Faculty Profile

Name : Dr.D.SUDHA

Designation : Assistant Professor

Address : Department of Computer
Applications

  Chikkanna Government Arts College,

  Tirupur- 641 602,

  Tamilnadu, India

Contact Number : 9566683237

Email ID :sudha0719@gmail.com

Date of Joining in Collegiate Education :29.07.2015

Date of Joining in the Present College :06.10.2015

Academic Profile :

Degree	Institute/College	University	Period
Ph.D.	Mother Teresa Women's University	Mother Teresa Women's University	August 2023
SET	Bharathiar University	Bharathiar University	October 2012
M.Phil.	Periyar University	Periyar University	June 2007
M.C.A	Bharathidasan University	Bharathidasan University	April 2003
B.Sc.	Nehru Memorial College, Puthanampatti, Trichy	Bharathidasan University	April 2000

Teaching Experience :

   i) **Total** : 16 **Years 6 Months**

   ii) **UG** : 16 Years 6 Months

   iii) **PG** : 1 Year

Name of the college	Position held	Period
Chikkanna Government Arts College, Tirupur	Assistant Professor	06.10.2015 – Till date
Sri SubramayaSwamy Government Arts College, Tiruttani	Head & Assistant Professor	29.07.2015-5.10.2015
KGF First Grade College, KGF	Lecturer	10.8.2008-27.8.2015
Sri Jayendra Saraswathi Maha Vidyalaya College of Arts & Science	Lecturer	20.07.2007 – 8.3.2008

Field of Interest :

   i)   **Teaching**   : C, C++, JAVA, LINUX, PYTHON
   ii)   **Research**   : MANET
   iii) **Proficiency in instrumentation** :-

Research Guidance
Guidance Number   : M.Phil. Guideship in BU - 16341/A2/2016
(If have more than one university, given them
against university name)

S. No	M.Phil/Ph.D	Name of the Student	Thesis Title	Completed/ongoing
		NIL		

Research Publications :

   i)   **Research Papers**   : Annexure **– I**

   ii)   **Book/Book Chapters** : Annexure **– I**

National and International Conferences : Annexure – II

   i)   **Participated**   **: 4**
   ii)   **Paper Presented**   **: 9**

Conference/Seminars Organized   :

   Organized   International Wired Web series, national level online seminar during June 17-19, 2020.

Workshop attended   : 6 (Annexure – III)

Faculty Development Programs Attended : 12

Course	University/Institute	Subject	Period
UGC Sponsored Orientation program	Academic staff college, BharathiarUniversity, Coimbatore	Orientation program	16.12.2016 to 12.1.2017
UGC Sponsored Refresher Course	Academic staff college, BharathiarUniversity, Coimbatore	Computer Science	13.02.2019 to 05.03.2019
Two Day Faculty Development Programme on Design, Develop and Deliver online courses through MOODLE platform	TANSCHE with DOTE, Chennai	MOODLE Platform	15.5.2020 to 16.5.2020
UGC Sponsored Online Short Term Course on Cyber Crime	UGC-HRDC, Bharathiar University	Cyber Crime	19.8.2020 to 21.8.2020
Pedagogy and Research Methods	HRDC and IQAC, Academy of Maritime Education and Training, (AMET) Chennai	Pedagogy and Research Methods	24.5.2021 to 6.6.2021
One Week Faculty Development Program on App Development with Android	E&ICT Academy, IIT Kanpur	App Development with Android	7.6.2021 to 12.6.2021
One Week Faculty Development Program on Python	E&ICT Academy, IIT Kanpur	Python	14.6.2021 to 19.6.2021
Online Two-Week Refresher Course	Teaching Learning Centre, Ramanujan College, University of Delhi	Computer Science	29.06.2021 to 13.07.2021
One Week Faculty Development Program on Advanced Excel with Data Visualization	E&ICT Academy, IIT Kanpur	Advanced Excel with Data Visualization	21.6.2021 to 26.6.2021

In-Service Training Programme	TANSCHE, LRG College, Tirupur	Computer Science	5.5.2022 to 6.5.2022
Faculty Development Program On Machine Learning With Python	Tamilnadu Skill Development Corporation	Machine Learning With Python	30.1.2023 to 3.2.2023
Online Two-Week Refresher Course	Teaching Learning Centre, Ramanujan College, University of Delhi	Computer Science	13.03.2023 to 27.03.2023

Academic Activities   :

    i) Subject Handled   **:** C, C++, Java, Linux, Python, VB

    ii) Class Advisor   **:** UG   2015-2018 Batch

                                            2018-2021 Batch

                                            2022-2025 Batch

    iii) Special Coaching   **:** Soft Skills (TANSCHE)

                                             Naan Mudhalvan – Machine Learning

    iv) **Co-curricular activities**   **:** Naan Mudhalvan – Machine Learning Programme Co-Ordinator

    v) **Extra-curricular activities**   **:** Member, Internal Complaints Committee
Co-Ordinator, Napkin Vending Machine
Member, IQAC
Assistant Co-Ordinator for Science Stream, Naan Mudhalvan Programme

Professional Activities   :

    i)   **Examiner/Scrutiny**   **:** Examiner in UG/PG paper valuation in colleges and universities
External Examiner in Bharathiar University Practical Examinations and affiliated colleges
External Examiner in Periyar University Practical Examinations Autonomous Colleges

    ii)   **Question Paper Setting**   **:** Periyar University, Alagappa University
    iii)   **Subject Expert**   **:** Directorate of Collegiate Education Guest Lecturer Selection Committee

Member

Annexure – I

1. Published a Paper in "Shanlax International Journal of Arts, Science and Humanities" ISSN No:2321 – 788X titled on "Literature Study on Various Privacy Preserving Routing Protocols for MANET".

2. Published a Paper in "International Journal of Advanced Research in Computer and Communication Engineering" ISSN(Online) : 2278-1021, ISSN(Print): 2319-5940, Impact Factor 5.332 titled on " The Security Schemes Implemented in Mobile Ad-Hoc Networks in Volume 5, Issue 4, April 2016.

3. Published a Paper in "American Journal of Engineering and Applied Sciences" ISSN:1941-7020 (Print) ISSN:1941-7039 (Online), titled on " AI Based Mobile Bill Payment System using Biometric Fingerprint" in Volume 15, pp 23-31, Feb 2022.

4. Published a Paper in "International Journal of Humanities, Law and Social Sciences" ISSN : 2348-8301 Vol IX, Issue 1, No.01 :2022 titled on " The Effect of ETUS in Various Generic Attacks in Mobile Adhoc Networks to improve the Performance of AODV Protocol" in Mar 2022.

5. Published a Paper in "International Journal of Stochastic Modeling& Applications" ISSN : 0972 - 3641 Vol.26 No.3 Special Issue 2022 Part 9 titled on " An Intrusion Detection system to Detect and Mitigating Attacks using Hidden Markov Model(HMM) Energy Monitoring Technique" in June 2022.

6. Published a Paper in "International Journal of Stochastic Modeling& Applications" ISSN : 0972 - 3641 Vol.26 No.3 Special Issue 2022 Part 9 titled on " An Intrusion Detection system to Detect and Mitigating Attacks using Hidden Markov Model(HMM) Energy Monitoring Technique" in June 2022.

7. Published a Paper in "International Journal of Early Childhood Special Education (INT-JECSE)" ISSN: 1308-5581 Vol 15. Issue 02 2023 titled on "The Performance Enhancement of AODV Protocol using GETUS" in Feb 2023.

8. Published a Book Chapter in "Security and Privacy-Preserving Techniques in Wireless Robotics" CRC Press ISBN: 1000510174 Page No.41-54 titled on "Enhanced Intrusion Detection Response and Mitigating Attacks using Umpiring Security Models for Wireless Sensor Networks" in Aug 2022.

9. Published a Book Chapter in "Methods, Implementation and Application of Cyber Security Intelligence and Analytics" IGI Global ISBN: 1668439913 EISBN: 9781668439937 Page No.151-164 Indexed in SCOPUS titled on "Artificial Intelligence-Based Billing System: Fingerprint Mechanism" in June 2022.

Annexure – II

1. Presented a paper titled "Comparative Study of Image Compression Algorithm "National Conference on "Current Trends in Advanced Computing and IT Applications" organized by Department of Computer Science Sri BhagawanMahaveer Jain College, KGF, Karnataka on 1.3.2013 &2.3.2013.

2. Presented a paper titled "Analysis on Various Protocols for MANET" One day National Conference on Emerging Trends in IT, organized by Department of Computer Science and Application, Islamiah Women's Arts and Science college,   Vaniyambadi   on   19.2.2015.

3. Presented a paper titled "Literature Study on Various Privacy Preserving Routing Protocol for MANET" One day National Conference on Emerging Trends in IT, organized by Department of Computer Science and Application, IslamiahWomens Arts   and   Science   college,   Vaniyambadi   on19.9.2015.

4. Presented a paper titled "Comparative Analysis of Trust Based Security Models in MANET" One day National Conference on "Competency Building Strategies in Business and Technology for Sustainable Development " organized by Department of Commerce, Computer Science & Electronics, S.E.A College of Science, Commerce &   Arts   Bangalore,   Karnataka   on   11.2.2017.

5. Presented a paper titled "A Review of Various Security Threats in MANET" One day National Conference on "Digital Transformation - Challenges and Outcomes" ASAT in CS'17" organized by Department of Computer Science, St. Anne's First Grade College   for   Women,   Bangalore   on   3.3.2017.

6. Presented a paper titled "Defended Data Transmission Using Trust Calculation Method in Mobile Adhoc Network" One day National Seminar on "Emerging Trends in Physical, Natural and Information Sciences" organized by Department of Science, S.E.A College of Science, Commerce & Arts, Bangalore, Karnataka on 15th March 2018.

7. Presented a paper titled "Current Trends of Nanotechnology for Cancer Therapy" One day TNSCST Sponsored National Seminar on "Current Innovations& Future perspectives in Nano science and Technology" organized by Department of Physics ,Chikkanna Government Arts College, Tirupur on 1st February 2019.

8. Presented a paper titled "EIDR System for MANET using Trust Inference Model" One day "International Conference on Recent Trends and Advances in Communication Technology and Data Science 2022 (ICRTACTDS - 2K22)" organized by Department of Science and BCA, Mangayarkarasi College of Arts and Science for Women, Madurai on 14.10.2022.

Annexure – III

1. Participated the UGC Sponsored State Level Workshop on "Research Directions in Data Mining "organized by Department of Computer Science, Gobi Arts & Science College, Gobichettipalayam on 22nd& 23rd January2016.

2. Participated "Two days Workshop on Network Security" organized by Network Bulls and Redmap E-learning Solution in Partnership with E-Cell, IIT Kanpur on 1.3.2016 & 2.3.2016 at Department of Computer Science, SNR Sons College, Coimbatore

3. Participated the Hands-on Training Programme on "Network Simulator-NS2" "organized by School of Communication and Computer Sciences Department of Computer Science and Engineering, Kongu Engineering College, Perundurai, Erode, on 5.8.16 to 7.8.2016.

4. Participated the Two Days Workshop on "Research Methodology for Ph.D. Scholars" "organized by Mother Teresa Women's University, Kodaikanal on 18.8.2016 &19.8.2016

5. Participated the Two Days Workshop on "Python Programming" "organized by Post Graduate Department of Computer Applications on 21.2.2018 &22.2.2018.

6. Participated in One day workshop on NAAC Rules organized by Internal Quality Assurance Cell, Chikkanna Government Arts College, Tirupur on 25.3.2023.