

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the last five years (INR in Lakhs)

Name of the research project/ endowment	Name of the Principal Investigator/ Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned (₹)	Duration of the project	Name of the Funding Agency	Type (Government /non-Government)
MANIM-An animation Library	Dr. Rajini V Honnungar	Electronics & Communication Engineering	2022	22,788	Ongoing	IEEE (EPICS)	Non-Government
Fiber bragg grating sensor and AI/ML based optical health decision support system for diagnosis of Vital healthcare parameters for hospitalised patients.	Dr. Rajini V Honnungar(Collaborative)	Electronics & Communication Engineering	2022	10,00,000	ongoing	VTU	Government
5- day ATAL FDP on Recent Trends in the world of Photonics	Dr. Rajini V Honnungar	Electronics & Communication Engineering	2021	93000	5 days	AICTE	Government
CCUBE-21	Dr. Vipula Singh, Dr.Andhe Pallavi, Dr. Sumathi	Electronics & Communication Engineering, EIE, EEE	2021	75000	2 days	VTU	Government
Leg aided hole digger	Dr. Dinesh Anvekar	Electronics & Communication	2022	6000	1 year	FEAR Proposal	Non-Government

for sapling plantation		on Engineering					
Rakshak - A secure riding helmet with embedded intelligence	Dr. Prakash Tunga	Electronics & Communication Engineering	2022	5000	1 year	VTU	Government
Neonatal Intensive Care Unit	Mrs. Pavitra M	Electronics & Communication Engineering	2022	5000	1 year	VTU	Government
A Biomechanical Foot Balancing Platform to measure Plantar foot Pressure	Dr. Ibrar Jahan M A	Electronics & Communication Engineering	2022	20,000	3 Months	DSU	Non-Government
Color sorting machine	Rashmy Deepak	Electrical and Electronics Engineering	2022	5000	1 year	VTU	Government
GSM based energy meter billing along with load control	Sharmila N	Electrical and Electronics Engineering	2022	5000	1 year	VTU	Government
AI enabled smart head posture corrector device	Dr. Mallikarjun H M	Electronics & Instrumentation Engineering	2022	6000	6 months	KSCST	Government
Manoglani Pareekshak	Dr. Mallikarjun H M	Electronics & Instrumentation Engineering	2022	10,00,000	2 years	VTU RPS	Government
Finger print based access and billing for common point charging	Savitha	Electronics & Instrumentation Engineering	2022	5,000	1 year	VTU	Government

Real Heros- Women's safety devices	Andhe Pallavi	Electronics & Instrumentation Engineering	2022	5,000	1 year	VTU	Government
Design of Desalination and oxgen extraction unit	Abhilash NR	Civil Engineering	2022	5000	1 year	VTU	Government
Recharging of Pheratic zone through pervious concrete	Ravikumar R	Civil Engineering	2022	5000	1 year	VTU	Government
Strengthening of MICP Inorganic soft clay as a composite soil for infrastructure applications	Ms.Amulya T H M Mr. M T Prathap Kumar	Civil Engineering	2022	6000	6 months	KSCST	Government
Fabrication of Electric Bicycle using Dynamo	Mr J R Jaganath	Mechanical Engineering	2022	5000	1 year	VTU	Government
Design and Fabrication of Portable Oil Skimmer	Mr Manjunath N	Mechanical Engineering	2022	5000	1 year	VTU	Government
Underwater image enhancementf or improved visual perception	Bhagavat Singh	Information Science Engineering	2022	5000	1 Year	VTU	Government
Lip movement recognition and conversion to audio for blind people	Prakash S	Information Science Engineering	2022	5000	1 year	VTU	Government

Restoration of Obscured images using machine learning techniques	Sathish	Computer Science Engineering	2022	5000	1 Year	VTU	Government
Gesture detection smart watch for elderly and physically challenged	Kiran	Computer Science Engineering	2022	5000	1 year	VTU	Government
Entrepreneurs hip through start – ups in Engineering Institutes: Current status, Outcomes and Needed Impetus.	Dr Tamizharasi, Dr U Bhojanna, Dr Archana P	MBA	2022	6,00,000	24 Months	VTU	Government
Analysis and Estimation Of Milk Products Using Electronic Sense Organs.	Dr. Dinesh Anvekar	Electronics & Communication Engineering	2021	5000	1 year	VTU	Government
Portable Intensive Care Unit Equipment using IOT	Pavitra M	Electronics & Communication Engineering	2021	5000	1 year	VTU	Government
Automated Screening and Health Monitoring System	Mr. Narendra Kumar	Electronics & Communication Engineering	2021	5000	1 year	KSCST	Government
prosthetic hand	Rashmy Deepak	Electrical and Electronics Engineering	2021	5000	1 year	VTU	Government

solar powered smart irrigation system	Sharada Prasad	Electrical and Electronics Engineering	2021	5000	1 year	VTU	Government
Smart Mirror	Sony Venugopal	Electrical and Electronics Engineering	2021	5500	6 months	KSCST	Government
IoT based Solar Energy Management and Control system	Manohar P	Electronics & Instrumentation Engineering	2021	5000	1 year	VTU	Government
IoT Enabled Monitoring Aid for Bronchial Asthmatic Patients	Sneha G Chachadi	Electronics & Instrumentation Engineering	2021	5000	1 year	VTU	Government
Enhanced Braille Display	Dr. Madhura G	Electronics & Instrumentation Engineering	2021	5500	6 months	KSCST	Government
Kannada Book "Medulina Tarangagalu"	Dr. Mallikarjun H M	Electronics & Instrumentation Engineering	2021	5000	3 months	VTU Prasaraanga	Government
Experimental Analysis of Bamboo Reinforced and Steel Reinforced Beams	Mahadeva M	Civil Engineering	2021	5000	1 year	VTU	Government
Retrofitting of RC beams using GFRP	Apoorva S	Civil Engineering	2021	5000	1 year	VTU	Government
Natural potability competence of ground water under	Abhilash NR	Civil Engineering	2021	3000	6 months	KSCST	Government

the influence of different soil types							
Electric tricycle for differently abled people	Sridhar	Mechanical Engineering	2021	5000	1 year	VTU	Government
Development of hybrid electric two wheeler vehicle	Rangaswamy	Mechanical Engineering	2021	5000	1 year	VTU	Government
Self driving vehicles for visually and physically challenged	Sathish	Information Science Engineering	2021	5000	1 year	VTU	Government
Eye movement based PIN authentication system	Ranmya	Information Science Engineering	2021	5000	1 year	VTU	Government
Wearable band for COVID-19 patients monitoring	Mr. Ravi Kumar S G	Information Science Engineering	2021	5000	6 months	KSCST	Government
Dobby: AI powered Personal Assistant Robot	Mr. K S Sunil Kumar	Computer Science & Engineering	2021	5000	1 year	VTU	Government
Insight An application to help blind people	Mr. Devaraju B M	Computer Science & Engineering	2021	5000	1 year	VTU	Government
A Smart Medical Box For Blind And Old Age People Using MI & IoT	Dr. Sudhamani M J	Computer Science & Engineering	2021	5000	6 months	KSCST	Government

Fiber bragg grating sensor based device for the measurement of angular grip strength	Dr. Rajini V Honnungar	Electronics & Communication Engineering	2019	200000	2 years	VTU (CRF)	Government
A Novel Effective Cluster Algorithm against Fault Data Injection Attack in Smart Grid using IOT	Mrs. Sharmila N	Electrical and Electronics Engineering	2019	150000	Completed	VTU/ TEQIP	Non-Government
IoT COE	Dr. Andhe Pallavi	Electronics & Instrumentation Engineering	2019	21300	1 month	Fiabalite	Non-Government
TEQIP 1.3 Sponsored Faculty Development Programme on IoT Industrial Applications-Frontend and Backend Co-design	Dr. Vipula Singh, Dr. Andhe Pallavi	Electronics & Communication Engineering, EIE	2020	100000	2 days	VTU	Government
Implementation of Wearable Device for Child and Women Safety	Mrs. Apoorva N. Hegde	Electronics & Communication Engineering	2019	5000	1 year	VTU	Government
Image processing based autonomous fetch bot for	Mr. Ganesh Y	Electronics & Communication Engineering	2019	5000	1 year	VTU	Government

garbage collection.							
Integration of solar and wind energy for dual power generation	Sharada Prasad	Electrical and Electronics Engineering	2019	5000	1 year	VTU	Government
Design of hybrid electric three wheeler vehicle for analysis of fuel efficiency	Rakesh M N	Electrical and Electronics Engineering	2019	5000	1 year	VTU	Government
Brain Attention Controlled Wheel Chair	Dr. Mallikarjun H M	Electronics & Instrumentation Engineering	2019	5000	3 months	VTU	Government
Astro Tracking and Digital Image Processing	Manohar P	Electronics & Instrumentation Engineering	2019	5000	3 months	VTU	Government
Ultrasonic Smart Stick with Live Location Tracking and SOS features for visually impaired	Dr. Andhe Pallavi	Electronics & Instrumentation Engineering	2019	70170	5 months	YESIST12 at Stamford International University, Thailand	Non-Government
Stabilization of black cotton soil using bitumen emulsion and glasspowder as filler material	Apoorva S	Civil Engineering	2019	5000	1 year	VTU	Government
Retrofitting of RC beams using textile	Mahadeva M	Civil Engineering	2019	5000	1 year	VTU	Government

reinforced mortar							
Design and development of stationary vending machine	Chetana	Mechanical Engineering	2019	5000	1 year	VTU	Government
Investigation of Air flow abd enhancement of cooling effect for different orientation of data centres using CFD	Mr Mahesh Kumar N	Mechanical Engineering	2019	5000	1 year	VTU	Government
Design and development of an E-voting system using blockchain technique	Rajkumar	Information Science Engineering	2019	5000	1 year	VTU	Government
Hand gesture recognition in real timevideos	Sudha V	Information Science Engineering	2019	5000	1 year	VTU	Government
Interface to connect NGOs and volunteers	Girijamma	Computer Science Engineering	2019	5000	1 year	VTU	Government
IoT based over speeding and Fog accidents prevention system		Computer Science Engineering	2019	5000	1 year	VTU	Government
Leveraging Policy Measures to Strengthen the Role of Rural Women	Dr Tamizharasi, Dr U Bhojanna, Mr Manjunath N	MBA	2019	600000	24 Months	ICSSR - IMPRESS	Government

in Farm Management and Land Operation Practices of Women Farmers in South India.							
CUBE-17	Dr. Vipula Singh, Dr. Andhe Pallavi, Dr. Sumathi	Electronics & Communication Engineering, EIE, EEE	2017	25000	2 days	VTU	Government
MIMIC: Multi Sensor Data Fusion Inertial Measurement Integrated Capturing.	Dr. Archana R Kulkarni	Electronics & Communication Engineering	2018	5000	1 year	VTU	Government
GUI Enabled Master Slave Robot.	Mrs. Vinaya Kusuma	Electronics & Communication Engineering	2018	5000	1 year	VTU	Government
TESLA TURBINE	Mr. M N Rakesh	Electrical and Electronics Engineering	2018	5000	1 year	VTU	Government
Control surface position indicating system	Mrs. Supriya P	Electrical and Electronics Engineering	2018	5000	1 year	VTU	Government
Personalised gesture interface using machine learning	Smitha N	Electronics & Instrumentation Engineering	2018	5000	1 year	VTU	Government
Card based anti privacy screening system	Archana R K	Electronics & Instrumentation Engineering	2018	5000	1 year	VTU	Government

Eco sustainable pervious concrete using titanium dioxide	Abhilash NR	Civil Engineering	2018	5000	1 year	VTU	Government
Performance evaluation of BWSSB sewage treatment plants in Bangalore	Rumpa	Civil Engineering	2018	5000	1 year	VTU	Government
Rapid liquid chiller	Srinivas	Mechanical Engineering	2018	5000	1 year	VTU	Government
Numerical study on the heat transfer enhancement of circular tube bank Fin heat exchanger with vortex generators	Rangaswamy	Mechanical Engineering	2018	5000	1 year	VTU	Government
Evaluation & Optimization of Machinability and Surface Characteristics of Al-Si-Cu alloys for Naval Applications	DR K G Basava Kumar	Mechanical Engineering	2018	2160000	3 Years	NRB / DRDO	Government
Design and development of sensor based smart gardening system	Dr Sudhamani M V	Information Science Engineering	2018	5000	1 year	VTU	Government

Detecting the relationship among objects in an image	Dr. Prakasha S	Information Science Engineering	2018	5000	1 year	VTU	Government
Location aware audio tour using nRF	Sathish Kumar	Computer Science Engineering	2018	5000	1 year	VTU	Government
Athena-DAO for deriving intelligence using machine level parallelism	Kavya	Computer Science Engineering	2018	5000	1 year	VTU	Government
Leveraging policy Measures for Securing Lives of Abused and Neglected Senior Citizen Diagnostic Study Exploring Perspectives of Women Citizens in Rural Bengaluru.	Dr U Bhojanna, Mr Manjunath N, Dr Deepak Kumar D	MBA	2017	175000	12 months	ICSSR	Government
Effect of Women Empowerment in Corporate sector of India.	Dr Tamizharasi, Dr U Bhojanna	MBA	2017	150000	12 Months	ICSSR	Government

3.1.1

HEI Input

year	2021-22	2020-21	2019-20	2018-19	2017-18	Total
Amount (lakhs)	28.98788	1.040	3.7130	8.40170	25.80	67.94258