



**DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE  
(AUTONOMOUS)**

(Approved by AICTE & Affiliated to Anna University, Chennai)  
Re-Accredited by NAAC with 'A' Grade

Accredited by NBA for AERO, BME, CSE, ECE, EEE, IT & MECH.

**PERAMBALUR-621212, TAMILNADU, INDIA.**

Website: [www.dsengg.ac.in](http://www.dsengg.ac.in)



S.No.	Project PI/ Co-PI	Name of the Pi & Co-PI	Sector	Title of the Project	Budget	Department
1	PI	Dr.S.Vignesh Raj Head	Biological Sciences	Serotonin-Conjugated Manganese Oxide Nanoparticles for biosensing applications	Rs. 5,00,000	Pharmaceutical Technology
	Co-PI	Dr.K.Karthikeyan Assistant Professor				
2	PI	Dr.K.Karthikeyan Assistant Professor	Medical Sciences	Deciphering the Molecular Mechanism of Pesticide-Induced Genotoxicity through an Intergrated Multi-Omics and Systems Genomics Approach	Rs. 4,90,000	
	Co-PI	Dr.S.Vignesh Raj Head				
3	PI	Dr.Chandran Masi Professor & Head	Agricultural Sciences	Bioprospecting of Kitchen Waste Microbiome for Potent Multi-Enzyme Producing Bacteria and their Application in the Production of Nutrient-Enriched Bio-organic Fertilizer	Rs. 4,95,000	
	Co-PI	Dr.K.Kalanidhi Assistant Professor Dr. P. Jennita Jacqueline				
4	PI	Dr. P. Jennita Jacqueline Assistant Professor	Biological Sciences	Integrated Electro-fermentation-Assisted Co-Fermentation of Lignocellulosic Fruit Peel Waste and CO2 via Mixed Microbial Consortia for Production of Succinic Acid and Polyhydroxyalkanoates (PHAs)	Rs. 4,90,000	
	Co-PI	Dr.Chandran Masi/HoD				
5	PI	Dr.K.Kalanidhi Assistant Professor	Agricultural	Design and Development of a Microwave-Assisted Carbon Dot-Embedded Chitosan Hydrogel for	Rs. 4,80,000	

5	Co-PI	Dr.Chandran Masi Professor & Head	Sciences	DOT-Embedded Chitosan Hydrogel for Controlled Micronutrient and Water Delivery in Sustainable Agriculture	Rs. 4,80,000	
6	PI	Mr. D.Vijayakumar Assistant Professor	Engineering & Technology	Block Shield AI - A Decentralized Block Chain-based Cyber Security Framework	Rs.5,00,000	Cyber Security
	Co-PI	Ms.R.Arunapriya Assistant Professor				
7	PI	Dr.Sutha Professor	Biological Sciences	Smart Portable Diabetic Foot Ulcer Early Detection and Monitoring System using Multimodel Biosensing for Rural Healthcare	Rs.4,78,000	Biomedical Engineering
8	PI	Dr.Shree K V M Professor and Dean / R&D	Environme ntal Sciences	Engineering Sustainable Concrete: Synergistic Effects of Biogenic Calcium Carbonate and Recycled Polymer Inclusions Submitted to	Rs.3,65,000	R&D
	Co-PI	Dr.S.Gopinathan Head and Associate Professor				
9	PI	Dr D Katherasan Professor	Engineering & Technology	Development of Low-Cost Biodegradable Composite Materials from Agricultural Waste for Sustainable Packaging Applications	Rs.4,85,000	Aeronautica l Engineering
	Co-PI	Dr Thirugnanasambanth am R Assistant				
10	PI	Dr Thirugnanasambanth am R Assistant	Engineering & Technology	Development of Low-Cost Sustainable 3D Printing System using Recycled Plastic Waste for Rural Manufacturing Applications	Rs.4,75,000	
	Co-PI	Dr D Katherasan Professor				
11	PI	Dr.R.Aarthy HoD	Engineering	A Data Driven Approach for Monitoirng and Forecasting Animal Attack Risk Using	Rs. 4,20,000	

11	Co-PI	Ms. L.Shakira Banu Assistant Professor	Computer & Technology	and Forecasting Animal Attack Risks Using IoT and Deep Learning	Rs.4,30,000	Artificial Intelligence and Data Science
12	PI	Dr.K.Niranjani Assistant Professor	Engineering & Technology	IoT Based AI Engine for Smart Waste Sorting Robot	Rs.4,65,000	
	Co-PI	Ms. K.Murugeswari Assistant Professor				
13	PI	Dr. A.Yogeshwaren Assistant Professor	Agricultural Sciences	Improved Onion Storage Technology for Enhancing Shelf Life of Onions	Rs.5,60,000	Electronics and Communication Engineering
	Co-PI	Mrs. M.Noorjahan Assistant Professor				
14	PI	Dr.C.Sathish Kumar Associate Professor	Environmental Sciences	Development of Portable Smart Sensor System for Detection of Microplastics in Water	Rs.5,00,000	
	Co-PI	Mrs. R.Gayathri Assistant Professor				
15	PI	Dr. P. Rajeswari	Health Care	Comprehensive cloud-based practice management and nutrient analysis software for ayurvedic dietitians, tailored for ayurveda-focused diet plans	Rs. 6,30,000	
	Co-PI	Mrs. S. Sasikala				
16	PI	Dr. K. Kalaiselvan	Waste Management	Developing innovative solutions for efficient management of waste and conversion to valuable products (Waste to Energy & Recycling)	Rs. 6,40,000	
	Co-PI	Mr. T. Boopathy				

17	PI	Dr.K. Anbarasan. Professor cum Vice Principal	Engineering & Technology	Design and implementation of Smart Electric Vehicle Charging System for Semi-Urban and Rural Areas	Rs.4,95,000	Electrical and Electronics Engineering
	Co-PI	Mr.R.Sathish, Assistant Professor				
18	PI	Dr. M.Parameswari Professor & HOD	Engineering & Technology	Intelligent Crop Protection System using Hybrid Renewable Energy Technology	Rs.4,99,000	
	Co-PI	Mr.G.Chandrasekar Assistant Professor				
19	PI	Dr.K.Velmurugan	Engineering & Technology	Development of sustainable composite materials using 3D printing resin waste for structural and functional applications	Rs. 4,50,000	
	Co-PI	Mr.K.Parameshwaran				
20	PI	Dr.M.Chellappan	Engineering & Technology	n Electronic Waste Using Entrained Flow Ga	Rs. 4, 80,000	
	Co-PI	Mr.S.Sugumar				
21	PI	Dr.M.Vijay	Engineering & Technology	Development and Characterization of HighPerformance Hybrid Bio-Composites from Agricultural Waste (Rice Husk & Sugarcane Bagasse) For Sustainable Construction Applications	Rs. 4,60,000	
22	PI	Dr.S.Anbu	Engineering & Technology	Heat Transfer Enhancement Using Hybrid Nanofluids in Modified Surface Tubes with Different Types of Inserts	Rs. 4,50,000	
	Co-PI	Dr.S.Karpagarajan				

23	PI	Dr.S.Karpagarajan	Engineering & Technology	Development of Wear Resistant Brass Matrix Composites Using Friction Stir Processing	Rs. 4,50,000	
	Co-PI	Dr.S.Anbu				
24	PI	Mr.S.Sudhakar	Engineering & Technology	Smart Face Recognition Based Attendance System Using Raspberry Pi	Rs. 4,46,500	
	Co-PI	Dr.S.R.Parthiban				
25	PI	Mr.R.Rajesh	Engineering & Technology	An offline embedded voice assistance system without cloud dependency	Rs. 3,50,000	
	Co-PI	Mr.K.Parameshwaran				
26	PI	Mr.R.Anandhan	Engineering & Technology	Rheological Characterization of Multi-Phase Shear Thickening Fluids for ballistic application	Rs. 4,95,000	
	Co-PI	Dr.M.Vijay				
27	PI	Mr.T.Jayakumar	Engineering & Technology	Single stage transesterification method for bio diesel production process and testing	Rs. 4,50,000	
	Co-PI	Dr.D.Shanmugasundara				
28	PI	Dr. R. Gopi	Engineering & Technology	AI- driven conversational assistant using Rag for government schemes	Rs. 3,15,000	Computer Science and Engineering
	Co-PI	Mrs. T. Geetha				

29	PI	Mr. S.Saravanan Assistant Professor	Engineering & Technology	AI-Powered Forensic Face Sketch Generation and Identification System	Rs 2,60,000	Information Technology
	Co-PI	Mrs. S.Preethi Assistant Professor				
30	PI	Mr. S.Saravanan Assistant Professor	Engineering & Technology	Smart Borewell Child Detection and Rescue Alert System using IoT	Rs 2,60,000	
	Co-PI	Mrs. T.G.Ramya Priyatharshini Assistant Professor				