

Dept of CSE, RVCE

**Research and Development**

Table 1 provides the details of the released amount generated in research projects during the assessment period.

Year	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020	2018-2019
Amount (in Lakhs)	65.34	74.18	100.62	15.92	33.89	34.21

**Table 2: Sponsored Projects Details**

Sl. No.	Sanctioned Year	Department	Name of the faculty	Project Title	Project Type Research/Consultancy	Funding Agency	Amount in Lakhs	Sanctioned Date	Duration
1	2023	CSE	Dr. Shobha G Dr. Jyoti Shetty	Enhancing Legal Assistance through Data Enrichment using HPCC Systems	Research	HPCC Systems LexisNexis Risk Solutions Inc	30.38	6-12-2023	Ongoing
2		CSE	Dr. Shobha G Dr. Jyoti Shetty	Implementing Conditional Cleanup after Regression Test					
3		CSE	Dr. Shobha G Dr. Vishalakshi Prabhu H	Building NLP pipeline for Electronic Health Records					
4		CSE	Dr. Deepamala N Dr. Shobha G Dr. Jyothi Shetty	AI Based virtual Assistant to support primary education for rural students in regional language	Research	IITI DRISHTI CP S Foundation	10.00	01-06-2023	Ongoing
5		CSE	Dr. Shanta Rangaswamy Manonmani S	RESPOND- Design, Development & implementation of Real/Near real time low SNR Target detection	Research	ISRO	24.96	31-08-2023	2023-2026

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				and tracking system					
6		CSE	Dr.Nagaraja G.S	Intel FPGA University Program	Research	Intel	47.51	03-06-2023	Completed
7		CSE	Dr. Shanta Rangaswamy, Dr. Ramakanth Kumar P, Prof.Manonmani S, Prof.Pavithra H	Development of Deep Learning based algorithms for SAR image semantic segmentation	Research	DRDO	9.77	09-03-2023	Ongoing
8		CSE	Dr Ramakanth Kumar P, Dr Rajashree Shettar, Manas M N	Hackathon, RV-AI	Research	Boeing	1.00	31-03-2023	Completed
9		CSE	Dr. Soumya A Dr.Anala M.R	Design and Develop optimized GPU implementation using OpenCL for non-AI programs in On Device AI use cases	Research	SAMSUNG	2.00	02-01-23	Completed
10		CSE	Dr Ramakanth Kumar, Manonmani, H Pavithra	Development of ML Model for Detection of Malicious URL,App, Files	Research	SAMSUNG	2.00	02-01-23	Completed
11	2022	CSE	Dr. Shobha Prof. Girish Rao Salanke N S Prof. Manas M N	Smart Water Meter and Volumetric Pricing	Research	NASSCOM	3.97	27-10-2022	Ongoing

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12		CSE	Dr Sathish Babu Dr.Sandhya S	Quantum Key Distribution Scheme for Securing Smart Grid Communications	Research	Karnataka state council for Science and Technology	7.93	27-09-2022	Ongoing
13		CSE	Dr. Ramakanth Kumar P	Undercarriage Camera Based Vehicle Inspection System	Research	RSST	2.00	16-05-2022	Ongoing
14		CSE	Dr. Shanta Rangaswamy	Exploratory research on impact of Artificial Intelligence on procurement in the supply chain	Research	VTU	6.00	18-02-2022	Ongoing
15		CSE	Dr. Ramakanth Kumar P Prof. Pavithra H	Full Stack Development   Intelligent CI/CD pipeline	Research	Samsung	2.66	01-02-2022	Completed
16		CSE	Prof. Manonmani S	Filament (Google Renderer) – Performance Enhancement with Shared GL Context Implementation					
17		CSE	Dr. Sandhya S Prof. Veena Gadad	Filament (Google Renderer) – Performance Comparison between Vulkan & Shared GL Context					

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18	2021	CSE	Dr. Shantha Rangaswamy	AI based partition prediction for Essential Video Codec					
19		CSE	Dr. Azra Nasreen	Perception Model for autonomus vehicles	Research	WIRIN	40.00	-	Completed
20		CSE	Dr. Shobha G Prof. Jyothi Shetty	Auto detect field level dependency in an ECL data workflow Analyzing Blockchain data to detect illicit transactions made using Bitcoin	Research	HPCC Systems LexisNexis Risk Solutions Inc	18.45	10-01-2022	Ongoing
21		CSE	Dr. Sowmyarani C N	Data Anonymization Techniques for Mitigation of Privacy Attacks in Data Publishing	Research	Karnataka Fund for Infrastructure Strengthening in Science and Technology (KFIST)	15.00	11-11-2021	Ongoing
22		CSE	Dr. Deepamala N Dr. Shobha G	AI Assisted Chatbot with Automated Form Filling to Recommend Government Schemes for Illiterate and Aged People	Research	IBM	9.91	22-10-2021	Completed
23		CSE	Dr. Ramakanth Kumar P	Automatic Traffic Violation Detection system using CCTV	Research	ART PARK	6.60	24-08-2021	Completed

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				Cameras and Artificial Intelligence					
24		CSE	Dr. Minal Moharir Dr. Deepamala N Dr. Ramakanth Kumar P	Assessment of Privacy Protection in the encrypted DNS Protocols (DoH/DoT) and extension of the analysis of high-speed networks	Research	Contract for Acquisition of Research Services (CARS)	9.79	25-01-2021	Completed
25		CSE	Dr. Shobha G Dr. Minal Moharir	Linux server Fault tolerance using NetScaler HA with live monitoring	Research	Citrix R&D India Pvt. Ltd.	2.50	20-01-2021	Completed
26		CSE	Dr. Nagaraja G S	Solar Cart	Research	NIAS, IISC	1.05	07-08-2020	Completed
27		CSE	Dr. Ramakanth Kumar P	Migrating full fledged based desktop scenario editor to web platform					
28	2020	CSE	Lalitha.V.P Manonmani.S	Building V2X framework inside simulator environment					
29		CSE	Dr Soumya A Dr. Azra Nasreen	SDV in a Box - Simulator Optimizer	Research	WIRIN	5.00	-	Completed
30		CSE	Dr. T Mamatha	Development of Autoamtic Annotation using Mask RCNN					

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31		CSE	Dr. Shobha G Dr. Poonam Ghuli	Design and Development of Machine Learning based Information Retrieval Chatbot	Research	System Consultant Information India Pvt Ltd (SCII)	3.00	30-06-2020	Completed
32		CSE	Dr. Rajashree Shettar	Real Time Traffic Signal Control Based on Adaptive Neuro-Fuzzy Logic for Surveillance Videos	Research	VGST	6.50	20-05-2020	Completed
33	2019	CSE	Dr. Shobha G Prof. Jyothi Shetty	Adaptive Density Based Clustering	Research	HPCC Systems LexisNexis Risk Solutions Inc	21.39	19-12-2019	Completed
34				Testing GANs using the Generalized Neural Network ECL bundle and producing annotated code to add to the existing GNN bundle					
35				HPCC Analytics Query Language (HAQL)					
36		CSE	Dr. Shobha G Dr. Deepamala N	VR Supermarket: Modelling Supermarket on a Virtual Reality Platform	Research	SCII	3.00	25-08-2019	Completed
37		CSE	Dr. Anala M R	ChatBot Interface for SD WAN Config Management	Research	Citrix R&D India Pvt. Ltd.	2.50	6-02-2019	Completed
38		CSE	Dr.MinalMohari r	Generic NetScaler Configuration	Research	Citrix R&D India Pvt. Ltd.	2.50	6-2-2019	Completed

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			Dr.Shobha G	Visualizer					
39	2018	CSE	Dr. Anala M R Dr. Hemavathy R Dr. Shobha G	Artificial Intelligence based Object Movement Tracking	Research	Bharat Electronics Limited	3.45	21-2-2019	Completed
40		CSE	Dr. Shobha G Prof. Jyothi Shetty	Image Processing library in HPCC	Research	HPCC Systems LexisNexis Risk Solutions Inc	14.11	18/12/2018	2018-2019
41		CSE		Extending CURRENT ML library in HPCC					
42		CSE	Dr. Anala M R	Smart app meter for Energy & Water management Aided with Water and Air quality monitoring	Research	IBM Shared University Research	7.16	11/12/2018	2018-2019
43		CSE	Dr. Shobha G	Water Leakage Detection system	Research	IBM Shared University Research	7.94	11/12/2018	2018-2019
44		CSE	Prof. Azra Nasreen, Dr. Shobha G.	Share 2.0	Research	CISCO Systems PVT. India Ltd	1.51	1/3/2018	2018-2019





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