



TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE CAMPUS, Chennai- 25

List of approved Science and Technology Projects

Sl. No	Title of Project	Name & Address of Principal investigator	Amount Recommended (Rs.)
Agricultural science			
1.	Formulation of Entomo pathogenic fungi (<i>Beauveria bassiana</i> L.) for the Biocontrol of Insect Pests in Vegetable Crops in Tirupattur district,	Dr.P.Saranraj Assistant Professor & Head, Department of Microbiology Sacred Heart College (Autonomous),Tirupattur-635 601	2,35,000/- for 2 years
2.	Bio prospecting of False Black Pepper (<i>Embelia ribes</i>) for Novel Nematicidal Compounds	Dr.M.Shanmuga Priya Assistant Professor Department of Crop Protection Agricultural College & Research Institute Thanjavur-614 902	2,15,000/- for 2 years
Biological Science			
3.	Identification of bio chemical and Genetic markers for psychiatric disorders - A study using Tamil Nadu Population	Dr.P.Annapoorani Associate Professor & Head, Department of Biochemistry V.V.Vanniaperumal College For Women Virudhunagar - 626 001	2,40,000/- for 2 years
4	Formulation of opuntia ficus and millet based supplement for anemic adolescent girls – A study on iron bioaccessibility	Dr.M.Anbu Malar Assistant Professor Department. of Food Processing Stella Maris College Chennai – 600086	2,40,000/- for 2 years
5	Sensitization and transfer of developed lycopene extraction technology to tomato cultivators of selected districts in tamilnadu to prevent economic loss during deflation of tomato price	Dr.KarthikMohan Assistant Professor Department of Biochemistry E.G.S.Pillay Arts and Science College, Nagapattinam - 611 002	2,30,000/- for 2 years
Engineering and Technology			
6	Development of a novel and sustainable low cost strain hardening Cementitious Composites for Structural Retrofitting	Dr. M. Chellapandian Assistant Professor Department. of Civil Engineering Mepco Schlenk Engineering College Sivakasi – 626005	1,60,000/- for 2 years
7	Investigations on enhancing shear-torsional performance of beam-column joints in earthquake- prone structures using Engineered Cementitious Composites (ECC)	Dr. C.Jayaguru Professor Department. of Civil Engineering PSNA College of Engineering & Technology Dindigul – 624622	2,05,000/- for 2 years

8	Design and development of hybrid remotely piloted aircraft system for crop yield estimation	Dr.K.Vijayaraja Professor and Head Department. of Aeronautical Engg., KCG College of Technology, Karapakkam,Chennai - 600 097	2,10,000/- for years
9	Developing functionally graded lattice structures in additive Manufacturing for aerospace applications	Dr.L. Balamurugan Professor Department. of Mech. Engg. St.Joseph's College of Engineering, Chennai 600 119	2,10,000/- for 2 years
10	Flow Control in sustainable water resource management in urban towns of Chennai.	Dr. L.Anand Assistant Professor, Department of Networking and Communication SRM Institute of Science and Technology Kattankulathur – 603 203	2,20,000/- for 2 years
11	Development of Monitoring and Regulatory system for Cardiorespiratory signals with the help of MEMS Piezo resistive pressure sensor and IoT directed Traditional Acupressure Technique.	Dr.M.Latha Associate Professor Department. of EEE A.V.C. College of Engineering. Mayiladuthurai-609 305	2,05,000/- for 2 years
12	Design and implementation of Autonomous hybrid Renewable Power Generation for irrigation with IoT based Energy management controller	Dr.N.P.Ananthamoorthy Professor and Head Department. of EEE Hindusthan College of Engineering and Technology Coimbatore- 641 032	2,29,000/- for 2 years
13	Design and Development of Smart Robot to Nagapattinam Government Headquarters Hospital for Assisting Healthcare workers in Outbreak COVID-19	Dr.M.Durairasan Dean University College of Engineering, Thirukkuvalai, Nagapattinam – 610 204	1,97,500/- for 2 years
14	Design and Implementation of Robot for women's safety using IoT	Ms.S.Suganthi, Assistant Professor, Department. of Computer Science Engineering, G.Venkataswamy Naidu CollegeKovilpatti – 628 502	1,80,000/- for 2 years
15	Intelligent Unmanned Aerial Vehicle Platform for Forest Farm Fire Surveillance and High Precision Aerial Seeding	Dr.S.Geetha, Professor and Associate Dean VIT – Chennai – Campus, Chennai – 600 127	1,48,000/- for 2 years
16	Curating Proteogenomic big data for precision Medicine through deep learning	Dr.G.Tamilpavai, Professor and Head, Department. of CSE, Government College of Engineering, Tirunelveli – 627 001	60,000/- for 2 years

Environmental sciences			
17	Evaluation of Enriched Bacterial Consortium for the Treatment of Ammonia and Nitrite in Aquaculture Waste Water	Ms.D.Manimekalai, Assistant Professor, Department of Aquatic Environment Management, Fisheries College and Res. Institute, Tamilnadu Dr.J. Jayalalithaa Fisheries University, Thoothukudi – 628 008	1,75,000/- for 2 years
18	Dye degradation by Graphene oxide doped transition metal catalysts for water treatment	Dr.S.Stephen Rajkumar Inbanathan Associate Professor, Department. of Physics, The American College, Madurai- 625 002	2,10,000/- for 2 years
19	Assessment of trophic state in major lakes and reservoir of Chennai Metro City using High Resolution Satellite Imagery	Dr A Vidyasakar Asst. Professor, Department. of Geology, Periyar University PG Extension Centre,Dharmapuri – 636 701	2,13,500/- for 2 years
Physical science			
20	Extraction, Characterization, Linear and nonlinear optical Properties of Natural Pigments from Indian Traditional medicinal plant doped Polymer nano composites for nonlinear optical Applications	Dr. S. Jeyaram, Associate Professor, Department of Physics, Surya Group of Institutions, Vikravandi-605 652	2,60,000/- for 2 years
21	Synthesis of Nitrogen Doped TiO ₂ Pyridinic Nitrogen RGO Nanocomposite for Energy Storage devices	Dr.P.Wilson, Principal Secretary, Madras Christian College, East Tambaram, Chennai – 600 059	2,40,000/- for 2 years
22	Development of Guar gum / nanoparticle based bionanocomposites films for active food packaging applications	Dr.S.Rajkumar, Assistant Professor, Department of Chemistry Karpaga Vinayaga College of Engg. and Tech. Maduranthagam-603308	2,45,000/- for 2 years
Medical Sciences			
23	Fabrication of multiplexed point-of-care-diagnostic device and its testing	Dr.K.M.Sakthivel, Assistant Professor (SG), Department of Biochemistry, PSG College of Arts and Science, Coimbatore-641 014	1,90,000/- for 2 years
24	Identification of novel kinase inhibitors as Oncotherapeutics using systematic drug repurposing approach	Dr.S.Sugunakala, Assistant Professor and Head Department of Bioinformatics, A.V.C.College, Mayiladuthurai-609305	2,20,000/- for 2 years

Social Sciences			
25	A Study on Assessment of Nutritional status and reproductive health status among selected adolescent girls living in slum areas of Madurai District and impact of ICT based dietary intervention	Dr.S.Geethanjali, Assistant Professor, Department of Home Science, Mother Teresa Women's University, Madurai – 625 019	2,10,000/- for 2 years
26	Data – Driven Technology against climate change impact towards enhancing the sustainable agriculture : A study of central Districts in Tamilnadu	Dr.M.Surulinathi, Assistant Professor, Department. of Library and Information Science, Bharathidasan University, Trichy – 620 024	2,10,000/- for 2 years
Veterinary Sciences			
27	Efficacy Bacteriocins from Probiotics in Eliminating Mastitis Organisms in Dairy Cattle by Invitro Studies	Dr. Rita Narayanan, Professor and Head, Department of Food Processing Technology, College of Food and Dairy Technology, Chennai 600 052	2,50,000/- for 2 years
Total			56,08,000/-

