



# KALASALINGAM

## ACADEMY OF RESEARCH AND EDUCATION

### (DEEMED TO BE UNIVERSITY)

Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A" Grade



Anand Nagar, Krishnankoil - 626126. Srivilliputtur (Via), Virudhunagar (Dt), Tamil Nadu | info@kalasalingam.ac.in | www.kalasalingam.ac.in

### Office of Research and Development

Total No. of Ongoing Research Projects

: 46

Total Amount

: Rs. 13,14,46,200.00

### 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.	A Smart Alginate-Pectin-Selenium nanoparticle scaffold and its application in cardiac tissue engineering	Dr. A. Muthukumaran/ Biotechnology	SERB	1788000	EMR/2017/004073 dated 29-11-18
2.	FIST	Dept. of EEE	DST	2700000	SR/FST/ET-I/2018/214 dated 20-12-18
3.	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
4.	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
5.	Establishment of STI hub for production of ecofriendly and economical products to improve the socio-economic status of SC population in Srivilliputhur block,	Dr. R. Kanniga Devi/Computer Science Dr. N. Rajini/Mech Dr. M. Muthukannan/C	DST-SEED	23843900	DST/SEED/SCSP/STI/2019/127/G dt 03.03.2020

	Virudhunagar District, Tamil Nadu State	ivil Dr. C. Ramesh Babu/Civil Dr. V. Kannan/Agri			
6.	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
7.	Bibliometric analysis of global and Indian contribution in Pharmaceutical research	Dr. C. Sowmya/ Pharmacy Dr. D. Gnanasekaran/Library	DST-NSTMIS	1876600	DST/NSTMIS/05/13/2018-19 dt 25.08.2020
8.	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/TRM/120/277/2020 dt 15.09.2020
9.	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
10.	Evaluation of methods for reducing the Total Acid Number (TAN) of Lubricant Oil	Dr. N. Selvapalam/Chemistry	DRDO	920000	GTRE/MMG/BMR1/1257/CARS/A/20 dt 03.02.2021

11.	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
12.	Evaluation of biocompatible collagen-chitosanselenium nanoparticles (SeNPS) scaffold for cardiac tissue engineering applications in wistar rat	Dr. A. Muthukumar/Biotechnology	ICMR	1800000	35/12/2020- Nano/BMS dt 19.03.2021 (Received 692160)
13.	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. Vishnuvarthanan/Biomedical Dr. V. Muneeswaran/CE Dr. M. Thirumurugan/Ve, Hospital	DST-BDTD	2840200	TDP/BDTD/28/20 21(G) dt 24.03.2021
14.	On colouring distance graphs and related applications	Dr. V. Yegnanarayanan/ Mathematics	NBHM	1515900	NBHM(R.P)/R&D ii/8007 dt 13.07.2021
15.	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
16.	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

17.	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
18.	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
19.	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
20.	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
21.	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
22.	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

23.	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
24.	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
25.	Smart IoT Based Mushroom Cultivation and Edibility Prediction	Dr. Murugeswari/CS	MSME	1500000	17(2)/MSME Innovative/PMAC/2021-22 dt 23-07-2022
26.	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
27.	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)
28.	Development of Economically Feasible Constructed Wetland Technology Using Locally Available Plants for Treating Grey Water in Village	Dr.S.Vanitha/Civil Dr. B. Perumal/ECE	IIT Delhi	100000	RP-03525G dt 18.05.2022
29.	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

30.	MSME-TBI	Dr. J. Deny	MSME	2600000	Sanctioned (25000000) 21.11.2021
31.	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 <b>(Sanctioned 2640000)</b>
32.	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
33.	DST- Training Programme on Entrepreneurship	Dr. Deny/ Dr. Perumal/ECE	DST-ETP	720000	09/73/2021-NEB(TR)(G) dt-20-02-2023
34.	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
35.	Automatic drainage cleaner	Dr.B.Perumal Associate Professor, Dept. of ECE, Kalasalingam Academy of Research and Education Anand Koil	<b><u>Students Name</u></b> T.Praneeth Krishna D.Sai Anvesh Varma A.Hemavar dhan	7500	EEE-0765

		Krishnankoil - 626 126	Venkata Manikanta Ajay.P		
36.	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	Boligarla Vinay Prabhu M	7500	CHE-078
37.	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	G. Lyones beski A. Surya prakash S. Swaminath an M. Amarnath	7500	EME-0346
38.	Studies on arriving effective disposal methods for firecrackers waste in and around of Sivakasi Regions	Dr. Meyyappan PL Sr.Associate Professor, Dept of Civil Engineering, Kalasalingam Academy of Research and Education Srivilliputhur- 626126	Ramguhan A Rubanraj C Nishanth Kumar S Gowtham J	7500	ES-372
39.	Design and synthesis of Cu based multi-metal electrocatalysts for efficient CO2 reduction technology	Dr. Praneeth.K. K Associate Professor, Dept of Chemistry, Kalasalingam Academy of Research and Education Krishnankoil –	Issathul Riswan.M	7500	PS-208

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40.	Synthesis and characterization of lithium garnet based materials for application in lithium-ion based electrochemical power sources	Dr. A. Samson Nesaraj Professor, Department of Chemistry, Kalasalingam Academy of Research and Education Krishnankoil – 626 126	K. Mohamed Ibrahim	7500	PS-209
41.	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
42.	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
43.	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



44.	Hands-on activities by using low-cost teaching aid in Science and Mathematics at rural schools in Virudhunagar district, Tamilnadu	Dr. K. Karthigadevi Department of Computer Application, Kalasalingam Academy of Research and Education Krishnankoil – 626 126	SERB-DST	2639600	DT:05-07-2023
45.	DermaEye – A handheld non-invasive scanning tool for early skin cancer detection	Mohammed Hussain Shariff Syed Musthafa	Entrepreneurs/MSME	1500000	F.No.6(19)/Sanction to CNA/Incubation/2022-2023  DT:08-08-2023
46.	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	430,000	ICSSR-CIS-2023-2160  DT:30-08-2023
				<b>13,14,46,200.00</b>	