



Government of Karnataka

Vision Group on Science and Technology

Department of Information Technology, Biotechnology and Science and Technology

KARNATAKA FUND FOR INFRASTRUCTURE STRENGTHENING IN SCIENCE & TECHNOLOGY
K-FIST LEVEL (1)

SELECTED LIST OF K-FIST(L1) PROPOSALS BY VGST – SUBCOMMITTEE (FY: 2016-17)

| SL No | College / Institution | Programme Coordinator & Department | Project Title |
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| 1 | B M S College of Engineering Bengaluru | Dr. Latha Kumari Physics | Thermoelectric Skutterudite Nano materials for Green Energy applications. |
| 2 | Bangalore Institute of Technology, Bengaluru | Dr. D Nagaraja Physics | Measurement of shock induced fluorescence enhancement of Coumarin derived fluorescent chemosensors for metal ions &fluorides& hence their hence their improvisation. |
| 3 | Sri Krishna Institute of Technology Bengaluru. | Dr. Vijayakumar P C Physics | Banana FiberReinforce Polystyrene/Exudated Resin of Ailanthus Malabaricum Tree. |
| 4 | Vijayanagara Sri Krishnadevaraya University Bellary | Dr. K.S Lokesh Chemistry | N4-Macrocycles for Sensing and Electrocatalytic Applications. |

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| 5 | Alliance College of Engineering & Design Anekal, Bengaluru | Dr. Vinita Sahu Chemistry | Synthesis, Anti-oxidant, Anti-Cancerous activities of novel imidazole derivatives and molecular modeling studies on (4+2) cycloaddition reaction. |
| 6 | St. Joseph Engineering College Mangalore | Dr. K Jyothi Chemistry | Synthesis, structural and electrochemical studies of some Nitrogen and Sulphur containing potential pharmaceutical heterocyclic derivatives. |
| 7 | Nitte Meenakshi Institute of Technology Bengaluru | Dr. Srilatha Rao Chemistry | Synthesis & characterization of PVDF -PES ultra-filtration Nano membranes for water purification with long lasting antifouling properties. |
| 8 | Field Marshal K M Cariappa College Madikeri | Dr. J G Manjunatha Chemistry | Enhanced electrochemical Detection of Catechol using graphene paste electrode. |
| 9 | Jyothi Institute of Technology Bengaluru | Dr. S Balaji Centre for Incubation, Innovation and Research. | Establishment of a Genome Computing Cluster. |
| 10 | Government College Sedam Road Kalaburgi. | Dr. Ramakrishna D Microbiology | Isolation and screening of raw starch degrading amyolytic (amylase) enzyme producing thermophilic and alkalophilic microbes from agricultural wastes different soil. |
| 11 | Dayananda Sagar College of Engineering Bengaluru | Dr. Shobha K Jayanna Microbiology | Immobilized microbial consortium for pesticide bioremediation in Ginger cultivated soils of Karnataka. |

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| 12 | Dayananda Sagar College of Engineering Bengaluru | Dr. Poornima Nataraja Computer Applications | Collaboration of Internet of Things (IOT) and High Performance Computing (HPC) for data integration and analytics for health care & general applications. |
| 13 | N M A M Institute of Technology Nitte Udipi District | Dr. Surendra Shetty Computer Applications | Centre of innovation for studies on Automatic Natural Language Processing and Speech Disorder Problems in Kannada language. |
| 14 | Dayanandasagar Academy of Technology & Management Kanakapura Road Bengaluru | Dr. J Anita Computer Science Engineering | Detection of intrusion through Big data analysis for Wireless Sensor Networks. |
| 15 | School of Engineering, Presidency University Yelahanka Bengaluru | Dr. M Sankar. Mathematics | Mathematical modeling of cooling of electronic systems using Different Nano fluids. |
| 16 | Soniya Education Trust's College of pharmacy Sangolli Rayanna Dharwad | Dr. Shrinivas D Joshi Pharmaceutical Chemistry | Upgrading and strengthening of pharmaceutical chemistry lab & research facilities. |
| 17 | Sri B M Patil Medical College Hospital & Research Centre Vijayapur | Dr. R S Bulagouda Anatomy | Molecular characterization of NOS1 gene in Parkinson disease |
| 18 | R Y M Engineering College Contonment Bellary | Dr. Savita Sonali Electronics and Communication Engineering | Establishment of lab for VLSI design with current technology. |

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| 19 | BLDEA 's V P Dr. P G H College of Engineering and Technology Vijayapur | Dr. Pushpa B Patil Computer Science and Engineering | Big Data Analytics laboratory. |
| 20 | BLDEA 's V P Dr. P G H College of Engineering and Technology Vijayapur | Dr. R G Tikotkar Mechanical Engineering | Establishing Tribology Laboratory |
| 21 | SDM College of Engineering and Technology Dhavalagiri Dharwad | Dr. Hemalata V Bhujle Electronics and Communication Engineering | Design and development of optimized spectral techniques in Hyperspectral Mapping of crop & soil for precision agriculture |
| 22 | M V J college of Engineering Channasandra Bengaluru | Dr. I Hameem Shanavas Electronics and Communication Engineering | Setting up Centre of excellence in advanced robotics and industrial automation. |
| 23 | Dr. Ambedkar Institute of Technology Mallathally Bengaluru | Dr. Yamuna Devi C R Telecommunication Engineering | Monosek for Network Security Lab. |
| 24 | Dr. Ambedkar Institute of Technology Mallathally Bengaluru | Dr. Ramesh S Electronics and Communication Engineering | Digital encryption of speech Signal using Chaotic Based stream cipher system for secure Voice communication. |
| 25 | Bheemanna Khandre Institute of Technology Bhalki Bidar District | Dr. Chandrashekhar. M Tavade Electronics and Communication Engineering | Information and Communication Technology enabled digital signal processing. |

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| 26 | Sri Venkateshwara College of Engineering Bengaluru | Dr. Suresha Computer Science and Engineering | WSN Based smart grid for Continuous power supply. |
| 27 | P E S College of Engineering Mandya | Dr. Minavathi Information Science and Engineering | Setting up of network Forensic lab. |
| 28 | Centre for PG Studies VTU Belagavi | Dr. Rashmi R Rachh Computer Science and Engineering | VTU Centre for Big Data Computing (VCBDC) |
| 29 | P E S University Hosakerehalli Bengaluru | Dr. M Veerabhadraswamy Science and Humanities | Developing Green Chemistry resources: Expanding the Horizon of green chemistry and green engineering for technical education. |