



KALASALINGAM

ACADEMY OF RESEARCH AND EDUCATION

(DEEMED TO BE UNIVERSITY)



Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A" Grade
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Office of Research and Development

Total No. of Ongoing Research Projects (2018-2022) : 54
Total Amount : Rs. 15,50,67,909

List of Funded Projects – Ongoing

S. No	Title of the Project	Principal Investigator(s)	Funding Agency	Amount Sanctioned in Rs.	Approval letter Number and Date
1.	Study on the effect of heat treatment on 3D printed Su-718 Material	Dr. J.T. Winowlin Jappes/ Mechanical Dr. M. Adam Khan/ Mechanical	DRDO	987900	GTRE/MMG/BMRI/1035/18/CARS/A/18 dt 29/05/18
2.	Elucidating the role of PPAR alpha in the development of doxorubicin-induced cardiomyopathy	Dr. Sankarganesh Arunachalam/ Biotechnology	SERB	1000000	EMR/2016/003548 dt 05/06/18
3.	Use of recombinant bacteriophage as a novel delivery vehicle for viral CTL epitopes	Dr. K. Sundar/ Biotechnology	SERB	4429600	EMR/2016/003035 dt 16/07/2018
4.	Investigation on the performance of Abrasive Water Jet Machining on Armor Steel	Dr. M. Uthayakumar/ Automobile Engineering Dr. S. Thirumalai Kumaran/ Automobile Engineering	DRDO	1135000	CVRDE/MMG/SPC/127/17-18 dt 27/07/18

5.	Resilient and optimal micro-Energy-grid (ROME)	Dr. Seshadhri Srinivasan/ICE Dr. V. Vasudevan/CSE Dr. B. Subathra/ICE	International Bilateral Cooperation Division	1989000	INT/NOR/RCN/ICT/P-05/2018 dt 06/08/18
6.	Unraveling the physiological mechanism of heartfulness meditation, Pranahuti-mediated benefits on cardiovascular risk	Dr. Sankarganesh Arunachalam/ Biotechnology	DST	4613968	DST/SATYAM/2017/119(G) dt 20.09.18
7.	A study on Hazard and Risk Assessment of firework industries in Sivakasi, Virudhunagar District, Tamilnadu	Dr. R. Ramalakshmi/ CSE A. Robert Singh/CSE	DST-NSTMIS	2790000	DST/NSTMIS/05/312/2017-18 dt 29.10.2018
8.	An IoT based Smart Artificial Pancreas and an ICT Platform for Treating Diabetes in Elderly	Dr. S. Seshadhri/Biom edical Dr. B. Subthara/ICE, Dr. Kim/ECE	DST-SEED	5640886	SEED/TIDE/2018/59/G dt 13.11.2018
9.	A Smart Alginate-Pectin-Selenium nanoparticle scaffold and its application in cardiac tissue engineering	Dr. A. Muthukumar/ Biotechnology	SERB	1788000	EMR/2017/004073 dated 29-11-18
10.	Biological Treatment of Hazardous Sludge from Petroleum Refinery Industry	Dr. Naresh Kumar Sharma/ Biotechnology Dr. S. Vanitha/ Civil Engineering Dr. C. Sivapragasam/ Civil Engineering	Universiti Teknologi Petronas, Malaysia	177994	170_20181219_KARE_MAMY dt 19.12.2018 (US\$2600)

		Dr. M.Swaminathan / Chemistry			
11.	FIST	Dept. of EEE	DST	2700000	SR/FST/ET-I/2018/214 dated 20-12-18
12.	Investigations on rare earth metal doped metal molybdate nanocomposites prepared by microwave assisted combustion method for catalytic and energy storage applications	Dr. S. Asath Bahadur/ Physics	UGC-DAE	679320	CSR-KN/CRS-103/2018-19/1042 dated 26-12-18
13.	Corrosion studies on 316 SSB4C composite prepared by powder metallurgical route	Dr. S. Thirumalai Kumaran/Auto mobile Engineering Dr. M. Uthayakumar/ Automobile Engineering	UGC-DAE	679320	CSR-KN/CRS-115/2018-19/1053 dated 26-12-18
14.	Investigation of Lithium Based Metal Oxides and CNT Based Nanocomposites for Lithium Ion Capacitor Applications	Dr. N. Nallamuthu/ Physics	SERB-TARE	1830000	TAR/2018/001 323 dt 22-02-19
15.	Self-Sustaining Photo Bio-Catalytic Reactors with Concomitant Biofuel Harvesting from Crepe Cotton Wastewater	Dr. Naresh Kumar Sharma/ Biotechnology	SERB-TARE	1830000	Tar/2018/0008 18 dt 27-02-19

16.	Evaluation of Solar PV System Performance under Partial Shading Conditions	Dr. A. Ramkumar/EEE	IEI	149000	R.6/2/DR/2019 - 20/DR2020002 dt 20.05.2019
17.	Micromachining of Biomedical Materials (Shape Memory Alloys) using Acidithiobacillus Ferrooxidans and Thiooxidans Microorganism	Dr. S. Rajesh/ Mechanical Engineering Dr. M. Uthayakumar/ Automobile Engineering	SERB	2572400	DST/TDT/AMT/2017/160(G) dt 03.06.2019
18.	3D printed flexible optical fibers using biodegradable PHBV/Graphene Nanocomposites for Biophotonics applications	Dr. N. Rajini/ Mechanical Engineering	International Bilateral Cooperation Division	780000	DST/INT/Thai/P-08/2019 dt 15-06-19
19.	Development of Hybrid Imidazole-Metal Halide (IMZ-MX) and Guanidine-Metal Halide (Gund-Mx) Derivative Perovskite Materials for Solar Cell and Tunable Solid State Light Emitting Applications	Dr. M. Krishna Kumar/ Physics	CSIR	1008572	03(1468)/19/EMR-II dt 05.08.19
20.	DST-NIMAT	Dr. J. Deny/Electronics and Communication Engineering	NIMAT	380000	EDII/DST-NIMAT/19-20/324 dt 12.08.2019
21.	AICTE Margdarshan	Dr. J.T. Winowlin Jappes/Mechanical	AICTE	3000000	58/14/RIFD/Margdarshan/2019-20 dt 06.09.2019

22.	Scientometric Assessment of Research Trends in Precision Agriculture: Global and Indian Perspectives	Dr. G. Rajaraman/Agri culture Dr. D. Gnanasekaran/Library	NSTMIS	2004000	DST/NSTMIS/05/12/2018-19 dt 23.09.2019
23.	TNSCST Poly House and Training	Dr. G. Rajaraman/Agri culture Dr. D. Gnanasekaran/Library	TNSCST	7735000	TNSCST/TDC/MOU/Grant/2019 dt 24.10.2019
24.	Bibliometric study of soft computing techniques and its applications	Dr. S. Ramkumar/Computer Applications	NSTMIS	3031603	NSTMIS/2019/342 dt 06.11.2019
25.	Food Safety and Quality Analysis on Flexible Nanostructured Substrates by Surface Enhanced Raman Spectroscopy	Dr. Naidu Dhanpaul Jayaram/Physics	SERB	3201000	SRG/2019/001576 dt 17/11/2019
26.	S&T Tinkering Workshop and Demonstration for School Children in districts of Madurai, Tirunelveli & Rameshwaram (aspirational districts) and Chennai	Dr. S. Seshadhri/Biom edical Dr. B. Subathra/ICE	DST-NCSTC	3720000	CO/B/FB/G09/2019 dt 10.12.2019
27.	Sustainable Materials	Dr. M. Uthayakumar/Automobile Engineering Dr. P.	Poland National Science Academy	3000000	PPI/APM/2018/1/00027 Dt 12.02.19

		Balamurugan/M echanical Engineering			
28.	Analysis of the Quality Usefulness of Higher Education Institutions with Special Reference to Southern Tamilnadu	Dr. B. Shanmuga Priya/Business Administration	AICTE	500000	8-155/RIFD/RPS (Mgmt.)/policy -1/2018-19 dt 13.02.2020
29.	Use of Software tools in Finite Element Analysis (FEA)	Dr. I. Siva/Mechanical Engineering	AICTE	300000	34-65/397/RIFD/S TTP/Policy-1/2018-19 dt 21.02.2020
30.	Cyber Physical Systems (CPS): Design Techniques and Applications	Dr. P. Sivakumar/Electronics and Communication Engineering	AICTE	400000	34-65/396/RIFD/S TTP/Policy-1/2018-19 dt 21.02.2020
31.	Organization of STEM Exhibition & Activity Corners for Rural Students of Virudhunagar District, Tamil Nadu	Dr. P. Sivakumar/Electronics and Communication Engineering	DST-NCSTC	1161000	CO/A/FP/E71/2019 dt 02.03.2020
32.	Career Perception of SC/ST students in Institutions of Higher Learning Planning	Dr. S.P. Balakannan/Information Technology	AICTE	1577800	65-09/IDC/SPDC/POLICY-1/2019-20 dt 03.03.2020
33.	Establishment of STI hub for production of ecofriendly and economical products to improve the socio-economic status of SC population in Srivilliputhur	Dr. R. Kanniga Devi/Computer Science Dr. N. Rajini/Mech Dr. M. Muthukannan/Civil Dr. C. Ramesh	DST-SEED	23843900	DST/SEED/SC SP/STI/2019/127/G dt 03.03.2020

	block, Virudhunagar District, Tamil Nadu State	Babu/Civil Dr. V. Kannan/Agri			
34.	In-situ Development and Investigation on the Shape Memory Assisted Biodegradable Electronic Devices Substrates using 3- D Printing	Dr. J.T. Winowlin Jappes	AICTE	2062745	File No. 8- 64/FDC/RPS (Policy I) 2019- 20 dt 14.08.2020
35.	Bibliometric analysis of global and Indian contribution in Pharmaceutical research	Dr. C. Sowmya/ Pharmacy Dr. D. Gnanasekara n/Library	DST- NSTMIS	1876600	DST/NSTMIS/ 05/13/2018-19 dt 25.08.2020
36.	Developing an extract of Sida cordifolia as a therapy for epilepsy	Dr. K. Sundar/Biotech Dr. T. Kathiresan/ Biotech Dr. K. Selvaraj/Biotech Dr. C. Ramalingan/ Chemistry	DBT	2432000	BT/PR36633/T RM/120/277/20 20 dt 15.09.2020
37.	Determination of Special Purpose Sampling Plans Based on the Taguchi Process Capability Index	Dr. S. Balamurali/ MCA Dr. P. Jeyadurga/ Mathematics	SERB	1806332	CRG/2020/005 078 dt 31.12.2020
38.	Evaluation of methods for reducing the Total Acid Number (TAN) of Lubricant Oil	Dr. N. Selvapalam/Che mistry	DRDO	920000	GTRE/MMG/B MR1/1257/CA RS/A/20 dt 03.02.2021

39.	ATAL Community Innovation Center	Dr. B. Subathra/ICE Dr. V. Vasudevan/CSE	ATAL	25000000	15014/09/2021- AIM-ACIC- Kalasalingam Innovation Foundation- KARE dt 30.03.2021
40.	Evaluation of biocompatible collagen-chitosanselenium nanoparticles (SeNPS) scaffold for cardiac tissue engineering applications in wistar rat	Dr. A. Muthukumaran/ Biotechnology	ICMR	1800000	35/12/2020- Nano/BMS dt 19.03.2021 (Received 692160)
41.	Non-Invasive Sonometer along with clinically practiced DEXA images for estimating bone mineral density for osteoporosis detection in elderly women	Dr. M. Pallikonda Rajasekaran/EC E Dr. G. Vishnuvarthana n/Biomedical Dr. V. Muneeswaran/E CE Dr. M. Thirumurugan/ Ve, Hospital	DST- BDTD	2840200	TDP/BDTD/28 /2021(G) dt 24.03.2021
42.	On colouring distance graphs and related applications	Dr. V. Yegnanarayanan /Mathematics	NBHM	1515900	NBHM(R.P)/R &Dii/8007 dt 13.07.2021
43.	Modernization of Microprocessors and Microcontrollers Laboratory and re-designation as Embedded System and Robotics Laboratory	Dept. Of Electronics and Communication Engineering	AICTE- Modrob	700000	F.No.9-308/ RIFD/MOD/Po licy- /20 I 8-1 9 dt 17.08.2021

44.	Up gradation of Gas Dynamics and Jet Propulsion Laboratory	Dept. of Mechanical Engineering	AICTE-Modrob	1100000	F.No.9-308/RIFD/MOD/Policy- /20 I 8-19 dt 04.12.2019
45.	Development of Science and Technology Software for School Children through Skill building activities	Dr. B.S. Murugan/Computer Science and Engineering	DST-NCSTC	3530000	CO/B/FP/G76/2021 dt 24.09.2021
46.	Demonstration and Popularization of Science and Technology Through Science Exhibition and E-Demonstration in Madurai, Theni, Tenkasi Districts of Tamilnadu	Dr. S. Suprakash/IT	DST-NCSTC	2275000	CO/A/FP/E95/2021 dt 08.12.2021
47.	Validation and digitization of indigenous medicinal knowledge of tribes of The Nilgiris, Namakkal, Thiruvannamalai and Tirunelveli districts, Tamil Nadu	Dr. P. Deepalakshmi/CS	DST-SEED	3000000	DST/SEED/TS P/ST1/2020/333 dt 02.03.2022
48.	Value addition and product diversification in Tea	Dr. N. Hariram/Biotech Dr. Sheik Asraf Sheik Abdul Kader/Biotech	DBT-NER-BPMC	4633000	BT/PR45264/NER/95/1920/2022 dt 12.03.2022
49.	Mechanistic Investigation on EMT targeted nanotherapeutics for drug-resistant triple-negative breast cancer cells	Dr. T. Kathiresan/Biotech Dr. K. Sundar/Biotech Dr. K. Selvaraj/Biotech	DBT-NER-BPMC	5830200	BT/PR44695/NER/95/1880/2021 dt 16.03.2022

50.	Development of sustainable agriculture practices for biotic and abiotic stress management in conventional and organic tea plantations	Dr. Perumalla Srikanth/Agri Dr. Muhilan Mahendhiran/Agri	DBT- NER- BPMC	3065669	BT/PR45283/NER/95/1919/2022 dt 21.03.2022
51.	Ion beam irradiation of semiconductor thin films for Surface enhanced Raman spectroscopy application	Dr. Naidu Dhanpal Jayram/Phy	UGC- DAE	45000	CRS/2021-22/02/501 dt 30.03.2022
52.	MSME-TBI	Dr. J. Deny	MSME	0	Sanctioned (25000000)
53.	Study effectiveness of Technology Business Incubators in South India	Dr. J. Deny/Electronics and Communication Engineering	NSTMIS	0	NSTMIS/2019/352 dt 09.10.2019
54.	Unraveling the role of carbon sources on biological activity of curdlan produced by novel marine bacteria	Dr. B. Vanavil/Biotechnology	SERB	0	SR/WOS-A/LS-462/2018 dt 14.05.2019 (Sanctioned 2640000)
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