



VISION GROUP ON SCIENCE AND TECHNOLOGY

Department of IT, BT and S & T, Government of Karnataka

List of proposals recommended by VGST for Government grants during the year 2018-19

Scheme: Research Grant for Scientist/Faculty (RGS/F)

Sl. No.	Name of the Programme Co-ordinator with details	Title of the project	Subject	Funds to be released during the year 2018-19 (Rs. in lakhs)	Total Amount (Rs. in lakhs)	Cheue to be written in favour of
1	Dr. Erumalla Venkata Nagaraju, Assistant Professor, Department of Life Sciences, Christ University (Deemed to be University), Hosur Road, Dharmaram Post, Bangalore- 560 029.	A Novel approach in exploitation of Waste Alginate Generated in Plant Tissue Culture Laboratory towards production of Bioethanol	Geology, Earth & Environmental Sciences	5.00	5.00	The Registrar, Christ University, Bengaluru
2	Dr. Sumathra.M, Assistant Professor, Department of Biotechnology, R.V College of Engineering, Vidyaniketan Post, Mysore Road, Bangalore - 560 059.	Nanoparticle Based Immobilization of Bovine carbonic anhydrase for environmental CO2 Sequestration	Geology, Earth & Environmental Sciences	5.00	5.00	The Principal, RV College of Engineering, Bengaluru
3	Dr. K.V. Venkateswaran, Associate Professor, Department of Electronics and Communication Engineering, Sir M. Visvesvaraya Institute of Technology Krishnadevaraya Nagar, Hunasamaranahalli, Bengaluru - 562 157.	A Novel Change detection technique for Modelling and Simulation of Urbanization in Greater Bangalore, India using Remote sensing and GIS	Geology, Earth & Environmental Sciences	5.00	5.00	The Principal, Sir M. Visvesvaraya Institute of Technology, Bengaluru
4	Dr. Sujay Raghavendra. N, Assocoate Professor, Department of Civil Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Vishwothama Nagar, Bantakal - 574 115, Udupi District.	Coastal Hazards of saltwater intrusion: Detection and delineation along the coastal aquifers of Udupi shoreline.	Geology, Earth & Environmental Sciences	5.00	5.00	The Principal, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal
5	Dr. M.A. Phaniband, Assistant Professor, Department of Chemistry, SDM College of Engineering and Technology, Dhavalgiri, Dharwad - 580 002.	Nanofiltration process to remove dye from textile effluents in prevention of environmental pollution	Geology, Earth & Environmental Sciences	5.00	5.00	The Principal, SDM College of Engineering and Technology, Dharwad
6	Dr. Pradeep Kumar. G. S, Assistant Professor, Department of Mechanical and Automobile Engineering, Christ University (Deemed to be University), Faculty of Engineering (CUFE), Kanminike, Kumbalgodu, Mysore Road, Kengeri, Bengaluru - 560074.	Development of HVOF coatings on aluminum alloys as an alternative to hard chrome plating	Mechanical Engineering	5.00	5.00	The Registrar, Christ University, Bengaluru
7	Dr. Gangadhar. N, Assistant Professor, Deaprtment of Mechanical Engineering, Dr. Ambedkar Institute of Technology, Mallathalli, Bengaluru - 560 056.	Condition monitoring of Internal Combustion (IC) Engine Using Vibration Analyses and Acoustic Emission Technique.	Mechanical Engineering	5.00	5.00	The Principal, Dr. Ambedkar Institute of Technology, Bengaluru

8	Dr. Rathishchandra. R. Gatti, Professor, Department of Mechanical Engineering, Sahyadri College of Engineering and Management, Sahyadri Campus, Adyar, Mangaluru - 575 007.	Design and Development of a Novel Point Absorber Type Wave Energy Generator for Micro-Grids and Desalination for agricultural purposes	Mechanical Engineering	5.00	5.00	The Principal, Sahyadri College of Engineering and Management, Mangaluru
9	Dr. Nithesh. K. G, Assistant Professor, Department of Mechanical Engineering, Siddaganga Institute of Technology, Tumakuru - 572 103	CFD Approach to Predict the Performance Characteristics of Radial Turbine Designed for low thermal energy conversion power plant applications	Mechanical Engineering	5.00	5.00	The Principal, Siddaganga Institute of Technology, Tumakuru
10	Dr. Divya jyothis, Assistant Professor, Department of Pharmacognosy, Nitte Gulabi Shetty Memorial Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore - 575018	Development of Characterization of plant oil based potent anticholinesterase microemulsion containing Withania somnifera extract with enhanced transdermal delivery of phytoconstituents for the treatment of cognitive disorders.	Pharmacy	5.00	5.00	The Principal, Nitte Gulabi Shetty Memorial Institute of Pharmaceutical Sciences, Deralakatte, Mangaluru
11	Dr. V. Gnanavel, Assistant Professor, Department of Pharmaceutical Chemistry, Krupanidhi College of Pharmacy, Chikka Bellandur, Carmelaram Post, Varthur, Hobli, off Sarjapur Road, Bengaluru - 560 035.	Phytochemicals Based Nanomedicines for the Treatment of Breast Cancer	Pharmacy	5.00	5.00	The Principal, Krupanidhi College of Pharmacy, Bengaluru
12	Dr. Virupana Gowda P Patil, Assistant Professor, Department of Pharmacology, BLDEA's SSM College of Pharmacy and Research Centre, BLDE University Campus, Solapur Road, Vijaypur - 586 103.	Evaluation of antistress and anxiolytic activities of Cocos nucifera	Pharmacy	5.00	5.00	The Principal, BLDEA's SSM College of Pharmacy and Research Centre, Vijaypur
13	Dr. Girish A Hampannavar, Assistant Professor, Department of Pharmaceutical Chemistry, KLE College of Pharmacy, Vidyanagar, Hubballi - 580 031.	Design, Synthesis and Biological Evaluation of styryl derivatives from Dehydrozingerone as a Potential Anti-tubercular Agents	Pharmacy	5.00	5.00	The Principal, KLE College of Pharmacy, Hubballi
14	Dr. Sib Sankar Mal, Assistant Professor, Department of Chemistry, National Institute of Technology of Karnataka(NITK), Surathkal, Mangalore - 575025	Synthesis of Levulinic esters using heteropolycids as potentially green catalyst	Chemistry	5.00	5.00	The Director, NITK, Surathkal
15	Dr. Ajay Prakash. B. V, Assistant Professor, Department of Computer Science and Engineering, SJB Institute of Technology, BGS Health & Education City, Dr. Vishnuvardhana Road, Kengeri, Bengaluru - 560 060.	Intelligent and Interactive Plant Disease Supervision using Deep Learning	Computer Science and Engineering	5.00	5.00	The Principal, SJB Institute of Technology, Bengaluru

16	Dr. Vinaya. K, Assistant of Professor and Head of the Department, Department of Chemistry, Government First Grade College, B.H. Road, Kadur, Chikkamagaluru District - 577 548.	Synthesis and characterization of novel Quinazoline drivative as Epidermal Growth Factor Rceptor inhibitors	Chemistry	5.00	5.00	The Principal, Government First Grade College, Kadur
17	Dr. G. K. Nagaraja, Professor, Department of Chemistry, Mangalore University, Mangalagangothri, Konaje - 574 199, Mangaluru.	Surface modified halloysite nanotubes composite for biological and catalytic applications	Chemistry	5.00	5.00	The Registrar, Mangalore University, Mangaluru
18	Dr. Bhargavi Goswami, Assistant Professor, Department of Computer Science, Christ University, Hosur Road, Bengaluru - 560 029.	Policy to Automate Recovery in Software Defined Networks (SDN) for Digitized Village	Computational & Mathematical Sciences	5.00	5.00	The Registrar, Christ University, Bengaluru
19	Dr. Gurupadavva Ingalahalli, Assistant Professor, Department of Mathematics, Jawaharlal Nehru National College of Engineering, Navule, Shivamogga- 577204.	Applications of differential Geometry and Riemannian Geometry in the field of Engineering	Computational & Mathematical Sciences	5.00	5.00	The Principal, Jawaharlal Nehru National College of Engineering, Shivamogga
20	Shri. Nayana G Bhat, Assistant Professor, Department of Centre for Incubation Innovation Research & Consultancy, Jyothy Institute of Technology, Tataguni, off kanakapura Road, Bangalore Rural - 560 082.	Whole-cell Modeling and Accelerated Simulation on Heterogeneous Parallel Platform	Computational & Mathematical Sciences	5.00	5.00	The Director, CIIRC, Jyothy Institute of Technology, Bengaluru
21	Dr. Sunanda Saha, Assistant Professor, Department of Mathematics, Dayananda Sagar University, School of Engineering, Hosur Main Road, Kudlu gate, Bangalore - 560 068.	Mathematical modeling and simulation of solute dynamics in the vascular walls	Computational & Mathematical Sciences	5.00	5.00	The Registrar, Dayananda Sagar University, Bengaluru
22	Dr. Uma. A. L, Asstant Professor, Department of Mathematics, Bangalore Institute of Technology, K.R.Road, VV Puram, Bengaluru - 560 004.	Mathematical modelling of Climate Change in selected regions of Karnataka - A Geostatistical approach	Computational & Mathematical Sciences	5.00	5.00	The Principal, Bangalore Institute of Technology, Bengaluru
23	Dr. Sudarshan, Professor, Department of Oral and Maxillofacial Surgery, KLE Society's Institute of Dental Sciences, #20, Yeshwanthpur suburb 2nd Stage, Tumkur Road, Bengaluru - 560 022.	Development of Bio Compatable Material for covering the Teeth to prevent the formation of Dental caries	Medical and Life Sciences	5.00	5.00	The Principal, KLE Society's Institute of Dental Sciences, Bengaluru

24	Dr. Ananda.H, Research Scientist, Department of Chemical Biology Laboratory, Adichunchanagiri Institute for Molecular Medicine, Adichunchanagiri University, B.G Nagar, Nagamangala, Mandya - 571 448.	Strategic approach for synthesis and biochemical characterization of novel topoisomerase inhibitors	Medical and Life Sciences	5.00	5.00	The Director, Adichunchanagiri Institute for Molecular Medicine, Adichunchanagiri University, Mandya
25	Dr. Lokendra Yadav, Senior Scientific Assistant, Department of Transfusion Medicine and Immunohematology (TMIH), St.John's Research Institute (SJRI), St. John's Medical College Hospital, St. John's National Academy of Health Sciences, Sarjapur Road, Koramangala, Bengaluru- 560 034.	Association of HLA genes with CML in an Indian cohort	Medical and Life Sciences	5.00	5.00	The Dean, St.John's Research Institute, Bengaluru
26	Dr. Gireesh.G, Assistant Professor, Department of Cell & Molecular Biology, School of Life Sciences, Manipal Academy of Higher Education, Manipal - 576 104.	Investigation of age dependent influences on social behaviors in mice: Potential role of long-term environmental enrichment and exercise on enhancement of social cognitive and neuronal functions.	Medical and Life Sciences	5.00	5.00	Manipal University Research Unit
27	Dr. Udit Satija, Assistant Professor, Department of Electronics and Communication Engineering, Indian Institute of Information Technology (IIIT) Dharwad, IT Park, Hubballi - 580 029.	Design and Development of Wearable Electro- encephalograms (EEG) Signal Analysis IOT Enabled System For Unsupervised Mental-Health Monitoring and Behaviour Analysis	Electronics and Communication Engineering	5.00	5.00	The Registrar, IIIT, Dharwad
28	Dr.Shilpa. D.R, Associate Professor, Department of Electronics and communication Engineering, Rashtreeya Vidyalaya(R V) College of Engineering, R V Vidyanikethan Post, Mysuru Road, Bengaluru - 560 059.	Electrostatic Energy Harvesting For Self Powered Medical Wearable Devices	Electronics and Communication Engineering	5.00	5.00	The Principal, RV College of Engineering, Bengaluru
29	Ms. Jalpa Shah, Assistant Professor, Department of Electronics and Communication Engineering, Amrita School of Engineering, Kasavanahalli, Carmelaram Post, Off Sarjapur road, Bengaluru Urban - 560 035.	IoT Based Environment monitoring and Controlling System For Preserving Cultural Heritage	Electronics and Communication Engineering	5.00	5.00	The Associate Dean, Amrita School of Engineering
30	Dr. Vani Damodaran, Assistant Professor, Department of Medical Electronics, MS Ramaiah Institute of Technology, Vidya Soudha MSRIT Post, MSR Nagar, Bangalore - 560 054	Design and Development of Portable Handheld Optical Coherence Tomography System with Artificial Neural network Based Real- Time Diagnosis for Ophthalmic Screening	Electronics and Communication Engineering	5.00	5.00	The Principal, MSRIT, Bengaluru
31	Dr. Chaya.B.M, Research Scholar, Department of Electronics and Communication Engineering, Sai Vidya Institute of Technology, Rajanukunte, Doddaballapur Road, Bengaluru - 560 064.	Design, Modelling and Anlysis of Organic Light Emitting Diode for Bio-Sensing Applications	Electronics and Communication Engineering	5.00	5.00	The Principal, Sai Vidya Institute of Technology, Bengaluru

32	Dr. Sandeep Jayaram Nayak, Professor and Head, Department of Civil Engineering, Vivekananda College of Engineering and Technology, P.O. Nehrunagar, Puttur, D.K. 574 203.	Emerging Trends in housing construction - A solution for Rural Development & Mas Housing	Civil Engineering	5.00	5.00	The Principal, Vivekananda College of Engineering and Technology, Puttur
33	Mrs. Kushbu K Birawat, Assistant Professor, Department of Civil Engineering, Global Academy of Technology, IDEAL Homes township, Rajarajeshwari Nagar, Bengaluru - 560 098.	Development of affordable solutions via synergistic means for defluoridation and deconatamination of potable water for rural households	Civil Engineering	5.00	5.00	The Principal, Global Academy of Technology, Bengaluru
34	Dr. Chandre Gowda. C, Associate Professor, CIIRC, Jyothy Institute of Technology, Tataguni, Off Kanakapura Road, Bangalore Rural - 560 082.	Development of Vortex bladeless wind turbines	Civil Engineering	5.00	5.00	The Director, CIIRC, Jyothy Institute of Technology, Bengaluru
35	Dr. Partha Pratim Das, Assistant Professor, Department of Physics, National Institute of Technology, Karnataka, Surathkal, Srinivasnagar-Post, Mangalore - 575 025.	Design and Fabrication of Two Terminal Thin Film Based Naonvolatile Memory Devices	Physics	5.00	5.00	The Director, NITK, Surathkal
36	Dr. Kalpana Sharma, Assistant Professor, Department of Physics, M.S. Ramaiah Institute of Technology, Vidya Soudha, MSR Nagar, MSRIT Post, Banglore - 560 054.	Exploring the fluorescent spectroscopic, quantum chemical and Z scan properties of novel chalcones based fluoro chemosensors for heavy metal ion detection and optical limiting applications	Physics	5.00	5.00	The Principal, Ramaiah Institute of Technology, Bengaluru
37	Dr. Chandra Sekhar Rout, Associate Professor, Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Ramanagaram, Bengaluru - 562 112.	Electrochemical energy storage devices based on 2D Mxene and layered transition metal chacogenides	Physics	5.00	5.00	The Registrar, Jain University, Ramanagara
38	Dr. Shasidhara Bhat, Assistant Professor, Department of PG Physics, Alva's College, Vidyagiri Campus, Moodabidri, D.K.District, 574 227.	Development of A Novel Bismuth Ferrite Based Breath Alcohol Detector to Control Drunk Driving Accidents	Physics	5.00	5.00	The Principal, Alva's College, Moodabidri
39	Dr. Akshaya. K. Samal, Assistant Professor, Department of Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Ramanagara, Bangalore - 562 112.	Controlled sysnthesis of Anisotropic Nanomaterials for detection of pesticides	Nano Science and Technology	5.00	5.00	The Registrar, Jain University, Ramanagara
40	Dr. Jakeer Husain, Assistant Professor, Department of Engineering Physics, Khaja Banda Nawaz College of Engineering, Rouza Buzurg, Kalaburagi - 585 104.	Conducting Polymer Nanocomposites thin films for Industrial Applications	Nano Science and Technology	5.00	5.00	The Principal, Khaja Banda Nawaz College of Engineering, Kalaburagi
41	Shri. Pawan Rangdal, Assitant Professor, Department of Ceramic & Cement Technology, HKE Society's PDA College of Engineering, Kalaburagi - 585 102.	Synthesis of inorganic-organiz porous framework using locally available fullers earth by hydrothermal technique	Chemical Engineering	5.00	5.00	The Principal, PDA College of Engineering, Kalaburagi
42	Mrs. Priya. S, Assistant Professor, Department of Chemical Engineering, Dayananda Sagar College of Engineering, Shavige Malleshwara Hills, Kumara Swamy Layout, Bengaluru -560 078.	Anaerobic Fermentation Studies on Generation of Hydorgen Gas from Crude Glycerol	Chemical Engineering	5.00	5.00	The Principal, Dayananda Sagar College of Engineering, Bengaluru

43	Dr. Parthiban. P, Assistant Professor, Department of Electrical and Electronics Engineering, National Institute of Technology Karnataka, Surathkal Mangalore - 575 025.	Design & Implementation of optimal controller for wide speed operation of SRM for EV applications	Electrical and Electronics Engineering	5.00	5.00	The Director, NITK, Surathkal
44	Dr. Prema V, Assistant Professor, Department of Electrical and Electronics Engineering, R. V. College of Engineering, Mysore Road, Bengaluru - 560 059.	High Performance Self-cleaning solar PV Microgrid	Electrical and Electronics Engineering	5.00	5.00	The Principal, RV College of Engineering, Bengaluru
45	Dr. Mohammad Rizwanur Rahman, Assistant Professor, Department of Metallurgical and Materials Engineering, National Institute of Technology, Srinivasanagar, Surathkal, Mangalore - 575 025.	Development of metallic nano particles-enhanced phase change materials for thermal energy storage	Metallurgical and Materials Engineering	5.00	5.00	The Director, NITK, Surathkal
46	Mrs. Roopa. L, Assistant Professor, Department of Biotechnology, Mount Carmel College (Autonomous), Palace Road, Bengaluru - 560 052.	4D-Quantitative Structure Activity Relationship Model for Tyrosine Kinase Inhibitors as Anticancer Agents using Support Vector Machine Learning	Biological and Agricultural Sciences	5.00	5.00	The Principal, Mount Carmel College, Bengaluru
47	Dr. Vaishali Rai. M, Assistant Professor, Department of Microbiology (UG), St. Aloysius College (Autonomous), Light House Hill Road, Mangaluru - 575 003.	Isolation and characterization of pigment producing bacteria an in vitro study	Biological and Agricultural Sciences	5.00	5.00	The Principal, St. Aloysius College, Mangaluru
48	Dr. Sarvamangala. S. Chalin, Assistant Professor, Department of Biotechnology and Crop Improvement, College of Horticulture, University of Horticultural Sciences, Bagalkot - 587 104.	Identification of Novel candidate genes for adaptability and flowering in tropical climates of carrot (Daucus carota LU by transcriptome profiling of root and floral tissues of temperate and tropical cultivars	Biological and Agricultural Sciences	5.00	5.00	The Comptroller, University of Horticultural Sciences, Bagalkot
49	Dr. Hanumanthappa Makari, Assistant Professor, Department of Biotechnology, I. D. S. G. Government College, Jyothi Nagar, Chikmagalur - 577 102.	Isolation, characterization and utility of bacteriophages as Biocontrol agents against Ralstonia solanacearum - A common pathogen of potato crop	Biological and Agricultural Sciences	5.00	5.00	The Principal, IDSG Government College, Chikmagalur
50	Dr. Suchitra.B. R, Assistant Professor, Department of Veterinary Gynaecology and Obstetrics, Veterinary College, KVAFSU, Hebbal, Bengaluru - 560 024.	Strategies to ameliorate the effect of abiotic stress on the reproductive parameters in rams by using Nano minerals	Biological and Agricultural Sciences	5.00	5.00	The Comptroller, KVAFSU, Bidar
51	Dr. Santosh Kumar.M, Assistant Professor, Department of Biochemistry, Davangere University, Davanagere - 577 007.	Microbial degradation of nitriles and application of whole cells/Enzymes for Biocatalysis and Biotransformation	Biological and Agricultural Sciences	5.00	5.00	The Registrar, Davangere University, Davanagere
52	Dr. S. Raja, Assistant Professor, Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal - 576 104, Udupi District.	Magnetic nanoadsorbents for the adsorptive removal of 2,4-dichlorophenoxyacetic acid (2,4-D) from aqueous solutions	Nano Science and Technology	5.00	5.00	Manipal University Research Unit

53	Dr. Swarnna Haldar, Assistant Professor, Department of Food Technology/ Biotechnology, CIIRC -Jyothy Institute of Technology, Tataguni, off Kanakapura Road, Bangalore Rural - 560 082.	Design and development of biodegradable films from food waste for food packaging	Biotechnology	5.00	5.00	The Director, CIIRC, Jyothy Institute of Technology, Bengaluru
54	Mrs. Louella Concepta Goveas, Assistant Professor, Department of Biotechnology Engineering, Nitte Mahalinga Adyanthaya Memorial Institute of Technology, Nitte - 574 110, Udupi District.	Optimization of polyaromatic hydrocarbons degradation in petroleum crude by indigenous bacteria	Biotechnology	5.00	5.00	The Principal, NMAM Institute of Technology, Nitte
55	Dr. Saravana Kumar. E, Associate Professor, Department of Computer Science and Engineering, The Oxford College of Engineering, Bommanahalli, Hosur Road, Bengaluru - 560 068.	Cloud based Automatic Street Lighting system in Attibele Industrial Area and Rural areas	Computer Science and Engineering	5.00	5.00	The Principal, The Oxford College of Engineering, Bengaluru
56	Dr. Raviraj P, Professor, Department of Computer Science & Engineering, GSSS Institute of Engineering and Technology for Women, KRS Road, Metagalli, Mysuru - 570 016.	Underwater Robotic Fish for Surveillance and Pollution monitoring	Computer Science & Engineering	5.00	5.00	The Principal, GSSSIETW, Mysuru
57	Dr. Nilima Kulkarni, Associate Professor, Department of Computer Science and Engineering, New Horizon College of Engineering, Bellandur Post, Ring Road, Near Marathalli, Bengaluru - 560 103.	A System to identifying the neurological disorder disease for ex. Parkinson's disease using their eye gaze data	Computer Science and Engineering	5.00	5.00	The Principal, New Horizon College of Engineering, Bengaluru
58	Dr. Harish B S, Associate Professor, Department of Information Science and Engineering, Sri Jayachamarajendra College of Engineering, JSS Technical Institution Campus, Mysuru - 570 006.	Machine Learning In Automated Kannada Text Categorization	Information Science and Engineering	5.00	5.00	The Principal, Sri Jayachamarajendra College of Engineering, Mysuru
59	Dr. Sumangala Biradar, Assistant Professor, Department of Information Science and Engineering, BLDE Association's Vachana Pitamaha Dr. P G Halakatti College of Engineering and Technology, Ashram Road, Vijayapur - 586 103.	Secure e-health system using DNA Cryptography	Information Science and Engineering	5.00	5.00	The Principal, BLDE Association's Vachana Pitamaha Dr. P G Halakatti College of Engineering and Technology, Vijayapur
GRAND TOTAL				295.00	295.00	