

Government of Karnataka
VISION GROUP ON SCIENCE AND TECHNOLOGY
Department of Information Technology, Biotechnology and Science and Technology

List of 100 SPiCE proposals – (2011-12) recommended for financial support by the VGST - SPiCE Sub- Committee

Sl. No.	SPiCE proposal No.	PROJECT TITLE	Name of the College & Department
1	SPC-1	Formulation & In-Vitro Evaluation of Periodontal Film Containing Lomefloxacin Hydrochloride	Bapuji Pharmacy College, Davanagere Dept. of Industrial Pharmacy
2	SPC-3	Altered Salivary and Serum Biomarkers in Dental Caries Disease	A. B. Shetty Memorial Institute of Dental Sciences, Mangalore Dept. of Conservative Dentistry and Endodontics
3	SPC-6	Biosorption by Fungi – A Simple Method to Remove Heavy Metals from Industrial and E-Wastes	Bangalore University, Bangalore Dept. of Microbiology & Biotechnology
4	SPC-13	A Novel Treatment Method for Complete Disinfection & Removal of Organics from Hospital Wastewaters Using Batch Electrochemical Coagulation (BECC)	Sri Jayachamarajendra College of Engineering, Mysore Dept. of Environment Engg.
5	SPC-24	Protein Profile and Physicochemical Properties of Honey	Bangalore University, Bangalore Dept. of Biological Sciences
6	SPC-26	Anti-Osteoporotic Acitivity of Anthraquinones from Fruit Extract of Morinda Citrifolia	PES College of Pharmacy, Bangalore Dept. of Pharmacology
7	SPC-30	Bacopaside – Phosholipid Complex; A Novel Phytopharmaceutical Preparation for the Treatment of Alzheimer’s Disease	SET’s College of Pharmacy, Dharwad Dept. of Pharmacology & Phytochemistry
8	SPC-41	Evaluation of Microbial Fuel Cells in Bacterial Matrix from Sewage Water : An initiative to save fossil fuels	Bangalore University, Bangalore Dept. of Biological Science
9	SPC-42	Particle Size Determination Using Laser	P. C. Jabin Science College, Hubli Dept. of Physics
10	SPC-43	Process Optimization for Biocolor Production by Monascus Species	Vishweshwariah College, Gulbarga Dept. of Biotechnology
11	SPC-45	In Vitro Regeneration & Agrobacterium Tumifaciens Mediated Transformation of Stevia Rebaudiana - A Natural Sweetener	Kristu Jayanti College, Bangalore Dept. of Life Science

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12	SPC-51	Degradation of Poultry waste by Keratinolytic Actinomycetes isolated from poultry waste dumping sites in Bangalore	The Oxford College of Science, Bangalore Dept. of Microbiology
13	SPC-54	Preparation of Herbal Extract Formulation for Antioxidant Effect	KLE University's College of Pharmacy, Belgaum Dept. of Pharmacology
14	SPC-62	Microalgae as a feedstock for biofuel production by Soxhlet extraction method and extractive Fermentation of ethanol on Aqueous two Phase system using Saccharomyces Cerevesiae	Nagarjuna College of Engineering & Technology, Bangalore Dept. of Biotechnology
15	SPC-63	Development of PC Interfaced Science & Engineering Experiments	Jain College of Engineering, Belgaum Dept. of Physics
16	SPC-65	Study on Antibioqram, Antioxidant Effect of Silkworm Cocoon Waste and Cocoon Waste as A Sorbent for the removal of Different sources of Oil from Water	KLE Society's, S. Nijalingappa College, Bangalore Dept. of Biotechnology
17	SPC-68	Utilization of agro waste- Jackfruit peel (rind) by the <i>Bacillus sp</i> , for the Production of crude Mannanose	The Oxford College of Science, Bangalore Dept. of Biochemistry
18	SPC-69	Therpeutic applications of Agnihotra ash on Diabetic Foot Infections	Sahyadri Science College, Shimoga Dept. of Microbiology
19	SPC-71	Preparation & Characterization of Polystyrene - ZnS doped Mn ²⁺ Nanoparticle composites	Jain University, Bangalore Dept. of Physics
20	SPC-72	Dye Sensitised Nano Solar Cells Using Anthocyanin Pigment	JSS College of Arts, Commerace & Science, Mysore Dept. of Biotechnology
21	SPC-75	Preliminary Phytochemical Investigations on Roots of Nerium Oleander, Linn.	KLE Society's R. L. Science Institute, Belgaum Dept. of Botany
22	SPC-77	Investigation of roots of Zanthoxylum for antioxidant activity	Kuvempu University, Shimoga Dept. of Chemistry
23	SPC-88	Isolation of pure Compounds from Crude Cattracts of Medicinal Plants Surrounding Bharathi Nagar	BET Academy of Higher Education, Mandya Dept. of Chemistry
24	SPC-93	Eco Friendly utilization of E-Waste as Coarse Aggregate to Manufacture E-Bricks - M10	Tumkur University, Tumkur Dept. of Physics
25	SPC-94	Evaluation of Resdial Toxicity in Vegetables in Bangalore Rural District	V. V. Pura College of Science, Bangalore Dept. of Sericulture

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26	SPC-98	Investigation & Development of Herbal Products for the Control of Mosquito Vectors	Acharya and B. M. Reddy College of Pharmacy, Bangalore Dept. of Industrial Pharmacy
27	SPC-106	Production of Biocolours from Endophytes of natural dyes yielding plants & their applications	KLE University's College of Pharmacy, Belgaum Dept. of Pharmaceutical Biotechnology
28	SPC-111	Comparative Evaluation of In vitro iron Sequestering Potential of Natural chelators and Bioflavonoid	M. S. Ramaiah Institute of Technology, Vidya Soudha Dept. of Biotechnology
29	SPC-113	Power Generation and Treatment from Microbial Fuel Cell	P E S School of Engineering, Bangalore, Dept. of Chemistry
30	SPC-114	Isolation and Characterization of Petroleum Degrading Micro Organisms from Motor- Bike Petrol Tanks	Mount Carmel college, Bangalore Dept. of Microbiology
31	SPC-117	Enrichment of Y-Oryzanol from Rice Bran Oil	Indian Academy Degree College, Bangalore Dept. of Chemistry
32	SPC-139	Comparative Electrophoretic Analysis of Eye Pigment Protein in Drosophila Melanogaster by treating with a Glaucoma Drug (Bimatoprost) & Extrapolating this Drug's effect on Pregnant Women	Garden City College of Science & Management Studies, Bangalore Dept. of Genetics
33	SPC-151	Comparative Study of Growth Parameters & Biochemical Analysis of Mulberry by using Silkworm Litter & Fym.	Maharani's Science College for Women, Bangalore Dept. of Sericulture
34	SPC-153	Antioxidant and antimocotic activity of phytochemicals extracted from the cumin	SRN Adarsh College, Bangalore Dept. of Biochemistry
35	SPC-172	Electrical Properties of Polyaniline grafted Pullulan	Alva's College, Moodbidri , Dept. of Physics
36	SPC-176	Extraction and Antioxidant Activity Studies of Select Medicinal Plants	University of Science, Tumkur Dept. of Chemistry
37	SPC-178	To Develop the Prototype for Radioactive Anatomical Land Marker	Manipal College of Allied Health Science, Manipal Dept. of Nuclear Science
38	SPC-181	Study of Corrosion Inhibitor on Alloys by Plant Extract	Govinda Dasa College, Surathkal Dept. of Chemistry
39	SPC-182	Studies on the Effect of Nicotine on the Heart Rate of Daphinia	Govt.Science College, Bangalore Dept. of Zoology

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40	SPC-184	Biomonitoring of Lake Waters using Daphnia Acute Toxicity Test	Reva Institute of Science & Management, Bangalore Dept. of Biotechnology
41	SPC-185	Production of Protease and Amylase from Bacillus Licheniformis on Consortium Wheat Bran wastes of Grinding Mills	Indian Academy Degree College, Bangalore Dept. of Microbiology
42	SPC-195	Biosynthesis of Platinum Nanoparticles from Algae (Spirulina platensis)	Bangalore University, Bangalore Dept. of Microbiology & Biotechnology
43	SPC-205	Comparitive Studies on Production & Characterisation of Cellulase by Solid State Fermetation (Rice Bran, Banana Peel & Sugaracane Bagasse) using Trichoderma Reesei	Alva's College, Moodbidri Dept. of Biotechnology
44	SPC-219	Bioavailability of Natural Calcium from Egg Shells: Potential for treating Osteoporosis	University of Mysore, Mysore Dept. of Biochemistry
45	SPC-221	Mutagen induced gene Expression Studies in E. Coli & Clostridium sps for Butanol Production	Dayananda Sagar College of Biological Science, Bangalore Dept. of Biotechnology
46	SPC-225	Isolation & Characterization of Nitrogen Fixing Bacteria from Agriculture Soil	Karnatak University, Dharwad Dept. of Microbiology & Biotechnology
47	SPC-226	Economical Production of Bacterial Cellulose from Gluconacetobacter Persimmonis	B.V.B. College of Engg. & Technology, Hubli Dept. of Biotechnology
48	SPC-227	Phytochemical & Antifungal Evolution of Castor Plant Leaves (Ricinus Communis L.)	Padmashree Institute of Management & Sciences, Bangalore Dept. of Biotechnology
49	SPC-228	Comparative Study of Macro Nutrients CN, P & K) of Soils present in Different regions of Kundapur Taluk	Bhandarkar's Arts & Science College, Kundapur Dept. of Chemistry
50	SPC-229	Synthesis & Study of Electrical Properties of Conducting Polyaniline & Polypyrrole Polymers	Sri Mahaveera First Grade College, Kodangallu Dept. of Chemistry
51	SPC-230	Isolation & Characterization Polyphenol Oxidase from Phyllanthus Amblica (Indian Gooseberry)	Government of Science College, Hassan Dept. of Biotechnology
52	SPC-231	Evaluation of Anti-Asthmatic & Anti-Tussive Acitivity of Calotropis Gigantea	Dayananda Sagar College of Pharmacy, Bangalore Dept. of Pharmacology

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53	SPC-236	Electricity from Fast Moving River Water	Basaveshwar Science College, Bagalkot Dept. of Physics
54	SPC-238	Impact of Water Pollution by Assessing Physicochemical & Microbiological status of Kotur Lake (Ooru Kere) in Dharwad Dist. – A Case Study	Karnataka Science College, Dharwad Dept. of Zoology
55	SPC-239	Amtidiabetic & Phytochemical Investigation of Andrographis Paniculata	Sri Dharmastala Manjunatheshwara College, Ujire Dept. of PG Medicinal Chemistry
56	SPC-240	Isolation of Efficient Endosulfan Degrading Bacterial Strains from Soil	Sri Dharmastala Manjunatheshwara College, Ujire Dept. of Biotechnology
57	SPC-245	Production of Bio – Ethanol from Eupatorium Triplinerve – A weed by Zymomonas Mobilis	Bapuji Institute of Engineering & Technology, Davanagere Dept. of Biotechnology
58	SPC-266	Biodegradable Polymers in Advance Chemistry	Mahatma Gandhi Memorial College, Udupi Dept. of Chemistry
59	SPC-272	To Compare & Analyze the importance of the Iodine number, Acidic Value & Peroxide Value of used Edible Oil	Sri Dharmastala Manjunatheshwara College, Ujire Dept. of P.G. Studies and Research in Biotechnology
60	SPC-276	Effect of Neem (Azadirachta Indica) Clove (Syzygium Aromaticum), Cinnamon (Cimmamomun Zeylanicum) on Microbial Pathogens Isolated from Periodontitis Infected Patients	Karnatak Science College, Dharwad Dept. of Zoology and Microbiology
61	SPC-285	Microbial Degradation of Pesticides	B.V.Bhoomaraddi College, Hubli Dept. of Biotechnology
62	SPC-298	Neuroprotective Activity of Berberis Aristata dc against Global Cerebral Ischemia & Parkinson's Disease in Rat Model	HSK College of Pharmacy, Bagalkot Dept. of Pharmacology
63	SPC-300	Study of Silk of Spider Web o Bagalkot District Using Diffraction of Laser & Electron Microscope	Basaveshwar Science College, Bagalkot Dept. of Physics
64	SPC-302	Screening for Antibacterial compounds from Solvent extracts of Citrus spp.	Teresian College, Mysore Dept. of Biotechnology
65	SPC-303	Production of Electric Energy in Moving Vehicles by Wind Turbines	Janata Shikshana Samiti's Banshankari Arts, Commerce & Shantikumar Gubbi Science College, Dharwad

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66	SPC-305	Analytical Study of Jatyadi Ghrita & Jatyadi Ghrita Avartini & its wound Healing Property – An Experimental Study	KLE University's Sri BMK Ayurveda Mahavidyalaya, Belgaum Dept. of Bhaishajya Kalpana
67	SPC-306	Study of Biodegradation of Coir Waste using Phanerocheate Chryso sporium & Rhizopus Stolonifer to obtain Glucose for Production of Bio-Fuel	Reva Institute of Science & Management, Bangalore Dept. of Biotechnology
68	SPC-311	Analysis of Corporation Water of Various Locality in Bangalore	BMS College for Women, Bangalore Dept. of Microbiology
69	SPC-328	Anti-Clastogenic Activity of Roots of "Lawsonia Inermis"	J. S. S. College of Pharmacy, Mysore Dept. of Pharmacology
70	SPC-330	Novel Method for the Extraction of Anacardic Acid from Cashew Nut Shells	Government Science College, Hassan Dept. of PG Studies in Chemistry
71	SPC-339	Cardio Protective Activity of Momordica Dioica Roxb	J. S. S. College of Pharmacy, Mysore Dept. of Pharmacology
72	SPC-364	Crystal Growth & Characterization of NLO Crystals	Govinda Dasa College, Surathkal Dept. of Physics
73	SPC-369	Antidiabetic Activity of Wrightia Tinctoria Medicinal Plant	Sahyadri Science College, Shimoga Dept. of Chemistry
74	SPC-384	Exploring the Analgesic, Anti-Venom & Anti-Inflammatory Activities from the Leaves of Folk Medicinal Plant Heddumbe (Lobelia Nicotianefolia) from Shimoga Region	Sahyadri Science College, Shimoga Dept. of Biochemistry
75	SPC-386	Extraction & Characterisation of Biofuel from Locally (Dharwad Taluk) available Minor Oil Seeds as an Alternate to Non Renewable Sources of Energy	Kittel Science College, Dharwad Dept. of Chemistry
76	SPC-398	Prudent Elucidation of Physiochemical & Bacterial Characteristics of Byramangala Tank, Ramanagara Dist.	Dayananda Sagar College of Engineering, Bangalore Dept. of BE Biotechnology
77	SPC-402	Comparative Evaluation of total Phenol, Flavonoid & Antioxidant Properties of Edible & Non-Edible Fenugreek Leaves	Sri Adichunchanagiri College of Pharmacy, B. G. Nagara Dept. of Pharmaceutical Chemistry

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78	SPC-415	Hydrogen Storage & on Demand Delivery	The National Degree College, Bangalore Dept. of Physics
79	SPC-431	Synthesis of Chitosan – Polylactic Acid Polymer Blends	St. Aloysius College, Mangalore Dept. of MSc. Analytical Chemistry
80	SPC-449	Yeast used in Bioremediation	BMS College for Women, Bangalore Dept. of Botany
81	SPC-475	Smart Kit For Blinds	The National Degree College, Bangalore Dept. of Electronics
82	SPC-484	Wound Healing Activity of Spider Web in Diabetic Condition	Sree Siddaganga College of Pharmacy, Tumkur Dept. of Pharmacology
83	SPC-516	Preparation & Characterization of Al ₂ O ₃ thin Films by Spray Pyrolysis method for Humidity Sensor	Mount Carmel College, Bangalore Dept. of Physics
84	SPC-523	An Unmanned Spied boat/ Landova with Audio/ Video Transmission Capability controlled Via GSM/ Satellite for Navy's Anti-Infiltration Operation	New Horizon College of Engineering, Bangalore Dept. of Information Science and Engineering
85	SPC-560	Synthesis, Characterization & Impedance Studies on Polymer Ferrite Nanocomposites for Applications in Electromagnetic Interference (EMI) Shielding	Government Science College, Chitradurga Dept. of PG Studies in Physics
86	SPC-567	Formulation & Evaluation of Perindopril Erbumine Proniosomal Gel	NET Pharmacy College, Raichur Dept. of Pharmaceutics
87	SPC-580	Estimation of Monosodium Glutamate (MSG) in Various Packed Food Samples	St. Aloysius College, Mangalore Dept. of P.G. Analytical Chemistry
88	SPC-586	Biomechanical Energy Harvester	S. D. M. Degree College, Honnavar Dept. of Physics
89	SPC-599	Fungal Diversity of Nekkarekadu, Vittal D. K. (Dist.)	Vivekananda College, Puttur Dept. of Botany
90	SPC-606	Fabrication of Agriculture Sensors	PES School of Engineering, Bangalore Dept. of Science and Humanities & Chemistry
91	SPC-614	Removal of Water Soluble dyes using Magnesium Oxide & Zinc Oxide	University College of Science, Tumkur Dept. of Chemistry
92	SPC-619	Phytochemical Screening & Evaluation of Phytochemicals for Antipyretic properties of Medicinally important plant Cynodon Dactylon	B. V Bhoomaraddi College of Engineering & Technology, Hubli Dept. of Biotechnology

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93	SPC-636	A Study on influence of Industrial Waste on Microscopic Photosynthetic Biodiversity in Bhadra River	Sir M. V. Govt. Science College, Bhadravathi Dept. of Microbiology
94	SPC-640	Design & Construction of Few Low Cost Electronics & Physics Experiments of UG & PG Level using E-Waste	Tumkur University, Tumkur Dept. of PG Studies and Research in Physics & CSTRD
95	SPC-642	A Survey and Epidemiological Study of Arsenic Level in Different Parts of Karnataka State	Acharya and B. M. Reddy College of Pharmacy, Bangalore Dept. of Pharmaceutical Chemistry
96	SPC-645	Bacterial Decolourization of a Textile Dye Obtained from an Industry	Yuvaraj's College University of Mysore, Mysore Dept. of Environmental Science
97	SPC-658	Synthesis of Coumarin Analogues as Neuroprotectants in Drosophila Melanogaster	Yuvraja College, University of Mysore, Mysore Dept. of Studies in Chemistry
98	SPC-667	Screening of the Plant Extracts for Anti-Diabetic Effect through Pancreatic β - Cell Function Stabilization	St. Aloysius College, Mangalore Dept. of Biochemistry
99	SPC-670	Food Adulteration in Commonly Consumed food Stuffs	S. B Arts & KCP Science College, Bijapur Dept. of Chemistry
100	SPC-685	Isolation of Phytochemicals from a Species of Loranthus	Vivekanda College, Puttur Dept. of Botany

(Dr. S. Ananth Raj)
Executive Secretary
VGST, DST, GoK.,