	Rchub Publisher	November-2024	978-81-972363-8-9
11.	Geetha Rani E., Bhuvaneshwari P, O. Venkata Siva, J. Nageswara Rao , Ch. Suguna Latha, D. Anusha, M. Dhana Lakshmi and Dhanwand Krishna K	Regression Algorithm for Decision Trees and Gradient Boosting Technique for Eye-Controlled Virtual Mouse	CRC PRESS	September-2024	9781032888903
12.	Tejaswi. M, D. Anil Kumar , Venkata Srinivasu.V	"AI-Powered Demand Forecasting For Seasonal And High Variation Retail Products	Rchub Publishers	October-2024	978-81-972363-8-9
13.	Puppala Naga Sravanthi, M Kiran Kumar	Verifying Food Influencers on Blockchain for Transparency in Endorsements and	IGI Global Scientific Publishing	January-2025	9798369385425

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
		Combating Fake Reviews			
14.	Dr.K.Suresh Kumar, Dr.M.Nagabhushana Rao, Dr.Ashish Sharama, Dr.G.V.Suresh	The Art and Science of Data Driven Decision Making	Iterative International Publishers	May-2024	978-93-6252-620-5 (Book)
15.	Ch. Balakrishna, Dr.T. Veeranna, N. Srikanth , Dr. A Sasi kumar, Dr.R. Senthamil Selvan	Introduction to Artificial Intelligence And Machine Learning	Charulatha Publications	July-2024	979-93-6260-372-2 (Book)
16.	Shaik Johny Basha, A. Koteswara Rao , Tamminina Ammannamma	Transforming Education with Predictive Analytics: A Data-Driven Approach to Student Achievement	IGI GLOBAL SCIENTIFIC PUBLISHING	February, 2025	9798369382929
17.	B.Swathi , S.Vijayalakshmi,P.Ja i Durga Lakshmi, B. Likesh	Navigating Mental Health: Emotion and Personality-Based Prediction System	Engineering Research Hub	March 2025	Vol. 03, Issue: 03 ISSN: 2584-2137
Department of CSE (ML):01 (Books:0 & Chapters: 1)					
18.	Dr Shaik Salma Asiya Begum	GSAtt-CMNetV3: Potato Leaf Disease Classification Using Osprey Optimization	International Congress Of High Value Added Agricultural Products	December-2024	978-625-378-039-5
Department of ECE: 16 (Books:0 & Chapters:16)					

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
19.	Pavani Kollamudi	Technology Behind Junctionless Semiconductor Devices in Book Field Effect Transistors	Wiley	March 2025	9781394248506 Indexed in Scopus
20.	Ch.Siva Rama Krishna, P.Livingston, S.Jaya Chandra, J.Hari Babu, K.Sai Babu	Multi-band Self-Grounding Antenna for Wireless Technologies”, in Quantum Comp. Models for Cyber & Communications in Quantum Computing Models for Cybersecurity and Wireless Communications,	Wiley	Feburary 2025	978-1-394-27140-5 Indexed in Scopus
21.	Satyanarayana Talam, Kamal Phaneendra Avula,Sameer Syed, Snigda Battula	Fabrication Techniques for Microfluidics Devices	Academic Press	November 2024	9780443134548 Indexed in Scopus
22.	Venkat Rao Pasupuleti, Shaik Ayeesha, Gopi Venkata Sai, Penumaka Kadhana	A Comprehensive Framework on Emotion-Aware Stress Detection Using IoT and Machine Learning	IGI Global	August 2024	9798369337394 Indexed in Scopus
23.	B. Rambabu, B.Purnachandra Rao, M. Vardhan Kumar, I.Veera Reddy	Design and Develop Autonomous Braking and Intelligent Collision Detection System By Using Arduino For Railways	Taylor & Francis	March 2025	9781003559139

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
24.	Rambabu Busi, B.Kalyan Venkat Sai Ch.Anand, G.Venkata Lakshmi	Remote Asthma Patient Health Monitoring System by Using IOT Technology	Taylor & Francis	March 2025	9781003559139
25.	P. Rakesh Kumar, Sk. Sameera Bhanu, Ch.Aruna, G.Yasaswini	Design and Analysis of Compact Multiband Millimeter Wave Patch Antenna	Taylor & Francis	March 2025	9781003559139
26.	P.James Vijay, Harshitha Narasapurapu, Thoran Raj Dommeti, Sultan Mohiddin Shaikh	Neuromedassist:An Intelligent Brain Tumor Classification System Using Deep Learning	Taylor & Francis	March 2025	9781003559139
27.	G.L.N.Murthy, Alla Naga Neha Sri, Mummuluri Sri Nanditha, Gogireddy Manisha	Epilepsy Detection Using Transfer Learning	Taylor & Francis	March 2025	9781003559139
28.	P. Rakesh Kumar, P.Dhana Lakshmi, E.Brahmendra, R.Sharon Kumar	A Compact Basket Ball Court Shaped Reconfigurable Patch Antenna For Wireless Applications	Taylor & Francis	March 2025	9781003559139
29.	M.Sivasankara Rao, Patnala Soma Sumanth, Kanasani Satvika,	Design of Low Power Sense Amplifier Using Cadence GPDK 45nm Technology	Taylor & Francis	March 2025	9781003559139

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
	Guguloth Vasanth Kumar				
30.	P.Venkat Rao, Mounica Bulla, Milcah Sunayana Boyalapalli, Charan Pendam	Enhanced Data Imputation Model for Missing Data Recovery in Wireless Sensor Networks	Taylor & Francis	March 2025	9781003559139
31.	M.Sambasiva Reddy, E Manohar Reddy, S Kusuma Kumari, P Raja SaiVarshith	Predicting Traffic Flow in Real Time Using Machine Learning	Taylor & Francis	March 2025	9781003559139
32.	Ravi Kumar K, P. Meghana, V.Sesi Kala, Ch.G.Sastry, P.Reeva	IoT-Based Alert System for Alcohol Detection	PVP & The Institution of Engineers (India)	November 2024	978-81-981949-7-8
33.	Ravi Kumar K, Chalavadi Meghana, Madu Anusha, Shaik Shakeela	IOT based Automatic Tollgate Collection System	PVP & The Institution of Engineers (India)	November 2024	978-81-981949-7-8
34.	K. Ravi Kumar, Guntaka Sri Naga Durga, Bodedla Gopi Krishna, Eda Vinay Venu Gopal, Telagathoti Harshitha, Konijetty Nagajyothi, Dubbaka Ganesh	Design and Analysis of Patch Antenna for Telemedicine	PVP & The Institution of Engineers (India)	November 2024	978-81-981949-7-8
Department of EEE: 04 (Books:01 & Chapters:03)					

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
35.	Srikumar Kotni, Nageswara Rao Gudipudi , Ananda Kumar Annabarapu, Mosherani	Review of Effects on the Power Grid from Plugging in Electric Vehicles and Renewable Energy Sources	Elsevier	July 2024	Pages: 11-25, 9780443289552 DOI: https://doi.org/10.1016/B978-0-443-28955-2.00002-0
36.	Dr.Ch.Nagaraja Kumari Dr.J.Varaprasad Dr.K.Radha Rani Dr.P.Sobha Rani Dr.D.Suresh Babu	Electric Circuit Design	Scientific International Publishing House	July 2024	978-93-6132-433-8 Book
37.	Y.N. Vijaya Kumar, M. Manohara, N. Narasimhulu, D. Leela Rani, B.V. Sai Thrinath, Parri Srihari	Optimizing DC-DC converter models for electric drive systems	CRC Press, 2024, Taylor & Francis Group	December 2024	9781003559092 Book Chapter
38.	B.V. Sai Thrinath & S. Farook, T. Penchalaiah, J.V. Pavan Chand , P. Venkatesh, Gujjala Murali	Advanced Control Strategy For Grid-Connected DFIG Systems Using TSK-Fuzzy Controllers	Taylor & Francis	July 2024	978-1-032-90173-2 DOI: 10.1201/9781003559092-47
Department of ME: 04 (Books: 03 & Chapters: 01)					
39.	Dr.M.Srinivasa Rao, Dr.Siva Sankara Babu Chinka , M Sujana Kumar, Banothu Devender	Mechanics of Solids	RK Publications	December 2024	978-93-48655-68-4 (BOOK)
40.	Dr.S.Mathu Kumar, Dr.S.Iyyappan, Chandrasekara Raja, Jonnala Subba Reddy	Manufacturing & Material Science	REST Publisher	February 2025	978-81-985519-8-6 (BOOK)
41.	Bharat Kumar Chigilipalli, Shirisha Bhadrakali	Tribo-Behaviors of Biomaterials and their Applications/	CRC Press	July 2024	9781003384847

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
	Ainapurapu, Borra N Dhanunjayarao, Arunakumari Mavuri, Dhanunjay Kumar Ammisetti	Metal-Based Additive-Manufactured Wear-Resistant Bioimplants			
42.	Mr. S. Karthikeyan, Mr. V. T. Vijayaraj Dr. M. Manickam Mr. Jonnala Subba Reddy	Optimization Techniques in Manufacturing	Lunar Publications	April 2025	978-81-983636-5-7 (BOOK)
Department of IT: 02 (Books: 1 & Chapters: 1)					
43.	JMSV Ravi Kumar, A. V. Bharadwaja, M. Srikanth, Phaneendra Kanakamedala, Narni.Siva Chintaiiah, D Ratna Giri	Injection-Related Adverse Effects: A Wagner-Nelson Model Analysis	CRC PRESS	May-2025	9781003641537
44.	Chandra Sekhar Kolli, Vadisena Venkata Krishna Reddy, A K S Rajeev Kumar Gottala	Intelligent Course Recommendation: A Hybrid Deep Learning Perspective	LAP Lambert Academic Publishing	April - 2025	978-6208440961 (Book)
Department of FED: 1 (Books: 1)					
45.	Dr. G. Santhi, Dr. Bhaskar C, Dr. Radha Rani Tammileti, Dr. V. S. Bhagavan	Numerical Technique and Integral Transforms	Scientific Publishing House	January 2025	978-93-6674-728-6
Department of MBA: 5 (Books: 0, Chapters: 5)					
46.	Dr.K. Deepika Dr.O. Naresh, Mrs.Y.Nagamani	Navigating Work-Life Balance: Challenges and Strategies for Women Faculty in Autonomous	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering	December-2024	978-81-978696-4-8

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN
		Engineering Colleges, Vijayawada	& Technology (autonomous)		
47.	Mutyala. Kishore Babu Papa Rao Maddala Naresh Ogirala Swamy Prasad Talluri	Empirical Evaluation of the Efficacy of Tariff-Saving Mutual Fund Schemes	9th International Conference on Emerging Strategies for Business Advancement-(ICESBA-2024)	March-2025	978-81-975624-9-5
48.	Swamy Prasad Talluri Naresh Ogirala Adishesha Reddy Appidi	Key Factors Influencing The Indian SME Pharmaceutical Industry: Analyzing Using Porter's Five Forces Framework For A Comparative Assessment	9th International Conference on Emerging Strategies for Business Advancement-(ICESBA-2024)	March-2025	978-81-975624-9-5
49.	Naresh Ogirala Swamy Prasad Talluri Shaik. Subhani Jannu Vinay	Assessing The Stability of the Indian Dairy Sector Using Altman's Model: An Overview	9th International Conference on Emerging Strategies for Business Advancement-(ICESBA-2024)	March-2025	978-81-975624-9-5
50.	Dr. Undabatla Rambabu, Dr. Konda Lakshma Reddy	Impact of Artificial Intelligence on Banking and Finance	The Interdisciplinary Impact of AI in Engineering & Management	April-2025	978-81-986300-4-9

Sl.	Authors	Title of the Book/Chapter	Publisher	Published Month & Year	ISBN

Dean R&D