

Dr. B. Balakumar B.Tech., M.Tech., Ph.D

Assistant Professor, Grade III – Senior Grade

Centre for Information Technology and Engineering, Manonmaniam Sundaranar University,
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CAREER OBJECTIVE:

To work for an organization that promotes professional excellence so that I can learn and give my best for a mutually beneficial and satisfying career.

PERSONAL SKILLS:

Comprehensive problem solving abilities, excellent verbal communications skill, Ability to deal with diplomatically, Willingness to learn.

ACADEMIC RECORDS:

Course	Name of the School/ College	Name of the Board/University	Year of Passing
Doctor of Philosophy (PhD) - Highly Recommended Computer and Information Technology	Manonmaniam Sundaranar University, Tirunelveli	Manonmaniam Sundaranar University, Tirunelveli	2019
M. Tech Computer and Information Technology (With Distinction)	Manonmaniam Sundaranar University, Tirunelveli	Manonmaniam Sundaranar University, Tirunelveli	2006
B. Tech Electronics and Communications	National Institute of Technology (Formally called Regional Engineering College, Hamirpur Himachala Pradesh	Himachala Pradesh University	2003
HSC Maths and Science First Group	T.N. P.M.M.N. Hr. Sec. School, Dhalavaipuram,	Tamil Nadu State Board	1996
SSLC As Per Tamil Nadu State Board Syllabus	T.N. P.M.M.N. Hr. Sec. School, Dhalavaipuram,	Tamil Nadu State Board	1994

EXPERIENCE:**APPOINTMENTS HELD PRIOR TO JOINING THIS INSTITUTION:**

Designation	Name of the Institution	Date of Joining		Salary with Grade Pay	Reason of leaving
		Joining	Leaving		
Lecturer	Latha Madhavan Polytechnic College, Alagar Kovil Madurai	Feb 2004	July 2004	6000/-	For Higher Studies
Lecturer	Nehru Institute of Engineering & Technology, Coimbatore	June 2006	Feb 2008	12000/-	Appointed as Assistant Professor in Infant Jesus College of Engineering, Keelavallanadu, Tuticorin,
Assistant Professor	Infant Jesus College of Engineering, Keelavallanadu, Tuticorin	Aug 2008	19.12.2009	16000/-	Appointed as Assistant Professor on regular basis in CITE, MSU
Assistant Professor	Manonmaniam Sundaranar University	21.12.2009	Till date	15600-39100 + AGP 6,000/-	--

POSTS HELD AFTER APPOINTMENT AT THIS INSTITUTION:

Designation	Department	Date of actual Joining		Salary with Grade Pay
		From	To	
Assistant Professor (Stage I)	Centre for Information Technology and Engineering	21.12.2009	20.12.2014	Pay Band 15600-39100+AGP 6000
Assistant Professor (Stage II)	Centre for Information Technology and Engineering	21.12.2014	20.12.2019	Pay Band 15600-39100+AGP 7000
Assistant Professor (Stage III)	Centre for Information Technology and Engineering	21.12.2019	20.12.2022	

TEACHING EXPERIENCE:

P.G. Classes (in years) - 13 years
 U.G. Classes (in years) - 16 years

FIELDS OF SPECIALIZATION UNDER THE SUBJECT / DISCIPLINE:

- Digital Signal & Image Processing
- Computer Networks
- Computer Communication
- Big Data Security
- Cloud Computing
- Internet of things
- Cyber Security

UGC / AICTE / ISTE/ NITT RECOGNIZED ORIENTATION / REFRESHER / WINTER / SUMMER COURSES ATTENDED :

Name of the Course / Summer School	Organized by	Duration		Sponsoring Agency
		From	To	
REFRESHER COURSE - 1 I) UGC Academic Staff College, Himachal Pradesh University, Summer Hill, Shimla – 171 005	Shimla, Himachal Pradesh	25.08.2014	20.09.2014	Manonmaniam Sundaranar University, Tirunelveli
CERTIFICATE COURSE Course 1: Master in Software Engineering, May 2012 in Apollo Computer Education Ltd. Course 2: Master in System Engineering & Networking, Dec -2012 in Apollo Computer Education Ltd.,		December, 2011	May, 2012	Apollo Computer Education Private limited Tirunelveli (6 Months)
MOOCs Course - 1 II) This is to certify that Dr. B. Balakumar successfully completed and received a passing grade in DAT101x: Introduction to Data Science a course of study offered by Microsoft, an online learning initiative of Microsoft Corporation, VALID CERTIFICATE ID 4213a1e69f344676a297a9963e0e7605 EDX VERIFIED CERTIFICATE Issued November 22, 2019	International MOOC Course EDX VERIFIED CERTIFICATE Issued November 22, 2019 (Six weeks Course)	11.10.2019	22.11.2019	SELF (43 Days)
MOOCs Course - 2 III) This is to certify that Dr. B. Balakumar successfully completed and received a passing grade in CYB001x: Introduction to Cybersecurity a course of study offered by Washington, an online learning initiative of University of Washington VALID CERTIFICATE ID 823f6730415c4e0aa9fec5d053435c7b EDX VERIFIED CERTIFICATE Issued December 11, 2019	International MOOC Course EDX VERIFIED CERTIFICATE Issued December 11, 2019 (Four Weeks Course)	11.11.2019	09.12.2019	SELF (29 Days)
FACULTY INDUCTION / ORIENTATION PROGRAM - 1	Teaching Learning Centre, Ramanujan College, University of Delhi, Under the aegis of “MINISTRY OF EDUCATION”, “PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING” (4 WEEKS), Successfully completed a 4- week “FACULTY IN UNIVERSITIES / COLLEGES / INSTITUTES OF HIGHER EDUCATION” from 21 November – 20 December, 2022	21/11/2022	20/12/2022	SELF (4 WEEKS)

SCIENTIFIC AND PROFESSIONAL MEMBERSHIPS:

- Member, Institute of Electrical and Electronic Engineering (IEEE).
- Life Member, Computer Society of India (CSI).

PAPERS PUBLISHED IN JOURNALS:

S. No	Title, Vol., Page No. & Year	Journal	ISSN/ ISBN No	Whether peer reviewed, Impact Factor, if any	No. of co-authors	Whether you are the First/ Principal/ Corresponding author/ Supervisor / Mentor
1	Abnormality Segmentation and Classification of Brain MR Images using Combined Edge, Texture Region Features and Radial basis Function & 6(21): 4040-4045, November 20, 2013	Research Journal of Applied Sciences, Engineering and Technology (Scopus Indexed Journal)	ISSN: 2040-7459; e-ISSN: 2040-7467	Yes Impact factor = 0.28	01	First Author
2	Kernel Analysis Mercer's Theorem on Matrix Model Ependymomas Tumour in MR Brain Image & Vol.9, N.6. June 2014	International Review on Computers and software (Scopus Indexed Journal)	ISSN: 1828-6003	Yes Impact factor 0.486	02	Second Author
3	An Automatic Brain Tumor Detection and Segmentation Scheme for Clinical Brain Images & IJETCAS 14-313; March - May 2014	International Journal of Emerging Technologies in Computational and Applied Sciences	ISSN (Print): 2279-0047, ISSN (Online) : 2279-0055	Yes Impact factor = 1.237	03	First Author
4	Integrating Spatial Fuzzy Clustering with Level Set Methods For Liver Segmentation From Computed Tomography Scans & Vol.1, No.1, August 2014	Computer Applications: An International Journal (CAIJ)	ISSN 2393 - 8455	1.4	01	First Author
5	Neuro brain MRI anatomical labeling structures segmentation using adaptive interactive algorithm, April 2015	International Journal of Computer Application	2250 - 1797	2.52	01	First Author
6	An Integrated method of MRI Brain Image Segmentation using Biosfield Correction based Modified FCM algorithm, April 2015	International Journal of Emerging Trends in Engineering and Development	2249 - 6149	2.87	01	First Author

7	Automatic Morphology –based MRI Brain Segmentation Edge Detection with Neural-Network Optimization, April 2015	International Journal of Applied Engineering Research (Scopus Indexed Journal)	0973 - 4562	0.13	01	First Author
8	Automated Detection of Gray Matter in MRI Brain Tumor Segmentation and Deep Brain Structures Based Segmentation Methodology, April 2015	Middle East Journal of Scientific Research (ISI Thomson Reuters Indexing)	1990 - 9233	0.29	01	First Author
9	An Efficient Lung Image Tuberculosis Chest Radiographs segmentation and classification using graph cut AAM and Support Vector Machine, June-July 2015.	International Journal of Emerging Trends in Engineering and Development	2249 - 6149	2.87	01	First Author
10	Automatic Brain Tumor MR Image Segmentation performance analysis using threshold and genetic algorithm, June-July 2015.	International Journal of Emerging Trends in Engineering and Development	2249 - 6149	2.87	01	First Author
11	“An Enhanced Brain Tumor MRI Segmentation and Classification using Morphological and Support Vector Machine” Edition: (Issue 7, Volume 2) March-April 2017.	International Journal of Computer Application (IJCA)	2250-1797	3.12	01	First Author
12	“An Automatic Brain Tumor MR Image Segmentation and Classification based on LIPC and ANFIS” Edition: (Issue 7, Volume 2) March-April 2017.	International Journal of Computer Application (IJCA)	2250-1797	3.12	01	First Author
13.	“An Efficient Automatic Brain Tumor MR Image Segmentation and Classification using GLCM based adaptive Neuro-Fuzzy Inference System” Edition: (Issue 6, Volume 2) March-April 2016.	International Journal of Emerging Trends in Engineering and Development	2250-1797	3.12	01	First Author
14	“Brain tumor heterogeneous MR Image Detection and segmentation based on Gabor filter and LIPC” Edition: (Issue 7, Volume 2) March-April 2017	International Journal of Computer Application (IJCA)	2250-1797	3.12	01	First Author

15	“Novel Detection of Selective Forwarding Attacks Using CRS-A”, Volume 3, Issue 5, May 2017.	International journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE)	ISSN (Print): 2454-9762. ISSN (Online): 2454-9762	1.12	02	First Author
16	“A Patch Based Approach For the Segmentation of Pathologies: Application to Glioma Labeling, Volume 4, Issue 2, April 2017.	Elysium Journal of Engineering Research & Management	P- ISSN: 2347-4408. E-ISSN: 2347-4734	1.23	02	First Author
17	“Brain Tumor Classification Using Machine Learning Algorithms”, Volume 4, Issue 2, April 2017.	Elysium Journal of Engineering Research & Management	P-ISSN: 2347-4408. E-ISSN: 2347-4734	1.23	02	First Author
18	Automatic MRI Gray Matter Brain Tumor Detection of Segmentation and Deep Brain Structures Based Segmentation Methodology, Volume 1, Issue 2, December 2017.	International Journal of Medical Histology and Embryology	P-ISSN: 2552-4607. E-ISSN: 2474-4346	1.36	02	First Author
19	A Review on IDEA, AES and Blowfish for Image Encryption and Decryption, Volume-4, Issue-2, March- April 2018	International Journal of Advance Research, Ideas and innovations in Technology	ISSN: 2454-132X	4.295	03	Second Author
20	A Study of Encryption Algorithms (DES, 3DES and AES) for Information Security, Volume-5, Issue-4, April 2018	International Research Journal of Engineering and Technology (IRJET)	P- ISSN: 2395-0072. E-ISSN: 2395-0056	6.171	03	Second Author
21	Predicting Housing Prices using Machine Learning Techniques	South Asian Journal of Research in Engineering Science and Technology Available online: http://sajrest.com/volume-4-issue-4-april-2019/	Issue 4, Vol.4 (April-2019) ISSN: 2455-9261	3.52	03	First Author
22	Mobile Price Prediction using Machine Learning	South Asian Journal of Research in Engineering Science and Technology Available online: http://sajrest.com/volume-4-issue-4-april-2019/	Issue 4, Vol.4 (April-2019) ISSN: 2455-9261	3.52	03	First Author

23	Prediction of Survivors in Titanic Dataset: A Comparative Study using Machine Learning Algorithms	South Asian Journal of Research in Engineering Science and Technology Available online on: http://sajrest.com/volume-4-issue-4-april-2019/	Issue 4, Vol.4 (April-2019) ISSN: 2455-9261	3.52	03	First Author
24	Advance Data Security Cloud Computing by AES and DES Hybrid Algorithm	South Asian Journal of Research in Engineering Science and Technology Available online on: http://sajrest.com/volume-4-issue-4-april-2019/	Issue 4, Vol.4 (April-2019) ISSN: 2455-9261	3.52	03	First Author
25	Kernel Nearest Neigh-Bour Based Genetic Algorithm and Modified Kernel-Based Fuzzy C-Means Based MRI Image Brain Tumor Segmentation and Classification	International Journal of Scientific & Technology Research (Scopus Indexed Journal & UGC CareList)	VOLUME 9, ISSUE 02, FEBRUARY 2020 ISSN 2277-8616	7.466	02	First Author
26	A Novel Automated Identification of Intima Media Thickness in Ultrasound Artery Images Using Grey and White Matter	TEST Engineering & Management (Scopus Indexed Journal)	ISSN0193-4120	1.5	02	First Author
27	A Framework for Secure Data Acquisition In VANET	International Journal for Research in Applied Science & Engineering Technology UGC Approved Journal	ISSN: 2321-9653, Volume 9, Issue IX, September 2021	7.429	02	First Author
28	“Efficiency Improvement of Switched Reluctance Motor for Electric Vehicle Applications” September 2021	Science, Technology and Development Journal UGC CARE APPROVED Paper Accepted	ISSN NO:0950-0707	6.1	02	First Author
29	Comparison of Feature Selection and Classification Algorithms in Insurance Fraudulent Dataset	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE)	ISSN (Online): 2454-9762 ISSN (Print): 2454-9762, Vol. 7, Issue 10, October 2021	4.231	02	First Author

30	A Novel Deduplication Technique on Encrypted Big Data in Cloud	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE)	ISSN (Online): 2454-9762 ISSN (Print): 2454-9762, Vol. 7, Issue 11, November 2021	4.231	02	First Author
31	A Novel Deduplication Technique on Encrypted Big Data in Cloud Using Secure Dekey Methodology	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE)	ISSN (Online): 2454-9762 ISSN (Print): 2454-9762, Vol. 8, Issue 1, January 2022	4.231	02	First Author
32	Insurance fraud Detection Using Machine Learning Technique Vol.7, Issue 10, Oct 2021	Indonesian Journal of Electrical Engineering and Informatics (IJEI)	ISSN: 2089-3272	0.98	02	Second Author (Published)
33	Fraud Insurance Claim analysis using XG Boost Algorithm	International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications (IJARIDEA)	ISSN (Online) : 2456 – 8805 Vol.7, Issue 3, 27 June 2022, Pg. 12 – 16.	1.2	02	Second Author
34	Insurance Fraud Detection using Novel Machine Learning Technique Vol.10 No.2(2022), Aug 17, 2022	International Journal of Intelligent Systems and Applications in Engineering (IISAE) – (Scopus Indexed)	ISSN: 2147 - 6799	0.546	02	Second Author
35	“Approaches for IOT Cyber Security Analysis using various machine Learning”. Volume 13, Number 01, March 2023	Scope International Journal (SCOPUS INDEXED)	ISSN: 11775653 (P) 11775661(0)	0.123	02	Second Author
36	“AN IOT-BASED RECENT SURVEY ON CYBER SECURITY”. VOLUME 18, NUMBER 06, JUNE – 2023 (DOI 10.17605/OSF.IO/YSZDC)	The Seybold Report International Journal (SCOPUS Indexed)	ISSN: 1533-9211	0.104	02	Second Author
37	“Cyber security Named Entity Recognition of Indian Languages Using Modified deep learning”	Multimedia Tools and Applications (SCOPUS INDEXED)	ISSN: 1573-7721	1.2	03	Second Author

38	“CSAD- Cyber Security Hybrid Learning Models for Detecting Aggression in Social Media”	Sadhana (SCOPUS INDEXED)	ISSN:0256:2499	1.5	03	Second Author
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FULL PAPERS IN CONFERENCE PROCEEDINGS:

S. No.	Title with Page Nos. and Year	Details of Conference publication	ISSN/ ISBN No	No. of co-authors	Whether you are the First/ Principal/ Correspondence author/ Supervisor / Mentor
1	Marking the Eye Boundary Region For Future Feature Analysis pp. 1115-1118,28 –29 December 2010	2010 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) inTamilnadu College of Engineering, Coimbatore, Tamilnadu, India	ISBN: 978-1-4244-5967-4/10/\$26.00 ©2010 IEEE	01	First Author
2	Histogram Approach Based Face Identification pp.985-98928 – 29 December 2010	2010 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) inTamilnadu College of Engineering, Coimbatore, Tamilnadu, India	ISBN:978-1-4244-5967-4/10/\$26.00 ©2010 IEEE	01	First Author
3	Effective Dislodging of the Brain Tumor Image in three- dimensional MR Images pp.1215 – 1223	2011 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) during 15 – 18 December 2011 in Cape Institute of Technology, Kanyakumari, Tamilnadu,India	ISBN: 978-1-61284-766-5/11/\$26.0© 2011, IEEE	01	First Author
4	White Matter Neoplasm of FLAIR MRI Confront in Vigorous Dissectionpp. 855-864	2011 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) during 15 – 18 December 2011 in Cape Institute of Technology, Kanyakumari, Tamilnadu,India	ISBN: 978-1-61284-766-5/11/\$26.0© 2011, IEEE	01	First Author
5	Face Recognition system using iterated contextual Dissimilarity search strategy pp.2	2nd “International Conference On Intelligent Information Systems and Management”held during 14-16, July2011 in RVS College of Engineering and Technology, Coimbatore, Tamilnadu, India.	ISBN:978-1-4507-8483-2©2011 Published by Coimbatore Institute of Information Technology	01	First Author

6	Automatic Morphology based MRI Brain Segmentation using Neural Network Optimization pp.768 – 773 during 20th –22nd December 2013	“International Conference On future computing”, ICFC-2013 on 20th-22nd December 2013 organized by Department of master of computer Applications, RV college of Engineering, Bangalore-59.		01	First Author
7	A Novelty Approachon Matrix Model for Magnetic Resonance Image Segmentationfor Assorted Datasets pp.206 – 211, 2014	International Conference on Innovative Trends in Computing & Technology onMarch 7th & 8th, 2014 at The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT		02	First Author
8	Assimilated Strong Fuzzy C-means in Medical Data Scrutiny for MR Images pp. 212 – 220, 2014	International Conference on Innovative Trends in Computing & Technology onMarch 7th & 8th, 2014 at The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT		02	First Author
9	Cellular Based Seeded Tumor Segmentation Methodon Contrast EnhancedT1 Weighted MR Images pp. 221 – 225, 2014	International Conference on Innovative Trends in Computing & Technology onMarch 7th & 8th, 2014 at The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT		02	First Author
10	Effective Dislodgingof the Brain Tumor Image in three dimensional MR Images pp. 226 – 235, 2014	International Conference on Innovative Trends in Computing & Technology onMarch 7th & 8th, 2014 at The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT		02	First Author
11	Permutation Analysisof Functional Magnetic ResonanceMedical Image Classification pp. 236 – 242, 2014	International Conference on Innovative Trends in Computing & Technology on March 7th & 8th, 2014 at The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT		02	First Author

12	Systematized Brain Structure Dissection in Atlas Registration pp. 243 – 252, 2014	International Conference on Innovative Trends in Computing & Technology on March 7th & 8th, 2014 at The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT		02	First Author
13	White Matter Neoplasm of FLAIR MRI Confront in Vigorous Dissection pp. 253 – 263, 2014	International Conference on Innovative Trends in Computing & Technology on March 7th & 8th, 2014 at The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT		02	First Author
14	A Novel Tumor Segmentation Technique on Contrast Improved T1 Weighted Magnetic Resonance Images pp. 23, 2014	National Conference on Advances in Computing Technologies conducted by PG Department of CSE, Hindustan Institute of Technology, Coimbatore On 11th & 12th March 2014		01	First Author
15	A Novel Automatic Kidney Parenchyma Volumetry on preceding form Level Set Segmentation technique pp. 24, 2014	National Conference on Advances in Computing Technologies conducted by PG Department of CSE, Hindustan Institute of Technology, Coimbatore On 11th & 12th March 2014		01	First Author
16	Dermoscopic Implementation and Classification on Melanoma Disease Using Gradient Boost Classifier	Computational Imaging and Analytics in Biomedical Engineering Algorithms and Applications	October 2023	04	First Author
17	“Analysis of Coverage in LoRa using secured IOT Systems”.	E3S web of conferences 399, 04001(2023) ICONNECT – 2023 http://doi.org/10.1051/e3Sconf/202339904001 License: CC BY 4.0 ICONNECT - 2023	JULY 2023	02	Second Author

PAPERS PRESENTED IN CONFERENCES, SEMINARS, WORKSHOPS, SYMPOSIA:

S. No.	Title of the Paperpresented	Title of Conference / Seminar & Date	Organized by	Whether International / National / State /Regional/ College or University level
1	Marking the Eye Boundary Region For Future Feature Analysis (Conference – 1)	2010 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) During December 28-29, 2010	Tamilnadu College of Engineering, Coimbatore, India	International
2	Histogram Approach Based Face Identification (Conference – 1)	2010 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) During December 28-29, 2010	Tamilnadu College of Engineering, Coimbatore, India	International
3	Effective Dislodging of the Brain Tumor Image in three-dimensional MR Images (Conference – 2)	2011 IEEE International Conference on Computational Intelligence and Computing Research, during December 15-18 2011	Cape Institute of Technology, Levensipuram, Kanyakumari – 627114	International
4	White Matter Neoplasm of FLAIR MRI Confront in Vigorous Dissection (Conference – 2)	2011 IEEE International Conference on Computational Intelligence and Computing Research, during December 15-18 2011	Cape Institute of Technology, Levensipuram, Kanyakumari – 627114	International
5	Face Recognition system using iterated contextual Dissimilarity search strategy (Conference – 3)	2 nd “International Conference On Intelligent Information Systems andManagement” held during 14-16, July 2011	RVS College of Engineering and Technology, Coimbatore, Tamilnadu, India	International
6	Automatic Morphology based MRI Brain Segmentation using Neural Network Optimization (Conference – 4)	“International Conference On futurecomputing”, ICFC- 2013 on 20 th -22 nd December 2013 organized by Department of master of computer Applications, RV college of Engineering, Bangalore-59.	RV college of Engineering, Bangalore-59.	International

7	Effective Dislodging of the Brain Tumor Image in three dimensional MR Images pp. 226 – 235, 2014 (Conference – 5)	International Conference on Innovative Trends in Computing & Technology on March 7 th & 8 th , 2014 conducted by Department of CSE & IT	The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT	International
8	Systematized Brain Structure Dissection in Atlas Registration pp. 243 – 252, 2014 (Conference – 5)	International Conference on Innovative Trends in Computing & Technology on March 7 th & 8 th , 2014	The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT	International
9	White Matter Neoplasm of FLAIR MRI Confront in Vigorous Dissection pp. 253 – 263, 2014 (Conference – 5)	International Conference on Innovative Trends in Computing & Technology on March 7 th & 8 th , 2014	The Indian Engineering College Vadakkaankulam conducted by Department of CSE & IT	International
10	A Novel Tumor Segmentation Technique on Contrast Improved T1 Weighted Magnetic Resonance Images pp. 23, 2014 (Conference – 6)	National Conference on Advances in Computing Technologies On 11 th & 12 th March 2014	Conducted by PG Department of CSE, Hindustan Institute of Technology, Coimbatore	National
11	A Novel Automatic Kidney Parenchyma Volumetry on preceding form Level Set Segmentation technique pp. 24, 2014 (Conference – 6)	National Conference on Advances in Computing Technologies On 11 th & 12 th March 2014	Conducted by PG Department of CSE, Hindustan Institute of Technology, Coimbatore	National
12	Participated and Presented: A titled “Novelty Approach on Matrix Model for MR Segmentation for Assorted Datasets”. (Conference – 7)	6 th & 7 th March 2015 International Conference on Information, Computation and Communications (ICIC ² -2015)	Organized by Department of CSE, ECE, IT & MCA, Kalaignar Karunanidhi Institute of Technology, Coimbatore	International
13	Participated and Presented: A titled “Quantitative analysis of Multi images based on Gaussian Distribution for intensity inhomogeneity” (Conference – 7)	6 th & 7 th March 2015 International Conference on Information, Computation and Communication, (ICIC ² -2015)	Organized by Department of CSE, ECE, IT & MCA, Kalaignar Karunanidhi Institute of Technology, Coimbatore	International
14	Participated and Presented: A titled “Separating Cortex from MRI Brain using Region and Legion Algorithm”. (Conference – 7)	6 th & 7 th March 2015 International Conference on Information, Computation and Communications, (ICIC ² -2015)	Organized by Department of CSE, ECE, IT & MCA, Kalaignar Karunanidhi Institute of Technology, Coimbatore	International
15	Participated and Presented: A titled “An Efficient Semi-Automated Method for Prostate Cancer Localization”. (Conference – 7)	6 th & 7 th March 2015 International Conference on Information, Computation and Communications, (ICIC ² -2015)	Organized by Department of CSE, ECE, IT & MCA, Kalaignar Karunanidhi Institute of Technology, Coimbatore	International

16	Participated One day workshop on “Network Simulator 2”, held at Einstein College of Engineering, Department of Computer Science and Engineering, Tirunelveli on 3rd October 2010. (Workshop – 1)	“Network Simulator 2” on 3rd October 2010	Einstein College of Engineering, Department of Computer Science and Engineering, Tirunelveli	National
17	Participated One Week Workshop on “European Union Funding Opportunities and Training on Research Project Writing”, held at Manonmaniam Sundaranar University, Tirunelveli on November 22 to 27, 2010, Organized by the Centre for Study of Social Exclusion and Inclusive Policy under India-EU Study Centre Program. (Workshop – 2)	“European Union Funding Opportunities and Training on Research Project Writing” on November 22 to 27, 2010	Manonmaniam Sundaranar University, Tirunelveli Organized by the Centre for Study of Social Exclusion and Inclusive Policy under India-EU Study Centre Program.	National
18	Participated One day Workshop on “Challenges in Mobile Computing” on 31 st March, 2012 organized by Department of Computer Science and Engineering, Einstein College of Engineering, Tirunelveli. (Workshop – 3)	“Challenges in Mobile Computing” on 31 st March, 2012	Organized by Department of Computer Science and Engineering, Einstein College of Engineering, Tirunelveli.	National
19	Participated in the Faculty Development Series III: UGC Plan Project: Recent Development organized by Curriculum Development Cell, Manonmaniam Sundaranar University, Tirunelveli, held on 09 th April 2014. (Seminar – 1)	Faculty Development Series III : UGC Plan Project : Recent Development, held on 09 th April 2014.	Organized by Curriculum Development Cell, Manonmaniam Sundaranar University, Tirunelveli.	National
20	Participated two days’ Workshop on “Research perspectives in Biomedical Signal and Image Processing”, Organized by Department of Electronics and Communication Engineering, Regional Centre, Anna University: Tirunelveli Region, Tirunelveli held on 6 th & 7 th March 2014. (Workshop – 4)	“Research perspectives in Biomedical Signal and Image Processing”, held on 6 th & 7 th March 2014.	Organized by Department of Electronics and Communication Engineering, Regional Centre, Anna University: Tirunelveli Region, Tirunelveli.	National

21	Participated One day International Workshop on “Improving Skills on publishing in Reviewed and Indexed Journals (IWISPRIJ)”, Organized by University Library, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India on 28 th March 2014. (Workshop – 5)	“Improving Skills on publishing in Reviewed and Indexed Journals (IWISPRIJ)”, on 28 th March 2014.	Organized by University Library, Manonmaniam Sundaranar University, Tirunelveli, Tamil nadu, India	International
22	Participated Two days National Seminar held on 30 th & 31 st July 2014 entitled “Role of ICT in Improving the quality of Institution” Organized by Department of Education, Directorate of Distance & Continuing Education, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India (Seminar – 2)	“Role of ICT in Improving the quality of Institution”, on 30 th & 31 st July 2014.	Organized by Department of Education, Directorate of Distance & Continuing Education, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India	National
23	Participated in the “Faculty Development Series” organized by Curriculum Development Cell and Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli, held on 26 th September 2014. (Seminar – 3)	“Faculty Development Series” held on 26 th September 2014.	Organized by Curriculum Development Cell and Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli	National
24	Participated Two Days Seminar on Cloud Computing and Soft Skills Development (Seminar – 4)	9 th & 10 th February 2015 in CITE, MSU.	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli in association with ICT Academy of Tamilnadu, India. (Organizing committee Member)	National
25	Participated Two Days Seminar on “Advanced Image Processing Techniques” (Seminar – 5)	30 th & 31 st March 2015	Organized by the Department of Computer Science & Engineering.	National

26	Participated Two Days National Conference on “Dalit Education: Challenges and Emerging Issues in India (Seminar – 6)	28 th & 29 th April 2015	Conducted by Department of Education.	National
27	Participated One Day Seminar on “Reaching the Unreached: Higher Education in India Today” (Seminar – 7)	25 th August 2015	Organized by the Curriculum Development Cell Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India.	National
28	Participated & Organizing Member of One Day Seminar on “Bio-Medical Engineering Trends” (Seminar – 8)	27 th August 2015	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India.	National
29	Participated & Organizing Member of One Day Seminar on “Big Data Analytics” (Seminar – 9)	22 nd January 2016	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
30	Participated One Day Workshop on “Art of writing Bibliography based on Mendeley Reference Manager” (Workshop – 6)	30 th March 2016	Organized by University Library, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
31	Participated & Organizing Member of UGC XII Plan Seminar on “Skill Developments using Modern Programming Techniques” (Seminar – 10)	17 th Oct 2016	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
32	Participated & Organizing Member of UGC XII Plan Three Days Workshop on “Android Mobile Applications Development” (Workshop – 7)	19 th -21 st Oct 2016	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National

33	Participated and Presented: A titled "Detection of Brain Tumor Stages Using Various Images Processing Techniques". (Conference – 8)	3 th & 4 th March 2017 ICMR Sponsored IEEE International Conference on Science, Technology, Engineering and management (ICSTEM'17)	Organized by Department of CSE, ECE, IT & MCA, Kalaignar Karunanidhi Institute of Technology, Coimbatore	International
34	Participated and Presented: A titled "A Hierarchy Method for Brain Tumor Segmentation Using Convolutional Neural Network on MR Images". (Conference – 8)	3 th & 4 th March 2017 ICMR Sponsored IEEE International Conference on Science, Technology, Engineering and management (ICSTEM'17)	Organized by Department of CSE, ECE, IT & MCA, Kalaignar Karunanidhi Institute of Technology, Coimbatore	International
35	Participated & Organizing Member of One Day Technical Symposium SOFTCRAFT-17. (Symposium – 1)	13th March 2017	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
36	Participated in Training Programme on "Effective Utilization of E- Resources" (Seminar – 11)	10 th August 2017, "In House Training on E-Resources"	Organized by University Library, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
37	Participated & Organizing Member of Two Days Workshop on "Tools and Techniques for Data Analytics" (Workshop - 8)	28 th & 29 th August 2017	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
38.	Participated & Organizing Member of One Day Technical Symposium SOFTCRAFT-18 (Symposium – 2)	6 th March 2018	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
39	Participated & Organizing Member of Two Days Workshop on "Cyber Space and its Career Path" (Workshop – 9)	12 th & 13 th October 2018	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
40	Participated in One Day Workshop on "MOOCs through SWAYAM" (Workshop – 10)	9 th November 2018	Organized by Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	National

41	Participated One Day Seminar on “Quality Research and Publications” (Seminar – 12)	7 th December 2018	Organized by Centre for Research, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
42	Participated & Organizing Member of Two Days Workshop on “Hadoop Fundamentals for Data Analytics” (Workshop – 11)	09 th & 10 th January 2019	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
43	Participated & Organizing Committee Member of Two Days Workshop on “17 th Regional Workshop on science Writing/Journalism” (Workshop – 12)	12 th & 13 th February 2019	Organized by M.T.S Academy of Mylai Thiruvalluvar Tamizh Sangam, Nehru Yuva Kendra, Ministry of Youth Affairs and Sports, Government of India, Tamilnadu State Council for Science and Technology and Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
44	Participated & Organizing Member, Event Organizer for the Exhibition of One Day Technical Symposium SOFTCRAFT-19 (Symposium – 3)	26 th February 2019	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
45	Participated and Presented: A titled “Predicting Housing Prices using Machine Learning Techniques” (Conference – 9)	29 th & 30 th March 2019 International Conference on Research and Development in Engineering, Technology, Management, Science and its Application-2019	Organized by Department of CSE, E.G.S.Pillay Engineering College, Nagapattinam, Tamilnadu, India	International
46	Participated and Presented: A titled “Mobile Price Prediction using Machine Learning”. (Conference – 9)	29 th & 30 th March 2019 International Conference on Research and Development in Engineering, Technology, Management, Science and its Application-2019	Organized by Department of CSE, E.G.S.Pillay Engineering College, Nagapattinam, Tamilnadu, India	International

47	Participated and Presented: A titled "Prediction of Survivors in Titanic Dataset: A Comparative Study using Machine Learning Algorithms". (Conference – 9)	29 th & 30 th March 2019 International Conference on Research and Development in Engineering, Technology, Management, Science and its Application-2019	Organized by Department of CSE, E.G.S.Pillay Engineering College, Nagapattinam, Tamilnadu, India	International
48	Participated and Presented: A titled "Advance Data Security Cloud Computing by AES and DES Hybrid Algorithm". (Conference – 9)	29 th & 30 th March 2019 International Conference on Research and Development in Engineering, Technology, Management, Science and its Application-2019	Organized by Department of CSE, E.G.S.Pillay Engineering College, Nagapattinam, Tamilnadu, India	International
49	Participated & Organizing Member of Two Days Workshop on "Hive for Data Analytics" (Workshop – 13)	30 th & 31 st August 2019	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
50	Program Co-Ordinator One Day Seminar on "Technical Aspects on Cloud Computing" (Seminar – 13)	7 th September 2019	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
51	Participated & Organizing Member of One Day Seminar on "Foundation Skills for Prospective IT Technocrats" (Seminar – 14)	13 th September 2019	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National
52	Participated & Organizing Member of One Day Internship programme on "Stay Safe At Cyberspace – Cyber Security Empowerment for Teachers Community"" (Workshop - 14)	28 th February 2020 Sponsored by Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching. (PMMMNTT)	Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India	National

53	<p align="center"><u>FACULTY DEVELOPMENT PROGRAMME - ONLINE (FDP – 1)</u></p> <p>Participated & Organizing Member of “1st Part of 7 days FDP e-content development based on four- quadrant Strategy – Part I” of the One-week FDP on onlinemedium! (9-12, July, 2020, Organized by CSE Department, MSU.) Participated & Organizing Member of 2nd part of FDP from 13th July to 15th July 2020. “Session on web-based services (Google Classroom, Meet, Calendar, Forms) and tools for four quadrant e-content development & online classes” on online medium. (Organized by CITE, MSU)</p>	<p>7 days FDP, 1st Part(9-12, July, 2020, Organized by CSE Department, MSU.) 2nd part of FDP from 13th July to 15th July 2020(Organized byCITE, MSU)</p>	<p>Organized by CSE Department,MSU, & Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India</p>	National
54	<p align="center"><u>FACULTY DEVELOPMENT PROGRAMME - ONLINE (FDP –2)</u></p> <p>Organizing Member & Participated in Five Days online FDP Programmers on “Recent Trends on Cyber Security Domain” Level – 1 (Elementary) organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli – 627012 sponsored by AICTE Training and Learning (ATAL) Five Days Online Faculty Development Programmers from 05th July 2021 to 09th July 2021.</p>	<p>Organizing Member & Participated in Five Days online FDP Programmers on “Recent Trends on Cyber Security Domain” Level – 1 (Elementary) organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli – 627012 sponsored by AICTE Training and Learning (ATAL) Five Days Online Faculty Development Program from 05th July 2021 to 09th July 2021.</p>	<p>organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli – 627012 sponsored by AICTE Training and Learning (ATAL) Five Days Online Faculty Development Programme from 05th July 2021 to 09th July 2021.</p>	National
55	<p>Participated in 39 Online webinar Programmers (54 days) & Received Certificates from June, July, August of 2020.</p>	<p>Online Webinar Programme (54 days)</p>	<p>Organized by Government and Private Arts and Science, Engineering Institutions in India.</p>	National & International

56	<p>REFRESHER COURSE 2-ONLINE</p> <p>Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with S.S. Jain Subodh P.G. (Autonomous) College, Jaipur (Affiliated to University of Rajasthan) (Re-Accredited 'A++' Grade by NAAC with 3.82 CGPA) under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)</p>	<p>S.S. Jain Subodh P.G. (Autonomous) College, Jaipur (Affiliated to University of Rajasthan) (Re- Accredited 'A++' Grade by NAAC with 3.82 CGPA) under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching</p>	<p>27.11.2021</p>	<p>11.12.2022 (15 Days)</p>
57	<p>Participated & Organizing Member of Two Days Workshop on "Pyspark for Data Analytics" (Workshop – 15)</p>	<p>16.03.2022 & 17.03.2022</p>	<p>Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India</p>	<p>National</p>
58	<p>Participated & Organizing Member of Two Days Workshop on "IoT and It's Applications" (Workshop – 16)</p>	<p>29.03.2022 & 30.03.2022</p>	<p>Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India</p>	<p>National</p>
59	<p>Coordinator for the One Day Technical Symposium SOFT CRAFT-22 (Symposium – 4)</p>	<p>01.04.2022</p>	<p>Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India.</p>	<p>National</p>
60	<p>Participated and Presented: A titled "ANovel Deduplication Technique on Encrypted Big Data in Cloud" (Conference–10). 7th International Conference on Recent Advances in Management, Architecture, Technology and Engineering (CRAMATE'21)</p>	<p>1 & 2 August 2021</p>	<p>Organized by International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE)</p>	<p>International</p>

61	Participated and Presented: A titled “Pathological Tumor cell Identification using Multi – Feature Fusion Network” (Conference – 11). International Conference on Emerging Research Trends in Engineering and Technology (ICERTET’22)	Organized by A.R.College of Engineering and Technology	23 rd July 2022	International
62	REFRESHER COURSE- 3	Teaching Learning Centre, RamanujanCollege, Universityof Delhi, In Collaboration with “TILAK MAHARASHTRA VIDYAPEETH, PUNE, under the aegis of “MINISTRY OF EDUCATION”, “PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS NAD TEACHING”, Successfully completed online interdisciplinary two -week Refresher Course in “Managing OnlineClasses & Co- Creating MOOCS 20.0” from 07-21 November, 2022 and obtained GRADE “A”	07/11/2022 to 21/11/2022	National
63	FACULTY INDUCTION / ORIENTATION PROGRAM -1	Teaching Learning Centre, Ramanujan College, University of Delhi, Under the aegisof “MINISTRY OF EDUCATION”, “PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING” (4 WEEKS), Successfully completed a 4- week “FACULTY IN UNIVERSITIES/COL LEGES/INSTITUTESOF HIGHER EDUCATION” from 21 November – 20 December, 2022	21/11/2022 to 20/12/2022	National

64	SEMINAR/WORKSHOP ETC.,	Participated and presented: A titled “A NOVEL DUPLICATION TECHNIQUE ON ENCRYPTED BIG DATA IN CLOUD” in the International Conference on “Emerging Trends in Science, Technology, Engineering & Management ‘23’	28 th & 29 th April 2023	National
65		Participated and presentd : A titled “Analysis of Coverage in LORA using Secured IOT Systems” in the International Conference on Newer Engineering concepts and Technology (I Connect – 2023), conducted during K. Ramakrishnan College of Technology (Autonomous), Kariyamanicakam Road, Samayapuram, Trichy, India.	27/04/2023 and 28/04/2023	National
66		Participated and completed one-day workshop on "Intellectual property Rights", Organised by the Internal Quality Assurance cell (IQAC), Manonmaniam Sundaranar University, Tirunelveli	15th February 2023	National
67		Participated and rendered as Organizing Committee Member for one day workshop On "Network and web Security Testing” organised by the Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli -627012, Tamilnadu.	29th January, 2024	National

68	Participated and rendered as organizing Committee Member for the One day Seminar on "Block chain Unveiled Exploring the fundamentals, Features and its Applications" Organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli - 627012, Tamilnadu, India, held on 09.02.2024.	09.02.2024	29 th August 2024	National
69	Participated and rendered as organizing Committee Member in the Hands on Training on "Web Apps Development" held on 12 th February, 2024 organised by the Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli - 627015 Tamilnadu	12 th February ,2024		National
70	Participated and completed the one-day first international research workshop On "AI IN MEDIA: SHAPING TOMORROW'S DIGITAL LANDSCAPE", Organised by the SK RESEARCH GROUP OF COMPANIES. On 29 th August 2024(5.00PM to 6.00PM)	SK RESEARCH GROUP OF COMPANIES. Reg. No: UDAYAM-TN-12-0060381, Madurai, Tamil Nadu, India. Recognized by Government of India.		International
71	Participated and completed the one-day First National Research workshop On "DEFENDING AGAINST CYBER ATTACKS: BEST PRACTICES FOR ORGANIZATIONS", Organised by the LEILANI KATIE PUBLICATION AND PRESS. On 7 th SEPTEMBER 2024(11.00AM to 12.00PM)	LEILANI KATIE PUBLICATION AND PRESS. Reg. No: UDAYAM-TN-12-0099209, Madurai, Tamil Nadu, India. Recognized by Government of India.	7 th SEPTEMBER 2024	National

72	Participated and completed one-day Second National Research workshop On "RESEARCH TRENDS AND MULTIDISCIPLINARY RESEARCH USING MACHINE LEARNING ALGORITHMS", Organised by the SK RESEARCH GROUP OF COMPANIES. On 11 th September 2024(5.30PM to 6.30PM)	SK RESEARCH GROUP OF COMPANIES. Reg. No: UDAYAM-TN-12-0060381, Madurai, Tamil Nadu, India. Recognized by Government of India.	11 th September 2024	National
73	Participated and completed one-day workshop on "DATA ANALYTICS USING PYTHON", Organised by SLS MAVMM AYIRA VAISYAR COLLEGE in association with SK RESEARCH GROUP OF COMPANIES.	SK RESEARCH GROUP OF COMPANIES. Reg. No: UDAYAM-TN-12-0060381, Madurai, Tamil Nadu, India. Recognized by Government of India.	15 th November 2024	National
74	Participated and Presented: A paper titled "A Novel Deduplication on Encrypted Big Data in Cloud" (Conference – 12). National Conference on Signal Processing Communication & Networking (NCSPCN-2024)	Organized by Sri Venkateswara College of Engineering	16 th April 2024	National
75	<u>FACULTY DEVELOPMENT PROGRAMME - ONLINE (FDP -3)</u> Participated in Five Days First International FDP on "The Future of Innovation: Exploring Machine Learning"	Organized by SK RESEARCH GROUP OF COMPANIES. Reg. No: UDAYAM-TN-12-0060381, Madurai, Tamil Nadu, India. Recognized by Government of India.	18 th to 22 nd November 2024	International
76	<u>FACULTY DEVELOPMENT PROGRAMME - ONLINE (FDP -4)</u> Participated in One Week FDP on "Empowering Educatorsthrough Educational Ethics - Revisiting the Values"	Organized by PG & Research Department ofEnglish, Sourashtra College (Autonomous), Madurai and the Department of English, Seethalakshmi Achi College for Women, Pallathur.	25 th to 29 th November 2024	National

RESEARCH GUIDANCE:

Research Programmers	Number Enrolled	Thesis Submitted	Degrees awarded
2009-2010	-	-	-
2010-2011			
M.Phil., (IT)	--	--	--
M.Tech. (CIT / ICT)	20	20	20
Ph.D., or equivalent	--	--	--
2011-2012			
M.Phil., (IT)	4	4	4
M.Tech. (CIT / ICT)	16	16	16
Ph.D., or equivalent	--	--	--
2012-2013			
M.Phil., (IT)	6	6	6
M.Tech. (CIT / ICT)	9	9	9
Ph.D., or equivalent	--	--	--
2013-2014			
M.Phil., (IT)	4	4	4
M.Tech. (CIT / ICT)	28	28	28
Ph.D., or equivalent	--	--	--
2014-2015			
M.Phil., (IT)	3	3	3
M.Tech. (CIT / ICT)	07	07	07
Ph.D., or equivalent	--	--	--
2015-2016			
M.Phil., (IT)	1	1	1
M.Tech. (CIT / ICT)	2	2	2
Ph.D., or equivalent	-	-	-
2016-2017			
M.Phil., (IT)	2	2	2
M.Tech. (CIT / ICT)	2	2	2
Ph.D., or equivalent	-	-	-
2017-2018			
M. Sc (IT)	4	4	4
M.Tech. (CIT / ICT)	1	1	1
Ph.D., or equivalent	-	-	-
2018-2019			
M. Sc (IT)	4	4	4
M.Tech. (CIT / ICT)			
Ph.D., or equivalent	-	-	-
2019-2020			
M. Sc (IT)	3	3	3
M. Sc (Cyber Security)	2	2	2
M. Sc (Data Analytics)	2	2	2
Ph.D., or equivalent	-	-	-
2020 - 2021			
M. Sc (IT)			
M. Sc (Cyber Security)			
M. Sc (Data Analytics)			
Ph.D., or equivalent			

2021 - 2022			
M. Sc (IT)			
M. Sc (Cyber Security)			
M. Sc (Data Analytics)			
Ph.D., or equivalent			
Total			

AWARDS, HONOURS:

- Nominated as Deputy Co-Ordinator for the scheme C-“Coaching for NET/SET “for SC/ST/OBC/Minorities students under UGC General Development Assistance to Merged Scheme with effect from 01.04.2011 conducted by Equal Opportunity Cell in M.S .University Upto April 2015.
- In charge–Conducting Remedial Coaching classes for Centre for Information Technology and Engineering, Conducted by Equal Opportunity Cell in M. S. University From 01.04.2011 to Till Date.
- Served as a Resources Person for UGC-NET/SET Coaching schemes for SC/ST/OBC/Minorities at Equal opportunity cell, Manonmaniam Sundaranar University from February 2011 to December 2013 Conducted by Equal Opportunity Cell in M.S.University.
- Appointed as Member in Adhoc Board of Studies for Community Colleges & ELP Centers- Diploma Courses duration of 2016-2017 & 2017-2018, Manonmaniam Sundaranar University
- Appointed as Member of an Inspection Commission to visit on 21.03.2018 Sri Saratha College for Women, Saratha Nagar, Ariyakulam, for verifying the infrastructure facilities, qualifications of the staff etc, for granting Permanent/temporary affiliation to the existing courses and the following new course for the academic year 2017-2018
- Appointed as Member of an Inspection Commission to visit on 27.03.2017 Pop’s College, Swayerpuram, for verifying the infrastructure facilities, qualifications of the staff etc, for granting Permanent/temporary affiliation to the existing courses and the following new course for the academic year 2017-2018
- Appointed as Member of an Inspection Commission to visit on 04.04.2018 Infant Jesus College of Arts & Science for Women, Mulagumoodu, Kanyakumari District for verifying the infrastructure facilities, qualifications of the staff etc, for granting Permanent/temporary affiliation to the existing courses and the following new course for the academic year 2018- 2019
- Appointed as Member of an Inspection Commission to visit on 24.01.2019 Government Arts &Science College, Nagercoil, Kanyakumari District for verifying the infrastructure facilities, qualifications of the staff etc, for granting Permanent/temporary affiliation to the existing courses and the following new course for the academic year 2019-2020
- Appointed as a Departmental (CITE) **Liaison** officer to the Internal Quality Assurance Cell Manonmaniam Sundaranar University from 22.4.2019 to Till date.
- Anna University Question Setting February & August 2020 for Four Subjects

- External Examiner – Ph.D Coursework Mini Project Viva Voce Ms. Ashwini (Reg. No :19214012042058) at Criminology Department, MSU.
- Appointed as Member of an Internal Inspection Commission to visit on 06.12.2021 Department of Pharmaceutical Chemistry, Manonmaniam Sundaranar University for verifying the infrastructure facilities, qualifications of the staff etc, for granting Permanent/temporary affiliation to the existing courses and the following new course for the academic year 2021- 2022.
- Appointed as Panel of Subject Expert in Bachelor of Computer Applications in Arulmigu Subramania Swamy Arts & Science College, Vilathikulam – Regarding Appointment of Assistant Professor in the various departments (Ref. No. Letter No. 010/Assasc-ofc/MS University/2021-22, dated 10.12.2021) & (Ref. No. MSU/R/CDC/A6/232/Asst. Prof.(SF)/Select. Comm. dated 16.12.2021), Recruitment Interview was contacted on 04.01.2022 at ASSAS College, Vilathikulam, Tuticorin District.
- Duties, Responsibilities and Procedures for various activities for academic year from 2009 to 2022, Regarding 1) Active Teaching and Research Responsibilities 2) M.Sc Cyber Security Coordinator and Mentor 3) Examination and Valuation Work 4) Department Maintenance Coordinator.
- Educational / Industrial Visit with CITE Students to Cochin on April 25, 2022.

BOOKS PUBLISHED:

- BOOK NO 1** : **Artificial Intelligence Algorithm and its Applications.**
 Published By : SK Research Group of Companies, Madurai- 625003, Tamilnadu, India.
 ISBN : 978-93-95341-02-8
 Month and Year : November 2022.
- BOOK NO 2** : **Advanced deep learning for malware analysis.**
 Published By : SK Research Group of Companies, Madurai 625003, Tamilnadu, India.
 ISBN : 978-93-95341-08-0
 Month and Year : November 2022.
- BOOK NO 3** : **Fundamentals of IoT and Robotics.**
 Published By : Leilani Katie Publication and Press, Madurai – 625003, Tamilnadu, India.
 ISBN : 978-93-6348-001-8
 Month and Year : December 2024.

BOOK CHAPTERS:

BOOK CHAPTER 1: APPLE ACADEMIC PRESS: AAP SERIES ON DIGITAL SIGNAL PROCESSING, COMPUTER VISION AND IMAGE PROCESSING.

(1) Computational Imaging and Analytics in Biomedical Engineering – Algorithms and Applications

Publication Date : October 2023 Hard
ISBN : 9781774914717
Editor : T.R. Ganesh Babu Rtd., U. Saravanankumar. Ph.D Balachandra Pattanaik, Ph.D

(2) Dermoscopic Implementation and classification on Melanoma Disease using Gradient Boost Classifier
B. Balakumar, K. Sakthi Murugan, N. Suresh Kumar and A. Purushothaman.

REVIEWER:

1. First International Conference on Adaptive Computational Intelligence - ICACI 2019 in Technical Collaboration with Springer at GSSS Institute of Engineering and Technology for Women, Mysuru, Karnataka State, which was held on 18 & 19 July 2019.

INVITED LECTURES & RESOURCE PERSON:

SL. No.	Details of the invited lectures, organization, place.	Date
1	Served as a Resource Person during “ A Seminar on Access Control and Collaboration in Cloud Computing ” on 16 th September 2017, conducted by Jayamatha Engineering College, Thirurajapuram, Aralvaimozhi, Kanyakumari - 629 301, T.N.	16 th September 2017
2	Served as a Resource Person during “ National Conference on INVENTIVES and ADVANCES in SCIENCE, ENGINEERING and TECHNOLOGY (NCIASET’19) ” on 30 th March 2019, conducted by A.R. College of Engineering and Technology, Therkkumadathoor, Kadayam, Ambasamudram Taluk, Tirunelveli – 627 423.	30 th March 2019
3	Acting as a Resource Person in National Level Technical Symposium - TEIOZ-2020" held on 16th February 2020, Department of Electronics and Communication Engineering, Computer Science and Engineering, and Electronics Engineering jointly Presents at A.R. College of Engineering and Technology, Kadayam, Tenkasi District, Tamilnadu.	16th February 2020
4	Expert Committee Member - Conference Acted as an Expert Committee Member in the "National level Conference on Emerging and Tactics in Information and communication Sciences" held on a 26th March 2022 at A.R. College of Engineering and Technology, Kadayam, Tenkasi District, Tamilnadu.	26th March 2022

5	Served as a Resource Person in “International Conference on Recent Innovations in Science and Engineering (ICRISE - 2022)” Organized by Department of Electronics and Communication Engineering, P.S.R. Engineering college, Sivaiqasi, Tamilnadu during 21-23,February 2022.	21-23,February 2022
6	Served as a CONSULTANT (ADVISOR) for two years (November 2020 to November 2022)in SSPR SOFTWARE SERVICES (SOFTWARE SOLUTION & TRAINING), PAAVOORCHATHHIRAM, Tenkasi Distinct, Tamilnadu.	November 2020 to November 2022
7	Served as a Resource Person on “Recent Trends in IOT Using Datamining” Organized by Department of Computer Science and Engineering Conducted on 30/07/2022 at PSN college of Engineering and Technology (An Autonomous Institution),Melathediyoor, Tirunelveli.	30 th July 2022
8	Served as a Resource Person in “National Level Technical Symposium-AEVD 2024” Organized by Department of Electronics and Communication Engineering, Department of Computer Science Engineering, Department of Electrical and Electronics Engineering, held on 17 th February 2024 at A.R. College of Engineering and Technology, A R Nagar, Kadayam, Tenkasi, Tamil Nadu.	17 th February 2024
9	Acted as an Expert Committee Member in the “National Level Conference On Emerging trends and IOT in Information and Communication Sciences” held on 20 th March 2024 , Organized by A.R. College of Engineering and Technology, A R Nagar, Kadayam, Tenkasi, Tamil Nadu.	20 th March 2024

AWARDS:

AWARD 1

- Received **LEAD Outstanding Faculty Award for Research 2019-20** Conducted By LEAD Outstanding Faculty Awards 2020 jointly organized by LEAD Researchers Forum and Spectrum Skills Yard taking place on 19th September, 2020.

AWARD 2

- Received “BEST FACULTY OF THE YEAR AWARD 2022-2023” CONDUCTED BY “SK RESEARCH GROUP OF COMPANIES” Associated with “SENTHALIR HUMAN DEVELOPMENT TRUST” (Reg. No: 89/2021 under Trust Act- Government of Tamilnadu, India) Award named by Dr. SARVEPALLI RADHAKRISHNAN AWARD” – NATIONAL TEACHER’S DAY – 5TH SEPTEMBER 2023.

AWARD 3

- Received “BEST TEACHING AND RESEARCH EXCELLENCE 2023-2024” Associated with “SAKYA CHARITABLE TRUST” (Reg. No: BK-4/52/2019, UID:TN/2021/0282545, RECOGNIZED BY NITI AAYOG, GOVERNMENT OF INDIA ON 1st JUNE 2024

AWARD 4

- Received “EXCELLENCE IN TEACHING AWARD” by Leilani Katie Publication and Press (Reg. No. UDYAM-TN-12-0099209, Recognised by Govt. of India) in association with Senthilir Human Development Trust (Reg. No: 89/2021 under Trust Act- Government of Tamilnadu, India) in the Dr. A.P.J. Abdul KAlam Inspire Award 2024 on 15th December 2024.

PATENTS:

PATENT 1

Invention Title: A SYSTEM AND METHOD FOR CONVERTING, PROCESSING AND DELIVERING OF TEXT INPUT INTO AUDIO OUTPUT

PUBLICATION NUMBER : 08/2022
PUBLICATION DATE : 25/02/2022
APPLICATION NUMBER : 202241007576

APPLICATION FILING DATE : 12/02/2022 FIELD OF INVENTION: ELECTRONICS
[IN PASS – INDIAN PATENT ADVANCED SEARCH SYSTEM]

[<http://ipindia.nic.in/index.htm>]

PATENT 2

Invention Title : VIBRATING BED WITH ACUPRESSURE POINT FOR SPINAL THERAPY

DESIGN NUMBER : 369641-001
FILING DATE : 23/08/2022
JOURNAL NUMBER : 51/2022
JOURNAL DATE : 23/12/2022

PATENT 3 (COPY RIGHT)

INVENTION TITLE : AUTOMATIC GOOGLE SCHOLAR CITATION FETCHING USING PYTHON

LANGUAGE OF THE WORK : PYTHON, MYSQL CLASS AND

DESCRIPTION OF THE WORK : Computer Software work the application Developed here is USED to Fetch the Google scholar citation of the Author by just providing the Google Scholar link of the Author. This is done using Web Scraping using python.

Diary Number : 7273/2022-CO/SW

Date of Application : 06/04/2022

Date of COPYRIGHT of the work : 02/06/2023

PERSONAL DETAILS:

Name : Dr. B. Balakumar B.Tech., M. Tech., Ph.D.
Age & D.O. B : 43 Years, 05.05.1979.
Sex : Male
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DECLARATION:

I hereby declare that the above particulars are true to the best of my knowledge and belief.

Place: Tirunelveli.

Date :

Dr. B. Balakumar B.Tech., M.Tech., Ph.D