

**DEPARTMENT OF MECHANICAL ENGINEERING
SIDDHARTHA ACADEMY OF HIGHER EDUCATION
(DEEMED TO BE UNIVERSITY)**

IPR Details, AY 2025-26

No of patents published, Granted : 24

S. No	Title	Ref. No	Dept.	Patent Filed Date	Published Date, if any	Name of the Faculty	Status	IPR Type	Processed through Institution/self
1.	Intelligent Learning System For Enhancing Efl And Mathematical Skills With Adaptability And Sustainability In Higher Education	202541064224	ME	04-07-2025	11-07-2025	R. V. Kiran Kumar Sree vidya S Dr.Y B Kariyappagowda MD Ariffuddeen Dr. Vinay saxena Dr. G. P goyal Dr. A shrivastava Dr. brajesh kumar Dr. Deepak dixit K. umare thool P krishna veni A.S harina	Published	Utility	Self

2.	Deep Learning Assisted Framework for Smart Irrigation Prediction and Environmental Monitoring in Agriculture	202541064330	ME	05-07-2025	11-07-2025	R. V. Kiran Kumar Dr.P.jaisankar RVS praveen Dr. V. sadhana Dr. A G sagaya raj Dr.ratna raju mukiri Dr .Ghanshyam das Dr .amith biswas S mohankumar M Eknath sanap Dr .Ashok kumar Dr .Shaminder kumar	Published	Utility	Self
3.	Segmented Valve Mechanism with Integrated Novel Fuel Injection System for Enhanced I.C Engine Performance	202541067613 A	ME	15/07/2025	25/07/2025	Dr.M.Balaji Dr. S.Janakiraman Dr. B.Rajabharaman Dr. T Venkatamuni Dr.P.Arunprasad R Surakasi	Published	Utility	Self

4.	Automatic Braking System for Two wheelers Utilizing Proximity Sensor Based Collision Avoidance	202541072344 A	ME	20/07/2025	15/08/2025	Dr.M.Balaji Dr.B.Raja Bharathi Dr.S.janakiraman Mr.Mohankumar Kalimutthu J venkugopal Dr.P.suresh kumar R Rajaprasanna	Published	Utility	Self
5.	Machine Learning-Enabled Iot Device for Early Detection Of Plant Leaf Diseases Using Image Processing	202541071118	ME	25-07-2025	01-08-2025	RVS Praveen R.V. Kiran Kumar Kala K U Dr suniti kumar Mrs.S. Anusha Dr. Deepa Jananakumar Dr.K.Nanthitha Senthil kumar M Mr.sudhakar P S Ms.S.R.ramya S Suganya R Dhivya	Published	Utility	Self

6.	A MACHINE LEARNING-Enhanced Dna Nanotechnology Approach For Cancer Diagnosis And Targeted Therapy	202541071214	ME	26-07-2025	01-08-2025	M.S.V.D.Sudarsan R. V. Kiran Kumar G manjunatha Dr.C.C premakumari Dr.Sanjeev kumar Dr.Amith chauhan Dr.Mamata Dr.Rakesh K Dr. M Shunmugasundaram Dr.Vishnu kiran M S N Lakshmi K Vishnupriya	Published	Utility	Self
7.	Portable Tabletop Groundnut Shell Removal Machine	202541071170	ME	26 /07/ 2025	01/08/2025	P. Gopinadh Chowdary G. Jamuna Rani, S Indrasena Reddy	Published	Utility	Self
8.	Machine Learning-Assisted Self-Healing Polymer Composites with Embedded	202541075991	ME	10-08-2025	05-09-2025	R. V. Kiran Kumar Dr.Krishna Prasad S Dr.E A Duodu Praveena Rao Dr.Blessy B Dr.M.Srinivasa Rao	Published	Utility	Self

	Microcapsules for Intelligent Crack Detection and Repair					G .Durgadevi N M. Narkhede Dr.S M Subhramanian N A upadhye Dr.Pramod Nagraaj V K Suryawanshi			
9.	IOT based Manhole Detection and Monitoring System	202541077988	ME	16/8/2025	29/8/2025	Ponnaganti Gopinadh Chowdary G. Jamuna Rani V.Tarun K.Someswara rao D.Nikhil B.Tilak	Published	Utility	Self
10.	Iot-Integrated Ai Controller For Real-Time Battery Temperature And Load Balancing In Electric Vehicles	202521074654	ME	06-08-2025	15-08-2025	S Kanungo Dr. R. V. Kiran Kumar M Karthik kumar Dr Janarthanam S Dr Vaibhav Baburao Dr.Neeraj Jain Dr.Rajkumar	Published	Utility	Self

						<p>Kundlik C L.Boopalan A.D.Kanmani S Arunkumar Dr.Irissappane D S S.Anantha K</p>			
11.	<p>An Intelligent Machine Learning System For Optimizing Power Output In Photovoltaic Arrays Under Partial Shading Conditions</p>	202541077953	ME	16-08-2025	29-08-2025	<p>1 . Dr.Venkata Kiran Kumar Ravi 2 . Dr. Rajkumar Kundlik Chougale 3 . Prof. Mukesh Kumar Singh 4 . Vibhu Sharma 5 . M.Kalidasan 6 . V P Krishnamurthy 7 . Dr. Praveenkumar Arjun Patel 8 . Gowdhami K 9 . Ramala Ashok 10 . P. V. Muralikrishna 11 . Salina pooja 12 . Dr. Pritam Chattopadhyay</p>	Published	Utility	Self

12.	Integrated Health Monitoring System For Kidney Stone Prediction Based On Biochemical Urine Parameters And Machine Learning	202541074567	ME	05-08-2025	05-09-2025	1 . Dr.Venkata Kiran Kumar Ravi 2 . Dr Reji Manjunathan 3 . D Sudheer Reddy 4 . Leka K K 5 . Ramesh Dahal 6 . Dr Simi Sam 7 . Dr.Divvela Srinivasa Rao 8 . Dr Logeshwari Dhavamani 9 . Dr Niyaz Hussain A M J 10 . Dr M Rambabu 11 . Dr.S.Balakrishna 12 . Dr.Soubache. I.D.	Published	Utility	Self
13.	ML based Computer Device for Predictive Stress Analysis	6470326	ME	05-09-2025	24-09-2025	Dr. R. V. Kiran Kumar L S Vageshappa, V. Sivasubramaniam, Dr.A Murali, Dr. R. Ranadevan, Sk. Balkhi Banu,	Grant	Design	Self

						Dr, S.K Guptha, M V Unni, D S Jadhav, V Sankaranarayanan			
14.	AI-Based Nerve Activation Device for Healthcare Treatment	6474125	ME	21-09-2025	30-09-2025	Dr. R. V. Kiran Kumar G. Ravi Sankar, P S paulraj, M Aruna, V S P Rani, A Raviteja, Dr. Rakesh Ashok more, Sk. Babu, Dr. R Rajakumaravelu, M.E Sanap	Grant	Design	Self
15.	Automated, Bluetooth Controlled KitchenScrubBot	202541108077	ME	07-11-2025	28-11-2025	1 . MALLADI JOGENDRA PRASAD 2 . G Jamuna Rani 3 . T. Sai Venkata Pavan 4 . G. Uday Kiran	Published	Utility	Self

16.	Multi-Purpose Staircase Lift	202341075979 A	ME	07/11/2023	11/07/2025	1 . Guduru Venkata Maruthi Abhiram 2 . Dr. M.Balaji 3 . R.Naveen 4 . M.A.H.Irshad	Published	Utility	Self
17.	Machine Learning–Driven Predictive Framework for Real-Time Financial Fraud Detection And Prevention	202541115544	ME	22/11/2025	05/12/2025	1 . Dr. Akana Chandra Mouli Venkata Srinivas 2 . Veernapu Sudheer Kumar 3 . Dr.B.Gopinath 4 . Dr. K.Siva Nageswara Rao 5 . Dr.S.Nithyakalyani 6 . Dr.M.I.Thariq Hussan 7 . Dr.J.kavitha 8 . Dr Devendra Ajit Dagade 9 . Umamaheswari.P 10 . Dr. Dhananjay 11 . S.Rajeswari 12 . S.R.Ramya	Published	Utility	self

18.	Machine Learning Approach to Student Performance Prediction and Outcome Analysis in Higher Education	202511073787	ME	03/08/2025	22/08/2025	1 . Dr Manoj Kumar Sharma 2 . Veernapu Sudheer Kumar 3 . Dr. Rani Venkata Satya Praveen 4 . Sriharsha Sista 5 . RaviTeja Aida 6 . Srinikhil Saisatya Vemuri 7 . Balaji Sankar 8 . Dr. Soumitra Mondal 9 . Ismatha Begum 10 . K Gayathri 11 . Rahamathunnisha A 12 . Aparna Chinnaraj	Published	Utility	Self
19.	Computer Device for analysis Crime Patterns	6485798	ME	14/11/2025	20/11/2025	V Sudheer Kumar, K Kavitha, Deepthi rani, A.Lathwal, A.Sangwan, Dr. R A More, P. Rajanna, Ch. Venugopal,	Grant	Design	Self

						S. Chenniappan, A. Pratap Singh			
20.	A Method of preparation of Biofuel	202241032373	ME	06/06/2022	21-01-2026	AN Phani Deepthi	Grant	Utility	Self
21.	IOT Based apparatus for the synthesis of nanoparticles	469019-001	ME	08/08/2025		1. Dr.Venkata Kiran Kumar Ravi 2. Dr. T.S.Karthik 3. Dr. Sachin S. Chourasia 4. Dr.Baburao Gaddala 5. Dr. Mukesh Rani 6. Dr.Babu E R 7. Prof(Dr) Sumit Kumar Gupta 8. Dr. Jyoti Prakash Dhal	Filed	Design	Self

22.	Machine learning based forecasting of crop yield using climate and remote sensing data	202521043062 A	ME	03/05/2025	04/07/2025	1 . Mitushi Soni 2 . Dr.Venkata Kiran Kumar Ravi 3 . Dr. T. Rambabu 4 . Dr Suniti Kumar Kuriyal 5 . RVS Praveen 6 . Dr. Jagdish Chand 7 . Aswini E 8 . Dr. P M Yohan 9 . P. Lakshmi Prasanna 10 . Dr. SK Althaf Hussain Basha 11 . Battula Kasi Viswanadham 12 . S. Prabhavathy	Published	Utility	Self
23.	IOT and Machine learning enabled system and method for smart waste monitoring and optimization in smart cities	2025110055944 A	ME	10/06/2025	04/07/2025	Dinesh Kumar Yadav Dr.Venkata Kiran Kumar RaviAmshavalli M R Kalaivani Dr. Shrinivas Sirdeshpande	Published	Utility	Self

						Usha Ashitha V NaikD.Nagadevi Kaushal Kishore Prakhar Consul Hilal Ahmad Shah Dr. Basab Nath			
24.	Machine learning framework for dynamic financial forecasting and market trend prediction in tourism	202541061331 A	ME	26/06/2025	11/07/2025	1 . Venkata Kiran Kumar Ravi 2 . Dr.K.Rajesh Kumar 3 . Dr. Sreeya B 4 . Dr K Sankar Ganesh 5 . Anubha Gaur 6 . Rahul Bharadwaj 7 . Dr.Sudha Arogya Mary Chinthamani 8 . M.Saravanakumar 9 . Bhagyashree Dabi 10 . Muthukumar K 11 . Hrithick Kanagaraj 12 . Anvesh Perada	Published	Utility	Self