

**MKSSS's Cummins College of Engineer of Women, Pune**

**Funded Research Projects**

<b>Sr. No.</b>	<b>Title of Grant</b>	<b>Principal Investigator/ Co-Investigator</b>	<b>Period of Grant</b>	<b>Scheme/ Authority</b>	<b>Status</b>	<b>Sanctioned Amount (INR)</b>
1.	Development of Nano Composite Material	Dr. Avinash Shinde	2024-26	ASPIRE (S.P.P.U)	Ongoing	1,50,000/-
2.	Secured Telerobotic System for HealthCare	Dr. Dipti Patil	2024- 26	ASPIRE (S.P.P.U)	Ongoing	3,00,000/-
3.	Design of AI Based Models and Simulator Tools for Landing and Navigation of Planetary Missions	Dr. Dipti Patil	2024-26	ISRO	Ongoing	16,84,880/-
4.	Design and Development of a Test Rig for Enhancing Energy Efficiency of Solar Air Conditioning System using Integration of Desiccant Wheel for Hot Climate	Dr. Parag Chaware	2024-25	ASHRAE (American Society of Heating Refrigerating and Air Conditioning Engineers)	Ongoing	\$5000 (Rs. 4,13,000)
5.	Design and Development of a test rig to evaluate the performance of solid agricultural waste as green desiccant to enhance the performance of air conditioning system.	Prof. Rujuta Agvekar	2024-25	ASHRAE (American Society of Heating Refrigerating and Air Conditioning Engineers)	Ongoing	\$5000 (Rs. 4,13,000)

6.	Blockchain applicability	Prof. Suchitra Pakale Dr. Anagha Kulkarni	2024-26	MAN Truck and Bus Pvt. Ltd.	Ongoing	13,96,000
7.	Implementation of ML Based DNA Sequencing Hardware Accelerator using FPGA	Dr. Prachi Mukherji Dr. Seema Rajput	2023-28	MeitY	Ongoing	86,00,000 Increased to 1.08 Cr
8.	Ocean Remote Sensing Information Mining & Change Monitoring using Artificial Intelligence	Dr. Ashwini Deshpande	2023-26	ISRO-SPPU	Ongoing	12,70,000/-
9.	Design and development of a test bench to evaluate the performance of various energy recovery devices	Prof. Rujuta Agavekar	2023-24	ASHRAE (American Society of Heating Refrigerating and Air Conditioning Engineers)	Completed	4,08,371/-
10.	Development of Hydro-dynamically Optimum and Smart Sanitation Equipment for Minimization of Water Consumption	Dr. Deepak Watvisave	2020-24	DST	Completed	30,23,724/-
11.	Design of accurate & efficient machine learning autonomous algorithm for guidance & navigation of space landing mission	Dr. Dipti Patil	2021-23	ISRO-SPPU	Completed	11,00,000/-
12.	Fusion of thermal and optical image	Dr. Sunita Jahirabadkar	2021-23	ISRO-UoP	Completed	10,00,000/-

	features in classification of space objects to identify debris using Deep Learning.					
13.	Indian Sign Language recognition using Deep Learning	Dr. Anagha Kulkarni	2020-23	IBM	Completed	11,91,000/-
14.	Mechatronics System Design for weed management, detection of major diseases and harvesting the ripen grapes clusters in vineyards	Dr. Nilesh Kolhalkar	2019-23	ASPIRE (S.P.P.U)	Completed	3,00,000 /-
15.	Experimental Investigation for developing cost effective instrument to predict remaining useful life of engine oil	Dr. A. K. Bewoor, Dr. H. M. Shinde	2019-22	RGSTC Govt of Mah	Completed	16,80,000/-
16.	Development of image quality improvement algorithms for satellite imagery / radiometric data	Dr. Ashwini Deshpande	2018-20	ISRO-SPPU	Completed	8,70,00/-
17.	Extraction of Is from rice husk	Dr. Malini Bapat	2018-20	Swaroop Agrochemical Industry, Nashik	Completed	1,56,874/-
18.	Experimental investigation of Solar Desalination System Using Evacuated Tube Collector and Compound Parabolic Concentrator	Dr. S. A. Kedar Dr. A. K. Bewoor	2016-20	Board of College and University Development, Savitribai Phule Pune University	Completed	1,00,000/-

19.	Experimental investigation of influence of different oil mist parameters and lubrication oils on minimum quantity lubrication	Dr. H. M. Shinde, Dr. A. K. Bewoor	2016-19	Board of College and University Development, Savitribai Phule Pune University	Completed	1,15,000/-
20.	Handwritten Character Recognition for Devanagari Script using Density based Clustering	Dr. Sunita Jahirabadkar	2016-18	Pune Univ. Research Funding	Completed	80,000/-
21.	Development of Digital Photographic Technique for Electrolyte Estimation in Liquid Sample using Flame Photometry	Dr. Anagha Panditrao	2016-17	Ramchandra Dattatray Pratishthan, Pune	Completed	2,00,000/-
22.	Feasibility Study for Shelf Life Prediction Machine for Fruits (Apple)	Dr. Ajit Bhosale	2015-17	Dept. Of Sc. & technology (DST-IDP Cell)	Completed	29,96,457/-
23.	Working Towards Better Photoanodes and DyeSensitizers for efficient Solar cells	Dr. Malini Bapat	2014-15	Pune Univ. Research Funding	Completed	22,000/-
24.	Experimental Investigation of Biocomposites reinforced with natural fibres	Dr. Ravindra Ingle	2013-15	Pune Univ. Research Funding	Completed	2,30,000/-
25.	Biosynthesis of Nano particles and its Applications	Dr. Malini Bapat	2012-14	Pune Univ. Research Funding	Completed	1,10,000/-
26.	J2ME Based cell Phone Driver to Retrieve Info.	Prof. Praful Meshram	2012-14	Pune Univ. Research Funding	Completed	1,20,000/-

	from MySQL Server					
27.	Broadband Micro-strip Patch Antenna For Proximity Sensor Artillery Shells	Prof. S. V. Kulkarni	2012-13	Defence Research & Dev. Organization (DRDO)	Completed	15,00,000/-
28.	Institute for Quantum Computing, Univ. Of Waterloo, Canada	Dr. Vikram Athalye	2011-12	Visiting Scientist	Completed	15,000 USD (~10,00,000)
29.	CFD Analysis Fluid Flow through pipe with twisted tape inserts	Prof. Parag Chaware	2007-09	Pune Univ. Research Funding	Completed	1,50,000/-