

### List of Ongoing Funded Research Projects

Sl. No.	Title of the project	Scheme	Name of the funding agency	Type of funding agency (govt./non-govt.)	Principal investigator	Co Principal investigator	Department	Sanctioned order no.	Project sanction date	Duration in years	Amount Rs. In Lakhs
1	iTBI NIDHI Inclusive Technology Business Incubator at SIT, Tumakuru	iTBI	Innovation and Entrepreneurship Division, DST, Govt. of India	Govt.	Dr. C P Lohith		Mechanical Engg.	34/15/2022-NEB (G)	28-03-2023	3	390.00
2	Network Center for Research on Glioblastoma Stem Cell–Targeted T-Cell Immunotherapy using Non-Genetically Engineered Mesenchymal Stromal Cells		Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India	Govt.	Dr. Sudhir H Ranganath, Asst. Prof., Dept. of Chemical Engg., SIT and Dr. Nandakumar D.N., Professor, NIMHANS, Bangalore	Dr. Dwarkanath Srinivas, Professor, NIMHANS, Bangalore and Dr. Manjunath Dammalli, Asst. Prof., Dept. of Biotechnology, SIT	Chemical Engg., Biotechnology	BT/PR40470/MED/30/2295/2020	21-03-2023	3	175.10
3	DABCO-Piperidinium based dual Ionic Liquids: A new class of polymer electrolyte materials for alkaline fuel cell applications	K-FIST L1	Vision Group on Science & Technology, Dept. of Electronics, IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Anil Rao H.N.	Dr. G Nagaraju	Chemistry	KSeTPS/VGST/K FIST-L1/GRD 1037/2021-22/4270	15-02-2023	2	15.00
4	Center for Pathological Speech Processing	CESEM	Vision Group on Science & Technology, Dept. of Electronics, IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Veena Karjigi	Dr. H M Chandrashekar	Electronics & Comm. Engg. and Electronics & Telecom. Engg.	KSeTPS/VGST/CE SEM/GRD 1006/2021-22/4256	15-02-2023	2	40.00
5	Strengthen the Research Facilities in the College (Infrastructure facilities for Thin Films, Sensors and Devices Research)	DST-FIST	DST, Govt. of India	Govt.	Dr. S.V. Dinesh, Principal	Dr. Latha H K E, Dr. H M Kalpana, Dr. H S Lalithamba, Dr. Rashmi, Dr. K C Narasimhamurthy, Dr. Nirankar Nath Mishra, Dr. Raveesh S	Civil Engg., Electronics & Instrumentation Engg., Chemistry, Electrical & Electronics Engg., Electronics & Telecom. Engg., Nanotechnology, Electronics and Comm. Engg.	SR/FST/College/20 22/1202	19-12-2022	5	56.00
6	Laser Ultrasonic Inspection for Structural Integrity Evaluation of Additive Manufactured Components	TARE	SERB, DST, Govt. of India	Govt.	Dr. Manjunath C T	Mentor:	Mechanical Engg.	TAR/2022/000551	06-10-2022	3	18.30
7	Experimental Investigation of Performance, Combustion and Emission Characteristics of CI engine using Stable Methanol-in-Diesel Emulsion Fuels	TARE	SERB, DST, Govt. of India	Govt.	Dr. Gautham M G	Mentor: Prof. R V Ravikrishna	Mechanical Engg.	TAR/2022/000269	06-10-2022	3	18.30
8	Development of poly(3,4-ethylene-dioxy-thiophene) based hybrid nanocomposites for high performance thermoelectric generator	CRS	UGC-DAE CSR, Government of India	Govt.	Dr. Manohara S R		Physics	CRS/2021-22/01/435	24-06-2022	1	0.45
9	Automation of Mini Portable ni Biodiesel Production Unit	FPP	Karnataka State Council for Science and Technology, Bengaluru	Govt.	Dr. Omkaresh B R		Mechanical Engg.	7.1.11/FPP/119	24-05-2022	0.9	2.40

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10	Structural Integrity Evaluation of Extrusion based 3D Printed Polyether Ether Ketone Parts and Correlation Studies with Thermal Processing	EMEQ	SERB, DST, Govt. of India	Govt.	Dr. Adarsh S H		Mechanical Engg.	EEQ/2021/000763	14-03-2022	3	42.66
11	Thermomechanical Processing of FeMnAlNi Shape Memory Alloy for Space Applications	RGS	Visvesvaraya Technological University, Belagavi	Govt.	Dr. Adarsh S H	Dr. Prashantha S	Mechanical Engg.	VTU/BGM/Aca/A-12/VTU RGS/DIS-ME/2021-22/5862/14	18-02-2022	2	8.00
12	Study of Strain Dependent Dynamic Properties and development of shear modulus and damping curves of Dispersive Soils		SERB, DST, Govt. of India	Govt.	Dr. S V Dinesh	Prof.Anbazhagan P, Associate Prof., IISc, Bangalore and Dr.Muttana S Balreddy, Asst. Prof., SIT, Tumakuru	Civil Engg.	CRG/2021/006679	15-12-2021	3	37.82
13	Development and Performance Evaluation of Light Weight Cenosphere Filled Carbon Reinforced Composites for Low Velocity Impact Applications	TARE	SERB, DST, Govt. of India	Govt.	Dr. Vishwas Mahesh	Mentor: Dr. Dineshkumar H	IEM	TAR/2021/000016	02-12-2021	3	18.30
14	A new class of pseudocapacitive binary metal sulphides anodes for sodium ion battery	K-FIST L1	Vision Group on Science & Technology, Dept. of Electronics, IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. G Nagaraju	Dr. Anil Rao H.N.	Chemistry	KSeTPS/VGST/K FIST-L1/GRD 950/2020-21/85	26-08-2021	2	15.00
15	Use of Construction Waste and Scrap tyres for Sustainable Pavements	K-FIST L2	Vision Group on Science & Technology, Dept. of Electronics, IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. K H Mamatha	Dr. Muttana S Balreddy	Civil Engg.	KSeTPS/VGST/K FIST-L2/GRD No. 934/2020-21/65	26-08-2021	2	20.00
16	Development of 2014 Al-Cu coated Alumina Particulate Composites produced by novel two-step vortex method for Fork Hinge of Rudder	CISEE	Vision Group on Science & Technology, Dept. of Electronics, IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Virupaxi Auradi	Dr. Prashanth S	Mechanical Engg.	KSTePS/VGST/CI SEE/GRD No. 928/2020-21/72	26-08-2021	2	30.00
17	Establishment of AICTE IDEA Lab	IDEA Lab	AICTE, New Delhi	Govt.	Dr. U S Mallikarjun	Dr. K V Suresh	Mechanical Engg. and Electronics & Comm. Engg.	AICTE/IDC/IDEA2 02000387/2021	17-06-2021	3	46.61
18	Analysis of Speech Signal Transmissions using non-spread spectrum based radios		CAIR-DRDO, Bengaluru	Govt.	Dr. H.S. Jayanna	Dr. K. Viswanath	Information Science Engg. and Electronics & Telecom. Engg.	CAIR/CARS 60	06-04-2021	1	9.90
19	Dynamics of patterns in Belousov-Zhabotinsky reaction tailored by graphene-based nanocomposites	TARE	SERB, DST, Govt. of India	Govt.	D. Jaya Prasanna Kumar	Mentor: Dr. Basavaraj Madivala Gurappa, IITM	Chemical Engg.	TAR/2020/000426	22-12-2020	3	18.30
20	Fatigue life prediction methodology for additive manufactured high temperature nickel alloys with process-structure-property considerations	TARE	SERB, DST, Govt. of India	Govt.	Dr. H. C. Madhu	Mentor: Dr. V. Sampath, IITM	Mechanical Engg.	TAR/2020/000342	22-12-2020	3	18.30

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21	Growth and characterizations of metal ion doped vitamin C and amino acid crystals: promising crystals for optoelectronics applications	WOS-A	DST, Kiran Division	Govt.	Sindhu Tilak	Mentor: Dr. Suresh Kumar H	Physics	SR/WOS-A/PM-4/2019 (G)	18-11-2020	3	23.57
22	Unraveling a new strategy of inhibition of cholesterol ester transfer protein by small molecule inhibitors through site directed mutagenesis and molecular dynamics simulation studies	CISEE	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. D.R. Prasanna	Dr. Sudhir H Ranganath	Biotechnology and Chemical Engg.	VGST/CISEE/GRD-855/2019-20/2020-21/198	09-11-2020	2	25.00
23	An Investigation of microstructural and mechanical properties of diffusion bonding on Al-2219:Ti:6Al:4V alloy joints	RPS	AICTE, New Delhi	Govt.	Dr. Virupaxi Auradi		Mechanical Engg.	8-114/FDC/RPS (Policy-1)/ 2019-20	14-08-2020	3	22.24
24	Development of photopolymer metal composites based on metallization of digital light processed (DLP) parts	RPS	AICTE, New Delhi	Govt.	Dr. C T Manjunath		Mechanical Engg.	8-252/RIFD/RPS (Policy-1)/2018-19	20-03-2020	3	6.00
25	Modernization and Removal of Obsolescence (MODROBS)	MODROBS	AICTE, New Delhi	Govt.	Dr. K V Suresh		Electronics and Comm. Engg.	F.No.9-267/RIFD/MOD/Policy-I/2018-19	04-12-2019	2	12.00
26	An integrated approach to study the effect of trace elements on the proteome of schizophrenia	TARE	SERB, DST, Govt. of India	Govt.	Dr. Manjunath Dammalli	Collaboration with NIMHANS, Bengaluru	Biotechnology	TAR/2019/000224	18-10-2019	3	18.30
27	An Assessment of Aquifer Characteristics and Hydrochemistry of Groundwater using Isotopes Techniques in Pavagada Taluk of Tumkur district, Karnataka	K-FIST L1	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Nandeesh		Civil Engg.	Nil	26-08-2019	2	20.00
28	Biodegradation and decolorization of Malachite green using native microbes from textile effluents	K-FIST L1	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Roopa K B		Biotechnology	VGSTK FIRST L1/2018-19/GRD No. 774/315	17-07-2019	2	20.00
29	Effect of Silver addition on stress corrosion cracking resistance of aluminium alloy AA7085		Directorate of Extramural Research and Intellectual Property Rights (ER & IPR), DRDO, New Delhi	Govt.	Dr. Kishore T Kashyap	Dr. Adarsh S H	Mechanical Engg.	ERIP/ER/201801002/M/01/1754	15-04-2019	3	71.14
30	Feasibility Study on the Development of Technology to Treat Fluoride Contaminated Water for Drinking in Parts of Tumkur Districts of Karnataka	SSTP	DST, Govt. of India	Govt.	Dr. V Udayakumar	Dr. Nandeesh	Chemistry and Civil Engg.	DST/SSTP/Karnataka/72/2017-18	20-12-2018	2	44.10
31	Purification of Crude Glycerol Obtained During the Bio-diesel Synthesis and Production of Value Added Products	K-FIST (L2)	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. R Suresh		Mechanical Engg.	VGST/GRD-655/2017-18/423	17-09-2018	2	40.00
32	Design and development of Indium tin oxide thin film strain gauge pressure sensor	CISEE	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Latha H K E		Electronics & Instrumentation Engg.	KSTePS/VGST/GRD-645/CISEE/2018	27-08-2018	3	30.00

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33	Transition metal ion doped semi-organic amino acid crystals for Non Linear Optics (NLO) applications: elaborating the magneto-optic relations	CISEE	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Suresh Kumar H M		Physics	KSTePS/VGST-CISEE/2017/270	21-11-2017	3	30.00
34	Production & Applications of Biodiesel		Karnataka State Bioenergy Development Board (KSBDB), Govt. of Karnataka	Govt.	Dr. R Suresh		Mechanical Engg.	KSBDB/Tender/CR-10/2010-11/10	06-04-2011	Continuous project	31.65