Dr.A.R.JASMINE BEGUM

MCA., M.Phil., SET., Ph.D

ASSOCIATE PROFESSOR

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
STAFF PROFILE

PERSONAL INFORMATION

1. Name   : **Dr. A.R.JASMINE BEGUM**

2. Date of Birth   : **10.06.1976**

3. Address   :

Residential	Office
No.103 T & T House Rani Meyammai Nagar KK Nagar Udayanpatti Main Road	Associate Professor, Cauvery College for Women, Annamalai Nagar, Trichy-18,
E-Mail: jasmine.it@cauverycollege.ac.in ,jasmineccw99@gmail.com Mobile: 9894392884	

ACADEMIC INFORMATION

4. Designation & Department : Associate Professor in Information Technology

5. Educational Qualification   : MCA., M.Phil. SET.,Ph.D.,

Degree	Year	College/University
B.Sc(Chemistry)	1996	Holy Cross College,Trichy-2
MCA	1999	Shrimathi Indira Gandhi College, Trichy-2-
M.Phil	2004	Bharathidasan University Trichy-24
SET	2016	Mother Theresa Women's University
Ph.D	2019	Bharathidasan University Trichy-24

6. Researcher ID   :

Google Scholar: https://scholar.google.com/citations?user=UU82agIAAAAJ&hl=en

Web of Science: AAJ-4373-2021

Orchid ID: 0000-0001-5830-4988 https://orcid.org/0000-0001-5830-4988

7. Experience :

Date of Joining	Institution	Year of Experience
2.08.1999 - 19.12.1999	Bishop Heber College	6 Months
20.12.1999	Cauvery College for Women	25 Years

8. Areas of Specialization : Digital Image Processing

9. Languages known : Tamil, English, Urdu, Hindi

10. Subjects Taught :

UG	Programming in C, General Interest Course, Computer Applications, OOPS in C++, Design and Analysis of Algorithm, Internet Programming with ASP Microsoft Windows programming Technology, Operating Systems, Introduction to office Management, Office Management Tools, Value Education, Data Base Systems, Software Engineering, Computer Graphics & Multimedia, Information Security and Cyber laws
PG	Multimedia Systems and Design, Software Engineering, Data Base Systems Operating Systems, Netware & Unix, Software Testing, Marketing Management Data mining, Advanced Software Engineering
M.Phil	Teaching and Learning Skills, Data Mining and Warehousing

11. Research Supervision:

	University from where guideship obtained	Thesis	
		Completed (in numbers)	Year of Completion
M.Phil	Bharathidasan University	2	2008-2009
		3	2009-2010
		3	2010-2011
		3	2011-2012

			3	2012-2013
			3	2013-2014
			3	2014-2015
			1	2016-2017
			2	2017-2018
			1	2018-2019
			1	2019-2020
Ph.D	**NIL**	**NIL**		**NIL**

12. Details of Publications:

Journal Name & Volume	Year of Publication	ISBN /ISSN Number	Name of the Paper	Impact Factor
International Journal of Applied Engineering Research(IJAER) **(Scopus Indexed)**	Dec 2015, Vol:10, pp:97-102	ISSN 0973-4562	The Performance Comparison of Spatial Filtering based on the Full Reference Image Quality Measures PSNR,RMSE,MSSIM and UIQI in Medical Image Improvement	0.12
International Journal of Advanced Research in Computer Science(**IJARCS**)	March-April 2016,Vol:7,pp: 93-97	ISSN 0976-5697	Segmentation Techniques: A Comparison and Evaluation on MR Images for Brain Tumour Detection	3.727
International Journal of Control Theory And Applications (**IJCTA**), International Science Press **(Scopus Indexed) (Anna University Annexure II)**	Dec 2016, Vol:26, pp:335-342	ISSN 0974-557	A Proposed Hybrid Fuzzy C-Means Algorithm with Cluster Center Estimation for Leukemia Image Segmentation	0.11
IEEE Xplore	October 2017 227-230	ISBN 978-1-5090-5573-9	Diagnosing Leukemia in Microscopic images using Image Analysis and Image	0.03984

			Processing Techniques	
International Journal of Advanced Research in Computer Science(**IJARCS**)	Mar-Apr 2017, Vol:3,pp:147-151	ISSN 0976-5697	A Proposed Novel method for Detection and classification of Leukemia using Blood Microscopic Images	
International Journal of Scientific Research in Computer Science, Engineering and Information Technology(**IJSRCSEIT**)	Sep-Oct 2017,Vol:2, pp:1001-1008	ISSN: 1314-3395	Performance Analysis of Proposed Hybrid Fuzzy C-Means Algorithm with standard FCM for Image Segmentation	3.727
International Journal of Pure and Applied Mathematics **(Scopus Indexed)**	Feb-2018,Vol:118, pp:443-453	ISSN: 1314-3395	A Comparative Evaluation of Image Analysis Techniques in Image Segmentation	0.388
Communications in Computer and Information Science (CCIS), **Springer Nature**	Sep 2017,Vol:844, pp:58-73		A Novel Coherence Particle Swarm Optimization Algorithm with Specified Scrutiny of FCM (CPSO –SSFCM) in Detecting Leukemia using Microscopic Images	
International Research Journal of Modernization in Engineering Technology and Science	February-2021. Vol:03, Issue:02 pp.145-150	ISSN:2582-5208	IOT Based Crop Monitoring System In Smart Agriculture	5.354
The Scientific Temper (2023) (UGC Care Group II and Web of Science Indexed Journal	Sep 2023 pp.852-858, Vol.14, No.3,	E-ISSN: 2231-6396, ISSN: 0976-8653	IoT based home automation with energy management",	

13. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
3.12.2015& 4.12.2015	Jamal Mohammed College,Trichy	International Conference on Advanced Computing (ICAC-2015)	The Performance Comparison of Spatial Filtering based on the Full Reference Image Quality Measures PSNR,RMSE,MSSIM and UIQI in Medical Image Improvement
28.07.2016& 29.07.2016	Bishop Heber College,Trichy	International Conference on Computing Communication and Information Science (ICCCIS'16)	A Proposed Hybrid Fuzzy C-Means Algorithm with Cluster Center Estimation for Leukemia Image Segmentation
2.2.2017 & 4.2.2017	St. Joseph's College, Trichy	2nd World Congress on computing and communication Technologies	Diagnosing Leukemia in Microscopic images using Image Analysis and Image Processing Techniques
11.12.2017	PG & Research Department of Mathematics, Jamal Mohamed College,Trichy	International Conference on Mathematical method and Computation (ICOMAC 2017),	A Comparative Analysis of Image Analysis Technique in Image Segmentation
14.12.2017 - 16.12.2017	Department of Applied Mathematics & Computational	3rd International Conference on Computational	A Novel Coherence Particle Swarm Optimization

	Sciences, PSG College of Technology,Coimbatore	Intelligence, cyber Security and Computational Models (ICC3 2017)	Algorithm with Specified Scrutiny of FCM (CPSO – SSFCM) in Detecting Leukemia using Microscopic Images

14. Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National / International	Topic
19.09.02 & 20.09.02	P.S.G.R Krishnammal College for Women, Coimbatore	-	National	Emerging trends in computer networking and data communications
20.02.09 & 21.02.09	Holy cross college, Trichy	ACCT 2009	National	Advanced computing and communication technologies
21.8.2013	ICTACT, Hotel Sangam, Trichy	ICTACT 2013	Bridge Course	Technology Beyond Boundaries
5.3.2015	Jamal Mohammed College,Trichy	NCAC-2015	National	National Conference on Advanced Computing
31.07.2015 &1.08.2015	Computer Society of India , Trichy Chapter, IEEE Podhigai Sub-Section and IEEE Signal Processing, Bharathidasan University Technology Park,		International	Two-Day International Workshop on Image Processing with Matlab

	Trichy			
3.12.2015 & 4.12.2015	Jamal Mohammed College,Trichy	ICAC 2015	International	International Conference on Advanced Computing
25.02.2016 & 26.02.2016	N.S.N College of Engineering and Technology, Manalmedu, Karur	-	International	DST Sponsored Two days International Workshop on Recent Trends in Computing and Information
28.07.2016 & 29.07.2016	Bishop Heber College,Trichy	ICCIS-2016	International	International Conference on Computing Communication and Information Science
2.09.2016 & 3.09.2016	Jamal Mohammed College,Trichy		International	Two-Day International Workshop on Image Restoration Techniques with Matlab
17.9.2016	Jamal Mohammed College, Trichy	NCCCT-2016	National	National Conference on Computing and Communication Technologies
2.02.2017 To 4.02.2017	St.Joseph's College,Trichy	WCCCCT-2017	International	2nd World Congress on Computing and communication Technologies
15.03.2017	Jamal Mohammed College, Trichy	NCAC-2017	National	National Conference on Advanced Computing
11.12.2017	PG & Research	ICOMAC-	International	International Conference

14.12.2017 To 16.12.2017	Department of Applied Mathematics & Computational Sciences, PSG College of Technology, Coimbatore	ICC3 2017	International	3rd International Conference on Computational Intelligence, Cyber Security and Computational Models
12.11.2019	PG and Research Dept of computer science Jamal Mohammed College, Trichy	NCAC 2019	National	National Conference on Advanced Computing
12/08/2022 & 13/08/2022	Marudhar Kesari Jain College for Women,		National	In Pursuit of Maneuver Quality Assessment-Enhancement in HEIs – New Framework of NAAC
4/01/2023 to 7/01/2023	Internal Quality Assurance Cell, RBVRR Women's College, Narayanguda, Hyderabad, Telangana, in collaboration with National Assessment and Accreditation Council (NAAC)		National	Four Day National Seminar on "NAAC Seven Criteria"
14/10/2023 & 15/10/2023	NPTEL+,IIT Madras		National	Design Thinking: Developing insights, Framing & Reframing the Problem, Mapping the Context

18.12.2023 - 22.12.2023	LekSha Research Center		International	Five-Day Online Workshop on Analyzing Qualitative Data using NVivo International
20.04.2024 -	ATSS's Institute of	ICCIIT-2024	International	3rd International
26.04.2024 - 11:30 am to 01:00 pm	Department of Library of Yashwantrao Chavan College Ambajogai Dist Beed		National	One Day National Level Webinar Intellectual Property Rights Issues and Challenges in India - Intellectual Property Rights
27.04.2024	Department of Visual Communication in Association with Public Relation Society of India Chennai Chapter Sathayabama Institute of Science and Technology , Chennai		National	National Virtual Seminar on Innovation in Ai Tools for Effective PR Communication
10.08.2024	Department of Home Science, B.L.D.E Association's , Smt. Bangaramma Sajjan Arts, Commerce and Science College for Women Vijayapura.		National	"Entrepreneurship Development in Food Processing And Value Addition"
14/08.2024	RGCMS-Rajeev Gandhi college of Management Studies Ghansoli, NaviMumbai			Management Development Program on Managing Self

Year & Date	Organizer	Title	National / International	Topic
25.08.2024	Pencil Bitz Academy		National	One Day Faculty Development Programme on Work Life balance using EQ and Communication Skills
07.10.2024	Directorate Research, IQAC and E-Library in collaboration with APSU NDLI club, Rewa		National	one day National webinar on "Navigating NDLI: Unveiling Research Treasures for Scholars"
10.10.2024	Public Relation Society of India, Chennai Chapter		International	International Live Webinar on "Effective Communication Techniques in Research Writing"
10.01.2025	Rajeev Gandhi College of Management Studies, Navi Mumbai		National	Effective Sales and Marketing Strategies for Entrepreneurs/Start-Ups
08.02.2025	Public Relations Society of India, Chennai Chapter		National	The Rise of Environmental, Social and Governance (ESG) in PR
26.07.2025	The Literacy Program on NEXT-GEN PET:AI DRIVEN FITNESS EVALUATION		National	Birdieins, DataLyca Software Development Bangalore , Karnataka

12.08.2025 - 16.08.2025	Online Faculty Development Programme on Agentic AI: Empowering Educators and Learners		National	Department of Computer Applications, Mohandas College of Engineering and Technology in collaboration with TCS and UST
29.08.2025	National Webinar on The Future of Storytelling How AI is changing Media and Communication		National	Public Relations Society of India

15. Details of Seminars / Conferences / Workshops Organized:

Date	Title	National / International	Topic
23.08.2016		International	International conference in Recent Trends in Information Technology- Internet of Things and Recent Trends in Information Technology using Cloud Technology

16. Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
30.03.2019	Student Assessment and Evaluation	Swayam ARPIT Online Course Certification, National Institute of Technical Teacher's Training and Research, Bhopal
June-October 2024	NPTEL online certification course in Medical Image Analysis during the period of Jun-oct 2024	NPTEL , IIT, Madras.

17. Details of Study Materials / Books written and published:

Book Chapter Details: 02

- **Advanced Engineering Research and Applications (AERA)** - Chapter No.26- The Performance Comparison of Spatial Filtering based on the Full Reference Image Quality Measures PSNR, RMSE, MSSIM and UIQI in Medical Image Improvement (Research India Publications)

- Computational Intelligence, Cyber Security and Computational Models (Communications in Computer and Information Science), Springer - Chapter No.6. **A Novel Coherence Particle Swarm Optimization Algorithm with Specified Scrutiny of FCM (CPSO-SSFCM) in Detecting Leukemia for Microscopic Images**

- Published a book entitled "**Advanced Software Engineering**" in SK Research Group of Companies, Tamilnadu 978-81-19980- 35-2.

18. Details of Chairing as Resource Person:

Date	Title of the Seminar/Conference	Session Chaired
17.03.2020	A Two Day International conference on Smart and Innovative Technologies- The Future of Digital India (ICSIT'20)- HOLY CROSS COLLEGE	**Chair Person – Paper Presentation Session**

19. Administrative Positions held in the College:

Nature of Position	Year
-	-

20. Details of Incharge / Participation in Extracurricular Activities:

(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

Nature of Activity	Period of Incharge
Staff Advisor, Comphaven Club	2003-2004
Staff Advisor, Abacus Club	2006-2008
Staff Advisor, Innova Club	2009-2010
Fine Arts In Charge	2013-2014
Sports In Charge	2014-2015
Time-Table In Charge	2015-2016
Staff Advisor, Innova Club	2016-2017

Profile In Charge	2017-2018
Fine Arts In Charge	2018-2019
Sports In Charge	2019-2020
On-Line Admission Team Member	2021-2022
Time-Table In Charge	2022-2023

21. Details of Participation in Consultancy, Training, Development etc..: --

S. No	Nature of Position	Institution Name	Period
1.	Member	ISSE – Indian Society of Systems for Science and Engineering	Lifetime

22. Details of Membership in Academic Bodies/ Board of Studies:--

Examiner University / Autonomous Colleges	Question Paper Setter University / Autonomous Colleges
Examiner in Question Scrutinizing Board - Jamal Mohammed College(Autonomous), Trichy.	Gobi Arts and Science, Gopichettipalayam
Examiner for UG Practicals- Jamal Mohammed College (Autonomous), Trichy.	Jamal Mohammed College, Trichy.
Examiner for UG & PG Paper Valuation- Jamal Mohammed College(Autonomous),	A.V.C College, Mayavaram.
Examiner in UG-Central Valuation- Bharathidasan University.	Holy Cross College, Trichy
Examiner for UG Practicals- Bharathidasan University	Vellaichamy Nadar college, Nagamalaipudukottai
Examiner for UG & PG Paper Valuation- Bishop Heber College(Autonomous) Trichy.	Sri Krishna College of arts and science, Coimbatore.
Nehru College of Arts and Science College(A), Coimbatore	Vellalar College for Women, Erode

23. Any other information if any:--

S. No	Nature of Position	Institution Name	Topic / Competition / Function	Date
1	Resource Person	NSS Camp	Awareness about computer, Govt High School,Aamur	05.09.06
2.	Judge	Holy Cross College,Trichy	Dumb Chardes, "Web Scintillators 13"	Apr'2013
3.	Resource Person	ICTACT	Digital Literacy Program	Jan' 2016
4.	Judge	Holy Cross College,Trichy	Teachers Day Program	Sep' 2018
5.	Resource Person	IQAC, Cauvery College for Women, Trichy	Faculty Development Programme-Kahoot!-Prudent Engagement	07.07.2020
7.	Reviewer	Xiamen, China/Online via MS TEAMS.	The 3rd International Conference on Machine Learning and Intelligent Systems (MLIS 2021)	22.02.2021
6.	Resource Person	Jamal Mohammed College, Trichy	Webinar on E-Waste and Recycle Management	13.03.2021
7.	Resource Person	Periyar E.V. R College, Trichy	A Technical Tools – A Perspective and Insights	01.11.2021
8.	Judge	Jamal Mohamed College (A),Trichy	Quiz event-ITConnect 2K22"	18.10.2022

9. **Principal Investigator**- Received Rs.20,000/- from the College Management as a Seed Grant for Conducting Research on the Topic: **IoT based Home Automation using NODEMCU-12 December 2023.**

10. Received a Publication Cost Rs.5000/ of the book entitled - Advanced Software Engineering"

11. Registration fee Rs.1530/- to attend the NPTEL Workshop on "Design Thinking: Developing insights Framing & Reframing the Problem, Mapping the context

12. Registration fee Rs.500/- to attend the Five days Hands-on Training Program Analyzing Qualitative Software using NVIVO Software

13. Developed an e-content module on "Importance of Software Testing in OBS & Powerpoint platform

14. A Project is applied in Unnat Bharat Abiyan (UBA),National Coordinating Institute, Delhi-SEG - Proposal for Rural Energy Systems- Feb 2024 - Transforming Rural Community : An Endeavor For The Empowerment Of Women and Children at Marudankakurichi, Tiruchirapalli District, Tamil Nadu, India - Proposal id:C-35783/TN/TRC/RESS/1 LAKH/2		
15. Received a amount of Rs.10,000/- from the Cauvery College Management for the completion of 25 years of service.		

LOCK DOWN ACTIVITIES FOR THE PERIOD - MAR'2020 TO AUG'2021

S.NO	NAME OF THE ACTIVITY	COUNT
1.	Faculty Development Programme (FDP)	13
2.	International, National, State Level Webinars	34
3.	Online Workshop	01
4.	Refresher Course	01
5.	Online Quiz	07