

NAME : D. JEYA MALA
POSITION : DIRECTOR OF MCA
FACULTY OF : DEPT. OF COMPUTER APPLICATIONS (MCA)
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1. Educational Qualifications

S. No.	NAME OF THE DEGREE EXAM	UNIVERSITY/ INSTITUTION/ BOARD	YEAR OF PASSING	PERCENTAGE OF MARKS	DIVISION/ CLASS/CGPA	SUBJECTS	SPECIALIZATION (IF ANY)
1.	PH.D.	ANNA UNIVERSITY, CHENNAI	2009	COURSE WORK -85%	I CLASS WITH DISTINCTION	SOFTWARE ENGINEERING, SOFTWARE QUALITY, USABILITY ENGINEERING, SOFTWARE TESTING	APPLICATION OF INTELLIGENCE IN SOFTWARE ENGINEERING – SOFTWARE TESTING
2.	M.PHIL. (COMPUTER SCIENCE)	MADURAI KAMARAJ UNIVERSITY, MADURAI	2004	65%	I CLASS	COMPUTER SCIENCE SUBJECTS, RESEARCH METHODOLOGY AND THESIS	MASTER OF PHILOSOPHY IN COMPUTER SCIENCE
3.	M.C.A. (MASTER OF COMPUTER APPLICATIONS)	MADURAI KAMARAJ UNIVERSITY, MADURAI	2000	75.3%	I CLASS	COMPUTER PROGRAMMING, DBMS, SOFTWARE ENGINEERING, ARTIFICIAL INTELLIGENCE AND COMPUTER THEORY SUBJECTS, HARDWARE, MATHS AND ELECTIVES	COMPUTER APPLICATIONS
4.	B.SC. (COMPUTER SCIENCE)	MADURAI KAMARAJ UNIVERSITY, MADURAI / FATIMA COLLEGE, MADURAI	1994	80%	I-DISTINCTION	COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE, ELECTRONICS-I &II, MATHS, ENGLISH, TAMIL, VALUE EDUCATION AND ELECTIVES	COMPUTER SCIENCE
5.	H.Sc.	STATE BOARD	1991	83%	I-DISTINCTION (SCHOOL 3RD RANK)	TAMIL, ENGLISH, MATHS, PHYSICS, CHEMISTRY AND BIOLOGY	BIO MATHS
6.	SSLC	STATE BOARD	1989	88%	I-DISTINCTION (SCHOOL 3RD RANK)	TAMIL, ENGLISH, MATHS, SCIENCE, HISTORY AND GEOGRAPHY	-

2. Title of Thesis/Dissertation		Name of the University / Year of Award
PH.D.	A NOVEL SOFTWARE TEST OPTIMIZATION FRAMEWORK USING HYBRID INTELLIGENCE BASED SEARCH APPROACHES”	ANNA UNIVERSITY, CHENNAI / 2009

M.PHIL.	AN ANALYSIS OF SOFTWARE TESTING TECHNIQUES FOR EMBEDDED SYSTEMS	MADURAI KAMARAJ UNIVERSITY, MADURAI / 2004
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3. Previous Experience

S. No.	POST HELD	UNIVERSITY/ INSTITUTION	PERIOD		NO. OF YEARS / MONTHS	NATURE OF WORK
			FROM	TO		
1.	ASSOCIATE PROFESSOR	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	21/07/2013	15/2019	5 YEARS AND 11 MONTHS	TEACHING, MENTORING, RESEARCH, COORDINATOR FOR NAAC ACTIVITIES,
2.	ASSISTANT PROFESSOR	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	31/12/2009	02/06/2013	3 YEARS AND 6 MONTHS	TEACHING, COUNSELING, RESEARCH AND ADMINISTRATIVE RESPONSIBILITIES
3.	SENIOR GRADE LECTURER	THIAGARAJAR COLLEGE OF ENGINEERING	06/08/2008	30/11/2009	1 YEAR AND 3 MONTHS	TEACHING, MENTORING, RESEARCH AND ADMINISTRATIVE RESPONSIBILITIES
4.	LECTURER	THIAGARAJAR COLLEGE OF ENGINEERING	21/07/2003	05/08/2008	5 YEARS AND 1 MONTH	TEACHING, MENTORING, RESEARCH AND ADMINISTRATIVE RESPONSIBILITIES
5.	LECTURER	LADY DOAK COLLEGE, MADURAI	20/06/2001	18/07/2003	2 YEARS AND 1 MONTH	TEACHING, COUNSELING AND ADMINISTRATIVE RESPONSIBILITIES
6.	COMPUTER PROGRAMMER	A.PR. AGENCIES (C&F AGENTS OF MADURA COATS LTD., MADURAI)	OCT. 1994	FEB. 1997	2 YEARS AND 5 MONTHS	COMPUTER PROGRAMMING, BRANCH-OFFICE EDP IN-CHARGE

4. Details of Teaching Experience

S. No.	UNIVERSITY/ INSTITUTION	DATE OF JOINING	DATE OF RELIEVING	COURSES HANDLED	UG/PG
1.	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	21/07/2003	15/06/2019	THEORY : <ul style="list-style-type: none"> • INTELLIGENT AGENTS • PROGRAMMING IN C# USING .NET • SOFTWARE ENGINEERING • SOFTWARE QUALITY AND TESTING • INTERNET AND JAVA PROGRAMMING • OBJECT ORIENTED ANALYSIS AND DESIGN • SOFTWARE PROJECT MANAGEMENT • USABILITY ENGINEERING • OPERATING SYSTEMS • OBJECT ORIENTED PROGRAMMING IN C++ 	PG –M.C.A.

				<ul style="list-style-type: none"> DIGITAL PRINCIPLES AND APPLICATIONS SYSTEMS PROGRAMMING SYSTEM ANALYSIS AND DESIGN LAB COURSES: <ul style="list-style-type: none"> SOFTWARE ENGINEERING LAB WEB TECHNOLOGIES LAB ENTERPRISE APPLICATIONS DEVELOPMENT LAB JAVA PROGRAMMING LAB DATA STRUCTURES USING C LAB 	
2.	LADY DOAK COLLEGE, MADURAI	JUNE 2001	JULY 2003	THEORY: <ul style="list-style-type: none"> SOFTWARE ENGINEERING JAVA PROGRAMMING OPERATING SYSTEMS VISUAL PROGRAMMING USING VC++ SYSTEM ANALYSIS AND DESIGN LAB JAVA PROGRAMMING LAB OBJECT ORIENTED PROGRAMMING LAB VC++ LAB MICROPROCESSOR LAB 	UG – B.C.A., B.Sc. (IT&M) & PG (M.S.(IT))

5. Details of Industrial Experience

S. No.	WORK CARRIED OUT	DEVELOPMENT ENVIRONMENT	NATURE OF WORK
1.	PROGRAMMING FOR MADURA COATS' AGENT TO AUTOMATE THE TEXTILES E-COMMERCE APPLICATION	UNIX WITH COBOL	PROGRAMMING, REPORT GENERATION, AUTOMATION OF WORKS AND ESTABLISHMENT OF BRANCH OFFICE
2.	BRANCH OFFICE – AUTOMATION	UNIX WITH COBOL AND FOXPRO	ENTIRE WORKFLOW AUTOMATION FROM FLOOR LEVEL TO PRODUCT DELIVERY LEVEL

6. Details of R&D Experience

(a) Sponsored Research Projects Completed

S. No.	TITLE OF RESEARCH PROJECT	FUNDING AGENCY	PERIOD	PI/Co-PI/ JOINT PI	AMOUNT
1.	CRITICAL COMPONENTS IDENTIFICATION AND VERIFICATION FOR REAL TIME COMPLEX SYSTEMS USING ARTIFICIAL BEE COLONY BASED APPROACH	UGC, NEW DELHI	2011 - 2015	PI	10,09,600/-

(b) Consultancy				
S. No.	TITLE OF CONSULTANCY PROJECT	FUNDING AGENCY	PERIOD	AMOUNT
1.	VIDEO LECTURER	IGI GLOBAL, USA	2017	7000/-

(c) Research Guidance						
S. No.	LEVEL OF GUIDANCE	NUMBER ENROLLED	THESIS/DISSERTATION SUBMITTED		DEGREE AWARDED	
			PERIOD	NUMBER	PERIOD	NUMBER
1.	PH.D.	6	2018	1	2018	1
		-	2019	1	-	-
2.	M.PHIL. DISSERTATION	1	2016	1	2016	1
3.	P.G. DISSERTATION	112	2003	7	2003	7
			2004	7	2004	7
			2005	7	2005	7
			2006	7	2006	7
			2007	7	2007	7
			2008	7	2008	7
			2009	7	2009	7
			2010	7	2010	7
			2011	7	2011	7
			2012	7	2012	7
			2013	7	2013	7
			2014	7	2014	7
			2015	7	2015	7
			2016	7	2016	7
2017	7	2017	7			
2018	7	2018	7			

(d) Research Publications

No. of publications:						
REFEREED JOURNAL ONLY	PUBLISHED	25	ACCEPTED	-	BOOK CHAPTERS	8
BOOKS (ONLY WITH ISBN OR SIMILAR IDENTIFICATION MARK)			2	CONFERENCE PROCEEDINGS	18 (FULL PAPERS); 13 (BOOK/ PROCEEDINGS WITH ABSTRACTS)	

(e) Research Papers in Scopus Indexed , Peer-Reviewed / UGC listed Journals			
S. No.	TITLE OF THE PAPER, WITH JOURNAL'S NAME, YEAR OF PUBLICATION, VOL. NO., PAGE NOS., ETC.	ISBN/ISSN No.	IMPACT FACTOR
1.	"AN AGENT BASED INTELLIGENT DYNAMIC VULNERABILITY ANALYSIS FRAMEWORK FOR CRITICAL SQLIA ATTACKS: INTELLIGENT SQLIA VULNERABILITY ANALYZER AGENT", INTERNATIONAL JOURNAL OF INTELLIGENT INFORMATION TECHNOLOGIES (IJIIT), 2018, VOL. 14, No.3, PP.56-82 INDEXED IN : ESCI ,WEB OF SCIENCE, SCOPUS, ELSEVIER COMPENDEX, SCIMAGO, DBLP, ETC.	1548-3657	0.64
2.	"AN EFFECTIVE APPROACH TO TEST SUITE REDUCTION AND FAULT DETECTION USING DATA MINING TECHNIQUES", INTERNATIONAL JOURNAL OF OPEN SOURCE SYSTEM AND PROCESSES, VOLUME :8, ISSUE:4, PP. 1-31, 2017, INDEXED IN SCOPUS, INSPEC ETC	1942-3926	0.53
3.	"INVESTIGATING THE EFFECT OF SENSITIVITY AND SEVERITY ANALYSIS ON FAULT PRONENESS IN OPEN SOURCE SOFTWARE", INTERNATIONAL JOURNAL OF OPEN SOURCE SOFTWARE AND PROCESSES, VOL.8 No.2, PP.42-66, 2017. INDEXED IN ELSEVIER ENGINEERING INDEX(EI COMPENDEX), SCOPUS, DBLP, ETC.	1942-3926	0.53
4.	"HEURISTIC-BASED TIME-AWARE MULTI-CRITERIA TEST CASE PRIORITISATION TECHNIQUE", INTERNATIONAL JOURNAL OF INFORMATION SYSTEMS AND CHANGE MANAGEMENT, 2017 VOL.9, No.4, PP.315-333, 2017. INDEXED IN ELSEVIER ENGINEERING INDEX(EI COMPENDEX), SCOPUS, ETC.	1479-3121	0.53
5.	"TEST SUITE REDUCTION BASED ON TRACEABILITY MATRIX WITH ASSOCIATION RULE MINING TECHNIQUE", INTERNATIONAL JOURNAL OF INFORMATION SYSTEMS AND CHANGE MANAGEMENT, VOL.8, No.3, PP.205-237, 2017, INDEXED IN ELSEVIER ENGINEERING INDEX(EI COMPENDEX), SCOPUS, ETC.	1479-3121	0.53
6.	"GENETIC BAT ALGORITHM (GBA) FOR NEIGHBORING EMERGENCY DEPARTMENTS IN LOCATION BASED SERVICES (LBSs), JOURNAL OF ADVANCED RESEARCH IN DYNAMICAL AND CONTROL SYSTEMS, VOL.9, No.4, PP.88-97, 2017, INDEXED IN ELSEVIER SCOPUS	1943-023X	-
7.	"AUTOMATED SOFTWARE TEST OPTIMIZATION FRAMEWORK – AN ARTIFICIAL BEE COLONY BASED APPROACH", IET– SOFTWARE, VOL.4, No.5, PP. 334-348, 2010 INDEXED IN WEB OF SCIENCE, SCI INDEXED, SCOPUS, IET INSPEC ETC.	1751-8806, PEER REVIEWED	1.012
8.	"WOV BASED MULTI OBJECTIVE TEST CASE PRIORITIZATION", INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH, VOL. 10 No.55, PP 1165-1169, 2015, (INDEXED IN SCOPUS, SCIMAGO, INDEX COPERNICUS)	ISSN: 0973-9769	-
9.	"EARLY IDENTIFICATION OF SOFTWARE DEFECTS USING OCL PREDICATES TO IMPROVE SOFTWARE QUALITY", JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY, TAYLORS UNIVERSITY, © SCHOOL OF ENGINEERING, TAYLOR'S UNIVERSITY, VOL. 10, No. 3, PP.307 – 321, 2015, INDEXED IN SCOPUS	1823-4690,2015	-
10.	"IMPACT OF FAULT-PRONE COMPONENTS ON EFFECTIVE SOFTWARE TESTING: AN INDUSTRIAL SURVEY", INTERNATIONAL JOURNAL OF SYSTEMS AND SERVICE-ORIENTED ENGINEERING (IJSSOE), VOL.5, No.3, PP.38-51, 2015, (INDEXED IN GOOGLE SCHOLAR, INFOSci, ACM DIGITAL LIBRARY, DBLP, INSPEC, ETC)	1947-3052	-
11.	"APPROACHES FOR UTILITY-BASED QOE/QOS ARCHITECTURE FOR STREAMING SERVER IN A HETEROGENEOUS WIRELESS DEVICE BASED ON SVM", AMERICAN-EUROSIAN JOURNAL OF SCIENTIFIC RESEARCH, VOL.10, No.3, PP.98-103, 2015	1818-6785	-

12.	"COMBINED GENETIC AND SIMULATED ANNEALING APPROACH FOR TEST CASE PRIORITIZATION", INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY, (ISI INDEXED) -H INDEX 18, VOL. 5, NO. 35, PP.1-5. DEC 2015	0974-6846	0.14
13.	"OCL BASED TEST CASE GENERATION USING CATEGORY PARTITIONING METHOD", ICTACT JOURNAL OF SOFT COMPUTING, VOL.6, NO.1, PP.1102-1109,2015	2229-6956	-
14.	"FUNCTIONAL TESTING USING OCL- PREDICATES TO IMPROVE SOFTWARE QUALITY", INTERNATIONAL JOURNAL OF SYSTEMS AND SERVICE-ORIENTED ENGINEERING, VOL.5, NO.2, PP.56-72, 2015	ISSN 1947-3052	-
15.	"A MULTI AGENT BASED APPROACH FOR CRITICAL COMPONENTS IDENTIFICATION AND TESTING", INTERNATIONAL JOURNAL OF SYSTEMS AND SERVICE-ORIENTED ENGINEERING, VOL. 4, NO.1, PP. 21-38, 2014	1947-3052	-
16.	"COMPONENTS IMPACT ANALYZER WITH GENETIC ALGORITHM", ICTACT JOURNAL ON SOFT COMPUTING, VOL. 3, NO. 4, PP. 576-586 2013	0976-6561	-
17.	"FAULT-PRONE COMPONENTS IDENTIFICATION FOR REAL TIME COMPLEX SYSTEMS BASED ON CRITICALITY ANALYSIS", INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND INFORMATICS (IJCSI), VOL. 3, NO. 2, PP. 17-23, 2013.	ISSN (PRINT): 2231 –5292, PEER REVIEWED	-
18.	" CRITICAL COMPONENTS IDENTIFICATION USING MUTATION BASED COMPONENTS IMPACT ANALYSIS", INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND INFORMATICS (IJCSI), VOL. 3, NO. 2, PP. 24-33, 2013.	2231 –5292, PEER REVIEWED	-
19.	"OCL FORMAL SPECIFICATION BASED METRICS AS A MEASURE OF COMPLEXITY AND FAULT-PRONENESS", INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND INFORMATICS (IJCSI), VOL. 3, NO. 2, PP. 24-33 69-79, 2013.	2231 –5292, PEER REVIEWED	-
20.	"A HYBRID TEST OPTIMIZATION FRAMEWORK– COUPLING GENETIC ALGORITHM WITH LOCAL SEARCH TECHNIQUE", COMPUTING AND INFORMATICS, VOL. 29, NO.1, PP. 133-164, 2009, INDEXED IN SCI, WEB OF SCIENCE, SCOPUS ETC.	1335-9150,PEER REVIEWED,	0.436
21.	"ON THE USE OF INTELLIGENT AGENTS TO GUIDE TEST SEQUENCE SELECTION AND OPTIMIZATION", INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE AND APPLICATIONS , VOL. 8, NO.2, PP. 155-179, 2009, INDEXED IN WEB OF SCIENCE, SCI AND SCOPUS	1469-0268 PEER REVIEWED	0.170
22.	"ABC TESTER - ARTIFICIAL BEE COLONY BASED SOFTWARE TEST SUITE OPTIMIZATION APPROACH", INTERNATIONAL JOURNAL OF SOFTWARE ENGINEERING,, VOL.2, NO.2, PP. 15-43, 2009	1687-6954,PEER REVIEWED	-
23.	"INTELLIGENT TEST CASE OPTIMIZER – TEST CASE OPTIMIZATION USING HYBRID GENETIC ALGORITHM", INTERNATIONAL JOURNAL ON COMPUTER SCIENCE AND APPLICATIONS,VOL.1, NO. 1, PAGE 51-55, 2008	0974-1003, PEER REVIEWED	-
24.	"HYBRID TESTER - AN AUTOMATED HYBRID GENETIC ALGORITHM BASED TEST CASE OPTIMIZATION FRAMEWORK FOR EFFECTIVE SOFTWARE TESTING", INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE: THEORY AND PRACTICE , VOL.3, NO. 2, PP. 81-94, 2008	0973-5267, PEER REVIEWED	-
25.	"INTELLIGENTESTER –TEST SEQUENCE OPTIMIZATION FRAMEWORK USING MULTI-AGENTS", JOURNAL OF COMPUTERS VOL.3, NO.6, PP. 39-46, 2007	1796-203X, PEER REVIEWED	-

- i. **Total H-index** 8
- ii. **Total i-10 index** 7
- iii. **Total Citation Count** **287**

(f) Publications – Books / Chapters/Conferences

S. No.	PUBLICATION TYPE	TITLE OF THE BOOK CHAPTER / BOOK / CONFERENCE PROCEEDING, WITH YEAR OF PUBLICATION AND OTHER PUBLICATION DETAILS	ISBN / ISSN No.	LEVEL INTERNATIONAL / NATIONAL
Books Published				
1.	TEXT BOOK	OBJECT ORIENTED ANALYSIS AND DESIGN USING UML	ISBN : 978-1-75900624-6	INTERNATIONAL
2.	EDITED BOOK	INTEGRATING THE INTERNET OF THINGS INTO SOFTWARE ENGINEERING BEST PRACTICES	ISBN: 9781522577904	INTERNATIONAL
Chapters Published				
3.	CHAPTER	"INTELLIGENT VULNERABILITY ANALYZER —A NOVEL DYNAMIC VULNERABILITY ANALYSIS FRAMEWORK FOR MOBILE BASED ONLINE APPLICATIONS", LNCS SPRINGER CCIS - SERIES ISSN No: 1865-0929. INDEXED IN DBLP, GOOGLE SCHOLAR, EI-COMPENDEX, MATHEMATICAL REVIEWS, SCIMAGO, SCOPUS	ISSN No: 1865-0929	INTERNATIONAL
4.	CHAPTER	"A STUDY ON SOFTWARE DEVELOPMENT ARCHITECTURES FOR MOBILE CLOUD COMPUTING (MCC) FOR GREEN IT: A CONCEPTUAL MOBILE CLOUD ARCHITECTURE USING ARTIFICIAL BEE COLONY-BASED APPROACH", PUBLISHED IN THE BOOK ON " MODERN SOFTWARE ENGINEERING METHODOLOGIES FOR MOBILE AND CLOUD ENVIRONMENTS", IGI-GLOBAL PUBLISHERS, 2016, ISBN13: 9781466699168	ISBN: 9781466699168	INTERNATIONAL
5.	CHAPTER	"IOT FUNCTIONAL TESTING USING UML USE CASE DIAGRAMS: IOT IN TESTING", IN THE BOOK INTEGRATING THE INTERNET OF THINGS INTO SOFTWARE ENGINEERING BEST PRACTICES	ISBN: 9781522577904	INTERNATIONAL
6.	CHAPTER	"A MULTI AGENT BASED APPROACH FOR CRITICAL COMPONENTS IDENTIFICATION AND TESTING" IN THE BOOK "COMPUTER SYSTEMS AND SOFTWARE ENGINEERING: CONCEPTS, TOOLS AND APPLICATIONS"	ISBN: 9781522539230	INTERNATIONAL
7.	CHAPTER	"E-ASSESSMENT OF COGNITIVE SKILLS IN OUTCOME-BASED EDUCATION FOR OBJECT-ORIENTED PROGRAMMING: A GRADUATE-LEVEL EXPERIMENTAL REPORT", PUBLISHED IN THE BOOK "HANDBOOK OF RESEARCH ON E-ASSESSMENT IN HIGHER EDUCATION" PP.432-453, IGI GLOBAL, (IDEA GROUP, USA), ISBN13: 9781522559368, 2018	ISBN: 9781522559368	INTERNATIONAL
8.	CHAPTER	"KNOWLEDGE ENGINEERING SUPPORT FOR INTELLIGENT SOFTWARE TEST OPTIMIZATION", 211-244, BOOK :KNOWLEDGE ENGINEERING FOR SOFTWARE DEVELOPMENT LIFE CYCLES: SUPPORT TECHNOLOGIES AND APPLICATIONS,	ISBN: 9781609605094	INTERNATIONAL
9.	CHAPTER	"INTELLIGENT TEST SEQUENCE OPTIMIZATION USING GRAPH BASED SEARCHING TECHNIQUE" ,PP. 10-19, INFORMATION SYSTEMS, TECHNOLOGY AND MANAGEMENT, ALLIED PUBLISHERS PVT.LTD,	ISBN: 81-8424-182-8	INTERNATIONAL

10.	CHAPTER	"INTELLIGENT TEST CASE OPTIMIZATION USING HYBRID GENETIC ALGORITHM", PP.669 – 778, MCMILLAN PUBLISHERS	ISBN: 0230-63441-9	INTERNATIONAL
Conference Publications				
11.	CONFERENCE FULL PAPER	"INTELLIGENT VULNERABILITY ANALYZER —A NOVEL DYNAMIC VULNERABILITY ANALYSIS FRAMEWORK FOR MOBILE BASED ONLINE APPLICATIONS", PAPER ACCEPTED IN INTERNATIONAL CONFERENCE ON NEXT GENERATION COMPUTING TECHNOLOGIES (NGCT-2017), ORGANIZED BY UPES, DEHRADUN, 2017	PROCEEDINGS OF NGCT 2017 – ISBN: 978-981-10-8659-5	INTERNATIONAL
12.	CONFERENCE FULL PAPER	"A HYBRID TEST OPTIMIZATION FRAMEWORK USING MEMETIC ALGORITHM WITH CUCKOO FLOCKING BASED SEARCH APPROACH". 37-38,	SBST 2014: - A CO-LOCATED WORKSHOP OF ICSE 2014.	INTERNATIONAL
13.	CONFERENCE FULL PAPER	"CRITICALITY ANALYZER AND TESTER – AN EFFECTIVE APPROACH FOR CRITICAL COMPONENT IDENTIFICATION & VERIFICATION USING ABC", PUBLISHED IN THE BOOK : "ADVANCES IN INTELLIGENT SYSTEMS AND COMPUTING", VOLUME 248, 2014, PP 663-670 LNCS SPRINGER, 2014, DOI 10.1007/978-3-319-03107-1_72,	LNCS - SPRINGER "ICT AND CRITICAL INFRASTRUCTURE": PROCEEDINGS OF THE 48TH ANNUAL CONVENTION OF COMPUTER SOCIETY OF INDIA-, PRINT ISBN 978-3-319-03106-4, ONLINE ISBN 978-3-319-03107-1, SPRINGER	INTERNATIONAL
14.	CONFERENCE FULL PAPER	"STRUCTURAL REFINEMENT: AN EFFECTIVE OCL-BASED TESTING APPROACH", LNCS – SPRINGER BOOK ON ARTIFICIAL INTELLIGENCE AND EVOLUTIONARY ALGORITHMS IN ENGINEERING SYSTEMS-ADVANCES IN INTELLIGENT SYSTEMS AND COMPUTING VOLUME 324, 2015, PP 765-774, SPRINGER	ISBN 978-81-322-2125-8,	INTERNATIONAL
15.	CONFERENCE FULL PAPER	"SOFTWARE COMPONENTS PRIORITIZATION USING OCL FORMAL SPECIFICATION FOR EFFECTIVE TESTING", IEEEEXPLORE, 3RD INTERNATIONAL CONFERENCE ON RECENT TRENDS IN INFORMATION TECHNOLOGY (ICRTIT 2013) CONDUCTED BY ANNA UNIVERSITY 2013,	IEEEEXPLORE DOI: 10.1109/ICRTIT.2013.6844288,	INTERNATIONAL
16.	CONFERENCE FULL PAPER	"MEMETIC TESTER – A MEMETIC ALGORITHM BASED SOFTWARE TEST OPTIMIZATION APPROACH", PROCEEDINGS OF ICETMCA-2010	PROCEEDINGS OF - ICETMCA-2010	INTERNATIONAL
17.	CONFERENCE FULL PAPER	"A NON-PHEROMONE BASED INTELLIGENT SWARM OPTIMIZATION TECHNIQUE IN SOFTWARE TEST SUITE OPTIMIZATION", INTERNATIONAL CONFERENCE ON INTELLIGENT AGENTS AND MULTI AGENTS PP. 15-20	IEEEEXPLORE VOL. No.-978-1-4244-4711-4/09,	INTERNATIONAL
18.	CONFERENCE FULL PAPER	INTELLIGENT TEST SEQUENCE OPTIMIZATION USING GRAPH BASED INTELLIGENT SEARCH AGENT, 22-25	IEEEEXPLORE, VOL .No. 0-7695-3050-8/07 DOI 10.1109 / ICCIMA 2007.109	INTERNATIONAL
19.	CONFERENCE FULL PAPER	CRITICAL COMPONENTS IDENTIFICATION AND VERIFICATION FOR EFFECTIVE SOFTWARE TEST PRIORITIZATION, ICoAC 2011	IEEEEXPLORE, ICoAC 2011	INTERNATIONAL
20.	CONFERENCE FULL PAPER	CRITICAL COMPONENT ANALYZER - A NOVEL TEST PRIORITIZATION FRAMEWORK FOR COMPONENT BASED REAL TIME SYSTEMS, MALYSIAN INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING, ORGANIZED BY IEEE-MALAYSIA AND INSTITUTE OF TECHNOLOGY, MALAYSIA, IEEEEXPLORE	IEEEEXPLORE, MYSEC 2011	INTERNATIONAL

21.	CONFERENCE FULL PAPER	INTELLIGENT TESTER – INTELLIGENT TEST SEQUENCE OPTIMIZATION FRAMEWORK TO ACHIEVE QUALITY IN HIGHLY RELIABLE SYSTEMS, ICRSQE 2008 / PAGE No.669 – 778	BOOK ON “ADVANCES IN PERFORMANCE AND SAFETY OF COMPLEX SYSTEMS”, MACMILLAN PUBLICATIONS, 2008 / ISBN No. 0230-63441-9	INTERNATIONAL
22.	CONFERENCE FULL PAPER	INTELLIGENT TEST SEQUENCE OPTIMIZATION USING GRAPH BASED SEARCHING TECHNIQUE, ICISTM 2007, PP.10-19	BOOK ON “INFORMATION SYSTEMS, TECHNOLOGY AND MANAGEMENT”, 2007 / ISBN 81-8424-182-8, ALLIED PUBLISHERS PVT.LTD,	INTERNATIONAL
23.	CONFERENCE FULL PAPER	SOFTWARE TESTING TECHNIQUES FOR EMBEDDED SYSTEMS: TIME STAMPED GRAY BOX TESTING, PROCEEDINGS OF PMGQ – 2005.	PROCEEDINGS OF PMGQ 2005,	INTERNATIONAL
24.	CONFERENCE FULL PAPER	A NOVEL ALGORITHM TO IMPROVE QoS FOR HETEROGENEOUS MOBILE DEVICES, INTERNATIONAL CONGRESS ON SOFTWARE ENGINEERING, 21-09-2014, PP.101-108, THAILAND	PROCEEDINGS OF INTCONGRESS 14 ISBN – 978-81-929742-3-1	INTERNATIONAL
25.	CONFERENCE FULL PAPER	CRITICAL COMPONENTS IDENTIFICATION FOR EFFECTIVE REGRESSION TESTING, INTERNATIONAL CONGRESS ON SOFTWARE ENGINEERING, 21-09-2014, PP.109-116, THAILAND	PROCEEDINGS OF INTCONGRESS 14 ISBN – 978-81-929742-3-1	INTERNATIONAL
26.	CONFERENCE FULL PAPER	CLIENT SIDE COUNTERMEASURES FOR THE PREVENTION OF SQLIA IN WEB APPLICATIONS, 2017 IEEE INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND COMPUTING RESEARCH (ICCI)	IEEEEXPLORE DOI: 10.1109/ICCI.2017.8524315	INTERNATIONAL
27.	CONFERENCE FULL PAPER	XML BASED WEB SERVICES FOR EMBEDDED APPLICATIONS IN SERVICE ORIENTED COMPUTING, PDLC-2005, ORGANIZED BY PSG COLLEGE OF TECHNOLOGY, COIMBATORE.	PUBLISHED IN THE PROCEEDINGS OF IT ENABLED PRODUCT DEVELOPMENT STRATEGIES IEPDS-2005, PP.87-93, 2005/PROCEEDINGS	NATIONAL
28.	CONFERENCE FULL PAPER	BLUETOOTH SYSTEMS, NATIONAL CONFERENCE ON WIRELESS NETWORKS 2004	PUBLISHED IN THE PROCEEDINGS OF NATIONAL CONFERENCE ON WIRELESS NETWORKS 2004	NATIONAL

7. Pedagogical Experience

- CREATION OF ICT MEDIATED TEACHING-LEARNING PEDAGOGY AND CONTENT DEVELOPMENT OF NEW AND INNOVATIVE COURSES AND CURRICULA (PROVIDE ANNEXURE WHEREVER APPLICABLE/REQUIRED)

a) DEVELOPMENT OF INNOVATIVE PEDAGOGY

S. No.	BRIEF DESCRIPTION	ORGANIZATION FOR WHICH IT WAS DEVELOPED	LEVEL: (PG/UG)
1.	THINK PAIR SHARE	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
2.	FLIPPED CLASSROOM	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
3.	PEER INSTRUCTION	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG

4.	VIDEO PRESENTATION	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
5.	DISCUSSION FORUM	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG

b) DESIGN OF NEW CURRICULA AND COURSES

S. No.	BRIEF DESCRIPTION	ORGANIZATION FOR WHICH IT WAS DEVELOPED	LEVEL: (PG/UG)
2017 - 2018			
1.	SOFTWARE QUALITY AND TESTING	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
2.	OBJECT ORIENTED MODELING AND DESIGN PATTERNS	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
3.	JAVA TECHNOLOGIES	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
4.	INTERNET OF THINGS	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
5.	AGILE SOFTWARE DEVELOPMENT	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
6.	OBJECT ORIENTED PROGRAMMING USING C++	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
7.	OBJECT TECHNOLOGY & UML	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
8.	SOFTWARE ENGINEERING LABORATORY	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
9.	ENTERPRISE APPLICATIONS DEVELOPMENT LABORATORY	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
10.	INTERNET OF THINGS	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
2016 - 2017			
11.	OBJECT ORIENTED PROGRAMMING USING C++	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
12.	OBJECT ORIENTED ANALYSIS AND DESIGN	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
13.	INTERNET AND JAVA PROGRAMMING	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
14.	SOFTWARE ENGINEERING	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
15.	SOFTWARE ENGINEERING LAB	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
2014 - 2015			
16.	DATA STRUCTURES	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
17.	OBJECT ORIENTED PROGRAMMING USING C++	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
18.	INTERNET AND JAVA PROGRAMMING	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
19.	SOFTWARE ENGINEERING	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
20.	INTERNET AND JAVA PROGRAMMING LABORATORY	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
21.	OBJECT ORIENTED ANALYSIS AND DESIGN	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
22.	SOFTWARE PROJECT MANAGEMENT	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG

23.	SOFTWARE ENGINEERING LABORATORY	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
2012 - 2013			
24.	OBJECT ORIENTED ANALYSIS AND DESIGN	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
25.	SOFTWARE ENGINEERING LABORATORY	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
26.	SOFTWARE PROJECT MANAGEMENT	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
27.	SOFTWARE ARCHITECTURE	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
2011 - 2012			
28.	INTERNET AND JAVA PROGRAMMING	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
29.	SOFTWARE ENGINEERING	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
30.	INTERNET AND JAVA PROGRAMMING LAB	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
31.	OBJECT ORIENTED ANALYSIS AND DESIGN	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
32.	SOFTWARE PROJECT MANAGEMENT	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
33.	SOFTWARE ARCHITECTURE	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
34.	SOFTWARE ENGINEERING LABORATORY	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG

c) MOOCs

S. No.	BRIEF DESCRIPTION	ORGANIZATION FOR WHICH IT WAS DEVELOPED	LEVEL: (PG/UG)
1.	MOOC FOR SOFTWARE QUALITY AND TESTING, OBJECT ORIENTED ANALYSIS AND DESIGN, OBJECT ORIENTED PROGRAMMING USING C++, JAVA TECHNOLOGIES, ANDROID BASED MOBILE APPLICATION DEVELOPMENT SOFTWARE TESTING TECHNIQUES OBJECT ORIENTED MODELING AND DESIGN PATTERNS OOP USING CPP	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
2.	CONTENT PREPARED AND PROVIDED AS YOUTUBE VIDEOS AND ONLINE LECTURE NOTES	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG
3.	COURSE COORDINATOR FOR 3 COURSES OF 4 CREDITS EACH PER YEAR COURSE COORDINATOR FOR 3 COURSE OF 3 CREDITS EACH PER YEAR	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG

d) E-CONTENT

S. No.	BRIEF DESCRIPTION	ORGANIZATION FOR WHICH IT WAS DEVELOPED	LEVEL: (PG/UG)
1.	E-CONTENT IN THE FORM OF PPTS, DOCUMENTS, VIDEO LECTURES FROM 2014 ONWARDS	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI	PG

e) ICT TOOLS USED

S. No.	NAME OF THE ICT TOOL	BRIEF DESCRIPTION	LEVEL APPLIED: (PG/UG)
1.	EDMODO	AN LMS AND CMS TOOL FOR ACTIVITY BASED LEARNING	PG

2.	MOODLE	AN EFFECTIVE ICT TOOL FOR ONLINE COURSES PREPARATION AND ACTIVE PARTICIPATION BY THE STUDENTS	PG
3.	GOOGLE CLASSROOM	AN ICT TOOL FOR INTERACTIVE AND BLENDED LEARNING ENVIRONMENT	PG

8. Awards Received

S. No.	NAME OF AWARDS	AWARDING AGENCY	PERIOD		LEVEL: INTERNATIONAL / NATIONAL
			FROM	TO	
1.	TOP PERFORMER AWARD – BLENDED LEARNING (MENTORING THE EDUCATORS)	IIT BOMBAY	2018	2018	NATIONAL
2.	CERTIFICATE OF EXCELLENCE – BLENDED LEARNING (ICT IN TECHNICAL EDUCATION)	IIT BOMBAY	2017	2017	NATIONAL
3.	WHO'S WHO IN SEBASE (SEARCH BASED SOFTWARE ENGINEERING REPOSITORY)	UNIVERSITY COLLEGE OF LONDON, UK	2015	TILL NOW	INTERNATIONAL
4.	BEST TECHNO FACULTY AWARD	ICT ACADEMY OF TAMIL NADU (ICTACT)	2016	2016	NATIONAL
5.	BEST POSTER AWARDEE FOR THE YEAR 2016	INDIAN SCIENCE CONGRESS ASSOCIATION, AN INITIATIVE OF DST, GOVT. OF INDIA	2016	2016	NATIONAL
6.	MENTOR OF FINALISTS IN CSI-INAPP AWARD	COMPUTER SOCIETY OF INDIA AND INAPP, KERALA	2018	2018	NATIONAL
7.	OUTSTANDING WOMEN IN SCIENCE	VENUS INTERNATIONAL FOUNDATION, INDIA	2017	2017	NATIONAL
8.	TRAVEL AWARD TO CHAIR THE INTERNATIONAL CONGRESS ON SOFTWARE ENGINEERING, THAILAND	ASDF, THAILAND	2014	2014	INTERNATIONAL
9.	MARQUIS WHO'S WHO IN THE WORLD	MARQUIS, USA	2019	2019	INTERNATIONAL
10.	MARQUIS WHO'S WHO IN SCIENCE AND ENGINEERING	MARQUIS, USA	2011	2012	INTERNATIONAL
11.	BEST PRACTICE AMONG TOP 27 PRACTICES IN SOFTWARE TESTING TOOL DEVELOPMENT (AMONG INDUSTRY CONTESTANTS)	QAI, USA	2013	2013	INTERNATIONAL
12.	CERTIFICATE OF APPRECIATION FROM IBM FOR MENTOR OF TOP 20 PROJECTS AWARD	IBM, INDIA	2007	2007	NATIONAL
13.	BEST PARTICIPANT RAISED TO INDUSTRIAL STANDARDS	HONEYWELL, MADURAI	2007	2007	NATIONAL
14.	CERTIFICATE OF MERIT IN MTC GOLD MEDAL EXAMINATION	MTC, MADURAI	1991	1991	STATE
15.	CERTIFICATE OF APPRECIATION IN TAMIL	MADURAI TAMIL SANGAM, MADURAI	1991	1991	STATE

9. Visits Abroad

- THAILAND - ASIAN INSTITUTE OF TECHNOLOGY
- PROGRAM CHAIR FOR INTERNATIONAL CONGRESS ON SOFTWARE ENGINEERING

10. Membership/Fellowship of learned/accredited bodies (Give details)

1. ACM – ASSOCIATION OF COMPUTING MACHINERY, MEMBER
2. ACM-W - MEMBER
3. CSI - COMPUTER SOCIETY OF INDIA – LIFE MEMBER
4. ISCA - INDIAN SCIENCE CONGRESS ASSOCIATION – LIFE MEMBER
5. I-SOFT – INDIAN CHAPTER OF ACM-SIG ON SOFTWARE ENGINEERING (SIGSOFT) – MEMBER
6. ACEEE – ASSOCIATION OF COMPUTER ELECTRONICS AND ELECTRICAL ENGINEERS – MEMBER
7. WASET – WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY – MEMBER

11. Competence in Computer Application:

- DOCTORATE DEGREE IN COMPUTER SCIENCE FROM ANNA UNIVERSITY, CHENNAI
- M.PHIL,, M.C.A. AND B.SC. ARE IN COMPUTER SCIENCE
- J2EE (JAVA SERVLETS, JSP, JAVA BEANS ETC.), C#, SQL SEVER 2005, MYSQL SERVER, ORACLE 10G.
- BRAINBENCH CERTIFIED JAVA 1.1 PROGRAMMER
- CERTIFIED ON SOFTWARE TESTING FUNDAMENTALS
- IBM CERTIFIED ASSOCIATE DEVELOPER – WEBSPHERE STUDIO V5.0
- PROGRAMMING SKILL IN PYTHON 3
- SELENIUM TOOL, JUNIT
- DIPLOMA ON VC++ AND JAVA
- ANDROID MOBILE APPLICATION DEVELOPMENT

12. Workshops/Seminars Organized:

- AICTE-QIP SPONSORED ONE WEEK SHORT TERM PROGRAMME ON “DATA SCIENCE FOR IOT” AT THIAGARAJAR COLLEGE OF ENGINEERING
- LDRA SUPPORTED FACULTY DEVELOPMENT PROGRAM ON "SOFTWARE SAFETY AND SECURITY"
- COMPUTER SOCIETY OF INDIA (CSI) SUPPORTED INDIAN CONFERENCE ON 'RESEARCH IDEAS IN SOFTWARE ENGINEERING AND SECURITY' (A RUN-UP EVENT OF ICSE'14) DURING AUG 19TH AND 20TH 2013
- IARCS SUPPORTED "INSTRUCTIONAL COURSE ON RIGOROUS SOFTWARE ENGINEERING"
- “J2EE 1.4 API TECHNOLOGY IN SERVICE ORIENTED COMPUTING”

13. Workshops/Seminars Attended:

- AICTE-QIP SPONSORED ONE WEEK STP ON “PEDAGOGICAL INNOVATIONS AND RESEARCH DIRECTIONS IN STEM EDUCATION”, AT THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI, 25/02/2019 TO 02/03/2019

- AICTE-QIP SPONSORED ONE WEEK STP ON "CONTENT DELIVERY AND ASSESSMENT METHODS IN CS/IT CURRICULUM" AT THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI, 11/02/2019 TO 17/02/2019
- AICTE-QIP SPONSORED ONE WEEK STP ON "RESEARCH ISSUES AND CHALLENGES IN DATA SCIENCE AND BIG DATA ANALYTICS", 18/03/2019 TO 23/03/2019
- IIT-BOMBAYX - FDP301X ON "MENTORING EDUCATORS IN EDUCATIONAL TECHNOLOGY", REMOTE CENTRE AT TCE, 17-05-2018 TO 05-07-2018
- TEQIP SPONSORED WORKSHOP ON "RECENT TRENDS AND RESEARCH CHALLENGES IN DEEP LEARNING", THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI, 30-08-2018 TO 31-08-2018
- TEQIP SPONSORED WORKSHOP ON "BIG DATA ANALYTICS FOR CYBER SECURITY SOLUTIONS", THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI, 18-19/09/2018
- TEQIP SPONSORED WORKSHOP ON "MYTHS AND REALITIES OF R&D AND IPT AT EEs : ISSUES, CHALLENGES AND OPPORTUNITIES", THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI, 13/07/2018, 13-07-2018 TO 13-07-2018
- ICTIEE WORKSHOP ON "OUTCOME BASED EDUCATION PLATFORM", THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI, 08/01/2018
- TEQIP III SPONSORED WORKSHOP ON "FESTIVAL OF LEARNING IOT AND CLOUD", THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI,, 15/11/2018 TO 16/11/2018
- WINTER SCHOOL ON SOFTWARE ENGINEERING, ORGANIZED BY ACM AT TATA RESEARCH DESIGN AND DEVELOPMENT CENTER (TRDDC), PUNE., 11-12-2017 TO 16-12-2017
- IIT-BOMBAYX - FDP201X ON "PEDAGOGY FOR ONLINE AND BLENDED TEACHING-LEARNING PROCESS", REMOTE CENTER AT TCE, 14-09-2017 TO 21-11-2017
- IIT-BOMBAYX - FDP101X ON "FOUNDATION PROGRAM IN ICT FOR EDUCATION", REMOTE CENTER AT TCE, 03-08-2017 TO 12-09-2017
- DST-SERB AND TEQIP SPONSORED STTP ON "BIG DATA AND IOT - THE STRATEGIES FOR SMART ENVIRONMENTS", 17-02-2017 TO 21-11-2017
- TEQIP II SPONSORED ONE DAY WORKSHOP ON "PROJECT MANAGEMENT", AT TCE, 17/03/2017
- TEQIP II SPONSORED ONE DAY WORKSHOP "STANDARD OPERATING PROCEDURE FOR TCE", ORGANIZED BY TCE, MADURAI, 22-11-2016 TO 22-11-2016
- TEQIP II SPONSORED WORKSHOP ON "R SOFTWARE FOR STATISTICAL COMPUTING AND RESEARCH", ORGANIZED BY DEPT.OF MATHEMATICS, TCE, MADURAI , 11-11-2016 TO 11-11-2016
- TEQIP II SPONSORED WORKSHOP ON "ICT TOOLS FOR ENGINEERING EDUCATION", ORGANIZED BY DEPT.OF IT, TCE, MADURAI, 09-11-2016 TO 09-11-2016
- LDRA SUPPORTED FDP ON "SOFTWARE SAFETY AND SECURITY", ORGANIZED BY DEPT.OF CA, TCE, MADURAI, 09-09-2016 TO 09-09-2016
- 103RD INDIAN NATIONAL CONGRESS, ORGANIZED BY INDIAN SCIENCE CONGRESS ASSOCIATION, (AN INITIATIVE OF DST) AT UNIVERSITY OF MYSORE, MYSURU, 05-01-2016 TO 07-01-2016
- IEEE-WOMEN IN ENGINEERING ORGANIZED "INTERNATIONAL LEADERSHIP SUMMIT 2015", CHENNAI, TAMIL NADU, INDIA, 11-09-2015 TO 12-09-2015
- TWO WEEK ISTE MAIN WORKSHOP ON "CYBER SECURITY" - ORGANIZED BY IIT BOMBAY, 20-07-2014 TO 30-07-2014
- INDO-US COLLABORATED WORKSHOP ON "SOFTWARE ENGINEERING", THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI, JAN 2010
- SDLC AND PROJECT MANAGEMENT-BEST PRACTICES, TCS, THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI. , 27/07/2008 TO 28/07/2007
- INDO-US COLLABORATION WORKSHOP ON SOFTWARE ENGINEERING, INFOSYS- MYSORE, JULY 2007
- APPLICATION OF EVOLUTIONARY COMPUTATION TO ENGINEERING OPTIMIZATION PROBLEMS, THIAGARAJAR COLLEGE OF ENGINEERING, 28/05/2007 TO 01/06/2007
- INDUSTRY-ACADEMIA INTERACTION WORKSHOP ON OBJECT ORIENTED AND PROCESS FOCUSED IMPLEMENTATION USING C++, HONEYWELL, CII, MADURAI, 26/02/2007 TO 03/03/2007 & 07/05/2007 TO 11/05/2007
- SOFTWARE QUALITY, ACCENTURE, ANNA UNIVERSITY, CHENNAI, 25/08/2006 TO 26/08/2006

- OBJECT ORIENTED ANALYSIS AND DESIGN USING UML WITH FUNDAMENTALS OF RATIONAL ROSE, IBM @ COIMBATORE INSTITUTE OF TECHNOLOGY, 09/05/2006 TO 12/05/2006
- IBM TIVOLI REACH PROGRAM 2006, THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI. , 22/04/2006 TO 23/04/2006
- SOFTWARE QUALITY ASSURANCE AND TESTING, ANNA UNIVERSITY, CHENNAI, 20/02/2006 TO 04/03/2006
- ROBOTICS AND TELEMATICS , THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI. , 30/11/2005
- MICROSOFT SPONSORED WORKSHOP ON MICROSOFT SQL SERVER, WINDOWS 2003 SERVER AND ISA SERVER, THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI. , 30/05/2005 TO 31/05/2005
- VIRTUAL LAB, THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI. , 23/02/2005
- DATA MINING AND DATA WAREHOUSINGAICTE SPONSORED SHORT-TERM COURSE., THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI. , 18/11/2004 TO 19/11/2004
- PROFESSIONAL ETHICS, ANNA UNIVERSITY, CHENNAI, 28/06/2004 TO 03/07/2004
- CLIENT SERVER COMPUTATION, PSGR KRISHNAMMAL COLLEGE FOR WOMEN, 21/02/2003
- NEURAL NETWORKS AND FUZZY LOGIC, LADY DOAK COLLEGE, MADURAI, 01/02/2003
- INTEL TEACH TO THE FUTURE, LADY DOAK COLLEGE, JULY 2002 - SEPT 2002
- VLSI AND EMBEDDED SYSTEMS, MEPCO SCHLENK ENGINEERING COLLEGE, 28/02/2002 TO 02/03/2002

14. BOS Member / Academic Audit Member:

- BOS MEMBER - MEPCO SCHLENK ENGINEERING COLLEGE
- BOS MEMBER - KONGU COLLEGE OF ENGINEERING
- BOS MEMBER (ALUMNAE) -FATIMA COLLEGE
- ACADEMIC AUDIT MEMBER - PERIYAR MANIYAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY, TANJORE

15. Reviewer in International Journals

- IEEE TRANSACTIONS ON SOFTWARE ENGINEERING,
- IET – SOFTWARE
- ELSEVIER INS JOURNAL, JOURNAL OF KING SAUD UNIVERSITY –COMPUTER AND INFORMATION SCIENCES, ETC.,
- SPRINGER JAAMAS JOURNAL
- SPRINGER – NEURAL COMPUTING JOURNAL
- SPRINGER - JZUS JOURNAL
- INTERNATIONAL JOURNAL OF METAHEURISTICS
- IGI GLOBAL PUBLISHERS
- ETC.

16. Invited Talks in Advanced Research

S. No.	TITLE OF THE INVITED LECTURE/PAPER PRESENTED	TITLE OF CONFERENCE/ SEMINAR ETC.	ORGANISED BY	DATE OF PRESENTATION
INTERNATIONAL (ABROAD) LEVEL				
1.	INVITED LECTURE AT MLIS CONFERENCE, TAIWAN	INTERNATIONAL CONFERENCE ON MACHINE LEARNING AND INTELLIGENT SYSTEMS (MLIS 2009)	NATIONAL DONG HWA UNIVERSITY, TAIWAN	19.11.2019 - 23.11.2019 (TO START)

2.	KEY NOTE ADDRESS ON "SOFTWARE ENGINEERING RESEARCH"	INTERNATIONAL CONGRESS ON SOFTWARE ENGINEERING	ASDF, THAILAND	19.11.2014
3.	CONFERENCE CHAIR ADDRESS	INTERNATIONAL CONGRESS ON SOFTWARE ENGINEERING	ASDF, THAILAND	19.11.2014 - 21.11.2014
NATIONAL LEVEL				
4.	INVITED TALK ON "SEARCH BASED SOFTWARE TESTING" AT SERI 2019	ACM - INDIAN SIG ON SOFTWARE ENGINEERING (SIGSOFT)	IISc BANGALORE	14.07.2019 (TO START)
5.	GREEN SOFTWARE TESTING ON THE CLOUD	SESSION CHAIR ADDRESS	PES INSTITUTE OF TECHNOLOGY, BANGALORE - NATIONAL CONFERENCE ON SOFTWARE TESTING	18.10.2013
6.	.NET ARCHITECTURE	NATIONAL LEVEL SEMINAR	K.L.N. COLLEGE OF INFORMATION TECHNOLOGY	03.04.2012
7.	GENETIC ALGORITHMS AND THEIR APPLICATIONS	NATIONAL LEVEL WORKSHOP ON SOFT COMPUTING	PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY, DINDIGUL	14.03.2008 & 15.03.2008
8.	SOFTWARE ENGINEERING	NATIONAL LEVEL IUCEE LECTURE	THIAGARAJAR COLLEGE OF ENGINEERING	31.01.2009
STATE LEVEL				
9.	VALEDICTORY ADDRESS	TECHMEET 2018	FATIMA COLLEGE, MADURAI	31.08.2018
10.	BUSINESS ANALYTICS - ASSOCIATION VALEDICTORY ADDRESS	ASSOCIATION VALEDICTORY ADDRESS	LADY DOAK COLLEGE, MADURAI	27.11.2017
11.	INDUSTRIAL PERSPECTIVE OF SOFTWARE ENGINEERING	STATE LEVEL SEMINAR ON "INDUSTRIAL PERSPECTIVE OF SOFTWARE DEVELOPMENT LIFECYCLE"	MANGAYARKARASI COLLEGE OF ARTS AND SCIENCE FOR WOMEN	31.01.2015
12.	GREEN IT THROUGH MOBILE COMPUTING	ASSOCIATION VALEDICTORY ADDRESS	THE AMERICAN COLLEGE, MADURAI	12.08.2014
13.	WEB APPLICATION TESTING	UGC SPONSORED STATE LEVEL WORKSHOP ON "WEB ENGINEERING"	MEENAKSHI ARTS AND SCIENCE COLLEGE	10.03.2010
14.	SOFTWARE DEVELOPMENT – MYTHS AND REALITY	STATE LEVEL TECHNICAL MEET	PANDIAN SARASWATHU YADHAV ENGINEERING COLLEGE, SIVAGANAGAI	04.03.2010
15.	WML AND WAP	STATE LEVEL SEMINAR ON "MOBILE COMPUTING"	LADY DOAK COLLEGE, MADURAI	09.08.2007
UNIVERSITY LEVEL				
16.	INVITED LECTURE ON "OOAD USING UML"	LECTURE SERIES	PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY, DINDIGUL	28.03.2018

17.	GUEST LECTURE ON "OBJECT ORIENTED ANALYSIS AND DESIGN - MAPPING UML AND CODE IMPLEMENTATION"	LECTURE SERIES	KLN INSTITUTE OF TECHNOLOGY, SIVAGANGAI	27.08.2018
18.	SILVER JUBILEE ENDOWMENT LECTURE	GOLDEN JUBILEE ENDOWMENT LECTURE SERIES	FATIMA COLLEGE, MADURAI	10.02.2017
19.	ANDROID BASED MOBILE APPLICATION DEVELOPMENT	LECTURE SERIES	GOVT.COLLEGE OF ENGINEERING (GCE), TIRUNELVELI	19.02.2016
20.	SPECIAL LECTURE ON "WEB ANALYTICS"	SPECIAL LECTURE	MADURAI SIVAKASI NADARS PIONEER MEENAKSHI WOMEN'S COLLEGE, POOVANTHI	26.07.2016
21.	SOFTWARE TESTING AND QUALITY ASSURANCE	LECTURE SERIES	KAMARAJ COLLEGE OF ENGINEERING, VIRUDHUNAGAR	21.01.2011
22.	SOFTWARE ENGINEERING	RESOURCE PERSON FOR TCS RECRUITED STUDENTS AT TCE	THIAGARAJAR COLLEGE OF ENGINEERING	05.12.2005

17. Other Laurels / Recognitions received - Authored Book in Syllabus of Reputed Institutions:

THE BOOK AUTHORED HAS BEEN PRESENT IN THE SYLLABUS OF THE FOLLOWING UNIVERSITIES / INSTITUTIONS:

- UNIVERSITY OF KENT, UK
- UNIVERSITI MALAYSIA, PAHANG
- BHARATHIDASAN UNIVERSITY, TRICHY, (MCA SYLLABUS)
- BMS COLLEGE OF ENGINEERING, BANGALORE (AFFILIATED TO VTU),
- JECRC UNIVERSITY, SCHOOL OF ENGINEERING, 2016

18. Administrative Positions

- NAAC – R&D COORDINATOR
- SINGLE NODAL PERSON OF CONTACT FOR MICROSOFT (FROM 2007 TO 2009)
- CERTIFICATION EXAMS CONDUCTED ON .NET FROM MICROSOFT AND SOFTWARE TESTING FROM HP
- LAB-IN-CHARGE (BUSINESS ANALYTICS LAB)
- R&D COORDINATOR
- PROJECT IN-CHARGE
- INTERNAL TEST IN-CHARGE
- EXAM ANALYSIS IN-CHARGE
- SIG IN-CHARGE
- ASSOCIATION CONTESTS QUIZ, SDLC IN-CHARGE
- PURCHASE COMMITTEE MEMBER

MENTORING

- MENTOR OF PG FINAL YEARS

- GUIDE FOR STUDENTS PROJECTS IN NATIONAL LEVEL PROJECT CONTESTS
- EPICS PROJECT MENTOR
- CSI-INAPP PROJECT MENTOR (SELECTED AS FINALISTS)
- IIT-BOMBAY “IOT CHALLENGE CONTEST” MENTOR (SELECTED FOR FINAL ROUND AMONG 5 TEAMS)
- MENTOR OF L7 HACKATHON (AWARD RECEIVED)
- MENTOR OF SMART INDIA HACKATHON TEAMS (THREE TEAMS HAVE PARTICIPATED)

19. Extra-Curricular Activities

- NSS ACTIVITIES - PARTICIPATED IN EDUCATION OUTREACH PROGRAMMES AS PART OF NSS ACTIVITIES AT UG LEVEL
- SPORTS – CHESS

20. Tools Developed:

- JIMPACT ARBITOR – A TOOL FOR CRITICAL COMPONENTS IDENTIFICATION AND TESTING USING HYBRID GENETIC ALGORITHM IS DEVELOPED USING JAVA ALONG WITH STUDENTS TEAM
- THIS TOOL AUTOMATICALLY EXTRACTS THE CONNECTED COMPONENTS IN A PACKED SOFTWARE PRODUCT, GENERATES A DEPENDENCY GRAPH, GENERATES TEST CASES, USING HYBRID GENETIC ALGORITHM (HGA), GENERATES MUTANTS AND FINALLY AUTOMATICALLY EXECUTES THE TEST CASES AND GENERATES A TEST REPORT.
- IC TESTER – A TOOL FOR CRITICAL COMPONENTS IDENTIFICATION AND TESTING USING ARTIFICIAL BEE COLONY ALGORITHM (ABC) IS DEVELOPED USING JAVA ALONG WITH STUDENTS TEAM
- THIS TOOL FINDS THE COMPLEXITY AND SEVERITY LEVEL OF ALL THE COMPONENTS IN THE SOFTWARE AND THEN GENERATES A PRIORITIZED LIST OF CRITICAL COMPONENTS. THEN IT APPLIES ABC TO GENERATE THE TEST CASES AND EXECUTE THEM ON THE SOFTWARE TO ENSURE BRANCH COVERAGE BASED TEST ADEQUACY. THIS TOOL ALSO FINALLY GENERATES A TEST REPORT TO THE TESTERS AUTOMATICALLY