

List of Completed 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	Start Date	Completion Date
1	Development of a prototype adsorption unit for treatment of fluoride contaminated water	RGS/F	Vision Group on Science & Technology, Dept. of Electronics, IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Poornima G Hiremath	Dr. Rajashekhara S	Chemical Engg.	KSTePS/VGST/RG S-F/GRD No. 999/2020-21	26-08-2021	1	3.00	26-08-2021	16-03-2023
2	CFD Approach to Predict the Performance Characteristics of	RGS/F	Vision Group on Science & Technology, Dept. of IT, BT and	Govt.	Dr. Nithesh K G		Mechanical Engg.	VGST/GRD-801/2018-19/2019-	09-01-2020	1	5.00	09-01-2020	05-12-2022
3	MnO ₂ /ZrO ₂ based electrocatalyst for non-enzymatic sensing of Glucose	WOS-A	DST, Govt. of India	Govt.	Dr. V Udayakumar (Mentor)	S G Manjushree (Research scholar)	Chemistry	SR/WOS-A /CS-153-2018	08-07-2019	3	30.00	17-02-2020	15-11-2022
4	Fabricating novel Sodium metal-oxide cathode materials for rechargeable batteries: A ternary diagram approach		SERB, DST, Govt. of India	Govt.	Dr. Madhu Chennabasappa		Physics	ECR/2017/000370	25-06-2018	3	28.88	27-06-2018	21-01-2022
5	Efficient utilization of used/waste flower by converting it to useful products and thus conserving nature	IMPRESS	Indian Council of Social Science Research, MHRD, Govt. of India	Govt.	Dr. Kavitha H	Dr. Roopa K B	Information Science Engg. and Biotechnology	IMPRESS/P1938/2018-19/ICSSR	28-11-2019	2	12.00	27-01-2020	07-01-2022
6	Rescuing the hypothermia and cytokine induced damage to donor corneal endothelial functions by pre-treatment with microtubule stabilizers		Association for Research in Vision & Ophthalmology (ARVO) Foundation for Eye Research, USA	Non Government	Dr. Sudhir H Ranganath		Chemical Engg.		25-11-2020	1	7.50	25-11-2020	24-11-2021
7	CLeONS: High efficiency contact lens-coated oxygen nanosensors for eye clinics		DST – Lockheed Martin-Tata Trusts	Govt.	Dr. Sudhir H Ranganath		Chemical Engg.	IUSSTF/IIGP 2.0 University Challenge - 2019/2019-20	20-09-2019	1	10.00	20-09-2019	19-09-2021
8	Nano-particle based Prophylactic Drug Delivery to the Corneal Endothelium		SERB, DST, Govt of India	Govt.	Dr. Sudhir H Ranganath		Chemical Engg.	EMR/2017/002449	04-09-2018	3	35.04	04-09-2018	03-09-2021
9	Set up Technology Business Incubation Centre		Karnataka Council for Technological Upgradation (KCTU) (A Joint Venture of Govt. of India and Govt. of Karnataka Organization)	Govt.	Dr. C P Lohith		Mechanical Engg.	KCTU/SIT/TBI/2018-19	03-09-2018	3	42.72	03-09-2019	25-08-2021
10	Mesenchymal stem cell-derived nanovesicles loaded with 177Lu for targeted cancer therapy		BRNS-RTAC, DAE, Mumbai	Govt.	Dr. Sudhir H Ranganath	Dr. Usha Pandey, BARC, Mumbai	Chemical Engg.	35/14/26/2018-BRNS/10417	31-05-2018	3	28.82	31-05-2018	30-05-2021
11	Development of novel graphene-polymer hybrid nanocomposites for	CISEE	Vision Group on Science & Technology, Dept. of IT, BT and	Govt.	Dr. S R Manohara		Physics	KSTePS/VGST/03/CISEE/2015-16	15-06-2016	3	30.00	15-06-2016	24-02-2021
12	Modernization and Removal of Obsolescence Scheme	MODROBS	AICTE, New Delhi	Govt.	Dr. K S Shashishekar		Mechanical Engg.	9-133/RIFD/MODR	04-01-2019	2	14.16	04-01-2019	16-02-2021
13	Molecular Docking, Biological Screening and Synthesis of Peptides and Peptidomimetics	CISEE	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. H S Lalithamba		Chemistry	KSTePS/VGST/03/CISEE/2015-16	15-06-2016	3	30.00	15-06-2016	11-01-2021
14	Development of Novel Hydroxyl Functionalized Imidazolium Polymer Electrolyte Membranes for Alkaline Fuel Cell Applications		SERB, DST, Govt. of India	Govt.	Dr. Anil Rao H N		Chemistry	ECR/2017/000451	28-08-2017	3	33.68	11-11-2017	01-12-2020
15	Design and development of thin film Platinum RTD sensor for the online detection and measurement of engine inlet temperature on a gas turbine engine		GTRE, Bangalore	Govt.	Dr. V Siddeswara Prasad, Dr. H M Kalpana, Dr. Latha H K E		Electronics & Instrumentation Engg.	GTRE/MMG/BMR 1/1199/14/CARS/A/14	04-12-2014	1	8.76		13-11-2020

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16	Water and Wastewater management of MSM Enterprises		Karnataka Council for Technological Upgradation (KCTU) (A Joint Venture of Govt. of India and Govt. of Karnataka Organization)	Govt.	Dr. Thomas Theodore	Poornima G Hiremath	Chemical Engg.	KCTU/R&D/SIT-Water/2016-17	03-02-2017	2	50.00	03-02-2017	03-09-2020
17	Mathematical Properties of Graph based molecular descriptors and their applications	TEQIP Competitive Research Grant	Visvesvaraya Technological University, Belagavi	Govt.	Dr. P S Hemavathi	Dr. M A Sriraj, VVCE, Mysuru	Mathematics	VTU/TEQIP3/2019/321	10-12-2019	1	1.00	10-12-2019	30-08-2020
18	Neural Network Based Test Marks Reader and Acquisition System	TEQIP Competitive Research Grant	Visvesvaraya Technological University, Belagavi	Govt.	Dr. V M Aparanji		Electronics and Comm. Engg	VTU/TEQIP3/2019/321	10-12-2019	0.8	2.00	10-12-2019	28-08-2020
19	Speaker separation in multi-speaker environment	WOS-A	DST, Govt. of India	Govt.	Dr. R Kumaraswamy (Mentor)	R Hemavathi	Electronics and Comm. Engg	SR/WOS-A/ET-69/2016 (G)	17-11-2016	3	17.75	24-07-2017	31-07-2020
20	Modelling and Analysis of Gas Turbine Blade Behaviour to Predict Resonance Amplitude		GTRE, Bangalore	Govt.	Dr J P Ganjigatti	C Bhanuprakash, P Prashanth	IEM and MCA		12-09-2013	2	9.98		21-05-2020
21	Addressing the challenges in designing the thermoelectric materials using new class 3D Dirac semimetals and Boltzmann transport theory.		SERB-DST, Govt. of India	Govt.	Dr. Bhargavi K S		Physics	ECR/2016/000599	17-10-2016	3	16.30	25-01-2017	24-01-2020
22	Development of high temperature low sag nano composite core	RSOP	Central Power Research Institute, Bengaluru	Govt.	Dr. Rashmi	Dr. G S Shivashankar	Electrical Engg. and Mechanical Engg.	CPRI/R&D/RSOP/2015	15-12-2015	2	28.00	01-01-2016	15-12-2019
23	Formal Verification of Security Protocols in Network Devices		DRDO, New Delhi	Govt.	Dr. N R Sunitha	Ravi V	Computer Science & Engg.	ERIP/ER/DG-MED&CoS/990416504/M/01/1655	22-03-2017	2	22.31	31-05-2017	06-11-2019
24	Krishi Ganaka - A kiosk aided soil fertilizer recommendation system for different crops of Tumkur District, Karnataka	RFTT	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Premasudha B G		MCA	KSTePS/VGST-RFTT/2016-17/279/6	27-11-2017	1	5.00	10-05-2018	07-08-2019
25	Mixed-oxide spinel composites AM2O4 (A= Zn, Mg, Ca; M =3d-block, p-block element) thin films by printing and their photocatalytic, photocurrent activities	SMYSR	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Madhu Chennabasappa		Physics	KSTePS/VGST-SMYSR/2016-17/280/17	27-11-2017	1	5.00	19-04-2018	31-07-2019
26	Green Synthesis of Metal Oxides and Natural Dyes for Dye-Sensitized Solar Cells	SMYSR	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. Shridhar P Mundinamani		Physics	KSTePS/VGST/SMYSR/2016-17/GRD-585/2017-18/67/323/1	20-12-2017	1	5.00	19-04-2018	31-07-2019
27	Academic Time Table Management Tool under CBCS		AICTE, New Delhi	Govt.	C P Prabodh	Nishank Kumar Pandey	Computer Science & Engg.	RFID/SIH-2017/2017-18	03-08-2017	1	3.00	01-03-2018	30-07-2019
28	Diminution of Revision Surgeries in Cemented Total Hip Replacement by PMMA/MWCNT Nano Composites	SMYSR	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. N Shanmugapriya		Mechanical Engg.	KSTePS/VGST-SMYSR/2016-17/280/16	27-11-2017	1	5.00	16-05-2018	31-03-2019
29	Studies on Development of 6061 Al Alloy Reinforced with B4C Particulate Composites for use in Small Turbofan Compressor Modules		Aeronautics R&D Board (Ar&DB), DRDO, New Delhi	Govt.	Dr. Umashankar	Dr. Virupaxi Auradi	Mechanical Engg.	MSRB/TM/ARDB/GIA/15-16/0021	14-07-2015	3	9.74		16-02-2019
30	Vanadium oxide based nanostructured materials and its reduced graphene oxide composite: Electrochemical performance in Lithium battery		SERB-DST, Govt. of India	Govt.	Dr. G Nagaraju		Chemistry	SB/FT/CS-083/2012	22-11-2013	3	18.58	22-11-2013	22-11-2018
31	Speech based access of agricultural commodity prices and weather		DeITY, New Delhi	Govt.	Dr. H S Jayanna		Information Science Engg.	11(18)/2012-HCC(TDIL)	21-07-2014	2	42.55	29-09-2014	10-10-2018

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32	Improving intelligibility of dysarthric speech		SERB, DST	Govt.	Dr. Veena Karjigi		Electronics and Comm. Engg	YSS/2014/000563	17-08-2015	3	15.16	17-08-2015	04-10-2018
33	Green synthesis of pure/doped nano metal oxides. metal oxide-reduced		DST Nanomission, Govt. of India	Govt.	Dr. G Nagaraju	Dr.S.C, Sharma, Dr. H.Nagabhushan, Dr. D.	Chemistry	SR/NM/NS-1262/2013(G)	18-03-2015	3	154.49	18-03-2015	18-09-2018
34	Synthesis of Ta2O5 – Reduced Graphene Oxide Hybrid Nanomaterials: Ionic Liquid Based Electrolytes for Lithium Battery		ISRO-RESPOND, Trivendrum	Govt.	Dr. G Nagaraju		Chemistry	ISRO/RES/3/661/2015-16	17-06-2014	3	14.86	17-06-2014	17-06-2018
35	Oxide/sulphides of Titanium and Molybdenum - Reduced graphene oxide nanostructural hybrid materials: Electro chemical performance in Lithium battery		BRNS-DAE, BARC, Bombay	Govt.	Dr. G Nagaraju		Chemistry	∴ BRNS/2015/49th TPDM/69C.RP.13	03-02-2015	3	22.22	09-08-2015	03-06-2018
36	B2B Aggregator (Kirana11) and Kirana Stores Collaboration - An Opportunity for Growth		Planet11 E-Commerce Solutions India Pvt. Ltd.	Non-govt.	Dr. S Panneerselvam,	Dr. C Somashekar, Vivek G S	MBA		29-06-2017	0.8	2.57	29-06-2017	09-02-2018
37	To Develop the Innovative Product Solutions for Common Problems Faced by Common Man - “Strengthening the Research and Development Centre in the Dept. of Mechanical Engg., SIT, Tumkur”		Karnataka Council for Technological Upgradation (KCTU) (A Joint Venture of Govt. of India and Govt. of Karnataka Organization)	Govt.	Dr. U S Mallikarjun		Mechanical Engg.		23-01-2015	2	38.00	23-01-2015	10-12-2017
38	Green synthesis of BIVO4- reduced graphene oxide (RGO) hybrid nanomaterials: Application to water splitting reaction, lithium battery and photodegradation.	SMYSR	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. G. Nagaraju		Chemistry	GRD 498/2015-16	27-06-2016	1	6.00	27-09-2016	27-09-2017
39	Liquefaction Potential of Sand-Clay Mixtures		AICTE, New Delhi	Govt.	Dr. S V Dinesh	Muttana S Balreddy	Civil Engg.	20/AICTE/RIFD/RPS (Policy-III) 31/2012-13	12-02-2013	3	5.00	12-02-2013	31-03-2017
40	High Temperature Superconducting Energy Storage Technique for Use in Distributed Generation System (Flywheel Energy Storage System)		Central Power Research Institute, Bangalore	Govt.	Dr. K V Sreenivasa Rao	Dr. U S Mallikarjun	Mechanical Engg.		13-07-2011	3	9.50	13-07-2011	25-08-2016
41	Performance evaluation of the District Biofuel Mart, Vijayapura		Karnataka State Bioenergy Development Board (KSBDDB), Govt. of Karnataka	Govt.	Dr. S Panneerselvam,	Manu T U, Vivek G S	MBA		22-03-2016	0.4	1.00		01-08-2016
42	Creating side channel attacks infrastructure frameworks		ABB Global Industries and Service Ltd, Bangalore	Non-govt.	Dr. B Sathish Babu	Dr. R Aparna, Dr. A S Poornima	Computer Science & Engg.	3191536437	18-02-2013	1.5	15.00	18-02-2013	30-06-2016
43	Thermally stable graphene based polymer nanocomposites for flame retardant applications	SMYSR	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. S R Manohara		Physics	VGST/SMYSR/ (2014-15)/ GRD-407/2015-16	30-04-2015	1	4.00	30-04-2015	15-04-2016
44	Techniques for Security on Adhoc Networks		DRDO, New Delhi	Govt.	Dr. N R Sunitha		Computer Science & Engg.	ERIP/ER/1202218/M/01/1487	20-06-2013	3	9.61	22-08-2013	05-04-2016
45	Modernization and Removal of Obsolescence Scheme [MODROBS]		AICTE, New Delhi	Govt.	Dr. K S Shashishekar		Mechanical Engg.	9-175/RIFD/MODR OB/Policy-1/ 2013-14(Pvt.)	07-08-2013	2	6.25		01-08-2015
46	Development of prosodically guided phonetic engine		DeITY, New Delhi	Govt.	Dr. R Kumaraswamy		Electronics and Comm. Engg	Nil	27-02-2012	3	16.50	27-04-2012	06-04-2015
47	Adaptive Trust Based Security Systems for Ubiquitous Networks		Visvesvaraya Technological University, Belgaum	Govt.	Dr. B Sathish Babu	Dr. R Sumathi	Computer Science & Engg.	VTU/Aca./2011-12/A-9/752	05-05-2012	2.5	5.39	05-05-2012	30-12-2014
48	Generic Key Management Infrastructure for Industrial Automation		ABB Global Industries and Service Ltd, Bangalore	Non-govt.	Dr. B Sathish Babu	Dr. N R Sunitha, Seema B Hegde	Computer Science & Engg. and Electronics & Comm. Engg.	3191427667	27-12-2011	3	7.00	27-12-2011	30-12-2014
49	Synthesis of N-protected amino/peptide Weinreb amides, amino alkyl sulfoxides, sulfones		Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. H S Lalithamba		Chemistry	VGST/P-3/SMYSR/GRD-279/2013-14	28-01-2013	1	6.00	14-02-2014	25-11-2014

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50	Development of thin film lab		Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka	Govt.	Dr. V Siddeswara Prasad	Dr. H M Kalpana, Dr. H K E Latha	Electronics & Instrumentation Engg.		03-07-2011		30.00		06-07-2014
51	Evaluation of Corrosion Behaviour of Turbine Blade Materials		GTRE, Bangalore	Govt.	Dr. U S Mallikarjun		Mechanical Engg.		06-08-2010	3	9.35		30-06-2014
52	Modernization and Removal of Obsolescence Scheme [MODROBS]		AICTE, New Delhi	Govt.	Dr. U S Mallikarjun	Prashanth S	Mechanical Engg.	8024/RIFD/MOD-299 (PVT.) / Policy-III/2011-12	16-03-2012	2	8.00		30-05-2014
53	Synthesis and Characterization of Cu-Al-Mn Shape Memory Alloys for Damping Characteristics in Super Elastic Range		Visvesvaraya Technological University, Belgaum	Govt.	Dr. U S Mallikarjun	Dr. K V Sreenivasa Rao	Mechanical Engg.	VTU/Aca./2010-11/A-9/11323	07-12-2010	2	12.00	07-12-2010	21-05-2014
54	Feasibility studies on biodiesel production using algae oils		Visvesvaraya Technological University, Belgaum	Govt.	Dr. P Nirguna Babu	Prakash Binnal	Chemical Engg.	VTU/Aca./2011-12/A-9/567	30-04-2011	3	7.98	30-04-2011	30-04-2014
55	Performance evaluation of open source ASR tools with creation of speech corpus for Indian English and Hindi		DRDO, New Delhi	Govt.	Dr. H S Jayanna		Information Science Engg.		22-10-2012	2	9.90	23-01-2013	29-01-2014
56	Exploring novel approach for speaker recognition in a multispeaker environment		Visvesvaraya Technological University, Belgaum	Govt.	Dr. R Kumaraswamy	Dr. Veena Karjigi	Electronics and Comm. Engg.		18-02-2011	3	6.00		10-12-2013
57	Algorithms for Key Management and Security of Routing Protocols for Distributed Sensor Networks		AICTE, New Delhi	Govt.	Dr. N Nalini (executed by Dr. N R Sunitha)		Computer Science & Engg.		12-12-2008	2	6.78	01-04-2009	12-10-2013
58	Design and Development of Multilingual Speaker Recognition with the constraint of limited data		Visvesvaraya Technological University, Belgaum	Govt.	Dr. H S Jayanna	Dr. K Viswanath	Information Science Engg. and Telecom. Engg.		30-04-2011	2	5.92	30-04-2011	04-07-2013
59	Identification of lead compound against nuclear factor kappa B (NF- κ B) of ulcerative colitis by virtual screening of medicinal plant compounds and in vivo test on acetic acid induced u. colitis experimental Rats		Visvesvaraya Technological University, Belgaum	Govt.	Roopa K B	Manjunath Dammalli	Biotechnology		24-01-2011	2	2.20		11-05-2013
60	Infrastructure Development in Higher Educational Institutions	KFIST Level-1	Vision Group on Science & Technology, Dept. of IT, BT and S & T, Govt. of Karnataka Vision Group on Science & Technology	Govt.	Dr. U S Mallikarjun	Dr. K V Sreenivasa Rao	Mechanical Engg.		21-03-2011	2	20.00	21-03-2011	30-03-2013
61	High resolution Image generation from sub-pixel shifted low-resolution images under inaccurate motion estimation		AICTE, New Delhi	Govt.	Dr. K V Suresh		Electronics and Comm. Engg.		21-10-2010	2	2.70		27-12-2012
62	Open field experiments for evaluation of WLAN performance		ABB Global Industries and Service Ltd, Bangalore	Non-govt.	Dr. B Sathish Babu	Dr. N R Sunitha	Computer Science & Engg.		27-12-2011	0.1	1.05	27-12-2011	27-01-2012
63	Evaluation of Liquefaction Potential based on Cone Penetration Resistance and Shear Wave Velocity		Ministry of Earth Sciences, Seismology Division, Govt. of India, New Delhi	Govt.	Dr. S V Dinesh	Dr. T G Sitharam, IITSc., Bangalore	Civil Engg.		08-08-2006	5	31.67	08-08-2006	30-09-2011
64	Device Cyber Security Digital Signature		ABB Global Industries and Service Ltd, Bangalore	Non-govt.	Dr. N R Sunitha		Computer Science & Engg.		21-05-2010	0.6	1.78	21-05-2010	30-11-2010
65	Wear Behavior of Nano Boron Carbide Reinforced Aluminum Matrix Composites		AICTE, New Delhi	Govt.	Dr. K V Sreenivasa Rao	Dr. Virupaxi Auradi, Dr. B Vasudeva	Mechanical Engg.	200-62/FIN/04/05/1101/1682	10-12-2007	2	8.65		04-01-2010
66	Production and purification of esterases from microorganisms		AICTE, New Delhi	Govt.	Dr. B S Gowri Shankar		Chemical Engg.		26-02-2007	2	10.00	26-02-2007	26-02-2009
67	Modernization of Heat & Mass Transfer Laboratory		AICTE, New Delhi	Govt.	Prof. S Rajaguru		Chemical Engg.		24-03-1999	3	12.00	24-03-1999	16-09-2004
68	Technical & Instrumental Analysis Laboratory (MODROBS)		AICTE, New Delhi	Govt.	Dr. Y. Jagannadha Rao		Chemical Engg.		29-03-1995	1	5.50	29-03-1995	31-03-1996

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69	Investigation of Repair and Retrofitting of concrete Structures using Advanced Concretes such as Self Compacting Concrete and Geo Polymer Concrete		Visvesvaraya Technological University, Belgaum	Govt.	Dr. K P Shivananda	Dr. S V Dinesh	Civil Engg.	VTU/Aca./2011-12/A-9/751	05-05-2012	3	6.50	2012	2015