



LIST OF ONGOING FUNDED PROJECTS – 2018-2023

(Funding Agencies: AICTE, AICTE-Modrob, ATAL, CSIR, DBT, DRDO, DST, DST-BDTD, DST-NCSTC, DST-NSTMIS, DST-SEED, ICMR, IEI, International Bilateral Cooperation Division, MSME, NBHM, NIMAT, NSTMIS, NSTMIS, Poland National Science Academy, SERB, TARE, TNSCST, UGC-DAE, Universiti Teknologi Petronas, Malaysia)



Total Amount: Rs. 12,98,24,310/-



Office of Director (Research and Development)
KARE



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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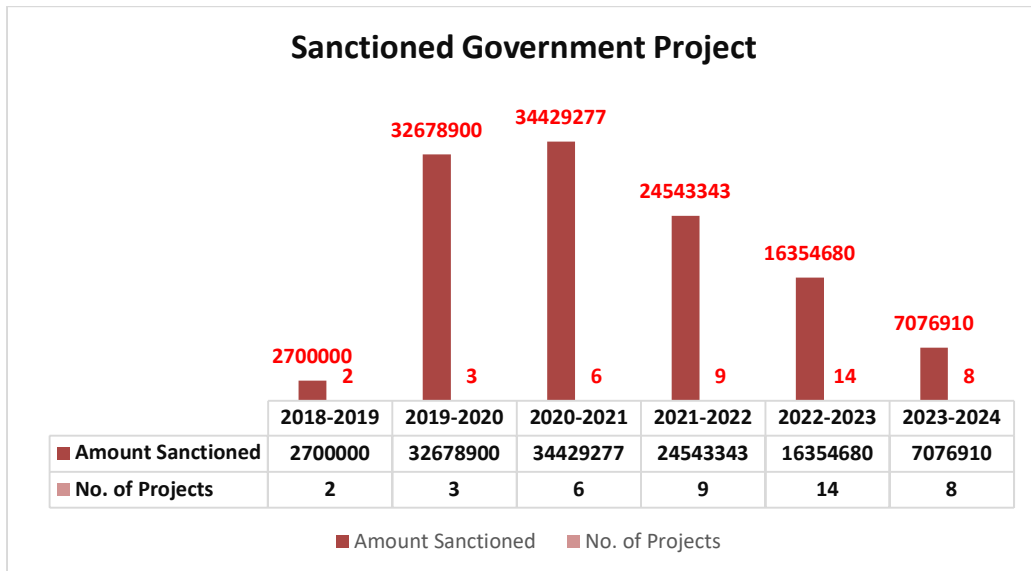


Office of Research and Development

Total No. of Ongoing Research Projects (2018-2023) : 42 Nos.

Total Amount : Rs.12,98,24,310/-

Academic Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024*
No. of Projects	2	3	6	9	14	8*
Amount Sanctioned	2700000	32678900	34429277	24543343	16354680	7076910*





OFFICE OF RESEARCH AND DEVELOPMENT

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Total Amount : Rs.12,98,24,310/-

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.	FIST	Dept. of EEE	DST	2700000	SR/FST/ET-I/2018/214 dated 20-12-18
2.	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
3.	Establishment of STI hub for production of ecofriendly and economical products to improve the socio-economic status of SC population in Srivilliputhur block, Virudhunagar District, Tamil Nadu State	Dr. R. Kanniga Devi/Computer Science Dr. N. Rajini/Mech Dr. M. Muthukannan/Civil Dr. C. Ramesh Babu/Civil Dr. V. Kannan/Agri	DST-SEED	23843900	DST/SEED/SCSP/STI/2019/127/G dt 03.03.2020
4.	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

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5.	Determination of Special Purpose Sampling Plans Based on the Taguchi Process Capability Index	Dr. S. Balamurali/ MCA Dr. P. Jeyadurga/ Mathematics	SERB	1806332	CRG/2020/005078 dt 31.12.2020
6.	Evaluation of methods for reducing the Total Acid Number (TAN) of Lubricant Oil	Dr. N. Selvapalam/ Chemistry	DRDO	920000	GTRE/MMG/BM R1/1257/CARS/A/ 20 dt 03.02.2021
7.	ATAL Community Innovation Centre	Dr. B. Subathra/ ICE Dr. V. Vasudevan/ CSE	ATAL	25000000	15014/09/2021- AIM-ACIC- Kalasalingam Innovation Foundation-KARE dt 30.03.2021
8.	Evaluation of biocompatible collagen-chitosan-selenium 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)
9.	Non-Invasive Sonometer along with clinically practiced DEXA images for estimating bone mineral density for osteoporosis detection in elderly women	Dr. M. Pallikonda Rajasekaran/ ECE Dr. G. Vishnuvarthana/ Biomedical Dr. V. Muneeswaran/ ECE Dr. M. Thirumurugan/ Ve, Hospital	DST-BDTD	2840200	TDP/BDTD/28/20 21(G) dt 24.03.2021 01.07.2023
10.	On colouring distance graphs and	Dr. V. Yegnalarayana	NBHM	1515900	NBHM(R.P)/R&D ii/8007 dt

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	related applications	n/ Mathematics			13.07.2021
11.	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/Policy - /20 I 8-1 9 dt 17.08.2021
12.	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 8-1 9 dt 04.12.2019
13.	Validation and digitization of indigenous medicinal knowledge of tribes of The Nilgiris, Namakkal, Thiruvannamalai and Tirunelveli districts, Tamil Nadu	Dr. P. Deepalakshmi/ CSE	DST-SEED	3064938	DST/SEED/TSP/S T1/2020/333 dt 02.03.2022
14.	Value addition and product diversification in Tea	Dr. N. Hariram/Biotec h Dr. Sheik Asraf Sheik Abdul Kader/Biotech	DBT-NER-BPMC	4633000	BT/PR45264/NER /95/1920/2022 dt 12.03.2022
15.	Mechanistic Investigation on EMT targeted nanotherapeutics for drug-resistant triple-negative breast cancer cells	Dr. T. Kathiresan/Biot ech Dr. K. Sundar/Biotech Dr. K. Selvaraj/Biotec h	DBT-NER-BPMC	5830200	BT/PR44695/NER /95/1880/2021 dt 16.03.2022
16.	Development of sustainable agriculture practices	Dr. Perumalla Srikanth/Agri Dr. Muhilan	DBT-NER-BPMC	3065669	BT/PR45283/NER /95/1919/2022 dt 21.03.2022

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	for biotic and abiotic stress management in conventional and organic tea plantations	Mahendhiran/A gri			
17.	Graphene/Sulphur composite as cathode for improved performance and life cycle of Lithium Sulphur batteries	Dr. T. Theivasanthi/ Physics	MSME	1500000	17(2)/MSME Innovative/PMAC/ 2021-22 dt 23-07-2022
18.	Smart IoT Based Mushroom Cultivation and Edibility Prediction	Dr. Murugeswari/ C SE	MSME	1500000	17(2)/MSME Innovative/PMAC/ 2021-22 dt 23-07-2022
19.	MatsyaRakshak Multilingual IoT based Assist Device for Pisciculture farmers	Dr. B. Perumal/ECE	MSME	1500000	17(2)/MSME Innovative/PMAC/ 2021-22 dt 23-07-2022
20.	SERB International Research Experience Fellowship	Dr. S. Saravanakumar/ Phy	DST-SERB	1533636	SIR/2022/000347 dt 12.05.2022 US\$ 18000 (Rs. 1438636 +Rs. 95000)
21.	Perception of entrepreneurs for effectiveness of DST funded technology business incubators in Kerala and Tamil Nadu on the sustainability of the ecosystem during the crisis situation caused by COVID-19	Dr. J. Deny/ECE Dr. S.B. Inayath Ahamed	NSTMIS -PAC	1600000	Sanctioned 23.06.2022
22.	MSME-TBI	Dr. J. Deny	MSME	2600000	Sanctioned (25000000) 21.11.2021

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23.	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)
24.	Development of Woman Entrepreneurs in Different Sericulture Sectors: Available technological Strategies to Develop a Cluster-Scale sustainable training for Women Empowerment in and Around Virudhunagar Dist	Dr. L. Muthulakshmi	IRD(SC)-DSIR	2007720	TDUPW-11011/3/2021-IRD(SC)-DSIR-dt-21.11.2022
25.	DST- Training Programme on Entrepreneurship	Dr. Deny/ Dr. Perumal/ECE	DST-ETP	720000	09/73/2021-NEB(TR)(G) dt-20-02-2023
26.	Empowerment of the Scheduled Caste Farmers via 'Polymer Composite Mulch' Technology Yield and Quality of Vegetable Crops (23.02.2023)	Dr. P. Pandiyaraj/ Dr. J.T. Winowlin Jappes	SEED/SCSP	7470000	SEED/SCSP/2022/262 Dt:-23-02-2023
27.	Automatic drainage cleaner	Dr.B.Perumal Associate Professor, Dept. of ECE, Kalasalingam Academy of Research and Education Anand Koil Krishnankoil - 626 126	TNSCST	7500	EEE-0765

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28.	A novel jacketed tumbling homogeneous powder mixer for hazard prevention in fireworks	Dr. Aruna Janani V Associate Professor and Head, Dept of Chemical Engineering Kalasalingam academy of Research and Education Krishnankoil-626 126	TNSCST	7500	CHE-078
29.	Design and fabrication of automated fire tender system using GPS for industrial sectors	Mr.T.Rajpradeesh Assistant Professor, Department of Mech. Engg, Kalasalingam Academy of Research and Education Krishnankoil-626 126	TNSCST	7500	EME-0346
30.	Studies on arriving effective disposal methods for firecrackerswaste in and around of Sivakasi Regions	Dr. Meyyappan PL Sr.Associate Professor, Dept of Civil Engineering, Kalasalingam Academy of Research and Education Srivilliputhur-626126	TNSCST	7500	ES-372
31.	Design and synthesis of Cubased multi-metal electrocatalysts for efficient CO2 reduction technology	Dr. Praneeth.K. K Associate Professor, Dept of Chemistry, Kalasalingam Academy of Research and Education Krishnankoil – 626 126	TNSCST	7500	PS-208
32.	Synthesis and characterization of	Dr. A. Samson Nesaraj	TNSCST	7500	PS-209

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	lithium garnetbased materials for application in lithium-ion based electrochemical power sources	Professor, Department of Chemistry, Kalasalingam Academy of Research and Education Krishnankoil – 626 126			
33.	Financial Stability and Reproductive Health Awareness, Practices and Decision Making Capability of Women belonged to the Particularly Vulnerable Tribal Groups (PVTGs)-A comparative, Intervention study with reference to the select Districts in Kerala	Dr. S. Karthik Department of Commerce, Kalasalingam Academy of Research and Education Krishnankoil – 626 126	ICSSR	465000	02/05/2022-23/RP/MN DT:-14-03-2023
34.	Development of paper based micro fluidic devices from biopolymers and its application	Ms. Shalini Department of Biotechnology, Kalasalingam Academy of Research and Education Krishnankoil – 626 126	DBT	1146960	DBTHRDPMU/JRF /BET-22/1/2022-23/262
35.	Gearing Up for The Future – Awareness and Hands-on Learning Experience for the School Children in the Area of IoT and its associated Open-Source Software using Arduino Kits for the Region of Madurai and Theni Districts of Tamilnadu	Dr. Kalpana Murugan Department of Electronics and Communication Engineering., Kalasalingam Academy of Research and Education Krishnankoil – 626 126	SERB-DST	2546000	DT:-01-07-2023
36.	Hands-on activities by using low-cost teaching aid in Science	Dr. K. Karthigadevi Department of	SERB-DST	2639600	DT:05-07-2023

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	and Mathematics at rural schools in Virudhunagar district, Tamilnadu	Computer Application, Kalasalingam Academy of Research and Education Krishnankoil – 626 126			
37.	DermaEye – A handheld non-invasive scanning tool for early skin cancer detection	Mohammed Hussain Shariff Syed Musthafa	Entrepreneurs/MS ME	1500000	F.No.6(19)/Sanction to CNA/Incubation/20 22-2023 DT:08-08-2023
38.	A Study of the Promotion of Creativity and Innovation among Speech and Hearing-impaired School Going Students in Southern Tamil Nadu using ICT Initiatives	Dr. Karpaga Sundaram Department of Visual Communication, Kalasalingam Academy of Research and Education Krishnankoil – 626 126	ICSSR-CIS	430000	ICSSR-CIS-2023-2160 DT:30-08-2023
39.	Troubleshooting the problems in expanding the cultivation of Withania Somnifera in Tamil Nadu: Improving the size of the roots in Planta by Soil with microbiombes elicitors and Precursors	Dr.Palaniselvam, Department of Biotechnology, Kalasalingam Academy of Research and Education Krishnankoil – 626 126	DBT	4925600	BT/PR38869/NDB/ 39/814/2023 Dated 15.09.2023
40.	Development of an automated traffic control system with the smart self-sensing pavement incorporated with piezo-resistivity materials	Dr. C. Freeda Christy	DST-SURE	2476910	SUR/2022/002902 DCT:-05.05.2023
41.	Development of low-cost organic manure from food waste for the welfare of the farmers through	Dr.M.Pallikonda Rajasekaran Dr.S.Vanitha	IIT, Madras Unnat Bharat Abhiyan	100000	No.U-0458/TN/VIR/SSW M/1LAKH/1

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	effective natural process		SEG - Sanitation and Solid Waste Management		
42.	Value addition of Slikworm pupae oil for production of PHA-bioplastics for development for Sustainable food packaging materials	Dr.L.Muthulakshmi (PI) and Dr.Baburaj (Co-PI)	DST	4500000	under the Waste Management Technologies (WMT) Program of TDT Division of DST -dated 21-12-2023