

CURRICULUM VITAE

Dr.G.SOFIA M.C.A.,M.Phil.,Ph.D, SET

Associate Professor,
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Lady Doak College,
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EDUCATIONAL QUALIFICATION

DEGREE	INSTITUTION	YEAR
B.Sc.(Mathematics)	St.Mary's College, Tuticorin	1997
M.C.A	Manonmaniam Sundaranar University, Tirunelveli	2000
M.Phil.(Computer Science)	Mother Teresa Women's University, Kodaikanal	2004
Ph.D(Computer Science)	Bharathiyar University, Coimbatore	2015
SET (Computer Science and Applications)	Bharathiyar University, Coimbatore	2012

PROFESSIONAL EXPERIENCE (20+ Years)

DESIGNATION	INSTITUTION	PERIOD
LECTURER	Margoschis College, Nazareth	Aug. 2000 – Sep. 2001
LECTURER	St.John's College, Tirunelveli	Oct. 2001 to Aug.2002
LECTURER	Nirmala College for Women, Coimbatore	Dec.2002 to Jul.2003
LECTURER	Fatima College(Autonomous), Madurai	Jun.2004 to May 2008
ASSOCIATE PROFESSOR	Lady Doak College(Autonomous), Madurai	Jun.2008 to till date

AWARDS / RECOGNITION

AWARDS RECEIVED

KATIE WILCOX TEACHER OF THE YEAR AWARD (2015 -2016), Lady Doak College, Madurai

BEST PAPER AWARD in Virtual Conference on Smart Computing and Advanced Communication (SAC '21) Organized by PSNA College of Engineering and Technology, Dindigul on March 30th 2021

ONLINE CERTIFICATION

COURSE	OFFERED BY
PYTHON	Spoken Tutorial Project, IIT, Bombay
Data Science : R Basics	Harvard University through edX
Analyzing Data with Python	IBM through edX
MATLAB onramp	MathWorks
Bioinformatics with Python	Udemy

ACADEMIC MEMBERSHIP

MEMBERSHIP DETAILS

Member of Doctoral Committee at Manonmaniam Sundaranar University, Tirunelveli.

External Expert for XI Academic Council Meeting at Thasim Beevi Abdul Kadar College, Keelakarai.

Subject Expert in the Interview Panel for the Department of IT, Arul Ananandar College, Madurai.

Member of Board of Studies for BCA in The American College, Madurai.

Member of Board of Studies for M.Sc. Computer Science in Sadakathullah Appa College, Tirunelveli.

University Nominee for Board of studies for M.Sc. M.Phil. Computer Science, Sadakathullah Appa College, Tirunelveli

Member of Board of Studies for B.Sc. IT in Arul Ananandar College, Madurai.

Member of Board of Studies for B.Sc. IT in Popes College, Sawyerpuram

Member of Board of Studies for B.Sc. Computer Application in GVN College, Kovilpatti

Member of Advisory Committee for the National Conference on Computational Intelligence NCCI 18 organized by PG & Research Dept of Computer Science, Sadakathullah Appa College on 21.2.18

External Expert for Question Bank Validation for B.Com CA in Fatima College, Madurai

Member of Experteze Research Team with Certificate of Membership as “Experteze Fellow” in Dec 2020

ABROAD VISIT

DETAILS

Attended International Leadership Seminar at Haggai International, Maui, Hawaii, USA from 5.11.2019 to 29.11.2019

RESOURCE PERSON

TOPICS

DETAILS

Applications of Image Processing	State Level Seminar on “Emerging Trends in Computers” at Holy Cross Home Science College, Tuticorin.
Image Processing – Image Enhancement using Photoshop	Workshop on “Image Processing & Virtual Reality” at Annammal College of Education for Women, Tuticorin
Java Swing	Guest Lecture at Lady Doak College, Madurai
Data Flow Diagrams	Guest Lecture at Lady Doak College, Madurai
Soft computing	National conference at Pope’s College, Sawyerpuram
Cloud Computing	Guest Lecture at Fatima College, Madurai.
Software Engineering	Guest Lecture at Fatima College, Madurai.
Applications of Image Processing	Guest Lecture at Thiagarajar college of Arts and Science, Madurai.
Google Classroom, Google Calendar and Google Form	Techno-sharing Session at Lady Doak College, Madurai
Creating and sharing presentation in Slideshare	Techno-sharing Session at Lady Doak College, Madurai
Software to make interactive presentation	Techno-sharing Session at Lady Doak College, Madurai

Microsoft PowerPoint	Training for Government School Head Masters at Lady Doak College, Madurai
Cloud Computing	Chief Guest for the Intercollegiate Meet at Mangayarkarasi College for Women, Madurai.
Recent Trends in IT	Chief Guest for the Association Inaugural at Pope's College, Sawyerpuram, Tuticorin
Using Google Hangouts for Teaching and Learning	Techno-sharing Session at Lady Doak College, Madurai
Presentation Tools	Techno-sharing Session at Lady Doak College, Madurai
Digital Entrepreneur	National Conference at Arul Anandar College, Madurai.
Cascading Stylesheets	Workshop on Website Creation & hosting for e-Business, EDP, Lady Doak College, Madurai
Recent Trends in IT	Chief Guest for the Association Valedictory at Fatima College, Madurai
ICT @ LDC	New Faculty Orientation at LDC for the Academic year 2019-2020
Machine Learning	Guest Lecture at EMG Yadava College for Women, Madurai
Working with Spreadsheet Applications	NTS Workshop at Lady Doak College, Madurai
Software Development Process	Guest Lecture at The American College, Madurai
ICT Enabled Teaching and Learning using Augmented Reality	Techno-sharing Session at Lady Doak College, Madurai
Data Visualization using R	Online Workshop at Lady Doak College, Madurai
Data Science : An Overview	FDP on "Data Science" at CMR Institute of Technology, Bangalore
Libre Office – Calc	Guest Lecture at Lady Doak College, Madurai
Python for Data Science	Webinar at Government Arts College, Paramakudi
Web Portal Creation	MVM Government Arts College for Women, Dindigul

RESEARCH EXPERIENCE

DETAILS

M.Phil. (Computer Science) Guidance - 2 Candidates

Evaluated M.Phil. Thesis, Mother Teresa Women's University, Kodaikanal

Evaluated M.Phil. Thesis, Bharathiyar University , Coimbatore

Member of Doctoral Committee for Ph.D Scholars at Sadakathullah Appa College, Tirunelveli

Co-Chair Person at International Conference on Soft Computing at Kamaraj College, Tuticorin on 10.8.2019

BOOKS EDITED / TRANSLATED / E-RESOURCES / PAPERS REVIEWED

DETAILS

Idainilai Aasiriyargal Arivial Paniyedaip Payirchi Muhaam – Guide for Tamil Nadu State Council for Science and Technology , 2017

e-Content on “Introduction to Data Communication and Networking

Video Content on “Data Preprocessing”

Reviewer of papers for International Conference on Soft Computing and Optimizing Techniques at Kamaraj College, Tuticorin

Translated modules for the e-Content on Data Mining for EMMRC, Madurai Kamaraj University

Book Chapter : Information Science in the Analytics of Healthcare Data – Book Title : Integrating AI in IoT Analytics on the Cloud for Healthcare Applications – Publisher : IGI Global Publishers, USA

PUBLICATIONS

INTERNATIONAL JOURNALS

Dr.M.Mohamed Sathik, G.Sofia, “Pick cubes for Object Picking in VR world”, The International Journal of Multimedia and Applications(IJMA), Vol. 2, ISSN No.:0975-5985, Feb.2010.

G.Sofia, Dr.M.Mohamed Sathik, “Histogram Equalization Methods for Contrast Enhancement in Facial Images”, International Journal of Computer, Communication and Information System(IJCCIS) , ISSN No.:0976-1349, Jan-Jun 2010.

G.Sofia, Dr.M.Mohamed Sathik, “Extraction of Eyes for Facial Expression Identification of Students”, International Journal of Engineering Science and Technology(IJEST), Vol. 2(7), Pg. 3024-3029, ISSN No.:0975-5462, Jul. 2010.

G.Sofia, Dr.M.Mohamed Sathik, “Pattern Recognition System to Classify Student’s Emotion using Forehead Wrinkles”, International Journal of Computer Applications(IJCA), Vol.29–No.5, Pg. 35-39, ISSN No. : 0975-8887, Sep. 2011.

Dr.M.Mohamed Sathik, G.Sofia, “Deriving Association between Student’s comprehension and facial expressions using Class Association Rule Mining”, International Journal of Engineering and Technology(IJET), Vol.5(3), Pg.377-385, ISSN No.: 2319-8613, Jun-Jul 2013. (SCOPUS Indexed)

Dr.M.Mohamed Sathik, G.Sofia, “Effect of Facial expressions on students comprehension recognition in Virtual Educational Environments”, SpringerPlus, ISSN No.: 2193-1801, Sep. 2013. (SCOPUS Indexed)

Dr.G.Sofia, Mr. J. Roshan Joshua, “Mobile Augmented Reality for M-Learning Rudiments of Musical Notes”, Journal of Applied Science and Computations (JASC), March 2021, ISSN No: 0022-1945

Dr. G.Sofia, Ms. Anjali, “Analysis of influencing risk factors for COVID-19 infection based on the predictive models using Machine Learning Algorithms”, Annals of the Romanian Society for Cell Biology, May 2021, ISSN No: 1583 – 6258 (SCOPUS Indexed)

PAPERS PRESENTED IN CONFERENCES

DETAILS

G.Sofia, Ravia Shabnam Parveen, Performance Evaluation of filtering techniques for speckle reduction in ultrasound images, National Conference, TamilNadu College of Engineering, Coimbatore, Jan 23- 25,2008.

G.Sofia, Ravia Shabnam Parveen, Performance Evaluation of filtering techniques for speckle reduction in ultrasound images, International Conference, Bishop Heber College, Trichy, Feb 9th, 2008.

Ravia Shabnam Parveen, **G.Sofia**, Shape analysis of breast tumors in ultrasound images, National Seminar, Sourashtra College, Madurai, Feb 28th 2008.

Ravia Shabnam Parveen, **G.Sofia**, Extraction of breast cancer features from Mammogram, National Conference, National Engineering College, Kovilpatti, Mar 6th & 7th 2008.

Ravia Shabnam Parveen, **G.Sofia**, Comparison of Sobel & Susan Edge Detector in Mammogram Images, National Conference, Mepco Schlenk Eng. College, Sivakasi, Mar 12th 2008.

Ravia Shabnam Parveen, **G.Sofia**, A comparative study on image resolution enhancement algorithms, National Conference, Kalasalingam univ, Virudhunagar, Mar 14th & 15th 2008.

Ravia Shabnam Parveen, **G.Sofia**, Role of shape in the identification of breast tumors in ultrasound images, National Conference, Kamaraj college of Engineering, Virudhunagar, Apr 4th 2008.

Analysis of Image resolution enhancement algorithms, National Conference, KLN College, Madurai, Apr 10th 2008.

Ravia Shabnam Parveen, **G.Sofia**, Identification of breast tumors in ultrasound images, National Conference, Kodaikanal Christian College, Kodaikanal, Sep 19th 2008.

G.Sofia, Dr.M.Mohamed Sathik, Reduction of false +ves using bilateral subtraction technique in breast ultrasound images, International Conference, Kamaraj College of Eng. & Technology, Virudhunagar, Jan 8th & 9th 2009.

G.Sofia, Dr.M.Mohamed Sathik, “Adaptive Histogram Equalization Method for Contrast Enhancement in facial images”, National Conference on Advanced Computing and Communication Technologies (ACCT ‘09), Holy Cross College, Trichy, Feb, 20-21, 2009.

Dr.M.Mohamed Sathik, **G.Sofia**, “Performance Evaluation of methods for Illumination Normalization in Face Recognition”, International Conference on Photonics, Nanotechnology and Computer Applications(ICOPNAC ‘09), PRIST University, Thanjavur, Feb, 25-28, 2009.

Dr.M.Mohamed Sathik, **G.Sofia**, “Performance Evaluation of Edge Detection Methods for Facial Images”, National Conference on Emerging Trends in Computing and Network Technologies (ECNT ‘09), KLN College of Information Technology, Pottapalayam, Mar, 19-20, 2009.

G.Sofia, Dr.M.Mohamed Sathik, “Morphological operation for Illumination Normalization in Facial Images”, International Conference on Advanced Computing, Bharathidasan University and Cauvery College for Women(ICAC ‘09), Trichy, Aug, 6-8, 2009.

G.Sofia, Dr.M.Mohamed Sathik, “An Iterative approach for Mouth Extraction In Facial Expression Recognition”, International Conference on Information Science and Applications 2010, Panimalar Engineering College(ICISA 2010), Chennai, Feb, 6, 2010.

G.Sofia, Dr.M.Mohamed Sathik, “Object Picking using Cubes in VR world”, National Conference on Advanced Pattern Mining and Multimedia Mining (APMMC ‘2010), National Institute of Technology, Trichy, Feb, 25-26, 2010.

G.Sofia, Dr.M.Mohamed Sathik, “Knowledge-based approach for face localization”, National Conference on Recent Trends in Soft Computing(NCRTSC ‘10), Thiagarajar School of Management, Madurai, Feb, 27, 2010.

Dr.M.Mohamed Sathik, **G.Sofia**, “Knowledge based approach with k-means clustering for face Localization”, International Conference on Emerging Trends in Mathematics and Computer Applications(ICETMCA ‘2010), Mepco Schlenk Engineering College, Sivakasi, Dec, 16-18, 2010.

Dr.M.Mohamed Sathik, **G.Sofia**, “Identification of Student Comprehension using forehead wrinkles”, IEEE International Conference on Computer, Communication and Electrical Technology (ICCET ‘2011), National College of Engineering, Tirunelveli, Mar, 18th,19th 2011(Published in IEEE Xplore.)

Dr.G.Sofia, Ms.Anjali, “Analysis of influencing factors for COVID-19 infection based on the predictive models using Machine Learning Algorithms” Virtual Conference on Smart Computing and Advanced Communication (SAC ’21) Organized by PSNA College of Engineering, Dindigul on March 30th 2021

FDP / SEMINARS / WORKSHOPS / CONFERENCES ATTENDED

DETAILS

Workshop on “OOAD with UML and Rational Unified Process Visual Modelling with Rational Rose” at KGISL-IIM, Coimbatore, Jan, 20-21, 2006.

National Conference on “Current trends in Image Processing and Algorithms” at The American College, Madurai, Apr, 22, 2006.

Faculty Development Programme on “Achieving Academic Excellence” at CII, Madurai, Sept,2,2006.

IT-ITES Industry Academia Meet conducted by Bannari Amman Institute of Technology & Nasscom, Dec, 27, 2006.

Industry-Institute Interface at Fatima College(Autonomous), Madurai, Apr, 2-3, 2007.

Seminar on ‘Multicore Architecture’- Opportunities and Challenges conducted by Intel Corporation & Thiagarajar college of Engineering, Madurai, Jul, 27, 2007.

Faculty Development Programme on “Web Development on free and Open Source Software” Conducted by IBM, Feb, 2-3, 2008.

Workshop on “Being an Effective Teacher” at Lady Doak College, Madurai, Jun, 9-13, 2008.

Training on “MAYA(Basics)” conducted by 4th Dimension, Madurai, Feb, 2-28, 2009

Workshop on “Pedagogy of Women ‘s Studies” at Lady Doak College, Madurai, Aug, 8, 2009.

Workshop on “Teaching Women’s Studies” at Lady Doak College, Madurai, Feb, 3, 2010.

Workshop on ‘Recent Trends in Satellite Image Processing” conducted by Thiagarajar college of Engineering, Madurai, Sep, 17-18, 2010.

Seminar on ‘Emotional Intelligence” conducted by Centre for Educational research, Madurai Kamaraj University, Madurai, Nov, 23-24, 2010.

Workshop on “J2EE” at Lady Doak College, Madurai, Jan, 18-21, 2011.

Workshop on “Women in Political Participation” at Lady Doak College, Madurai, Jan, 22, 2011.

Workshop on “Gender Audit” at Lady Doak College, Madurai, Oct, 26, 2012.

Workshop on “Recent Trends in Data Mining using WEKA” at Lady Doak College, Madurai, Jan, 31, 2013.

Workshop on ‘Applications of Soft Computing Techniques in Information Retrieval and Knowledge Discovery” conducted by Thiagarajar college of Engineering, Madurai, Apr, 10, 2013.

National Conference on “ICT- A Catalyst of change for Transforming, Teaching, Learning & research in Commerce, Computer Science & Management Education” at Lady Doak College, Madurai, Feb, 3, 2010.

State Level Faculty Workshop on “Legislations on Women – Legal Literacy, Awareness and Implementation” at Lady Doak College, Madurai, Feb, 20-21, 2014.

Google Analytics Academic Course on “Ecommerce Analytics : From Data to Decisions” at Lady Doak College, Madurai, Jul, 2014.

Seminar on “UN Women-Relevance to Indian Women” at Lady Doak College, Madurai, Jul, 31, 2014.

Workshop on “Digital Image Processing using Scilab” at Lady Doak College, Madurai, Aug, 5, 2014.

State level Workshop on “Big Data Analysis, Mining and Tools” at Lady Doak College, Madurai, Feb, 27, 2015.

Intercollegiate Faculty Workshop on “Pedagogy of Women’s studies” at at Lady Doak College, Madurai, Mar, 5th, 2016.

IEEE Faculty Development Programme on “Hands on Training on Hadoop” conducted by Thiagarajar college of Engineering, Madurai, Jul, 15th,16th, 2016

FDP on “Introduction to IoT”, KLN College of IT & ICTACT, Feb 15h-17th 2017

Workshop on “Deep Learning”, Mepco Schlenk College, Sivakasi, Jul 29th , 2017

Workshop on “Restructring Christian Studies Syllabus” , Lady Doak College, Dec 11th 2017

Workshop on “Research Motivation & Grant Proposal Preparation, “, Lady Doak College, Dec 12th 2017

FDP on Introduction to Big Data Analytics, VHNSN College, Virudhunagar, Feb 14th & 15th 2018

Salesforce Academic Summit 2018 organised by Salesforce & ICTACT, May 8th,2018

National Conference on Quality Sustenance in Higher Education Institutions organized by IQAC, Lady Doak College, Madurai, Sep 6th & 7th 2018

Workshop on “Research Trends in Machine Learning”, Lady Doak College, Madurai, Sep 28th , 2018

International Conference(Online), AWSome Day – AWS , Oct 31st, 2018

Workshop on “Automated Testing Tools”, Mepco Schlenk College, Sivakasi, Feb 14th – 16th 2019

National Workshop on “The Next Age Teaching Technology - More Human than Ever”, Lady Doak College, Madurai, Feb 20th 2019

FDP on “Open Book Assessment”, Lady Doak College, Madurai, Mar 20th 2019

Faculty Enrichment Programme on “Cloud Masters 2019”, KLN College of Engineering, Madurai, May 17th 2019

FDP on “Artificial Intelligence in Education”, Mother Teresa Women’s University, Kodaikanal, Aug 5th 2019

FDP on “Developing and Deploying Machine Learning & Deep Learning algorithms using MATLAB & SIMULINK”, Lady Doak College, Madurai, Aug 7th 2019

Workshop on IoT Applications using TI CC3200 ARM Processor , Lady Doak College, Madurai, Aug 23th – 24th 2019

FDP on Python Programming, ICTACT & Lady Doak College, Madurai, Aug 26th – 30th 2019

FDP on “End-to-End Processes in Data Analytics”, SSN College of Engineering, Kalavakkam, Nov 2nd – 6th 2020

Online Workshop on “Image Analytics in Healthcare”, CIRF, Chennai, Feb. 25th – 27th 2021

Online FDP on “ Exploring Math and Artificial Intelligence Techniques for Engineering and Science Applications”, Thiagarajar College of Engineering, Madurai, Jun. 3rd – 5th 2021

Online Live FDP on “ Big Data Analytics”, ICTACADEMY, Apr. 19th – 23rd May 2021

Online Live FDP on “ Fundamentals of AI & ML”, ICTACADEMY, May 10th – 14th May 2021

Online FDP on “Technologies for the new Era”, Cauvery College For Women, Trichy, 22nd Jan 2022.

Online Live FDP on “ Microsoft Azure AI Fundamentals”, ICTACADEMY, March 14th – 16th March 2022

TRAININGS ATTENDED

TOPIC	ORGANIZED BY	FROM	TO
Digital Image Processing	Dept of CS, LDC	11-07-2008	12-07-2008
Maya	Dept of CS, LDC	04-02-2009	26-02-2009
PC Hardware Training	Dept of CS, LDC	01-03-2010	13-03-2010
J2EE	Dept of CS, LDC	18-01-2011	21-01-2011
Cloud Computing	Dept of CS, LDC	18-03-2014	-
Android	Dept of CS, LDC	18-09-2013	-
Web Analytics	Dept of CS, LDC	22-07-2014	26-07-2014
Digital Image Processing using SCILAB	Dept of CS, LDC	05-08-2014	-
Research Trends in Data Mining(Weka)	Dept of CS. LDC	31-01-2013	-
Training on Python	IIT Bombay & LDC	28-02-2018	-

PROGRAMMES ORGANIZED

DETAILS

Inter collegiate Meet – Sizzlers’07 @ Fatima College, Madurai,

National conference – ICT – A catalyst for transformation in Teaching and Learning in Commerce, Computer Science and Management Education – 2014 @ Lady Doak College, Madurai.

State Level Workshop on Big Data Analysis - 2015 @ Lady Doak College, Madurai.

National Workshop on Science Film Making sponsored by Vigyan Prasar – 2017 @ Lady Doak College, Madurai

Interactive Session on Innovation in Teaching & Learning with Technology – 2018 @ Lady Doak College, Madurai

Workshop on ICT Tools for Teaching - 2019 @ Lady Doak College, Madurai

Cloud Literacy Day 2019 @ Lady Doak College, Madurai

OTHERS

RESPONSIBILITIES	PERIOD
Member of Green Club	2004-2005
Convener for Junior Jaycee	2005- 2008
Member of Library Service Program	2008-2010
Member of NSS	2010-2011
Co-ordinator of Centre for Communication and Multimedia	2017-2019
Co-ordinator of Audio-Visual Club	2018-2019
Member of Research Culture Promotion Cell	2019-2020
Member of Centre for Human Resource Development	2019-2020
Member of SWAYAM	2019-2020
Member of Online Education Committee	2019-2020
Member of Curriculum Planning & Evaluation Cell	2020-2022
Coordinator of Centre for Human Resource Development	2020-2022

