



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: 01-08-2024

Details of Patents for the Academic Year 2023-24

AI&DS: 6, ASE: 1+0, CE:1, CSE: 7, CSE(ML):2, ECE: 6, EEE: 2, ME: 1+9, IT: 1, FED:0, MBA: 0

Total: 36

Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Granted/Published Date
Granted Category – 01			ASE-01		
1.	An Alternative Dividing Head Mechanism Using Magnetic Patterning	Pinapatruni Gangadhar Venkata Ramana (Student) Dr.L.Prabhu Dr.Jonnalagadda Srinivas	201941052488 Patent Grant Ref. No.: 514095	18/12/2019	22/02/2024
Granted Category – 01			ME-01		
2.	A Localized Intelligent Vehicle for Disabled Individuals	Vallapudi Dana Raju	202141007160 Patent Grant Ref. No.: 534426	20/02/2021	23/04/2024
Patents under Published Category – 34					
AI & DS-06					
3.	Real Time Predictive Analysis Of User Behavior Analytics Mechanism For Detecting Insider Threats Usi	Dr.D.Mohanapriya P.M.Kavitha Dr.Vishal Ratansing Patil Divvela Srinivasa Rao Dr A Muthukumaravel Priyanka s Dewalkar Dr. Soumi Dutta Dr Chandra Kumar dixit Dr. P. Patchaiammal	202341058174	30/08/2023	02/02/2024

SI.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Granted/Published Date
4.	Enhancing Marketing Strategies Through Ai Fish Swarm Optimization Algorithm	Dr. Vadhri Suryanarayana Dr. Sajja Deepthi Dr. Timmeswara Sarma Nori Dr. Venkata Naga Siva Kumar Challa Dr. Puli Danaiah Mrs. K. Srivalli	202441036572	08/05/2024	24/05/2024
5.	Deep Learning Approaches To Analyse The Economic Impact Of Travel, Tourism, And Hospitality In An Organisation	Dr. Vadhri Suryanarayana , Ankur Bhamu , Dr.G. Krishnapriya Arun A , Dr.Prasanthi Gottumukkala , Dr. Bandaru Srinivasa Rao , V. Akshaya 8) Esther A ,Santhiya S , Anthony Savio Herminio Da Piedade Fernandes, Dabi Bhagyashree ,Prof. Prashant Adsule	202441036464	08/05/2024	17/05/2024
6.	An Artificial Intelligence (Ai) Based Information Management System And Method Of Operating The Same	V. Chandra Kumar Venkata Praveen Kumar Kaluvakuri Sai Krishna Reddy Khambam Venkata Phanindra Peta	202441047644	20/06/2024	28/06/2024
7.	System And Method Of Ultra-High Compression Of Mri-Images Based On Deep Learning	K Jyothi, Dr. V. Raghavendran, Kshatriya Vinaya Sree Bai , Sudarshan Kumar Jain, Dr. G Naga Rama Devi,	202441007883	05/02/2024	08/03/2024
8.	An Artificial Intelligence (Ai)-Based System For Supporting Individuals By Conveying Knowledge And Method Thereof	Sowjanya Vuddanti Ch. Satya Keerthi N.V.L V. Navya Sree Avinash Gupta Desetty Srinivas Reddy Pulyala	202341081549	30/11/2023	05/01/2024
CE-01					
9.	Development of sustainable concrete for structural applications	Abdhesh Kumar Sinha Mrs. K N Kulkarni Ms. Sneha P Khedekar Dr. Shilpi S Bhuinyan Devendra Dohare Dr. Srikanth Ramvath Mr. Bhor Amol Sunil K. Harish Kumar Dinesh W. Gawatre B. Rama Krishna	202331073958	30/10/2023	03/11/2023
CSE-07					
01-08-2024 Annual R & D Report: AY 2023-24 R&D Cell @ LBRCE Page 2 of 8					

Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Granted/Published Date
10.	System And Method For Sim Card Tray Automatic Ejection And Retraction By User Authentication	Arjun Uddagiri Eswar Pragada Dr D Veeraiah Dr D Venkata Subbaiah Yanduru Neha Dr Stayanaryana Talam Dr Seelam Pichi Reddy	202341086939	05/01/2024	19/12/2023
11.	Development Of Machine Learning Driven 3d Printing Technology For The Construction Of	Dr. D. Veeraiah Syed Sabihuddin Vandana Ahuja Dr. Nupur Mistry Dr. Gouri Desai Prince Sood Prof. (Dr.) Parul Goyal	202441039129	18/05/2024	31/05/2024
12.	Iot Integrated System For Gas Leak Detection And Threat Zone Identification And Method Employed Thereof	DR. B. SIVARAMAKRISHNA, IMANDI VASAVI, MULLANGI RAJU, DR. D. VEERAIAH, DR.K.DEVIPRIYA, DR.D.VENKATA SUBBAIAH, PAJJURI SARANYA DURGA	202441030458	16/04/2024	19/04/2024
13.	A Blockchain-Enabled Cloud Computing Platform For Distributed Applications	Mrs. P. Rama Devi Dr.BJDKalyani Mr. M. Sabari Ramachandran Mr. K. Sreekanth Mr. Tulasi Rajesh Mr. ShaikJohnny Basha Dr.Pilli.LalithaKumari Dr.P.G.K.Sirisha Dr.Jitendra Singh Dr.Nagarjuna Reddy Gujjula	202341039905	12/06/2023	18/08/2023
14.	Predictive Analysis Of Stock Market Trends Using Machine Learning Techniques	Dr BhavanamAmarnath Reddy Sameer Yadav Dr.Rais Abdul Hamid Khan Dr.IshratRasool Dr. Poonam Singh ShaikJohnny Basha Mr. YogeshKantilal Sharma Ashish Diwakar Vaishali Mishra Dr.R.Rajagopal D. Kirubakaran Anthony Savio Herminio da PiedadeFernandes	202441013152	23/02/2024	08/03/2024

Sl.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Granted/Published Date
15.	Developing Next-Gen 6g Wireless Communication System with Iot-Driven Intelligent Edge Solutions for Electric Vehicle Connectivity	Dr. M. Sitharam Prof. Dasharath Vandana Ahuja Dr. Subrata Jana Dr. Anand Sharma Dr. Udit Mamodiya	202441025053	28/03/2024	05/04/2024
16.	A System And Method Enhancing Security Of Multi Modal Biometrics Templates During Enrollment And Verification Process	Pavani Chitrapu Hemanth Kumar Kalluri Mahesh Kumar Morampudi Gopi Suresh Arepalli	202441042114	30/05/2024	07/06/2024
CSE (ML) - 02					
17.	RFID and GSM Based Security System For Linemen	Dr.B. Rajendra Prasad	202341063344A	21/09/2023	06/10/2023
18.	Adaptive Image Enhancement Using Contextual Deep Learning Feedbackloops	Dr.B. Rajendra Prasad	202341063011A	19/09/2023	06/10/2023
ECE-06					
19.	Deep Learning for privacy preserving medical diagnosis in Indian healthcare	Dr. Pradyumna Singh Shekhawat Mr. Dhupam Arun Kumar, Dr.M.S.S.S. Srinivas Dr. Chanamala Vijay Dr. B.V.N.R.Siva Kumar Dr. Sabu George Bhupendra Singh Dr. Rovin Tiwari	202411044823	10/06/2024	21/06/2024
20.	A Smart Farming Pest Control System using Internet of Things [IOT]	Dr.A.Narendra Babu Dr. Satyanarayana Talam Dr.P. Rakesh Kumar Mr. Kalaga Venkata Ashok Dr.Seelam Pichi Reddy	202341073773	30/10/2023	15/12/2023
21.	An Implementation method for 50 GBPS 200 Km Optical Wireless Communication System using Preemphasis Technique	Dr. M. Venkata Sudhakar, Dr. Satyanarayana Talam	202441014657	28/02/2024	08/03/2024
22.	Multi Utility Wheelchair for Crawling People	Dr.Boddupalli Venkata Naga Raja Siva Kumar, Dr.Seelam Pichi Reddy, Dr.E.V.Krishna Rao, Pamula Narendra Babu, Annamdasu Nageswara Rao, Syamala Subba Reddy	202341065948 A	30/09/2023	20/10/2023

SI.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Granted/Published Date
23.	A Novel System for identifying Cyber Security Attacks using Artificial Intelligence	Mr. Kuchinad Vaishak, Mrs.P R Rajakumari, Mr. Jaswant Narendra Saxena, Mr. Ananya Nagraj, Mrs. Pavani Kollamudi , Mrs.C.Radhika, Dr.K.G.S.Venkatesan, Mr.D.Anandan, Dr.S.Vinod Kumar	202341069360 A	14/10/2023	24/11/2023
24.	Arduino Embedded T-Shirt for Continuous Monitoring of Cardiac Health using ECG Signal	Dr. Surendra Bhosale, Dr. Abhay Kshirsagar, Shumali Gupta, Dr BVNR Siva Kumar , Dr Kapil Gupta	202321075820A	06/11/2023	08/12/2023.
EEE -02					
25.	A Deep Learning Approach For Implementing Iot In Hybrid Electric Vehicles For Energy Management	1) Dr.G.NageswaraRao 2)S Muthurajan 3)Dr. Soumya Mishra 4)Dr Ajay D. Dahegaonkar 5)U R Sankar Yalavarthy 6)Gbsr Naidu 7)Dr. Srijan Paul 8)Dr. Pinaki Ranjan Duari 9)Suraj Yadav 10)Prof. Prashant Adsule 11)Dr B.Karunamoorthy 12)V Balaji	202441021004 A	20/03/2024	29/03/2024
26.	Forecasting Electric Vehicle Charging Station Preference Through Shap-Based Machine Learning Method	1)Sakthivel M 2)Dr. Mulla Suleman Basha 3)Dr. G. Nageswara Rao 4)Lingraj M Kale 5)Dr. Pawan Kumar Sharma 6)Pankaj Kumar Dubey 7)Dr. Alla Srivani 8)Kalagotla Chenchireddy 9)Sandip Kumar Das 10)P Mani 11)Dr. Jyoti Prasad Patra 12)Banupriya V	202341051110 A	29/07/2023	01/09/2023
IT-01					
27.	A Computational Method For Brain Tumor Classification Using Hybrid Deep Intelligence Model On Mri Images	Dr. Annapareddy V N Reddy, Dr. Phaneendra Kanakamedala, Dr. Buraga Srinivasa Rao, Rajasekhar Kommaraju, Dr. Satuluri Naganjaneyulu, C H Sambasivarao, Raviteja Kamarajugadda, Dr. Y. Vijay Bhaskar Reddy	202341073772 A	30/10/2023	15/12/2023
MECH-09					
01-08-2024 Annual R & D Report: AY 2023-24 R&D Cell @ LBRCE Page 5 of 8					

SI.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Granted/Published Date
28.	A Control System For Internal Combustion Engines Utilizing Flexible Alternative Fuels And Method Thereof	Mr. Alias Paul Sudheer Kumar Battula Dr. S. Thiruchitrabalam Dr.K.Balasubramanian Mr. Md. Farid Hossain Dr. P. Suresh Kumar Mr. M. Sudhakar	202341042495	25/06/2023	07/07/2023
29.	Mono Wheel Bicycle With Enhanced Stability And Maneuverability	GANDHAM YEDUKONDALU Dr. T. Srinivasa Rao Dr. K. Satyanarayana Mr. B. Sudheer Kumar Mr. V. Kiran Kumar Ms. M. Lakshmi Vinitha Dr. SK. Jakeer Hussain Nadavapalli Venkata Naga Gopala Joga Rao	202341062471	17/09/2023	06/10/2023
30.	Effect of fuel injection pressure on performance and emission characteristics of DI-CI engine with shea olein biodiesel	Dr. K.Bhaskar Mutyalu Mr. V.Venkatrami Reddy Mr. K.V.Jawahar Mr. K.Lakshmi Prasad Dr. Gopala Rao Thellaputta Dr. Kiran Kumar Billa Seelam Umamaheswara Reddy K. Sai Babu Mr. K.Ramprasad Vidya Sagari K	202341082074	02/12/2023	22/12/2023
31.	Coconut Coir Fiber Reinforced Epoxy Composite With Cement Filler	Srinivasa Rao Kamana, Dr G. Bala Murali Krishna, Siva Sankara Babu Chinka , Dr Jeevan Kumar N, Dr P Vasanth Kumar	202341063961	23/09/2023	06/10/2023
32.	An IoT Enabled Smart Electric Bicycle	Lakireddy Bali Reddy College of Engineering, Dr. V.Dhana Raju ,SeelamPichi Reddy, Dr. M.B.S.Sreekar Reddy, J.Subba Reddy, Dr. Y. Amar Babu, G.Jitendra, Sai Vyshnavi, Dr.P.Rakesh kumar, Dr. G.Nageswararao	202441014564 A	28/02/2024	08/03/2024
33.	Fabrication of Aqua Oxidizer	K. Lakshmi Prasad V.Venkatramireddy Dr.V K Viswandha Raju S Rama Krishna M.Sundar Rao D.Sridevi Ch.Usha K. Bhaskar Mutyalu	202441040681 A	24/05/2024	31/05/2024

SI.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Granted/Published Date
34.	Utilizing self-healing materials for IOT Enabled Infrastructure maintenance and repair in data communication networking	N. Rajesh Babu Narender Chinthamu A.Anansraj Rinoo Rajesh Nitin Kumar Dhimole Varimadugu Sandhya Jyothirmayi Narne Dr. Siva Sankara Babu Chinka Sivasankara Raju R M A Stephenraj	202441027525	03/04/2024	12/04/2024
35.	A Novel method for fabricating leaf spring using E glass/ Epoxy composites for light Heavy Vehicles	Gandham Yedukondalu Dr.T srinivasa Rao Dr. K. Dileep Kumar Dr.Sk. Jakeer Hussain Dr.K.Satyanarayana M.Avinash M.Lakshmi Vinita	202441008457 A	07/02/2024	08/03/2024
36.	Design And Analysis Of High Strength To Weight Backhoe Loaders	Sathishkumar Natesan S Bala Mohan K S Sriram Frank Gladson T S Dr V Gopal Dr. S. Rajesh Ruban Dr R Prabu Jonnala Subba Reddy G. M. Pradeep G. Ashwin Prabhu C. Anand	202441012315 A	21/02/2024	15/03/2024
Patents Granted under Design Category - 06					
37.	Iot Based Wireless Rain Gauge Device	Mr. Anandbabu Gopatoti Dr.P.Ranjith Kumar ,Dr.C.Sateesh Kumar Reddy ,Dr.Poornaiah Billa	377317-001 (Design Grant)		25/10/2023
38.	Artificial Electronic Hand With Electromyographic Signals	Ankit Kumar Dwivedi, Dr. Abhay Kshirsagar, Dr B V N R Siva Kumar , Prof Pratha Mishra, Hardev Singh Pal, Dr Rovin Tiwari	396426-001 (Design Granted)		06/11/2023
39.	AI Based Body Scanner	Sankararao Vinjavarapu Dr.Md.Khaja Moinuddin Jothi Soni Manoj Tiwari Abhineet Samadhiya Hansini Medikundu Anna Eswara Kumar	414012-001	18/04/2024	22/05/2024
40.	Dr.P.Nagarajan, Dr.R.Anitha, Dr.K.Sundaramoorthy, Dr.A.V.G.A.Marthanda	Medical waste treatment device	383823-001 (Design Patent)	03/07/2023	
01-08-2024 Annual R & D Report: AY 2023-24 R&D Cell @ LBRCE Page 7 of 8					

SI.	Patent Title	Applicants/ Inventors	Patent No.	Filed Date	Granted/Published Date
41.	Artificial Intelligence Based Thermal Vision Surveillance Robot	Dr. Vadhri Suryanarayana Ms. Janani B Ms.Vidya Prabha Ms. Antara Malakar	413275-001	11/04/2024	
42.	Battery Management Device for Electric Vehicle	Dr. Uma Ravi Sankar Yalavarthi, Dr. Karuna Nidhan Singh, Dinesh Chandramohan, Pramod Kumar Singh, Shailandra Kumar Prasad, Shaik Johny Basha, Davinder Kumar, Balaji Subramanian, Prem Chandra, Dr. Irissappane Dhanusu Soubache	UK Design Patent Grant		