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St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. Joseph's Group of Institutions

OMR, Chennai - 119



Department of Electronics and Communication Engineering
Details of Research work carried out by Research Scholars

S.No	Name of the Scholar	Research Topic	Supervisor / Joint Supervisor	Date of Completion	Academic Year	University
1.	R.K JEYACHITHRA (External, Part-Time)	A STUDY ON THE PERFORMANCE OF SPECTRUM-SLICED MICROWAVE PHOTONIC FILTER USING FABRY-PEROT FILTERS AND WINDOWING FOR ROF LINK	Dr.J. MARTIN LEO MANICKAM	10.02.2014	13-14	ANNA UNIVERSITY
2.	S. AGHALYA (Internal, Part-Time)	VERTICAL HANDOFF DECISION IN HETEROGENEOUS WIRELESS NETWORKS	Dr. A. SIVASUBRAMANIAN	05.11.2014	14-15	ANNA UNIVERSITY
3.	A. SIVASANGARI (External, Part-Time)	STUDIES ON THE DESIGN OF ECG-BASED LIGHTWEIGHT SECURITY SCHEME FOR WIRELESS BODY AREA NETWORKS	Dr. J. MARTIN LEO MANICKAM	2.02.2017	16-17	SATHYABAMA UNIVERSITY
4.	S MOHANALAKSHMI (External, Part-Time)	SOME STATISTICAL STUDIES IN ARTERIAL STIFFNESS, PULSE RATE VARIABILITY CARDIOVASCULAR ASSESSMENT WITH AN ADAPTIVE DELINEATOR FOR PHOTOPLETHYSMOGRAPHY WAVEFORMS	Dr.A. SWARNALATHA	01.11.2017	17-18	ANNA UNIVERSITY
5.	A. PUNITHA (External, Part-Time)	STUDIES ON LOCATION VERIFICATION AND PRIVACY PRESERVATION TECHNIQUES FOR SECURE ROUTING IN VANET	Dr. J. MARTIN LEO MANICKAM	27.03.2018	17-18	ANNA UNIVERSITY
6.	JOYCE JACOB (External, Part-Time)	STUDIES ON IMPROVEMENT OF QUALITY IN PON THROUGH OPTIMIZED NETWORK PLANNING	Dr. A. SWARNALATHA	13.04.2018	17-18	ANNA UNIVERSITY
7.	G.S. UTHAYAKUMAR (Internal, Part-Time)	MONITORING OF HUMAN BODY TISSUES AT MOLECULAR LEVEL USING FIBER	Dr. A. SIVASUBRAMANIAN	19.12.2018	18-19	ANNA UNIVERSITY

		OPTIC TRANSILLUMINATION IMAGING SYSTEMS (FOTI)				
8.	M.V. KARTHIKEYAN (External, Part-Time)	STUDIES ON KEY ESTABLISHMENT TECHNIQUES FOR AUTHENTICATION USING CHAFF POINTS IN WIRELESS BODY AREA NETWORK	Dr. J. MARTIN LEO MANICKAM	04.02.2020	19-20	ANNA UNIVERSITY
9.	S. SARGUNAVATHI (External, Part-Time)	INVESTIGATIONS ON THE IDENTIFICATION OF TRUST-BASED OPTIMUM ROUTE USING DIRECT AND INDIRECT OBSERVATIONS FOR MOBILE AD-HOC NETWORKS	Dr. J. MARTIN LEO MANICKAM	06.02.2020	19-20	ANNA UNIVERSITY
10.	K. VIJAYALAKSHMI (External, Part-Time)	CERTAIN INVESTIGATIONS ON THE SELECTION OF OPTIMAL PATH FOR MOBILE SINK IN WIRELESS SENSOR NETWORK	Dr. J. MARTIN LEO MANICKAM	16.9.2019	19-20	SATHYABAMA UNIVERSITY
11.	E. ANNADEVI (External, Part-Time)	INVESTIGATIONS ON THE DESIGN OF EFFICIENT CUT DETECTION AND CUT RECOVERY ALGORITHMS FOR WIRELESS SENSOR NETWORKS	Dr. J. MARTIN LEO MANICKAM	1.10.2019	19-20	SATHYABAMA UNIVERSITY
12.	V.SAMUTHIRAPANDI (External, Part-Time)	STUDIES ON THE DESIGN OF ENERGY CONSUMPTION MODEL AND LOAD BALANCING TECHNIQUE FOR HETEROGENEOUS WIRELESS MULTI-HOP NETWORK	Dr. J. MARTIN LEO MANICKAM	12.11.2019	19-20	SATHYABAMA UNIVERSITY
13.	SENTHIL KUMAR C (External, Part-Time)	CERTAIN INVESTIGATIONS ON ANGLE-BASED PATH AWARE CLUSTERING MECHANISM FOR ENERGY EFFICIENT ROUTING WITH MOBILE SINK IN WSN	Dr. J. MARTIN LEO MANICKAM	20.7.2020	20-21	ANNA UNIVERSITY
14.	SIVAGAMMI L (External, Part-Time)	CERTAIN INVESTIGATIONS ON ENERGY EFFICIENT CLUSTER-BASED MAC PROTOCOL WITH ADAPTIVE DUTY CYCLE FOR UNDERWATER WIRELESS SENSOR NETWORKS	Dr.J. MARTIN LEO MANICKAM	30.7.2020	20-21	ANNA UNIVERSITY
15.	R. M. GOMATHI (External, Part-Time)	ENERGY EFFICIENT ROUTING PROTOCOLS FOR EFFECTIVE OPTIMISATION IN UNDERWATER ACOUSTIC WIRELESS SENSOR NETWORKS	Dr. J. MARTIN LEO MANICKAM	04.09.2020	20-21	SATHYABAMA UNIVERSITY

16.	S. LAKSHMINARAYANAN (External, Part-Time)	EFFICIENT LEAKAGE POWER REDUCTION TECHNIQUES AND CHALLENGES IN NANOSCALE CMOS CIRCUITS	Dr. A. SWARNALATHA	18.12.2020	20-21	ANNA UNIVERSITY
17.	K. BHARATHABABU (External, Part-Time)	VLSI IMPLEMENTATION OF HIGH SPEED ARITHMETIC BLOCKS USING VEDIC MATHEMATICS	Dr. A. SWARNALATHA	22.07.2021	21-22	ANNA UNIVERSITY
18.	VELMURUGAN V (External, Part-Time)	STUDIES ON EFFICIENT AND RELIABLE COMMUNICATION TO REDUCE BROADCAST STORM IN VEHICULAR AD-HOC NETWORKS	Dr. J. MARTIN LEO MANICKAM	24.8.2021	21-22	ANNA UNIVERSITY
19.	G. BRINDHA (External, Part-Time)	MOMENTO CENTRIC TOPOLOGY DRIVEN CO-OPERATIVE SELF SCHEDULING FOR IMPROVED LIFETIME MAXIMIZATION IN WIRELESS SENSOR NETWORKS	Dr. P. EZHILARASI	11.01.2022	21-22	ANNA UNIVERSITY
20.	MURUGANANDAM D (External, Part-Time)	INVESTIGATIONS ON DETECTION OF MISBEHAVING NODES USING ROUTING STATISTICS AND PRIORITY-BASED RESOURCE SHARING IN MANET	Dr. J. MARTIN LEO MANICKAM	20.01.2022	21-22	ANNA UNIVERSITY
21.	THILAGAVATHI P (External, Part-Time)	INVESTIGATIONS ON RANDOM DIRECTION AWARE RSSI BASED OPTIMIZED PATH PLANNING TECHNIQUES FOR WIRELESS SENSOR NETWORKS	Dr. J. MARTIN LEO MANICKAM	17.02.2022	21-22	ANNA UNIVERSITY
22.	T. KALIRAJA (External, Part-Time)	INVESTIGATION ON OPTIMIZED SOLAR POWER GENERATION USING TAMIL CALENDER FOR MICROGRID APPLICATIONS	DR. J. MARTIN LEO MANICKAM	25.03.2022	21-22	SATHYABAMA UNIVERSITY
23.	KAVITHA C (External, Part-Time)	IMPROVING THE MAPREDUCE PERFORMANCE BY OPTIMIZING THE STRUCTURE OF MAPREDUCE COMPUTATION IN HADOOP	Dr. SHIRLEY SELVAN	09.03.2022	21-22	ANNA UNIVERSITY
24.	REGAN R (External, Part-Time)	STUDIES ON ADAPTIVE LEARNING BASED ENERGY EFFICIENT ROUTING SECURITY SCHEMES FOR WIRELESS MESH NETWORKS	Dr. J. MARTIN LEO MANICKAM	5.4.2022	21-22	ANNA UNIVERSITY
25.	SENTHIL MURUGAN B (External, Part-Time)	INVESTIGATIONS ON THE PERFORMANCE ENHANCEMENT OF PROPORTIONATE AFFINE PROJECTION ALGORITHMS FOR SPARSE SYSTEM IDENTIFICATION.	Dr. A. SWARNALATHA	29.07.22	22-23	ANNA UNIVERSITY

26.	TEPHILLAH (External, Part-Time)	STUDIES ON TRUST ORIENTED MACHINE LEARNING BASED MITIGATING SCHEMES FOR SSDF ATTACK IN COGNITIVE RADIO NETWORKS	Dr. J. MARTIN LEO MANICKAM	21.07.2022	22-23	ANNA UNIVERSITY
27.	JEIPRATHA P N (Internal, Part – time)	AN ONTOLOGY-BASED GENE PRIORITIZATION AND DISEASE PREDICTION USING MACHINE LEARNING TECHNIQUES	Dr. B VASUDEVAN Dr. S RAJESHKANNAN	24.05.2024	23-24	ANNA UNIVERSITY



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Academic Year-wise Research Completed-All Universities

S.No	Supervisor / Joint Supervisor	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	24-25
1.	Dr. J. MARTIN LEO MANICKAM	-	-	1	-	-	1	1	-	5	3	5	1	-	-
2.	Dr. P. EZHILARASI	-	-	-	-	-	-	-	-	-	-	1	-	-	-
3.	Dr. SHIRLEY SELVAN	-	-	-	-	-	-	-	-	-	-	1	-	-	-
4.	Dr. D LAKSHMI	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.	Dr. S RAJESHKANNAN	-	-	-	-	-	-	-	-	-	-	-	-	1	-
6.	Dr. A M BALAMURUGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Internal		-	-	-	-	-	-	-	-	-	-	-	-	1	-
External		-	-	1	-	-	1	3	-	5	4	8	2	-	-
Full-Time		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Part-Time		-	-	1	-	-	1	3	-	5	4	8	2	1	-



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Department of Electronics and Communication Engineering



Institute Level Research Centre
Reference No. : 4131700



List of Supervisors

S.No	Reference No.	Supervisor Name	Research Area
1.	1540185	Dr. J. MARTIN LEO MANICKAM	MANET, WSN, WBAN, Underwater acoustic sensor networks, cognitive radio and optical networks
2.	2840064	Dr. P. EZHILARASI	Digital Image Processing
3.	2840018	Dr. D. LAKSHMI	Medical Image Processing, Machine Learning Algorithms, Soft Computing Techniques and Artificial Intelligence
4.	2740006	Dr. SHIRLEY SELVAN	Image processing for Medical Applications
5.	4140038	Dr. S RAJESHKANNAN	Image and Signal Processing, Artificial Intelligence, Computer Vision, Embedded Systems
6.	4290036	Dr. A M BALAMURUGAN	Optical Communication Networks, Cryptography, Network Security

Details of Research scholars pursuing Research under Supervisor Name: Dr.J. Martin Leo Manickam

<i>Anna University (Reco. No. 1540185)</i>								
S.NO	REG. NO.	NAME OF THE SCHOLAR	DEGREE	FACULTY	ACADEMIC YEAR	REG YEAR	REG SESSION	STATUS
1.	18244991500	AKILANDESWARY G (External, Part-Time)	Ph.D.	ICE	17-18	2018	JAN	Confirmation completed
2.	21244991229	DEVI PRIYA S (Internal, Part-Time)	Ph.D.	ICE	20-21	2020	JUL	Thesis Report received
3.	21243991176	JASMINE MYSTICA K (Internal, Part-Time)	Ph.D.	ICE	20-21	2020	JUL	Confirmation completed
4.	21244991381	ANITHA G (Internal, Part-Time)	Ph.D.	ICE	20-21	2020	JUL	Confirmation completed
5.	22144991470	SIVA T (External, Part-Time)	Ph.D	ICE	21-22	2022	FEB	Doing course work
6.	22194997293	Sam V George (External, Full – Time)	Ph.D	ICE	22-23	2022	JULY	Confirmation completed
7.	23143997131	Uma Maheswaran G (External, Part-Time)	Ph.D	Electrical	23-24	2023	JULY	Doing course work

Supervisor Name: Dr. P. EZHILARASI

Anna University (Reco. No. 2840064)

S.NO	REG. NO.	NAME OF THE SCHOLAR	DEGREE	FACULTY	ACADEMIC YEAR	REG YEAR	REG SESSION	STATUS
1.	21234997303	KAYALVZHI K R (Internal, Part-Time)	Ph.D.	ICE	21-22	2021	JUL	Confirmation completed
2.	21244997665	PEARLINE SHEBA GRACE J (External, Full-Time)	Ph.D.	ICE	21-22	2021	JUL	Confirmation Completed
3.	21244997373	BEAULAH PRINCIBA D (External, Full-Time)	Ph.D.	ICE	21-22	2021	JUL	Confirmation completed
4.	22144997233	IMMANUEL K (External, Part-Time)	Ph.D	ICE	21-22	2022	JUL	Course work completed
5.	22233997111	ANNIE ANGELINE PREETHI S (External, Part-Time)	Ph.D.	Elec	21-22	2022	JUL	Course work completed
6.	22234991169	PRIYADARSHINI S (External, Part-Time)	Ph.D.	ICE	21-22	2022	JAN	Course work completed
7.	22244991472	ANGELIN PONRANI M (Internal, Part-Time)	Ph.D.	ICE	21-22	2022	JAN	Confirmation Completed
8.	24244997183	JENIFER PRINCE F (External, Full – Time)	Ph.D.	ICE	24-25	2024	JULY	Doing course work

Supervisor Name: Dr. SHIRLEY SELVAN

Anna University (Reco. No. : 2740006)

S.NO	REG. NO.	NAME OF THE SCHOLAR	DEGREE	FACULTY	ACADEMIC YEAR	REG YEAR	REG SESS	STATUS
1.	20244991175	JASPIN. K (External, Part-Time)	Ph.D.	ICE	18-19	2019	JAN	Thesis submitted
2.	21244991395	R. MADHUMITHA (Internal, Part-Time)	Ph.D.	ICE	20-21	2020	JUL	Confirmation completed
3.	21244991392	P. ELAVENI (Internal, Part-Time)	Ph.D.	ICE	20-21	2020	JUL	Synopsis completed

Supervisor Name: Dr. D. LAKSHMI

Anna University (Reco. No.: 2840018)

S.NO	REG. NO.	NAME OF THE SCHOLAR	DEGREE	FACULTY	ACADEMIC YEAR	REG YEAR	REG SESS	STATUS
1.	18244991248	THENDRAL N (External, Part-Time)	Ph.D.	ICE	18-19	2018	JAN	Report received
2.	19244997194	S. MEENAPRIYA (External, Part-Time)	Ph.D.	ICE	19-20	2019	JUL	Confirmation completed
3.	21143991225	A. SADEESHKUMAR (Internal, Part-Time)	Ph.D.	Electrical	20-21	2020	JAN	Confirmation completed
4.	21244991376	R. JANAKI (External, Part-Time)	Ph.D.	ICE	20-21	2020	JAN	Confirmation completed
5.	22224991296	R. UMAMAHESWARI (External, Part-Time)	Ph.D.	ICE	21-22	2022	JAN	Confirmation completed
6.	23143997215	S SIVAKUMAR (Internal, Part-Time)	Ph.D.	ICE	23-24	2023	JAN	Doing Course work
7.	23213997271	M NIVEDHITHA DEVI	Ph.D.	Electrical	23-24	2023	JAN	Doing Course work

Supervisor Name: Dr. S. RAJESHKANNAN

Anna University (Reco. No. : 4140038)

S.NO	REG. NO.	NAME OF THE SCHOLAR	DEGREE	FACULTY	ACADEMIC YEAR	REG YEAR	REG SESS	STATUS
1.	23149997262	Prem Sangeeth V (External, Part-Time)	Ph.D	ICE	23-24	2023	JULY	Doing Course work
2.	24249991192	P Thenmozhi (Internal, Part-Time)	Ph.D	ICE	23-24	2024	JAN	Doing Course work
3.	21284991227	Noorul Julaiha A.G (External, Part-Time)	Ph.D	ICE	20-21	2021	JAN	Confirmation Completed
4.	24234997180	S Ramani (External, Part-Time)	Ph.D	ICE	24-25	2024	JULY	Doing Course work
5.	24284997163	A R Jariya Begum (External, Part-Time)	Ph.D	ICE	24-25	2024	JULY	Doing Course work

Supervisor Name: Dr. A. M. BALAMURUGAN

Anna University (Reco. No. : 4290036)

S.NO	REG. NO.	NAME OF THE SCHOLAR	DEGREE	FACULTY	ACADEMIC YEAR	REG YEAR	REG SESS	STATUS
1.	24149991184	G D Vignesh (Internal, Part-Time)	Ph.D	ICE	23-24	2024	Jan	Doing Course Work