



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NBA & NAAC)

**Dindigul – Palani Highway, Dindigul – 624 002**

## Department of Electronics and Communication Engineering

### Research Details

#### PhD Completed Faculty List

S.No	Name of the Faculty	Year of Passing	University Name
1	Dr. S. Karthigai Lakshmi	2013	Anna University
2	Dr. C. Sujatha	2016	Anna University
3	Dr. K. Vinoth Kumar	2017	Karpagam University
4	Dr. K.Rajesh	2020	Anna University
5	Dr. M. Jeyalakshmi	2021	Anna University
6	Dr. M. Premkumar	2022	Anna University
7	Dr. K. Ganapriya	2022	Anna University

#### List of PhD Pursuing Faculty

S.No	Name of the Faculty	Status	University Name
1	A. Geetha	Course work completed	Anna University
2	V.P. Jayfantin	Confirmation completed	Anna University
3	R. Carol Praveen	Thesis Submitted	Anna University
4	M. Manikandan	Thesis Submitted	Anna University
5	R.Senthil Kumar	Course work completed	Anna University
6	J. Vetrimanikumar	Course work completed	Anna University
7	K.S. Arunkumar	Confirmation completed	Anna University
8	S. Jayakumar	Thesis Submitted	Anna University
9	G. Saranya	Confirmation completed	Anna University
10	S. Karthik	Confirmation completed	Anna University
11	R. Sangeetha	Course work completed	Anna University
12	K. Divya	Course work registered	Anna University
13	S. Keerthana	Confirmation completed	Anna University
14	G. Rajarajeshwari	Course work registered	Anna University

**Guide ship Details**

<b>S.No</b>	<b>Name of the Faculty</b>	<b>Specialization</b>	<b>Supervisor Recognition</b>	<b>Number</b>	<b>Number of Scholars</b>
1	Dr. S. Karthigai Lakshmi	VLSI and Nano Electronics	Yes	2740076	7
2	Dr. C. Sujatha	Image Processing, FPGA, VLSI, Signal Processing	Yes	2940046	4
3	Dr. K. Vinoth Kumar	Mobile Ad-Hoc Networks , Wireless Sensor Networks , Wireless Communication , Signal Processing	Yes	2940131	8
4	Dr. K.Rajesh	Medical Image Processing	No	-	-
5	Dr. M. Jeyalakshmi	Nano-Technology, VLSI, Networking, Image Processing	Yes	4040062	1
6	Dr. M. Premkumar	Wireless Networks, Network Security, Antennas, Signal Processing	Yes	4140043	-
7	Dr. K. Ganapriya	Medical Image Processing	No	-	-



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## Department of Electronics and Communication Engineering

### Funding Details

S.No	Title of the Project	Name of the Principal Investigator	Funding Agency	Amount Received	Date of Fund Received	Duration
1	Tracking, caring and monitoring for Alzheimer's patients	Dr. S.Karthigai LAKshmi, Professor and Head /ECE	TNSCST	7,500	2022	6 months
2	AI based fake product detection in E-commerce applications	Dr. M. Premkumar, AsP/ECE	TNSCST	4,000	2022	6 months
3	Smart Garbage Bin	Mr. R. Senthil Kumar, AP/ECE	UBA	1,00,000	2022	1 Year
4	Design of menstrual cycle calculator app with gynae bot interface using react native frame work	Mr.S.Dhamodharan, AP/ECE	TNSCST	7,500	2021	6 months
5	Artificial intelligence robot for helping passengers in dindigul kamarajar bus stand	Mr.K.S.Arunkumar,AP/ECE	TNSCST	7,500	2019	6 months
	Monitoring and Tracking Wildlife Injury in Palani Hills Wildlife Sanctuary using Wireless Sensor Networks	Mr.M.Premkumar, AP/ECE	TNSCST	7,500	2018	6 months
	IoT based UAV's for Flood Monitoring in the Coastal Areas of Tamilnadu	Mr.S.Dhamodharan, AP/ECE	TNSCST	10,000	2017	6 months

## Patents Details

Topic	Inventors	Application No.	Date	Status
<b>CAY (2021-2022)</b>				
Intelligent agriculture system to assist farmers in choosing better decisions using data science	Dr. S. Karthigai Lakshmi Dr. C. Sujatha Mr. K.S. Arun Kumar Mrs. A. Geetha Mrs. G. Saranya	202141054340	10/12/2021	Published in patent journal and awaiting request for examination
<b>CAYm1 (2020-2021)</b>				
CNN based fast lithium ion battery capacity estimation for electric vehicle	Mr. Mankandan Mrs. M. Jeyalakshmi Mrs. A. Parameswari	202141025921	25/06/2021	Published in patent journal and awaiting request for examination
IoT based smart wearable child and women's safety device	Mr.S.Senthilkumar	202041049152	13/11/2020	Published in patent journal and awaiting request for examination
IoT based proactive surveillance to identify real time theft	Dr.K.Rajesh	202041047140	06/11/2020	Published in patent journal and awaiting request for examination
<b>CAYm2 (2019-2020)</b>				
Application of NB-IOT in low power radio frequency identification	Dr.K.Vinoth Kumar Dr.G.Mohan Babu Mr.R.Carol Praveen	202041008872	24/04/2020	Published in patent journal and awaiting request for examination
Method of processing of complex elevator operations	Mr. M. Premkumar Mr. S.R. Ashokkumar Mr. S. Jayakumar Mr. V. Jeevanantham	202041001633	24/01/2020	Published in patent journal and awaiting request for examination
A robust video watermarking scheme	Dr. K. Vinoth Kumar	202041000991	24/01/2020	Published in patent journal and awaiting request for examination