

## **CURRICULUM VITAE**



**Dr.M. ANTONY AMMAL**

**Associate Professor**

**Department of Computer Science**

**Queen Mary's College (A)**

**Chennai- 600 004**

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### **Academic Qualification**

- **Ph.D (Computer Science)** in 30<sup>th</sup> November 2022 from University of Madras, Chennai.
- **M.Phil (Computer Science)** in 30<sup>th</sup> July 2002 from Manonmaniam Sundaranar University, Tirunelveli.
- **Master of Computer Applications (MCA)** in April 1996 from Sri Sarada College for Women affiliated to Manonmaniam Sundaranar University, Tirunelveli.
- **Bachelor of Science (Physics)** in April 1993 from Holy Cross College, Nagercoil, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

### **Additional Qualification**

- **The Account Test for Executive Officers** in December 2004 conducted by TNPSC.
- **UGC NET** in Computer Science in December 1997.

### **Best Paper Award**

- Received “Best Paper Award” for “Metric Measures of Optic Nerve Head in Screening Glaucoma with Machine Learning”, in first International Conference on Mathematical Modelling and Computational Science, ICMACS2020, Thailand, 14<sup>th</sup> and 15<sup>th</sup> August 2020.

## Best Outgoing Student Award

- Received “Best Outgoing Student Award” for MCA (1993-1996) from Sri Sarada College for Women affiliated to Manonmaniam Sundaranar University, Tirunelveli.

## Working Experience

S. No	College Name	University	Duration
1.	Department of Computer Science Queen Mary’s College(A), Chennai-4	University of Madras	18 <sup>th</sup> Sep 2006 to till date
2.	Department of Computer Science Sri Meenakshi Government College for Women (A), Madurai	Madurai Kamaraj University	23 <sup>rd</sup> Mar 2002 to 17 <sup>th</sup> Sep 2006
3.	Department of Computer Science Government Arts College for Women, Ramanathapuram	Madurai Kamaraj University	28 <sup>th</sup> Aug 2000 to 22 <sup>nd</sup> Mar 2002
4.	Department of MCA Fatima College(A), Madurai	Madurai Kamaraj University	10 <sup>th</sup> June 1996 to 11 <sup>th</sup> June 2000

## Orientation / Refresher Courses Attended

S. No	Course Title	Conducted by	Duration
1	Refresher Course	UGC – Academic Staff College, University Of Madras Theme : CS and Information Technology	29 <sup>th</sup> Jun 2010 to 19 <sup>th</sup> July 2010
2	Refresher Course	UGC – Academic Staff College, University Of Madras Theme : Information Technology	06 <sup>th</sup> Aug 2008 to 26 <sup>th</sup> Aug 2008
3	Refresher Course	DCE –Fatima College, Madurai  Theme : Computer Science	17 <sup>th</sup> Jan 2005 to 22 <sup>nd</sup> Jan 2005
4	Refresher Course	UGC – Academic Staff College, Madurai Kamarajar University Theme : Mobile Computing	22 <sup>nd</sup> Jan 2004 to 12 <sup>th</sup> Feb 2004
5.	Orientation Course	UGC – Academic Staff College, Madurai Kamarajar University	01 <sup>st</sup> Feb 2001 to 28 <sup>th</sup> Feb 2001
6.	Orientation Course	AIACHE-Kristu Jyoti College, Bangalore Theme : Orientation Course for Newly Appointed Women Lecturers	15 <sup>th</sup> May 1999 To 20 <sup>th</sup> May 1999
7.	Orientation Course	AIACHE-Kristu Jyoti College, Bangalore Theme : Training Course in Teaching Technology for Teachers of Professional Courses	25 <sup>th</sup> May 1997 To 29 <sup>th</sup> May 1997

### Conferences / Workshops/ Seminars Organised

S. No	Workshop Title	Venue	Duration
1.	Organised as member in BOS of University of Madras on “Revamping of UG Curriculum” based on Learning Outcomes based Curriculum Framework (LOCF) prescribed by UGC	Venue: Anna Adarsh College for Women, Chennai – 600 040	17 <sup>th</sup> December 2019

### Conferences / Workshops/ Seminars Attended

S. No	Course Title	Conducted by	Duration
1.	NM FDP on “MongoDB Database Administrator”	University of Madras Venue: A.M.Jain College, Meenambakkam	16 <sup>th</sup> to 21 <sup>st</sup> December 2024
2.	Workshop on “Generative Artificial Intelligence (Gen-AI)”	Women’s Christian College(A), Chennai-6	20 <sup>th</sup> & 21 <sup>st</sup> Nov 2024
3.	NM FDP on “MERN STACK with MongoDB Course”	University of Madras Venue: A.M.Jain College, Meenambakkam	10 <sup>th</sup> to 15 <sup>th</sup> June 2024
4.	National Webinar on “Machine Learning”	Department of Computer Science, University of Madras	19 <sup>th</sup> March 2022
5.	FDP on “Advanced Optimization Techniques and hands-on with MATLAB/SCILAB”	MNIT Jaipur	6 <sup>th</sup> & 7 <sup>th</sup> Sep 2021
6.	FDP on “Deep Learning & its Applications”	IIT Guwahati	23 <sup>rd</sup> Aug to 3 <sup>rd</sup> Sep 2021

7.	Webinar on “Design your Digital Footprint for a Desired Destiny”	Queen Mary’s College(A)	5 <sup>th</sup> Aug 2021
8.	Webinar on “Deep Learning and its applications”	St.Aloysius College(A), Mangaluru	2 <sup>nd</sup> July 2020
9.	Webinar on “Reaching the Learners through Online Teaching-Advanced Level”	IQAC, Queen Mary’s College(A)	26 <sup>th</sup> June 2020
10.	Webinar on “Reaching the Learners through Online Teaching”	IQAC, Queen Mary’s College(A)	2 <sup>nd</sup> June 2020
11.	Webinar on “A conceptual approach on the learning techniques and opportunities in AI and ML”	Tirupur Kumaran College for Women	30 <sup>th</sup> May 2020
12.	Webinar on “Art of writing Research Paper”	Gautam Buddha University, UP	29 <sup>th</sup> May 2020
13.	Webinar on “Tips and tricks for Effective Research”	Idhaya College for Women, Kumbakonam	15 <sup>th</sup> May 2020
14.	International Conference on “Current trends in Advanced Computing”	Kristu Jayanthi College(A), Bangalore	6 <sup>th</sup> & 7 <sup>th</sup> May 2020
15.	Webinar on “Use of Elsevier tools in Research workflow”	University of Madras & Elsevier	5 <sup>th</sup> May 2020
16.	FDP on “Moodle Learning Management System”	IIT Bombay, MHRD and Kaypeeyes College of Arts and Science, Nilgris	29 <sup>th</sup> April to 1 <sup>st</sup> May 2020
17.	FDP on “LaTeX”	IIT Bombay & Sanjay Ghodawat University, Maharastra	27 <sup>th</sup> April to 2 <sup>nd</sup> May 2020
18.	Workshop on “Documentation using LaTeX”	Stella Maris College, Chennai	24 <sup>th</sup> & 25 <sup>th</sup> of April 2020
19.	Webinar on “Research Outcomes: Technical Paper writing, Research Proposal, Patent Filing”	Data Teach.ai, Chennai	22 <sup>nd</sup> April 2020

20.	Workshop on “FDP on Information Security and Cyber Crimes”	Centre for Cyber Forensics and Information Security, University of Madras	25 <sup>th</sup> & 26 <sup>th</sup> of April 2014
21.	FDP on “research Methodology & Ethics of Writing Research Articles”	Dhanraj baid Jain College(A), Chennai	6 <sup>th</sup> March 2014
22.	Seminar on “Enhancing Quality in Higher Education”	IQAC, Queen Mary’s College(A), Chennai	19 <sup>th</sup> Jan 2013
23.	FDP on “Current Research Trends in Computer Science”	Anna Adarsh College for Women, Chennai	14 <sup>th</sup> Sept 2012
24.	State Level FDP on “Relevance of Data Mining in Research Areas”	Asan Memorial Institute of Management	17 <sup>th</sup> March 2012
25.	Workshop on “Workshop of Network Communication”	Loyola College(A), Chennai	24 <sup>th</sup> Jan 2012
26.	Workshop on “Data Mining tools and techniques”	Sathyabama University, Chennai	8 <sup>th</sup> Sept 2011
27.	Seminar on “Data Structures through C”	Loyola College(A), Chennai	21 <sup>st</sup> Aug 2010
28.	National seminar on 3E’s of Higher Education	DDGD Vaishnav College, Chennai	11 <sup>th</sup> April 2009
29.	Workshop on “Workshop on Hands on Training in Bio-Informatics”	TNSCST- Elite Bio Science Foundation & QMC	29 <sup>th</sup> & 30 <sup>th</sup> Sept 2008
30.	Workshop on “EPR spectroscopy and Imaging”	Madurai Kamaraj university	7 <sup>th</sup> Feb 2003
31.	Conference : “IT for MS Applications”	Operational Research Society of India, IIS, Bangalore	27 <sup>th</sup> & 28 <sup>th</sup> July 1999

## Papers Presented

1. “Perception of hard exudates using Fuzzy Optimization and Discrete Wavelet Transformation in Fundus Image”, third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021), IEEE XPLORE ISBN 978-0-7381-1183-4, Francis Xavier Engineering College, 4<sup>th</sup> to 6<sup>th</sup> February 2021.
2. “Metric Measures of Optic Nerve Head in Screening Glaucoma with Machine Learning”, first International Conference on Mathematical Modelling and Computational Science, Springer, ICMACS2020, Thailand, 14<sup>th</sup> and 15<sup>th</sup> August 2020.
3. “Automatic VCDR approximation for screening glaucoma in fundus images” National Conference on Computational Intelligence in Electrical and Electronics Engineering, Sathyabama Institute of Science and Technology, 18<sup>th</sup> and 19<sup>th</sup> May 2020.
4. Presented a paper entitled, “Mobile Communications- Global System For Mobile Communications (GSM)” in National Seminar on Emerging Trends in High

Performance Computing and Communication in KSR College of Arts and Science, Tiruchengode on 6<sup>th</sup> August 2005.

5. Presented a paper entitled, “Mobile Communications” in Regional Seminar on Networking and Data Mining in Ponnaiyah Ramajayam College, Thanjavur on 12<sup>th</sup> March 2004.

## **Papers Published**

1. “Texture Feature Analysis in Fundus Image in Screening Diabetic Retinopathy”, Annals of Romanian Society of Cell Biology, Volume 25, Issue 3, 2021, pp 2139-2149, ISSN: 1583-6258. **(UGC/SCOPUS INDEXED)**
2. “Elicitation of Drusen to Envision Age Related Macular Degeneration”, High Technology Letters, Volume 26, Issue 7, 2020, ISSN NO : 1006-6748
3. “Visualization of quantitative modeling of glaucoma in multimodel image acquisition”, International Journal of Advanced Research in Engineering and Technology, Volume 11, Issue 10, 2020, pp 656-664, ISSN online 0976 - 6499.
4. “A comparative approach to detect Glaucoma in Retinal Images”, International Journal of Advanced Science and Technology, Volume 29, No. 7s, (2020), pp 1351-1362, ISSN: 2005 – 4238. **(SCOPUS INDEXED)**
5. “Prognostic Anatomization of Glaucomatous eye by Disarticulation of Optic Disc and Optic Cup”, International Journal of Pure and Applied Mathematics, Volume 119, No.16, 2018, ISSN: 1314-3395.

## **Book Chapters Published**

1. “Perception of hard exudates using Fuzzy Optimization and Discrete Wavelet Transformation in Fundus Image”, IEEE XPLORE Digital Library, 2021, pp. 1034-1039, 9388528. **(SCOPUS INDEXED)**
2. “Metric Measures of Optic Nerve Head in Screening Glaucoma with Machine Learning”, Advances in Intelligent Systems and Computing”, 2021, 1292, pp. 583-599. **(UGC/SCOPUS INDEXED)**

## **Resource Person**

1. Resource person for Centrally Sponsered Inservice Training Programme in Computer Science at LWIASE, Chennai on 10<sup>th</sup> Jan 2013.
2. Resource person for Inter-Collegiate Seminar at VPMM Arts & Science College for Women, Srivilliputtur on 11<sup>th</sup> Jan 2006.
3. Resource person for Computer Science Department Association at St. Mary’s College, Thoothukudi on 7<sup>th</sup> Feb 2005.

## External Member

1. Selection Committee member for Best Teacher Award of Government School Teachers for 2024-2025, Science City, Chennai – 6000 025
2. Teaching Post Verification for Colleges in DCE - 2024
3. Guest Lecturer Certificate Verification in DCE – 2023
4. Subject Expert of Computer Science Question Paper Setting Board, TRB – 2019, 2023, 2025
5. Subject Expert of Computer Science for Question Paper Setting and Valuation Board, TNPSC
6. Member of Board of Studies in Computer Science, University of Madras, 2018-2021
7. Subject Expert for Academic Audit Committee of MCA, Ethiraj College for Women(A), Chennai – 8
8. Subject Expert for Academic Audit Committee of IT, Women's Christian College, Chennai – 6
9. Subject Expert for Board of Studies meeting of BCA, Women's Christian College, Chennai – 6
10. Member of Inspection Commission of BSc Computer Science with Data Science, BSc Computer Science with Artificial Intelligence
11. Convenor of Inspection Commission of BSc Computer Science with Artificial Intelligence, SA College of Arts and Science, Chennai.

## External Examiner

1. External examiner for theory and practical examination conducted in Presidency College
2. External examiner for theory and practical examination conducted in Bharathi Women's College
3. External examiner for theory and practical examination conducted in Stella Maris College.
4. External examiner for practical examination conducted in Loyola College.
5. External examiner for theory and practical examination conducted in Ethiraj College for Women.
6. External examiner for theory and practical examination conducted in Women's Christian College.

## Presiding Officer of General Election

1. Presiding Officer of General Elections to Lok Sabha Elections – 2019, Adayar.
2. Presiding Officer of Assembly Elections of Tamil Nadu – 2021, Adambakkam.
3. Presiding Officer of General Elections to Lok Sabha Elections – 2024, Kolathur Constituency, Chennai North.

## Papers Handled for B.Sc, M.Sc and M.C.A

- Digital Image Processing
- Soft Computing

- Advanced Web Technology
- Cryptography & Network Security
- Data Mining and Warehousing
- Mobile Communications
- Information Security
- Relational Database Management System
- Programming in C, C++, C#, Java, Python
- Computer Networks
- Internet of Things
- Neural Networks
- Design & Analysis of Algorithm
- Operating System
- Microprocessor
- Multimedia and its Applications
- E-Commerce
- Objected Oriented Analysis and Design
- Fundamentals of Information Technology
- System Analysis and Design
- Advanced Web Design
- Internet Concepts

### **Additional Roles Performed:**

- Overall College Rank list generation for UG – 2023-2024, 2024-2025
- Overall College Rank list generation for PG – 2024-2025
- Admission Co-ordinator for Computer Applications Department – BCA & MCA – 2024-2025
- Admission Co-ordinator for Maths Department Shift I & II, PG - 2024-2025
- Naan Mudhalvan Coordinator for BSc Computer Science Shift I & II, BCA – 2023-2024 & 2024-2025
- E-governance Committee Member- From 2023 onwards
- M.R Scholarship Committee Member – 2022-2023
- Student Database Committee Member – 2020-2021, 2021-2022
- Compiled Staff Particulars of QMC for DCE – 2017-2018
- Compiled Student Particulars of QMC for DCE – 2014-2015
- Adolescent Counselling Cell Committee member of College – 2014-2015, 2015-2016
- Coordinator for ICT Programme for the College Students – 2013-2014
- Website Coordinator for the college– 2011-2018

### **Personal Details**

Date of Birth : 3<sup>rd</sup> June 1973  
 Sex : Female  
 Marital Status : Married  
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