

External & internal funded projects (with faculty name, title, agency and amount)

2006 - 2007

External

S. No.	Principal Investigator	Title of the project	Sponsoring Agency & Year	Internal/ External	Sponsored Amount (Lakhs)
1	Dr. C. Aravindan	Voice Enabled Documentation for Hand Held Devices	AICTE (2006-10)	External	2.3

Internal - Faculty - Nil

Internal - Faculty & Students –Nil

2010-2011

External

S. No.	Principal Investigator	Title of the project	Sponsoring Agency & Year	Internal/ External	Sponsored Amount (Lakhs)
1	Dr. ChitraBabu	Service Based Data Analysis through Cloud Computing	CSI (2010-11)	External	0.20
2	Dr. LathaParthiban	Predicting Subcellular Localization of Yeast Genome using Coactive Neuro-Fuzzy Inference System	CSI (2010-11)	External	0.15

Internal - Faculty

S. No.	Principal Investigator	Title of the project	Sponsoring Agency & Year	Internal/ External	Sponsored Amount (Lakhs)
1	Dr. ChitraBabu	Novel SOA Transaction Frameworks for e-Governance Applications	SSN Institutions (2010 – 13)	Internal	9.75

Internal - Faculty & Students –Nil

2011-2012

External – Nil

Internal – Faculty-Nil

Internal - Faculty & Students

S. No.	Name of the Faculty & Students	Title of the project	Sponsoring Agency	Internal/ External	Sponsored Amount (Lakhs)
1	Mr. J. Suresh [Padmapriya R]	Integrated Framework for tracking Equipments and Resources in College campus using RFID and Cloud Computing	SSN Institutions (2011-2012)	Internal	0.35

2012-2013

External – Nil

Internal – Faculty - Nil

Internal - Faculty & Students

S. No.	Name of the Project Guide & Students	Title of the project	Sponsoring Agency & Year	Internal/ External	Sponsored Amount (Lakhs)
1	Dr. T.T. Mirnalinee [Rangarajan T R Sasi Kumar M Shanthosh Shankar S]	Hand gesture based intelligent wheelchair for physically challenged	SSN Institutions (2012-2013)	Internal	0.25

2013-2014**External - Faculty & Students**

S. No.	Name of the Project Guide & Students	Title of the project	Sponsoring Agency & Year	Internal/ External	Sponsored Amount (Lakhs)
1	Dr. T.T. Mirmalinee [Ragunath G, Pradeep R and BinoPatricPrakash]	An Innovative Approach for Building an Intelligent Network to Maintain Water Quality	Chellammal Agro (State Agency) (2013-2014)	External	0.25

Internal - Faculty - Nil**Internal - Faculty & Students**

S. No.	Name of the Project Guide & Students	Title of the project	Sponsoring Agency & Year	Internal/ External	Sponsored Amount (Lakhs)
1	Dr. ChitraBabu [AbhishekKataria, N.Aravind Ram, G.Harishankar]	Improving Map Reduce Performance in Hadoop	SSN Institutions (2013-2014)	Internal	0.25
2	Ms. S. Angel Deborah [R. D.Thiageshwaran, S.Vignesh]	Virtual World Simulator	SSN Institutions (2013-2014)	Internal	0.20

2014-2015**External – Nil****Internal - Faculty**

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency & Year	Internal/ External	Sponsored Amount (Lakhs)
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1	Dr. A. Chamundeswari	Multi objective optimization techniques to improve the automation of test data generation in SBST	SSN Institutions (Nov 2014 – Oct 2016)	Internal	1.80
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Internal - Faculty & Students

S.No.	Name of the Project Guide & Students	Title of the project	Sponsoring Agency & Year	Sponsored Amount (Lakh)
1	Ms. S. Angel Deborah [S. Vidhyalakshmi Naren T Kesh Satish P Naveen H]	Software Controlled Appliances for Energy Conservation and Differently Abled People	SSN Institutions (2014-2015)	0.25
2	Dr. ChitraBabu Mr. H. ShahulHamead Mr. K.R. SarathChandran Ms. S. Angel Deborah [Priyanka Suresh Siddharth. G SrikumarSridha SrinivasBharathwaj Sudarshan. R]	Performance Enhancement of CPU Intensive Applications Running on Raspberry Pi	SSN Institutions (2014-2015)	0.15
3	Dr. T.T. Mirnalinee Ms. P. Mirunalini [Arvind M BezzamVarun DeveshRastogi Gayaprashad S Mageshwaran V]	Real Time Image Processing Applications on Low Cost Embedded System	SSN Institutions (2014-2015)	0.10
4	Dr. D. VenkataVara Prasad [B.S. Megavarnam R. Seshan P. Venkatesh]	Automated Self Balancing Bicycle with Obstacle Avoidance	SSN Institutions (2014-2015)	0.25
5	Ms. S. Kavitha	Brain Visual State Classification System using	SSN Institutions	0.13

	[S. Pravish P. Vignesh S.S. Purushothaman]	fMRI data analysis	(2014-2015)	
6	Ms. B. Bharathi [C. Srividhya VedaviBalaji]	Speech based Integrated Development Environment (IDE) for compiling C, C++ and Java Program	SSN Institutions (2014-2015)	0.10
7	Ms. S. Angel Deborah [C.V.VishalRamaswamy]	An Intelligent Robotic Hand – Arm System	SSN Institutions (2014-2015)	0.25
8	Mr. K.R. SarathChandran [D. Thiageshwaran S. Vignesh SakthivelMurugan]	An Integrated Augmented Reality System with Human Motion Tracking and Analysis	SSN Institutions (2014-2015)	0.25

2015-2016

External - Faculty

S.No.	Principal Investigator/ Co-Investigator	Project Title	Sponsored Agency	Duration & Year	Sanctioned Amount (Lakhs)
1	Dr. T. Nagarajan, Dr. B. Bharathi, Dr. P.Vijayalakshmi, S. Sasirekha	Speech enabled interactive enquiry system in Tamil	Tamil Virtual Academy	9 months (February 2016 -Dec 2016)	9.52
2	Dr. ShomonaGracia Jacob	Investigation on the effect of Gene and Protein Mutants in the Onset of Neuro-Degenerative Brain Disorders(Alzheimer's Disease and Parkinson's Disease): A Computational study	Science and Engineering research Board – Young Scientist Scheme- DST	3 years (Jan 2016 - Dec 2019)	16.10

3	Dr. VenkataVara Prasad, Dr. J. Suresh	1. Improving the Design and Performance of Smith Waterman Sequence Algorithm on the CUDA-GPU. 2. Performance Analysis of Ant Colony and k-Means Algorithm using OpenMP and CUDA implementation 3. Study and Analysis of Hadoop in GPU for Big Data Analytics	nVIDIA – 3 GPU	Open ended (July 2015)	4.90
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Internal - Faculty

S.No.	Principal Investigator/ Co-Investigator	Title	Duration & Year	Sanctioned Amount (Lakhs)
1	Dr. R. Kanchana Dr. T.T.Mirnalinee Dr.V.S.FelixEnigo	IoT based smart sewage system	SSN Institutions – 2 years (Sep 2015 – Aug 2017)	6.00

Internal - Faculty & Students

S. No.	Name of the Project Guide & Students	Title of the project	Sponsoring Agency & Year	Amount (in Lakh)
1	Dr. R. Kanchana Dr. T.T.Mirnalinee Dr.V.S.FelixEnigo [S. Siddhaarth SamiyaNasim Naveen. H. SaiVeeryaMahadevan Harikrishna.K.]	Prototype for IoT based Smart Sewage System	SSN Institutions (2015-2016)	0.25

2	Dr. B. Bharathi Ms. K. Vallidevi Ms. S. Angel Deborah [Hans. K. KeerthikaRajvel Gokul.K. Dinesh.M.C.]	Acoustic Dialect Decoder (ADD) – An Automated Audio Language Translation Device	SSN Institutions (2015-2016)	0.18
3	Dr. B. Bharathi [Shashaank.D.S Priyanka.S. Sriram.V.]	Speech Recognition based Chess System for the Visually Challenged	SSN Institutions (2015-2016)	0.16
4	Ms. S. Angel Deborah [Anirudh.T.S. AshwinKumar.S. Chaarani.S.]	Digital Agriculture using Decision Tree Algorithm	SSN Institutions (2015-2016)	0.15
5	Ms. S. Angel Deborah [Arvind.M. Gayaprasad.S. Mageshwaran.V.]	Digital Polling Booth with Enhanced Security	SSN Institutions (2015-2016)	0.14
6	Dr. ShomonaGracia Jacob Ms. S. Manisha [Sudha.M.R. SudarAbisheck Sriraghav.K.]	Gesture Recognition to Interpret American Sign Language and Enable Learning of ASL in a Virtual Reality Environment	SSN Institutions (2015-2016)	0.16
7	Dr. ShomonaGracia Jacob [Vijay.V. Sivashanmugam.U Saketh.A.B. RitheshRohan.R.]	Obstacle Detecting Shoe for the Visually Impaired	SSN Institutions (2015-2016)	0.10

8	Ms. S. Angel Deborah Mr.K.R. SarathChandran [Asritha.M. Krithika.B. Indu.M.]	Power Consumption Monitoring and Temperature Regulating System for Power Saving	SSN Institutions (2015-2016)	0.27
9	Ms.S. Rajalakshmi [Dineshraj. G. DivyaBrindha.R. BrindhaPriyadarshini.R.]	Wheat Grading System using Image Processing and Neural Networks	SSN Institutions (2015-2016)	0.20
10	Mr.K.R. SarathChandran Ms. S. Angel Deborah Ms. K. Vallidevi [Satchit N Subramanian RajanAlwan]	Virtual Reality Car Simulator with Gesture and Touch Input	SSN Institutions (2015-2016)	0.12
11	Mr.K.R. SarathChandran [C.V. Vishal Ramaswamy Varghese Paul. C.P.]	An Embedded System for Recognition of English Sign Language to aid Deaf-Mute Problem	SSN Institutions (2015-2016)	0.22
12	Dr. R. Kanchana Dr. T.T.Mirnalinee Dr.V.S.FelixEnigo [KiranSudhir SwaathikaKarthikeyan RishabVenkataraman VarshaMuralidharan Jerry George Thomas]	Design Implementation of Data Loggers and Analysis	SSN Institutions (2015-2016)	0.18
13	Ms. S. Kavitha Dr. B. Bharathi [NarendraPradeep Sasi Kumar]	Bi-Modal Biometric System for Person Authentication using Soft computing Techniques	SSN Institutions (2015-2016)	0.25
14	Ms. S. Kavitha [K. MohanaPriya]	Brain Tumor Type and Grade Discrimination of MRI using Genetic Algorithm and Fuzzy-Rule based Approach	SSN Institutions (2015-2016)	0.21

15	Dr. B. Bharathi [Sivaranjini C]	Continuous Speech Recognition for Tamil Language	SSN Institutions (2015-2016)	0.15
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2016-2017

External - Faculty

S.No.	Principal Investigator	Project Title	Sponsored Agency	Duration & Year	Sanctioned Amount (Lakhs)
1	Ms. K. Lekshmi	Classification and segmentation of nuclei in hepatocellular carcinoma and dysplastic tumors of Histopathology Images	Global Health City	22.06.2016 (June 2016 – June 2018)	-

Internal – Faculty

S.No.	Principal Investigator/ Co-Investigator	Title	Duration & Year	Sanctioned Amount (Lakhs)
1	Mr. H. ShahulHamead Dr. T. T. Mirnalinee Dr. S. Sheerazuddin Mr. K. R. Sarath Chandran	Prototyping green network model	SSN Institutions - 3 Years (2016-2019)	5.10
2	Mr. K. R. Sarath Chandran (CSE) Dr. Premanand V. Chandramani (ECE)	Energy aware multimedia processing in handheld devices through real time hardware reconfiguration	SSN Institutions -3 Years (2016-2019)	4.38

Internal – Faculty & Students

S. No.	Name of the Project Guide & Students	Title of the project	Sponsoring Agency & Year	Amount Sanctioned (in Rupees)
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1	Dr. ChitraBabu, Mr. H. ShahulHamead [Ramyapriyadarshini, Satheesh P, SimranModi]	Kernel Optimization on Raspberry Pi 3	SSN Institutions (2016-2017)	10000
2	Dr. B. Bharathi Dr. P. Mirunalini [Skanda Suresh, NirupanAnanthamurugan, ShreyasGopal]	Multi-Level Smart Parking System	SSN Institutions (2016-2017)	15000
3	Dr. D. Thenmozhi [S. Gajesh, Daniel JeswinNallathambi, Arul Thileeban]	The Robotic Arm Manipulation (TRAM)	SSN Institutions (2016-2017)	18000
4	Ms. B. Prabavathy, Dr. D. Thenmozhi, [C.T.MuthuAnnamalai, C. Manish Chandra, N. Nachiappan]	A Multilevel Secure Banking Application for Visually Impaired (MLSBVI)	SSN Institutions (2016-2017)	18000
5	Ms. S. Angel Deborah Mr. K.R. SarathChandran Dr. P. Mirunalini [R. Vivek Narayanan, S. Venkatesh, S. Aakash]	High Speed Package Delivery BOT using Arduino, GSM Communication and GPS Interfacing	SSN Institutions (2016-2017)	15000
6	Ms. S. Angel Deborah, Mr. K.R. SarathChandran [V.ShanmugaVelayutham, S. Shailesh, B.Skandharuban]	Travel Guide Application using Augmented Reality	SSN Institutions (2016-2017)	6000

7	Ms. S. Angel Deborah, Ms. S. Rajalakshmi [S.N. Sivagami, B. Sounderyan, R. Sricharan, V. Sreenidhi, K.R.Uttam Raj]	AIR Quality Detection and Intelligent Route Suggestion using IoT and Data Analytics	SSN Institutions (2016-2017)	24000
8	Mr. K.R. SarathChandran [S. Kaushik Narayanan, K. Saket Ram]	Drowsy Driver Detection with Alert System	SSN Institutions (2016-2017)	12000
9	Dr. R.S. Milton, Ms. S. Angel Deborah, Ms. S. Rajalakshmi, Ms. M. Saritha [G.B. Krishnapriya, M. Vrithika, S. Thirumla Devi]	RFID Based Traffic Violation detection and Traffic Flow Prediction System (TVDTPS)	SSN Institutions (2016-2017)	18000
10	Dr. D. Thenmozhi, Ms. B. Prabavathy [Nithish B, SidharthDivi, Tarun R K]	Smart Metro Water Transportation	SSN Institutions (2016-2017)	10000
11	Ms. S. Angel Deborah Mr. K.R. SarathChandran [A. Gautham, J. Adithya, R. Ramya, Rhea Marian]	Automated Appliances for Energy Conservation by Reducing Vampire Energy	SSN Institutions (2016-2017)	22000
12	Ms. A. Beulah, Ms. S. Rajalakshmi, Ms. S. Angel Deborah [Rithwin Siva, Nishanth Mathew, R. NidhiBhandari, VarshaBhargavi, Dwarakanathan]	Braille Interpretation Pad	SSN Institutions (2016-2017)	22000

13	Dr. V.S. Felix Enigo [S. Mohan Sha, S. Nikhil, K. R. Nitin, S. Aravind]	Smart Mirror : To Maximize Productivity and Time Management	SSN Institutions (2016-2017)	22000
14	Ms. S.V. Jansirani Ms. R. Priyadarshini [S. Gowtham, U. Jagan Kumar, U. Karthik]	Wild Animal Intrusion Detection from Forest into Residential Area using Sensor Platform	SSN Institutions (2016-2017)	25000

2017-2018

External - Nil

Internal – Faculty

S.No.	Principal Investigator/ Co-Investigator	Title	Duration	Sanctioned Amount (Lakhs)
1	Dr. B. Bharathi (CSE) Dr. S. Kavitha (CSE)	Speech enabled interactive voice response system	3 years (2017-2020)	2.10
2	Dr. P. Mirunalini (CSE) Dr. C. Aravindan (CSE)	Automatic detection of stenosis in computed tomography angiography (CTA) images of heart using deep learning techniques	2 years (2017-2019)	2.85
3	Ms. K. Lekshmi (CSE) Ms. K. Madheswari (CSE)	Automated hepatic disease diagnostic system for carcinoma in histopathology images	3 years (2017-2020)	0.30

Internal – Faculty & Students

No	Name and Year of the Students	Project Guide(s)	Title of the project	Duration	Sanctioned amount in Rs
1	K. AnirudhShenoy (II Year)	Dr. R. Kanchana	IOT based street lighting	3 months	14000

	T. S. Abishek (II Year) Akash Kumar Pujari (II Year)		system		
2	Priscilla Andrew (III Year) J.R. Priyadarshini (III Year) Varun Suresh (III Year) R. Vidya (III Year)	Ms. S. Rajalakshmi Ms. S. Angel Deborah Mr. K.R. SarathChandran	Automated waste segregator	6 months	16000
3	S. Arul Thileeban (III Year) Daniel JeswinNallathambi (III Year)	Dr. R. S. Milton	WiFi sniffer with malicious intent detection	1 year	20000
4	Sakthi Uma Maheswari (III Year) SoundaryaVenkatesh (III Year) SowmiyaSubramaniyan (III Year) SwathiNagarajan (III Year)	Dr. V.S. Felix Enigo Ms. K. Madheswari	Smart traffic signal	1 year	15000
5	S. Dharani (II Year) S. Harshini (II Year) KalaivaniKumaran (II Year) B. Logesh (II Year)	Mr. K.R. SarathChandran Ms. S. Angel Deborah	Home automation with IOT using speech recognition	1 year	7000
6	S. Poorvaja (III Year) V. PoojaPriya (III Year) VanshikaSridharan (III Year)	Mr. K.R. SarathChandran Ms. S. Angel Deborah	Intelligent traffic control system using RFID and GSM	8 month	16000
7	A. Kavithasri (II Year) S. Aishvarya (II Year)	Ms. M. Saritha Ms. S. Rajalakshmi Ms. S. Angel Deborah	Vehicle accident detection and reporting system	6 months	20000
8	S. Gajesh (III Year) H. Gokul (EEE III Year) V. Gomathy (EEE III Year)	Dr. D. Thenmozhi	Object recognition bot (ORB)	1 year	25000
9	L. Yamini (II Year) Keerthana Ravi (ECE-II Year)	Dr. K. Valli Devi	Infrared vein viewer	6 months	17000
10	R.G. SudhaParimala (III Year) V.S. Sangeetha (III Year) R. Kavya (III Year)	Ms. S. V. Jansi Rani Ms. R. Priyadharsini	Advanced manoeuvre detection and alert systems (AMDAAS)	9 months	16000
11	S. Sharmadha (III Year) K. Shivani (III Year) K. Shruthi (III Year)	Ms. K. Madheshwari	Digital age - Smarter cradle system for enhanced parenting	1 year	15000

12	V. Priyanka (II Year) K. Shivaani (II Year) K. Soumya (II Year) T. Sowmya (II Year)	Dr. K. Valli Devi	IOT based water purity checker powered by solar energy	8 months	11000
13	HimanshuSinghal (III Year) Manav Rajiv Moorthy (III Year) M. Charan (III Year) Abhishek Pal (IT - III Year)	Dr. R. S. Milton	Smart attendance monitor	1 year	24000
14	J. VigneshwaraPrakash (III Year) D. Harieharaan (III Year) B. Harrison Solomon (III Year) Ashwin Krishnan (III Year)	Dr. B. Bharathi	Background noise filtering in real time call application	10 months	15000
15	A. Dhanalakshmi (II Year) V. Desika (II Year) DeevitiNavyaSree (II Year) K. Amirthalakshmi (II Year)	Ms. K. Madheshwari Dr. S. Saraswathi	Smart fire detection system using electronic nose	1 year	10000
16	Arul Noble Jose Rohan (IV Year Mech) ShrutiSeshadri Nathan (IV Year ECE) S. Anand (II Year CSE) J. Jennifer (II Year CSE)	Ms. S. V. Jansi Rani	Human-wildlife conflict reduction technology	4 months	14000
17	B. Laxmaan (III Year) N. Apoorva (III Year)	Dr. S. Kavitha	Musical audio modulated solid state tesla coil	1 year	15000
18	AkshayaRanganathan (II Year) G. Deepsheka (II Year) B. Janani (II Year)	Mr. K.R. SarathChandran Ms. S.V. Jansi Rani	Wearable heart attack predictor and chronic heart care monitor	10 months	20000
19	B. Keerthana (III year) S. KeerthanaPriya (III year) R.N. Kirtana (III year) K. Kripa (III year)	Dr. S. Kavitha Dr. B. Bharathi	Smart irrigation system	9 months	25000