



RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

(Accredited by NAAC and an ISO 9001:2008 Certified Institution)

COIMBATORE - 641 402.

R&D Annual Report

2018 -2019

Dr.K.M.Karuppannan

Dean R&D

RVS college of Engineering and Technology

Coimbatore-641402

Staff Committee:

Sl.No	Department	Staff coordinator
1	CSE	1. Dr. K.Karuppasamy 2. Prof.P.Arul prakash
2	EEE	1. Dr.S.S Sivaraju 2. Prof.K.Thangarajan
3	ECE	1. Dr.D.Jeyakumar 2. Prof.R.Kannan
4	MECH	1. Dr.V.R Sivakumar 2. Prof .P.Rajeshkumar
5	PCE	1. Dr.R.Kannan 2. Prof .B. Vijaya Kumar
6	S & H	1. Prof.Prakash. A 2. Prof.K.Kalaivani

Student Committee:

Sl.No	Department	Student Members
1	CSE	JANANI V -II YEAR MAHALAKSHMI M -II YEAR JACKSON R -III YEAR KARTHIK S -III YEAR
2	EEE	D.DEEPIKA-III YEAR R.DEEPIKA-III YEAR AJEETH KUMAR S-II YEAR DHARANI B V-II YEAR

3	ECE	AJETHA MOHAN R II YEAR RAJKUMAR M II YEAR AJITHA V III YEAR KARTHICK S III YEAR
4	MECH	ABISHEK M – II YEAR TAMIZHARASAN R– II YEAR BALACHANDAR M – III YEAR RAMAKRISHNAN N– III YEAR
5	PCE	BALAJI J – II YEAR NIVED P MENON – II YEAR SARVOTHAMAN K – III YEAR MOHAMMED MIRSHATH M – III YEAR
6	S & H	

1. Grants received from Government and non-governmental agencies for research projects, endowments in the institution (INR in Lakhs)

Sl.No	Name of the Project/ Endowments, Chairs	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)
1	Design of Sensor Based Standalone System to Protect the Farm Land from Wild Boar Intrusion Using Hybrid Alarming	Dr.P.Rajendran / T.Arunkumar	Mechanical Engineering / Computer Science and Engineering	2018-19	3.13	18 Months	RUTAG(Rural Technology Action Group) IIT MADRAS	Government
2	Electricity Generation in highway through combined darrieus and SV-avonious wind turbine	S.Prabhu	Mechanical Engineering	2018-19	0.075	6 months	TNSCST(Tamil Nadu State Council for Science and Technology)	Government
3	Optimization And Kinetics Studies For The Production Of Biofuel From Tannery Waste Using Nanocatalyst	B.Vijaya Kumar	Petrochemical Engineering	2018-19	0.07	3 Months	TNSCST (Tamil Nadu State Council for Science and Technology)	Government

2. Number of papers published per teacher in the Journals

Sl. No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1	Experimental investigation and enhancing fresh water productivity from a solar distillation still with external preheating	F.R.Titus	Mechanical Engineering	Ecology Environment And Conservation	2018	0971-765X
2	An experimental study on the rotational behaviour of a Savonius wind turbine for Two way highway applications	S.Senthilvel	Mechanical Engineering	Journal Of The Brazilian Society Of Mechanical Sciences And Engineering, Springer	2018	1678-5878
3	Building a low cost wind turbine in highways for rural house electricity demand	S.Senthilvel	Mechanical Engineering	Environmental Progress And Sustainable Energy, Wiley	2018	1944-7450
4	Optimization and characterization of oil extration from brasiliensis seed	C.Senthikumar	Mechanical Engineering	Ecology, Environment and Conservation Paper	2018	0971-765X
5	Statistical optimization and kinetic study on biodiesel production from a potential non-edible bio-oil of wild radish	C.Senthikumar	Mechanical Engineering	Communication	2018	0098-6445
6	Optimization and Kinetic Studies on Biodiesel Production from Microalgae (<i>Euglena sanguinea</i>) using Calcium Methoxide as Catalyst	Arun Prasad Arunachalam Sivagurulingam, Periyasamy Sivanandi, Sakthi Saravanan Arumugamurthi , Sivakumar Pandian & Anirbid Sircar	Petrochemical Engineering	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2018	1556-7230
7	Despeckling of ultrasound images using directionally decimated wavelet packets with adaptive clustering	C.Vimal Raj	Electrical and Electronics Engineering	IET Image Processing	2018	1751-9659
8	Imperfect production system with rework and Scrap at a single stage manufacturing system and integrates cost reduction delivery policy	P. Selvaraju & S. Kumara Ghuru	Mathematics	International Journal Operational Research	2018	1745-7645

9	EOQ model for Deteriorative items with Constant, Linear, and Quadratic Holding cost and Shorages - Comparative study	P. Selvaraju & S. Kumara Ghuru	Mathematics	International Journal Operational Research	2018	1745-7645
10	Comparative Study of Lossy and Lossless Image Compression Techniques'	Karthikeyan N, Dr. Saravana Kumar N M, Dr. Mugunthan S R	Computer Science and Engineering	International Journal of Engineering & Technology	2018	2227-524X
11	Retinal Image segmentation analysis to detect Glaucoma and exudates using SVM classifier	Suganthi.B	Electronics and Communication Engineering	International Journal of Research in Electronics	2018	2349-252X
12	Investigation on performance and emission characteristics of cardanol-diesel blends in a single cylinder DI diesel engine	S.Sivakumar	Mechanical Engineering	Taylor &Fransis	2019	1556-7036
13	Combining statistical models using modified spectral subtraction method for embedded system	M. Rajesh Babu, V.R. Balaji	Computer Science and Engineering	Microprocessors and Microsystems	2019	0141-9331
14	Quality of Service based Ad hoc On-demand Multipath Distance Vector Routing protocol in mobile ad hoc network	R. Thiagarajan , M. Rajesh Babu, M. Moorthi	Computer Science and Engineering	Journal of Ambient Intelligence and Humanized Computing	2019	1868-5137
15	Hybrid wind speed prediction model based on recurrent long short-term memory neural network and support vector machine models	T.Vinothkumar	Electrical and Electronics Engineering	SPRINGER SOFT COMPUTING	2019	1432-7643
16	Differential evolution CapsNet model for QoS routing enhancement in wireless networks	Tamizharasi.S & Dr.C.Kumar	Electronics and Communication Engineering	International Journal of Communication Systems	2019	1099-1131
17	Optimisation Algorithms, an effective tool for the design of digital filters, a review	Dr.M.Sundar Prakash Balaji	Electronics and Communication Engineering	Journal of Ambient Intelligence and Humanized Computing	2019	12652-019
18	Production of biodiesel from high free fatty acid feedstock using heterogeneous acid catalyst derived from palm-fruit-bunch	Himanshu Choksi, Sivakumar Pandian, Arumugamurthi Sakthi Saravanan, S. Periyasamy , Anirbid Sircar, Vijaya Kumar Booramurthy	Petrochemical Engineering	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2019	1556-7230
19	Biodiesel Production from Tannery Waste using a Nano	Vijaya Kumar Booramurthy,	Petrochemical	Energy Sources, Part A:	2019	1556-7230

	Catalyst (Ferric-Manganese Doped Sulphated Zirconia)".	Ramesh Kasimani, Sivakumar Pandian	Engineering	Recovery, Utilization, and Environmental Effects		
20	Production of biodiesel from tannery waste using a stable and recyclable nano-catalyst: An optimization and kinetic study	Vijaya Kumar Booramurthy, Ramesh Kasimani, Deepalakshmi Subramanian, Sivakumar Pandian	Petrochemical Engineering	Fuel	2019	0016-2361
21	A compact Design and fabrication of The Effect of Manufacturing and Assembling Tolerances on the Performance of Double-Ridged Horn Antenna	Dr.C.Veeramani, Dr.S.R. Mugunthan, PUNEM RAMADEVI	Computer Science and Engineering	International Journal of Computational and Theoretical Nanoscience	2019	2019-8103
22	Concentrate on Security of Wireless Sensor Networks in Smart Grid	Arun Kumar. R, Dr.K.Karuppasamy	Computer Science and Engineering	Journal of Information and Computational Science	2019	1548-7741
23	Credit Card Fraud Detection Using Random Forest Technique	B. Mohankumar, Dr. K. Karuppasamy	Computer Science and Engineering	International Journal of Innovative Research in Science, Engineering and Technology	2019	2347-6710
24	Fuzzy based Data Gathering model for improving Network lifetime in ADHOC Networking	Dr.K.Deeba, Tamizharasi.S & T.Vinoth Kumar	Electronics and Communication Engineering	International Journal of Engineering and Advanced Technology	2019	2249-8958
25	Machine Learning Approach for Classifying Skin Cancer Using Moth Flame Optimization Based Cascade Network	Dr.M.Sundar Prakash Balaji	Electronics and Communication Engineering	Bioscience biotechnology Research and Communication	2019	2321-4007

3. Incubation & Innovative Cell Activities

S.No	Name of the Activity	Date	Resource Speaker
1	Entrepreneurial Journey	06-09-2018	Mr.W.R.Kesavan Entrepreneur & Advisor
2	Workshop on Intellectual Property Rights and Competition Policy	11-09-2018	Team EDC
3	Millionminds Campustar for RVS College of Engineering and Technology.	07-12-2018	Team Masterermind, Mumbai.
4	Guest Lecture on Start Up	28-01-2019	Millionmind Ventures, Mumbai.
5	Real World Problem discovery through	19-01-2019- 20-01-	Team EDC & Placement

	Design Thinking + Hands on Training	2019	
6	Employment entrepreneurship before and after Graduate	28-02-2019	Dr.K.Baskaran, HOD, EEE, AC Govt College of Engg, Karaikudi.
7	Case study on Entrepreneurship	02-03-2019	Team EDC
8	E-Talk on Entrepreneurship	16-03-2019	J.NelsonVasanth , Serial Entrepreneur, SAARC Startups, Eco System Enabler, Mentor & Tech Expert