K S SCHOOL OF ENGINEERING AND MANAGEMENT

Department of Electronics and Communication Engineering

List of Proposals Submitted

Sl. No	Investigator	Title of the Project	AGENCY	Year
1	Mrs. Vidhya R	Quality of Service Enhancement for LTE in Support of Emerging M2M Communication	SMYSR(VGST)	July 2014
2	Dr. FathimaJabeen	Imaging of Moving Target Using CAPON Beamforming Algorithm and Four Channel Transmitter Antenna	CISEE(VGST)	July 2014
3	Dr. Karthik P	Development of Secured Communication in Big Data Using FPGA	HPCD(DST)	October 2015
4	Dr. FathimaJabeen	Design and Implementation of Target Identification System Using GSU-MUSIC Algorithm in Circular Array Antenna Sensors	CISEE(VGST)	October 2015
5	Mrs. Vidhya R	Underwater Image Processing: Image Restoration and Enhancement	SMYSR(VGST)	October 2015
6	Dr. Karthik P & Mr. Gopalakrishnamurthy CR	Design and Implementation of Fiber Bragg's Grating Sensor for Detection of Sound Waves in Underwater	K-FIST L1 (VGST)	October 2015
7	Dr. Karthik P	Design and Implementation of Fiber Bragg's Grating Sensor for Detection of Sound Waves in Underwater	Young Scientists (DST)	2016
8	Dr. Girish V Attimarad	Model Based Development Approach for Embedded System	FDP (VGST)	October 2017
9	Dr. Karthik P	Design and Development of Secured Communication in Data Centric Using FPGA	CESEM (VGST)	October 2017
10	Dr. Dushyanth N D	Fully Autonomous Micro Air Vehicle for Farmland Surveillance and Crop Monitoring using Image Processing	CISEE (VGST)	October 2017
11	Dr. Dushyanth N D	Satellite Navigation Applications Development and Ground Segment	S-NAP(ISRO)	April 2019
12	Dr. Karthik P & Dr. Girish V Attimarad	Design and Implementation of Motion Detection Algorithm for Underwater Surveillance	DST (WTI)	July 2019
13	Dr. Karthik P & Dr. Girish V Attimarad	Maneuvering Motion Detection for Underwater Surveillance using SOANR	Marine System Panel (NRB)	November 2019
14	Dr. Karthik P & Mr. Pradeep K R	Acoustic Communication with IoT for Underwater Surveillance	K-FIST L2 (VGST)	December 2019
15	Dr. Jyothi P N & Dr. Karthik P	Solar Powered Composite Groundnut Unit for Separation Decortication and Bio Manure Making Process	RGS (VGST)	December 2019
16	Dr. Karthik P & Dr. Jyothi P N	Design and Development of an Acoustic Vehicle for Surveillance in Underwater Environment	K-FIST L1 (VGST)	December 2019

17	Mr. Ravikiran B A & Mr. Puneeth S	Design and Development of a Wearable Auscultatory Device for Continuous Monitoring of Cardiopulmonary Sounds	K-FIST L1 (VGST)	December 2019
18	Dr. Karthik P & Dr. Girish V Attimarad	Center of Innovation Science to Study the Maneuvering Motion Detection for Underwater Surveillance using SOANR	CISEE (VGST)	December 2019
19	Dr. Karthik P & Dr. Girish V Attimarad	Maneuvering Motion Detection for Underwater Surveillance using SOANR	Marine System Panel (NRB)	Resubmitted on 10-01-2020
20	Dr. Dushyanth N D	Improving Positioning Accuracy of the IRNSS for its Effective usage in Structural Health Monitoring Applications	IIRS	August 2020
21	Dr. Karthik P & Dr. Girish V Attimarad	Maneuvering Motion Detection for Underwater Surveillance using SOANR	K-FIST L2 (VGST)	February 2021
22	Mr. Gopalakrishnamurthy C R & Dr. Karthik P	Upgradation of Electronics Devices Laboratory as a Center for Hardware Circuit Design and Implementation	K-FIST L1 (VGST)	February 2021
23	Mr. Gopalakrishnamurthy C R & Dr. Karthik P	Up gradation of Electronics Devices and Instrumentation Laboratory as a centre of Hardware design and Implementation centre	K-FIST L1 (VGST)	February 2022
24	Dr. Karthik P & Dr. Girish V Attimarad	Underwater Surveillance to Offshore Station using IOT	VGST- (CISEE)	February 2022
25	Dr. Karthik P	Drone Enabled Services Using UTM	DoT (Department of Telecommunication) Selected for 2nd Stage Evaluation	November 2022
26	Mr. Ravikiran B A & Mr. Gopalakrishna Murthy C R	Pioneering Technologies for a Sustainable and Inclusive Healthcare System in India	FDP (VGST)	June 2024
27	Dr. Kishore M & Mr. Dileep J	Smart Automation using IoT	FDP (AICTE-ATAL)	May 2024
28	Dr. K Senthil Babu & Mr. Dileep J	The Growing role of Deep Learning in Healthcare: Recent Advances and Applications	FDP (VGST)	June 2024
29	Dr. Girish V Attimarad, Mr. Ravikiran B A, Dr. Manu D K	Learning based Non-Invasive Smartphone Centric Multispectral Imaging Point-of-Care Device for Dermatological Diagnosis	BIRAC – Biotechnology Ignition Grant Scheme	June 2024
30	Dr. Girish V Attimarad, Mr. Ravikiran B A	LOS2ID3 - Learning Oriented Smartphone-centric Multi-Spectral Imaging as Derm-Diagnostic Device	K-FIST L1 (VGST)	June 2024

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Department of Electronics and Communication Engineering
List of Proposals Submitted – KSCST

Sl. No	Faculty Mr. Investigator	Student	Title Of The Project	Status
1	Mr. Glenson Toney	Mr. Edhalahemanth chowdary	Design And Implementation Of Advanced Robot For Paddy Cultivation Using ARM 7	Submitted October 2015
2	Mr. Puneeth S	Mr. S Manoj	Design And Implementation Of ARM Based Silkworm Cocoons Quality Analysis System	Submitted October 2015
3	Dr. Fathimajabeen	Mr. Chandan K	Design And Implementation Of Robotic Vehicle Controlled By Glove Using Raspberry Pi For Landmine Detection And Bomb Re-Location	Submitted October 2015
4	Mrs. Renuka V Tali	Mr. Shabarish V	Design And Implementation Of Real-Time Arrhythmia Detector Using LABVIEW	Submitted January 2018
5	Dr Girish V Attimarad	Mr. Ajay Kumar	Design And Implementation Of Canal Automation Using LABVIEW	Submitted January 2019
6	Mrs. Renuka V Tali	Ms. Arpita K	Implementation Of Brain Tumor Image Detection And Classification Module Based On Convolution Neural Networks	Submitted January 2019
7	Mr. Puneeth S	Mr. Snehith M	Design And Implementation Of Smart Glove For Stroke Rehabilitation Using Iot	Submitted January 2020
8	Mr. Manu D K	Mr. Mohammed Fazil P	Anti-Theft Security System With Image Feedback Using Raspberry-Pi And Iot	Submitted January 2020
9	Mr. Senthilbabu& Mr. Syed Waseemtabriaz	Ms. Nehabridar	Prototype For Real-Time Industrial Environmental Monitoring	Submitted January 2020
10	Mr. Senthilbabu	Mr. Arvind Raj Kumar	Prototype For Real-Time Monitoring And Controlling Hydroponics System	Submitted January 2020
11	Mr. Manu D K	Mr. Akhilesh B	Design And Implementation Of Solar Grass Cutter	Submitted February 2021
12	Mr. Manu D K	Ms. Pavithra GP	Design And Development Of Solar Panel Tracking System	Submitted February 2021
13	Dr. Senthilbabu	Ms. Naidu Sravya K	Prototype For Real-Time Drip Irrigation System With Crop Protection.	Submitted February 2021
14	Dr. Karthik P	Mr. Vishnu K	Design And Development Of Renewable Energy Harvesting In The Acoustic Environment	Submitted February 2021
15	Mrs. Shanthala GM	Ms. Nikitha S N	Implementation Of Digitalized Aadhar Enabling Ration System Using Iot	Submitted February 2021

16	Mr. Syed Waseemtabraiz	Ms. Rekha D	Implementation Of Smart Medicine Box For Blind And Elderly People Using Iot	Submitted February 2021
17	Mr. Gopalakrishnamurthy C R	Ms. Divya M	Implementation Of Early Flood Detection And Avoidance Using Iot And Machine Learning	Submitted February 2021
18	Mr. Gopalakrishnamurthy C R	Ms. Deeksha NV	Automation Or New Concepts In Agriculture	Submitted February 2021
19	Dr. Shalinisharvan	Mr.Chethan J	Implementation Of Deep Learning Technique For Lung Disease	Submitted February 2021
20	Mrs. Renuka V Tali	Mr. Vinay L	Implementation Driver Sleep Detection And Alert System	Submitted February 2021
21	Mrs. Renuka V Tali	Ms. Pragathi U	Implementation Of Gas Detection And Monitoring Using Iot	Submitted February 2021
22	Mrs. Manjula B G	Mr. Pratik P Shirali	Design And Development Of Power Generation Model By Semi Perpetual Motion Machine	Submitted February 2023
23	Mrs. Tejaswini G V	Mr. Anush K C	Design And Development Of Electric Power Generation Model Using Urban Waste	Submitted February 2023
24	Mr. Gopalakrishnamurthy	Mr. Dheva C	Implementation Of A Prototype For Automatic Compression Mechanism In BVM	Submitted February 2023
25	Dr. K. Senthil Babu	Ms. Kavya C	Implementation Of An Automated Portable Hydrophone System For Indoor Envrionment	Submitted February 2023
26	Mrs. Renuka V Tali Dr. K. Senthil Babu	Ms. Sneha B	An Iot-Based Smart Wearable System For Monitoring Asthma Patients.	Submitted February 2023
27	Mr. Ravikiran B A	Mr. Lingutla Tarun Kumar	Eye Tracking System For Appliance Control By Paralyzed Impared	Submitted February 2023
28	Dr. K. Senthil Babu	Mr. Nithin N	Design And Fabrication Of A Prototype For Knee Rehabilitation	Submitted February 2023
29	Dr. K Senthil Babu Mrs. Bhargavi V S	Ms. R. Sasikala	Smart Electronic AID For Visually Impaired	Submitted February 2023
30	Dr. Karthik P	Ms. Anjali M	Development And Implementation Of Driver Drowsiness Detection System	Submitted February 2023
31	Dr. Karthik P	Mr. Durga Prasad G	Image Processing Based Mapping And Surveying Of Land Using Drone	Submitted February 2023
32	Dr. Girish V Attimarad	Ms. Bhavana S	Smart Shopping Trolley With Automated Billing	Submitted February 2023
33	Dr. Manu D K	Mr. R Parthiban	Prototype For Surface Waste Collection System In Water Bodies	Submitted January 2024
34	Dr. Karthik P	Mr. Gangeddula Jyothiswar Reddy	Implementation Of Low Cost Ventilator	Submitted January 2024

35	Mrs. Bhargavi V Sangam	Ms. Uma C	Hand Gesture Recognition To Text And Speech Conversion Using Image Processing	Submitted January 2024
36	Mrs. Renuka V Tali	Ms. Akshatha S	Identification Of Right And Left Ventricular Hypertrophy From ECG Using Deep Learning Technique	Submitted January 2024
37	Dr. K Senthil Babu	Ms. Tejashree M	A Low-Cost Therapeutic Exercise Machine For Mechanized Knee Rehabilitation	Submitted January 2024
38	Mr. Dileep J	Ms. Pooja R	"Automated Attendance Management System Using Machine Learning"	Submitted January 2024
39	Dr. Girish V Attimarad	Mr. G Neeraj	Design And Fabrication Of 2.4ghz Microstrop Antenna For Wearable Devices And Medical IoT	Submitted January 2024
40	Mr. Ravikiran B A	Mr. Joshwa A	"Wireless Structural Vibration Monitoring System Using Iot	Submitted December 2024
41	Mr. Ravikiran B A	Ms. Anika Kavya Tippinni	Design Of A Low-Cost Surface Emg (Semg) Acquisition Device.	Submitted December 2024
42	Mr. Gopalakrishna Murthy C R	Mr. Dhanush B	Design And Development Of Emg Sensor Based Prosthetic Arm	Submitted December 2024
43	Dr. K Senthil Babu	Mr. Shashank S	Implementation Of A Rudimentary And Keen Prototype For Knee Rehablitation	Submitted December 2024
44	Mr. Dileep J	Mr. Mohammed Aymaan	Design Of Intelligent Shopping Trolley Using Arduino	Submitted December 2024
45	Mrs. Manjula B G	Mr. Ajay N V	Iot Based Smart Energy Meter	Submitted December 2024
46	Dr. Renuka V. Tali	Mr. Ram Prasad P V	Identification & Classification Of Left And Right Ventricular Hypertrophy Using ECG Signals	Submitted December 2024
47	Mrs. Bhargavi Vijendra Sangam	Mr. Mallesh N	Design And Implementation Of 3D Printer Using Plastic Waste	Submitted December 2024
48	Dr. Renuka V. Tali	Ms. Shreya M Dambal	Surface Waste Collection System For Water Bodies	Submitted December 2024

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List of Proposals Sanctioned and Completed

S. No	Faculty Investigator	Student	Title of the Project	Amount Sanctioned	Year of Completion
1	Dr. Karthik P	---	Design and Development of Novel Sensor for Detection and Direction Finding for Underwater	Rs.24,89,200/-	Jan 2017
2	Mr. Ravikiran B A & Dr. Karthik P	Mr. Mahesh P	Arduino Based Qucadcopter with Obstacle Avoidance Features	Rs. 4500/-	June 2014
3	Mr. Ravikiran B A	Mr. Vasudev KT	Design and Implementation of Programmable Smart Glove for Gesture Recognition Application	Rs. 5000/-	June 2016
4	Mrs. Swati Sarkar	Ms. Gunasree G	Implementation of Smart Gadget for Women Safety by Using Raspberry Pi	Rs. 5000/-	June 2018
5	Mrs. Prathibha SN	Mr. Pradeep C	Design and Implementation of Asset Management using Deep Learning	Rs. 5000/-	June 2018
6	Dr. Karthik P	Mr.Anand B N	Development and Implementation of AUV for Data Acquisition and Image Enhancement	Rs. 5000/-	June 2018
7	Mr. Syed WaseemTabriaz	Ms. Harshitha R	Implementation of Automatic Evaluating of Water Quality using IoT	Rs. 5000/-	June 2018
8	Mr. Gopalakrishna Murthy CR	Ms. Apeksha M	Design and Implementation of Highway Electric Power Generation Using Wind Turbine for Smart Traffic and Light Control System Using Aurdino	Rs. 6000/-	June 2019
9	Mrs. Shanthala GM	Ms. Alekhya J	Implementation of Smart Land Survey Robot Using Aurdino Mega	Rs. 7000/-	June 2019
10	Mr. Ravikiran B.A	Mr. Nishith K Vasishta	Implementation of a Raspberry Pi based Assistance System for the Visually Impaired	Rs.6000/-	August 2020
11	Mrs. Shanthala GM	Ms. Sushma S	Implementation of Automated Shopping Trolley for Billing System Using Raspberry Pi	Rs. 5000/-	August 2020
12	Mr. Gopalakrishna Murthy CR	Ms. Priyanka	Design and Implementation of Aurdino Based Automated Smart Sericulture System	Rs.4500/-	August 2020
13	Dr, Girish V Attimarad &Dr.Karthik P	Ms. Sangeetha B	Image Processing in Side SCAN SONAR Images for Object Detection and Classification	Rs. 5000/-	August 2020
14	Mr. Ravikiran B A	Mr. Arvind K	Design and Implementation of Wearable Auscultation Device for Cardiopulmonary Sound Monitoring	Rs. 5000/-	August 2020
15	Dr. K. Senthil Babu	Ms. Pooja N	Gas Sensor Based Portable Enose for Inquisition of Food Samples	Rs. 5,000/-	August 2021
16	Mr. Vinay R	Ms. Shreyas S S	Design and Impementation of Contact-less Biometric and Temperature Monitoring System	Rs. 5,000/-	August 2021
17	Mr. Manu D K	Ms. Pavithra G P	Design and Development of Solar Panel Tracking System	Rs. 6,000/-	August 2021
18	Mrs. Shanthala G M	Ms. Nikitha S N	Implementation of Digitalized Aadhar Enabling Ration System using IoT	Rs. 5,000/-	August 2021

19	Dr.Manu D K	Mr. Ganesh P K	Solar Outdoor Air Purifier with Air Quality Monitor (VTU)0	Rs. 5,000/-	July 2022
20	Mr.Gopalakrishnamurthy.C.R	Ms. J.Akila Ms. D Devishree	IoT based approach for Fully Automated Greenhouse. (VTU)	Rs. 5,000/-	July 2022
21	Mrs. Manjula B G	Mr. Pratik P Shirali	Design and Development of Power Generation Model by Semi Perpetual Motion Machine	Rs. 5,000/-	June 2023
22.	Mr. Ravikiran B A	Mr. Lingutla Tarun Kumar	Eye Tracking System for Appliance Control by Paralyzed Impared	Rs. 4,000/-	June 2023
23	Dr. K Senthil Babu Mrs. Bhargavi V S	Ms. R. Sasikala	Smart Electronic AID for Visually Impared	Rs. 5,000/-	June 2023
24	Mrs. Renuka V Tali Dr. K. Senthil Babu	Ms. Sneha B	An IoT-Based Smart Wearable System for Monitoring Asthma Patients.	Rs. 5,000/-	June 2023
25	Dr. K Senthil Babu	Ms. Tejashree	A Low-cost Therapeutic Exercise Machine for Mechanized knee Rehabilation	Rs.5,500/-	June 2024
26	Dr. Manu D K	Mr. R Parthiban	Prototype for surface waste Collection System in Water Bodies	Rs.5,000/-	June 2024
27	Dr. Dileep J	Mr. Mohammed Aymaan	Design of Intelligent Shopping Trolley Using Arduino	Rs. 4,000/-	March 2025
28	Dr. Renuka V Tali	Mr. Ramprasad	Identification & classification of left and right ventricular hypertrophy using ECG signals	Rs. 4,500/-	March 2025
			TOTAL	**Rs. 1,37,000/-**	

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List of Project Proposals Submitted by Faculty and Students

Sl. No	Year	No. of Projects
1	2013-2014	2
2	2014-2015	2
3	2015-2016	8
4	2016-2017	0
5	2017-2018	4
6	2018-2019	4
7	2019-2020	12
8	2020-2021	14
9	2022-2023	17
10	2023-2024	16
11	2024-2025	9

List of Project Sanctioned

Sl. No	Year	No. of Projects	Amount Sanctioned
1	2013-2014	2	17,35,500/-
2	2014-2015	1	7,58,200 (753,700/-4500/-)
3	2015-2016	1	5,000/-
4	2016-2017	0	--
5	2017-2018	4	20,000/-
6	2018-2019	2	13,000/-
7	2019-2020	5	25,500/-
8	2020-2021	2	11,000/-
9	2021-2022	2	10,000/-(VTU)
10	2022-2023	8	19,000/-
11	2023-2024	2	10,500/-
12	2024-2025	2	9,500/-

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