

R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY

R.S.M NAGAR, PUDUVOYAL - 601 206.

Department of ECE

Summary of Research Activity

S.No	Research Activity	No. of Projects/ Events	Amount Received in Rs.
1	Funded Projects Received	1	12,98,000
2	Funded Events Organized	16	6,35,667
3	Consultancy Project	8	6,60,601
4	Patents Filed and Published	12	-

Funded Projects Received

<u>S.No</u>	Project Title	Dept	Agency	Date of Approval and Reference Number	Period	from to in Year	Amount (in lakhs)	Principal Investigator	Co- Investigator	Status	Received Year
1	Design and Implementation of Dual Blind Detection Robust Watermarking for Multimedia security in FPGA	ECE	ISRO	13.11.2014 ISRO/REC/3/668/14- 15	2.5 Years	2015- 2018 27.2.16 to 30.7.18	1298000	Dr. C.Arun	Mr. S Muthumanickam	Completed	2015-16

Funded Events Organized

S.NO.	NAME OF THE PROGRAMME	FUNDING AGENCY	AMOUNT	DEPT	CO-ORDINATOR	CO-COORDINATORS	DATE OF PROGRAM	ACADEMIC YEAR
1	ONE DAY NATIONAL CONFERENCE NCRASPC - 2014	IET	25,000	ECE	DR. ARUN C	MR. MUTHUMANICKAM S	10.02.2014	2013-14
2	TWO DAYS SEMINAR ON MIMO WIRELESS COMMUNICATIONS & FUTURE NETWORKS	AICTE	140,000	ECE	DR. ARUN C	MR. MUTHUMANICKAM S	02.12.2013 & 03.12.2013	2013-14
3	INTERNATIONAL CONFERENCE ON RECENT TRENDS IN ELECTRICAL, ELECTRONICS, COMPUTER AND COMMUNICATION	IET	10,000	ECE	DR. ARUN C	MR. RAMACHANDRAN R	15.12.2014 & 16.12.2014	2014-15
4	NATIONAL LEVEL WORKSHOP ON HOW TO IMPLEMENT SOLAR ENERGY	IET	10,000	ECE	DR. ARUN C	MS. KAVITHA R	03.01.2015	2014-15
5	INTERNATIONAL CONFERENCE ON RECENT TRENDS IN ELECTRICAL, ELECTRONICS, COMPUTER AND COMMUNICATION	ISTE	10,000	ECE	DR. ARUN C	MR. KANNAN K	15.12.2014 & 16.12.2014	2014-15

6	ONE DAY WORKSHOP ON AWARENESS ON TERAHERTZ TECHNOLOGY	IET	10,000	ECE	DR. SHANTHI K G	MS. VIJAYAKUMARI D & MR. SHAIK HEDAYATH BASHA	19.09.2015	2014-15
7	ONE DAY WORKSHOP ON BRAIN COMPUTER INTERFACE DEVELOPMENT AND SIMULATION	IET	10,000	ECE	MS. NIMITHA N	MS. POOVIZHI S & MS. AARTHI K G	19.09.2015	2015-16
8	IGNITION OF NEW, CREATIVE AND INNOVATIVE IDEAS- PROJECT CONTEST	IET	10,000	ECE	DR. ARUN C	MS. SANGEETHALAKSHMI K	19.09.2015	2015-16
9	NATIONAL LEVEL WORKSHOP ON XPLORE ROBOTICS	IET	10,000	ECE	DR. ARUN C	MR. BABU M	9.3.2015	2015-16
10	ONE DAY SEMINAR ON CLOUD COMPUTING	IET	10,000	ECE	DR. PADMAVATHY T.V	MS. PRAVEENA N.G	7.3.2016	2015-16
11	NATIONAL LEVEL ONE DAY WORKSHOP ON PIONEER TO DISCOVER WITH INTERNET OF THINGS (P2DIOT-16)	IET	20,000	ECE	DR. ARUN C	MR. SATHYA RAJ P MR. KUMAR T MR. KANNAN K	7.3.2016	2015-16
12	IET SPONSORED ONE DAY WORKSHOP ON "SOLAR AND SMART ENERGY	IET	10,000	ECE	MS. KANNAGI V	MS. DHIVYA K MS. SANDHIYA G	14.07.2017	2017-18

	SYSTEMS IN PRESENT & FUTURE”							
13	IET SPONSORED ONE DAY WORKSHOP ON “IOT - SECURITY & CHALLENGES IN SENSOR NETWORKS	IET	10,000	ECE	DR. ARUN C	MR. RAMACHANDRAN R	22.07.2017	2017-18
14	PARTIAL RECONFIGURATION FLOW USING XILINX VIVADO DESIGN SUITE AND ZYNQ BOARD	IET	7000	ECE	MR. MUTHUMANICKAM S	DR. ARUN C	11.3.2019	2018-19
15	STTP ON "SUPERVISED AND UNSUPERVISED MACHINE LEARNING USING GOOGLE CLOUD"	AICTE	293,667	ECE	MR. MUTHUMANICKAM S	Mr BABU M, & Ms N NIMITHA	SLOT 1: 12.10.2020 – 17.10.2020 SLOT 2: 02.11.2020 – 07.11.2020 SLOT 3: 16.11.2020 – 21.11.2020	2020-21
16	NATIONAL CONFERENCE	AICTE	50000	ECE	Dr.T.M.Inbamalar	MS.Chettiyar Vani V	OCT-2021	2020-21

Consultancy Project

<u>S.No</u>	Name of faculty	Department	Client Organization	Title of Consultancy of Project	Amount Estimation in Rs.	Academic Year
1.	Dr.C.Arun & Mr.R.Ramachandran	ECE	Respro Labs, Chennai	Data Interpretation and Analysis of Agriculture using IOT combined with Embedded Systems	20000	2016-17
2.	M.Babu	ECE	Cypress University Alliance Technology	-	44,136.00	2017-18
3.	M.Babu	ECE	Cypress University Alliance Technology	A Hardware implementation of a Novel Cipher Algorithm	44,136.00	2017-18
4.	M.Babu	ECE	Cypress University Alliance Technology	-	49,697.00	2018-19
5.	M.Babu	ECE	Cypress University Alliance Technology	Hardware Implementation Of SMS4-BSK Algorithm For Fast Encryption	250672	2019-20
6.	Dr.C.Arun Mrs.N. Nimitha	ECE	ResPro labs, Chennai-600078.	An Efficient Image Classification of Human Chromosome anomaly detection using Convolution Neural Networks (CNN)	50000	2020-21
7.	Mr.Babu	ECE	ResPro labs, Chennai-600078.	Breast cancer segmentation using image processing	150000	2020-21

8.	Dr.K.G.Shanthi S.Sesha Vidhya K.Sangeethalakshmi P.Sivalakshmi	ECE	Generic Engineering Technologies, Chennai	LOAD CELL INTEGRATION FOR HYDRO PNEUMATIC PRESS	52000	2020-21
----	---	-----	--	---	-------	---------

Patent Filed and Published

<u>S.No</u>	Name of the Inventor (S) with Designation	Title of Invention	Date of Filing/ Grant	Application No.	Date of Publication/Patent Number	Status	Department	Academic Year	Year
1.	Dr. Padmavathy T V	Extension of Network Lifetime for Surveillance Wireless Sensor Networks Using Energy Efficient Routing Protocol	13/02/2012	522/CHE/2012	Published	Awaiting for Examination	ECE	2011-12	2012
2.	Dr. Perumal Pillai E B Dr. Padmavathy T V	Design and Development of Cross Slotted Circular Microstrip Patch Antenna Strain Sensor for Wireless Structural Health Monitoring	16/02/2015	737/CHE/2015	42158	Awaiting for Examination	ECE	2014-15	2015

3.	Y.B. Venkatesh G.Y. Revanth kumar M. Vignesh Babu	Automatic Irrigation System and Security Surveillance From Living Beings in The Agricultural Field Using Renewable Solar Power Based on WSN	42310	669/CHE/2015	27/02/2015	Awaiting for Examination	ECE	2014-15	2015
4.	Dr. Padmavathy T V Professor	Development of a Long- Term Monitoring System Based on Fiber Optic Sensors in Concrete Structures	18.09.2015	4999/CHE/2015	09.10.2015	Reply to FER submitted	ECE	2015-16	2015
5.	Dr. Padmavathy T V	Design and Development of smart sensor for damage detection in Bridges	24/03/2016	7534/CH E/2016	Not yet Published	Awaiting for Examination	ECE	2015-16	2016
6.	Dr.N.Gangatharan Dr.C.Arun Dr.T.M.Inbamalar Mr.S.Muthumanicka m S.Saravanan N.Apoorva D.Jayashree	Vibrato-Larynx	25.09.2017	201741033854	8.11.2019	Published	ECE	2019-20	2019
7.	Dr.Gangatharan N Dr.Shanthi K G	Animal Impediment	28/09/2017	201741034442	8.11.2019	Published	ECE	2019-20	2019

	SeshaVidhya S Manikandan A Babu M Abirami S Dakshita Jain Thasbir S K	using Intelligent Automated System							
8.	Dr. Gangatharan N Dr. Praveena NG Dr. Aishwarya N	An IoT based Engine Oil Impurities and Quantity Monitoring System	12/06/2020	202041024727	-	Filed	ECE	2020-21	2020
9.	Dr. Shanthi K G Dr. Gangatharan N Dr. Inbamalar T M Sesha Vidhya S Babu M	Animal Intrusion Identification System in Plantation Fields using Machine Learning Techniques	12/6/2020	202041044315 A	16/10/2020	Published	ECE	2020-21	2020
10.	Dr. Kannan Krishnan, Mr. Sathyaraj Periyasamy, Dr. Deepa Dasarathan, Mr. R. Kaviyaraj	QOS ROUTING PROTOCOL DESIGN FOR MANETS	20/11/2020	202041050554	4.12.2020	Published	ECE	2020-21	2020
11.	Dr.T.M. Inbamalar Ms. A. Jasmine Vijithra Dr. N. Gangatharan	Powerful Wearables for Women Safety	24.01.2021	202141000011A	29.1.2021	Published	ECE	2020-21	2021
12.	Ms. K.Dhivya, Mr. S. Jaiganesh Ms. V. Kannagi	IoT based Automatic Water Clarity Measurement System	07/05/2021	202141020761	--	Filed	ECE	2020-21	2021

		powered by Solar cells							
--	--	---------------------------	--	--	--	--	--	--	--