



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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

Mylavaram – 521230, NTR Dist. Andhra Pradesh, India

Research and Development Cell

Date: 30-06-2026.

Details of R & D Accomplishments during the A.Y.: 2025-26

No. of Books/Chapters published

: 25/37

S.No	Dept.	Books	Chapters
1.	AI&DS	7	3
2.	ASE		
3.	CE	3	
4.	CSE	3	8
5.	CSM	1	4
6.	ECE	2	2
7.	EEE	2	1
8.	IT	1	3
9.	ME	2	8
10.	MBA	1	6
11.	FED	3	2
Total		25	37

Books/Chapters

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
AI&DS – Books - 06 Chapters - 03								
1.	AI&DS	KATTUPALLI SUDHAKAR, Dr.O.Rama Devi, Dr.A.C.P.Ranja nDr.A.Daveed u Raju	Book	Design Thinking Essentials: A Student's Guide to Creative Problem Solving	SMSAMS PUBLICATIONS	19-04-2025	978-81-978852-1-1	Not indexed
2.	AI&DS	Kolikipogu, R.; Prabakar, D.; Jayalakshmi, V.; Rajakani, M.; Sudhakar, K. ; Maguluri, L.P.	Book Chapter	Artificial Intelligence and Sustainable Networks AI-Based Assessment of Climate Change Impacts on Public and Environmental Health:	CRC Press	April 2026		Scopus
3.	AI&DS	Dr. Divvela Srinivasa Rao, Dr. Prakash Bethapudi, V. Kiran Kumar, Dr. Gopikha Sundara Murthy	Book	Compiler Design	BR Publications	18-11-2025	978-93-47231-95-7	Not indexed
4.	AI&DS	Dr. N. Bharathi, SVN Mahesh Duriseati, Dr. Divvela Srinivasa Rao, J. Rohini	Book	Big Data Analytics	BR Publications	27-10-2025	978-93-47231-04-9	Not indexed
5.	AI&DS	Dr. K. Umamaheswara Rao, Dr. M. Nagapavani, Dr. Divvela Srinivasa Rao, Mr. Anil Kumar	Book	Discrete Mathematics	BR Publications	08-09-2025	978-81-99085-82-4	Not indexed
6.	AI&DS	Divvela Srinivasa Rao, P.Venkateswara Rao, V.Sucharita	Book Chapter	Quantum AI and Deep-Tech Innovations for Next-Gen Intelligence: Comparison of Classical ML algorithms and Quantum Machine	NRI Institute of Technology, Pothavarappadu	28-03-2026	978-93-343-7220-5	Not indexed

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
				Learning Algorithms in Identifying Insurance Claim Fraud				
7.	AI&DS	V. Sucharita, P Venkateswara Rao, Divvela Srinivasa Rao	Book Chapter	Quantum AI and Deep-Tech Innovations for Next-Gen Intelligence: A Sustainable Quantum-Hybrid Platform for Crop Yield Prediction and Farm Resource Optimization	NRI Institute of Technology, Pothavara ppadu	28-03-2026	978-93-343-7220-5	Not indexed
8.	AI&DS	Venkatesh Koreddi and Shirley Josephine Mary R	Book	Generative AI: Theory and Practice	Bluepen International Publisher	03-02-2026	978-93-6940-776-7	Not indexed
9.	AI&DS	Venkatesh Koreddi Meriga Kiran Kumar Kshatriya Vinaya Sree Bai	Book	Natural Language Processing	Bluepen International	01-03-2026	978-93-6940-393-6	Not indexed
10.	AI&DS	Dr. M. Vidhyasree, Dr. Priti Sharma, Dr. V. Suryanarayana	Book	Mastering Image Processing Using Python	Scientific International Publishing House	01-06-2026	978-93-7196-024-3	Not indexed
CE - Books - 03 Chapters - 00								
11.	CE	Dr. T. Muralidhara Rao, Ch. Veerottam Kumar, Seelam Nagendra, Dr. V. Ramana Kollipara , Dr. Kusuma Sundara Kumar, P. Vamsi Krishna	Book	Structural Health Monitoring using IOT	Excellent Publishers	15-06-2026	978-81-69623-03-2	Not Indexed
12.	CE	Dr. Kusuma Sundara Kumar, Dr. Saroja Rani Kesanapalli,	Book	Prefabricated construction technology-current practices & future trends	The institute for innovations in engineerin	29-12-2025	978-81-993404-8-0	Not indexed

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
		Dr C Rajamallu, and Mr. S. Ashok Kumar			g and technology			
13.	CE	N. Abhilash, Dr K. Sundara Kumar, Dr V. Ramakrishna , S. Ashok Kumar	Book	Groundwater Pollution	The institute for innovations in engineering and technology	30-01-2026	978-81-993404-2-8	Not indexed
CSE – Books - 03 Chapters - 08								
14.	CSE	Dr. Duggineni Veeraiah, Dr. P. Mano Paul, Sama Mineesha, A. Rahila Banu	Book	Deep Learning Techniques	Zenodo, BR Publications	07-10-2025	978-81-993608-5-3	Non Indexed
15.	CSE	Usha Rani Bajjuri, Rajya Lakshmi Davuluri, Addanki Bindu, Mullangi Raju, M.L.A.G Praneeth	Book Chapter	GRENZE International Journal of Engineering and Technology: Gesture Driven AI Virtual Mouse: Revolutionizing Human Computer-Interaction with Computer Vision	GRENZE Scientific Society	17-07-2025	2395-5295	Scopus
16.	CSE	K. Devi Priya, Kamparapu V. V. Satya Trinadh Naidu, V. Chandra Kumar, Anusuri Krishna Veni, Sudipta Banerjee, M. V. Rajesh & K. Bhanu Rajesh Naidu	Book Chapter	Applications of Fuzzy Logic in Decision Making and Management Science(Springer-publication):Exploring the Efficacy of Machine Learning Algorithms Across Diverse Feature Selection Strategies in Rice Classification Tasks	Springer	20-05-2025	978-3-031-77719-6	Non Indexed
17.	CSE	Puppala Naga Sravanthi, Kiran Kumar Meriga	Book Chapter	Multi-Criteria Decision Making Methods and Sustainable Applications in the Digital Age: Supply Chain Management for	IGI Global Scientific Publishing	12-11-2025	9798369387917	Non Indexed

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
				Sustainable Food Production Using the Analytic Hierarchy Process				
18.	CSE	Dasari Anusha, Dudla Anil Kumar , Durga Satish Matta, Dudla Prabhakar	Book Chapter	Explainable Artificial Intelligence-based Industrial Internet of Things: Explainable AI and its contributions to smart cities, smart homes, and eHealth	CRC Press	31-12-2025	9781003537380	Scopus
19.	CSE	Sri Silpa Padmanabhuni, Padmaja Grandhe*, Swathi Buragadda and T V Divya	Book Chapter	Modern Trends in Pervasive Intelligence: Adaptive Firefly Algorithm to Find the Optimal Number of Features in IIOT Data in Detection of Cyber Security Attacks	Bentham Books	30-04-2026	979-8-89881-501-1, 2026	Scopus
20.	CSE	S. Satyanarayana, Srinubabu Kilaru, and Kommuri Venkatrao	Book Chapter	Engineering Data analytics and Management(Advances in Engineering Research): An Integrated Deep Learning and Reinforcement Learning Framework for Profit Maximization in Perishable Food Supply Chains		31-12-2025	978-94-6463-978-0	Not indexed
21.	CSE	Dr. Seelam. Nagarjuna Reddy , Dr. Lokesh Nelligere Selvarajshivalingegowda, S. Anuja, Dr. M. I. Thariq Hussan S. Sathish Kumar	Book	Software testing through AI-powered automation	Pandit publications	06-01-2026	978-81-997248-1-5	Not indexed

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
22.	CSE	K. DeviPriya , K. V. V. S. Trinadh Naidu, V. Chandra Kumar, Subrata Jana, Biswadip Basu Mallik, K. Bhanu Rajesh Naidu, M. V. Rajesh	Book Chapter	Advancing women health: detecting polycystic ovary syndrome through machine learning	Advanced mathematics in computing, communication and security(wiley-publications)	05-12-2025	9781394307272	Not indexed
23.	CSE	Dr. V. Elanangai, Dr. P a abdul saleem, mr. Rambabu inaganti, m. Baby anusha , dr. Raman kumar m	Book	AI in IoT: unlocking the future of autonomous and intelligent systems	Cosmas Scientific Publications	26-06-2025	978-93-6096-483-2	Not indexed
24.	CSE	Dr.D.Venkata Subbaiah , Nayak B.V., Niharika R., Venuanjaneyulu P	Book Chapter	IoT-Enhanced Object Mask Modeling for Advanced Driver Assistance System GRENZE Publisher		July-2025	9778-81-955890-7-4	Scopus
CSE (AI&ML) – Books - 01 Chapters - 04								
25.	CSE(AI&ML)	Shaik Salma Asiya Begum Hussain Syed	Book Chapter	AI-based image recognition for early diagnosis and precise classification of pepper and maize leaf diseases: Intelligent Systems :Lecture Notes in Networks and Systems	Springer	24-08-2025	978-981-96-3797-3	Scopus
26.	CSE(AI&ML)	Shaik Salma Asiya Begum , Venkata Ramya Avula, Akram Shaik, Poojitha Somisetty & Hummera Kausar Syed	Book Chapter	Innovations and Advances in Cognitive Systems: Early Detection of Alzheimer's Severity with Ensemble Learning & Grad-CAM Using MRI Images	Springer	13-10-2025	978-3-031-97709-1	Scopus

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
27.	CSE(AI&ML)	Dr.S.Jayapradha , Bhargavi Aggunna, Hema Naga Sri Gajula, Harika Jadam & Vagdevi Mariseti	Book Chapter	Innovations and Advances in Cognitive Systems: Hybrid ai chatbot for crop yield optimization and disease prevention using deep learning techniques	Springer	13-10-2025	978-3-031-97709-1	Scopus
28.	CSE(AI&ML)	Kranthi Kumar Y , Harsh J. Shah, Kola Aravind, Pandipati Mokshagna & Talluri Subrahmanyam	Book Chapter	Phishing site analyzer: ai-driven real-time detection with mlp and flask	Springer	01-10-2025	978-3-031-97713-8	Scopus
29.	CSE(AI&ML)	Dr.S.jayapradha , Dr.K.Srinivas Dr.K.Bala Brahmeswara Dr.Apparna.A	Book	An Artificial Intelligence System for Future-Aware Decision	Selfypage Developer s Pvt Ltd	21-02-2026	978-93-7020-669-4	Not indexed
ECE – Books - 02 Chapters - 02								
30.	ECE	Mohammed Mahaboob Basha, Gundala Srinivasulu , V.Madhurima	Book Chapter	Nanoelectronics: Fundamentals, Advances, and Applications:EDP-Efficient Level Shifters for Super Threshold Voltage Level Shifting Applications	Scrivener Publishing	28-08-2025	9781394275199	Scopus
31.	ECE	Mohammed MahaboobBasha, P.Lachi Reddy , Srinivasulu Gundala	Book Chapter	Nanoelectronics: Fundamentals, Advances, and Applications:Exploring CMOS, PTL and GDI Logic Families Based One Bit Full Adder and Subtractor Circuits in Subthreshold Region for Energy and EDP Efficient Applications	Scrivener Publishing	25-08-2025	9781394275199	Scopus
32.	ECE	Dr. Sricheta Parui, Mrs. Rajeshwari Patil, Dr. Jyoti Neeli,	Book	AI and IOT in Healthcare Application	Technical Press	May-2026	978-81-69069-96-0	Not Indexed

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
		Dr. Chenthil T. R, Dr. B V N R Siva Kumar						
33.	ECE	Dr.E.V.Krishna Rao	Book	Engineering & Technical Development for a Sustainable Environment	Vinsa Publishing	April 2026	978-93-7415-014-6	Not Indexed
EEE – Books - 02 Chapters - 01								
34.	EEE	Sobha Rani P, Giridhar M.S., Padma R., Tabita G.	Book Chapter	Advances in Electrical Power and Embedded Drive Control: Role of Optimization Techniques in Power Quality Improvement of Micro-grid	Springer	02-07-2025	9789819636945	Scopus
35.	EEE	Dr. Angesh Chandra, Dr. Rahul K. Bhoyar, Dr. G. Nageswara Rao , Dr. I. D. Soubache	Book	Modern Electric Vehicle Technology	RK Publications	20-08-2025	9789349701359	Not indexed
36.	EEE	A. V. Ravikumar , Nagalinga Chary K.	Book	Boolean Algebra and Logic Gates	Lambert Academic Publishing	29-07-2025	6207639677	Not indexed
FED – Books - 03 Chapters - 02								
37.	FED	Dr.Rashmi Mishra, Dr.G Bhaskar Reddy, Dr.K.R.Kavitha Dr.Chillara Soma Shekar	Book	Complex Variables & Numerical Methods	Deccan International Academic Publisher	01-09-2025	978-93-49092-20-4	Not indexed
38.	FED	Dr. B. Samrajya lakshmi	Book	From Epics to Entertainment: Dharma in Shashi Tharoor's Novels	Book Rivers	01-05-2026	978-93-7837-003-8	Not indexed

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
39.	FED	1. Dr. K. Mohamed Umar Farooq 2. Dr. S. Kavitha 3. Dr. K. S. Mohana Priya 4. Dr. D. Geetha 5. Dr. S. Menaka 6. Mr. Rajib Saha and Mr. Bishnu P. Gogoi 7. Ms. D. Chaithanya and Dr. Reema Chakrabarti 8. Ms. S. Sumayya 9. Ms. M. Nathiya 10. Mr. J. Nitheesh 11. Ms. R. Jeya Surya	Book Chapter	Language In Literature: A Story-Centric Approach: Dalit Feminism in The Age of Global Feminist Theory: Negotiating Local and Global Frames	Docbrihter Press	01-08-2025	978-81-990809-5-9	Not indexed
40.	FED	Ms. D. Chaithanya & Dr. Reema Chakrabarti	Book Chapter	Beyond the Ages (Tracing Heritage, Culture, Tradition and Technology through Literature/ Commenting from the Margins: Humanizing Subaltern of Virama's Life	Mind Reading Publications	01-09-2025	978-93-92150-91-3	
41.	FED	Bhagya Lakshmi, Dr. A. Amrutha Valli	Book	Microbial Lipases: A Case Study of Penicillium citrinum KU613360	Immortal Publications	27-06-2026	978-93-5987-203-2	
IT – Books - 01 Chapters - 03								

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
42.	IT	Chandra Sekhar Kolli Venkata Krishna Reddy Vadisena A K S Rajeev Kumar Gottala	Book	Intelligent Course Recommendation: A Hybrid Deep Learning Perspective Innovative Strategies for AI-Driven Academic Guidance	Lambert Acadmic Publishing	29-07-2025	978999 932964 4	Not indexed
43.	IT	Rajasekhar Kommaraju Kuriseti Sai Sujith Yanamadala Sri Yougananda Gopi Kishore Arigala Narendra Patnala Pavan Kumar Arvapalli Home Harshavardhan G. Maheswari	Book Chapter	International Journal of Information Technology: An ensemble transfer learning metaheuristic optimization framework for detection of glioblastoma	Springer	21-11-2025	NA	Not indexed
44.	IT	B. Sarath Chandra , Raja Rao P.B.V., M. Geetha, P. V. Narasimha Raju, Madhukumar Patnala and Sivudu Macherla	Book Chapter	Medical Metaverse for digital healthcare: Energy Efficient lightweight security framework for internet of medical things devices for healthcare applications	scrivener publishing	30-12-2025	978139 440847 4	Not indexed
45.	IT	Ch Sambasiva Rao Pabbathi Manobhi Ram, Viswanadhapalli Siva Motakatla Satya Sai Krishna Reddy	Book Chapter	Airline Prediction Using Customer Feedback and Rating Using Machine Learning and Deep Learning (Book Chapter) https://doi.org/10.1002/9781394212798.ch5	Sustainable Resource Management in Next-Generation Computational Constrained Networks Editor(s): Subhasis Dash, Manas Ranjan Lenka, S.	18 August 2025	Print ISBN:97 813942 12569 Online ISBN:97 813942 12798 DOI:10. 1002/97 813942 12798	Not Indexed

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
					Balamurugan, Ambika Prasad Tripathy, Amarendra Mohanty Wiley			
MBA – Books - 01 Chapters - 06								
46.	MBA	Dr. Mohd. Asif Gandhi , Dr. R. Jeyalakshmi , Dr. Samuel Rao , Dr. Jitendra Kumar Sahu	Book	Operations Management	RK Publications	17-07-2025	978-93-49701-39-7	Not indexed
47.	MBA	Dr. Undabatla Rambabu , Mr. K. Ravi Kiran Yasaswi	Book Chapter	Educational Transformation through Globalization & Technology Transformative Role of Artificial Intelligence in Education:	A2Z Edulearnin ghub	31-08-2025	978-81-991683-4-3	Not indexed
48.	MBA	Naresh Ogirala ; NagaLakshmi Yaddanapudi	Book Chapter	Machine Learning Applications in E-Commerce, Finance, and Human Resource Management ML-Based Fraud Detection and Risk Assessment Models in Digital Payment Systems	Rademics Research Institute	28-10-2025	9349552906	Not indexed
49.	MBA	Vandana N. Revankar ; G. Nivashini ; P. Selvakumar ; K. L. Meera ; Undabatla Rambabu , M. R. Arun ; T. C. Manjunath	Book Chapter	Innovative Decision-Making in Engineering The Role of Cognition, Heuristics, and Human Factors Decision Making in Human-Computer Interaction	IGI Global Scientific Publishing	30-11-2025	979-8-3373-5702-7	Scopus

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
50.	MBA	Dr. D. Venkateswarlu ; Dr. G. Nageswara Rao ; Dr. Ch. Rajendra Babu	Book Chapter	Green Investments and Sustainable Capital Markets: Trends, Risks, and Global Research Perspectives The Synergy of Ethical Stewardship: Evaluating the Tripartite Linkage between Corporate Sustainability, Governance, and Firm Valuation in Global Markets	Immortal Publications	31-01-2026	978-93-5679-396-5	Not indexed
51.	MBA	Dr. V. V. Narsi Reddy ; Dr. Ch. Shankar ; P. V. N. Nataraj ; Yaramala Nagamani	Book Chapter	Green Investments and Sustainable Capital Markets: Trends, Risks, and Global Research Perspectives: Investor Behaviour in Green Investments: Evidence from Markets and Data	Immortal Publications	31-01-2026	978-93-5679-396-5	Not indexed
52.	MBA	P. Selvakumar, V. M. R. Hiremath, R. Kalai Selvi, Undabatla Rambabu , Vijay Uprikar, Ninad Rithe	Book Chapter	International Models of Occupational Health and Safety: Strategies, Systems, and Success Stories The Role of AI and Machine Learning in Predictive Safety Analytics	IGI Global Scientific Publishing	19-03-2026	9798337363721	Scopus
ME – Books - 02 Chapters - 08								
53.	ME	Dr A.Nagarajan, Laxman Baburao Abhang, Jonnala Subba Reddy , Prasath M	Book	Composite Materials Design and Applications	Lunar Publications	10-09-2025	978-81-983636-3-3	Not indexed

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
54.	ME	Jayashri N Nair, Dhana Raju , Devunuri Suresh, Konkala Balashowry and C.P. Jawahar	Book Chapter	Fuelling the future: Hydrogen energy horizon: Challenges and barrier identification in adoption of hydrogen energy	Elsevier	18-09-2025	978-0-443-34090-1	Scopus
55.	ME	V. V. D. Sahithi , P. Prasad Kumar , Dhanunjay Kumar Ammisetti , Suresh Goka and K. Aruna Prabha	Book Chapter	Metal and Polymer Micro and Nano Composites, De Gruyter: Biomedical applications: magnesium hybrid composites reinforced with nanographene nanoparticles (GNPs) and Al ₂ O ₃	De Gruyter Brill	29-12-2025	9783111664835	Scopus
56.	ME	Dhanunjay Kumar Ammisetti	Book Chapter	Metal and Polymer Micro and Nano Composites: Chapter 3 Detailed review of micro- and nanocomposites	De Gruyter Brill	29-12-2025	9783111664835	Scopus
57.	ME	Murahari Kolli and J. Paulo Davim	Book	Metal and Polymer Micro and Nano Composites	De Gruyter Brill	29-12-2025	9783111664835	Scopus
58.	ME	Murahari Kolli , Ravi Prakash Babu Kocharla , Chandrasekar Sunnapu and Murali Mohan Cheepu	Book Chapter	Metal and Polymer Micro and Nano Composites: Mechanical and microstructure characteristics of jute/carbon/crab hybrid composites	De Gruyter Brill	29-12-2025	9783111664835	Scopus
59.	ME	Saikumar Gadakary , Murahari Kolli , Bh. Vara Prasad , D. Maheshwari , Md. Zaid Mazher and Ch. Shravya Sree	Book Chapter	Metal and Polymer Micro and Nano Composites: Enhancement of mechanical properties in epoxy-based composites reinforced with magnesium oxide nanoparticles	De Gruyter Brill	29-12-2026	9783111664835	Scopus
60.	ME	Murahari Kolli , Chan Basha Abdul,	Book Chapter	Metal and Polymer Micro and Nano Composites: Experimental	De Gruyter Brill	29-12-2026	9783111664835	Scopus

S.No	Dept.	Names of all Authors	Type of article	Title of the Book	Name of the Publisher	Date of Publication	E-ISBN	Indexed
		Alekhyia Siriyala		investigation on AISI 8720/WC-Ni-Cr composites through laser cladding approach for agriculture applications				
61.	ME	Siva Sankara Babu Chinka and Gampa Siva Prasad	Book Chapter	Metal and Polymer Micro and Nano Composites:Evaluation of mechanical characteristics of epoxy composites reinforced with jute, pineapple, sisal fibers, and titanium oxide particles	De Gruyter Brill	29-12-2025	9783111664835	Scopus
62.	ME	Md. Ahasan , Ratnala Prasad , Seelam Pichi Reddy , Md. Rasheeda and Yarrapragada K. S. S. Rao	Book Chapter	Metal and Polymer Micro and Nano Composites:Experimental verification with simulation studies on Al-TiB ₂ sintered preforms during upsetting	De Gruyter Brill	29-12-2025	9783111664835	Scopus