

NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)

COIMBATORE

STAFF PROFILE

NAME : Dr.Usha Devi.R
DESIGNATION :Assistant Professor
DEPARTMENT : Data Science
QUALIFICATION :M.Sc.,M.Phil.,Ph.D
EXPERIENCE :10 Years
AREAS OF SPECIALIZATION :Networks,Data Structure & Algorithm,
Data Mining,
E-MAIL :ushaofficial16@gmail.com
ACADEMIC QUALIFICATIONS :

DEGREE	YEAR OF COMPLETION	NAME OF THE INSTITUTION	CLASS
Ph.D	2025	Sri Krishna Arts & Science College ,Coimbatore	-
M.Phil	2018	Sri Nehru Maha Vidhyalaya College of Arts & Science,Coimbatore	-
M.Sc	2008	Avinashilingam Institute for Home Science & Higher Education for Women	First Class with Distinction
B.Sc	2006	Avinashilingam Institute for Home Science & Higher Education for Women	First Class with Distinction

ADDITIONAL QUALIFICATIONS: NIL

DIPLOMA/ VOCATIONAL/ CERTIFICATION	AREA OF SPECIALIZATION	NAME OF THE INSTITUTION/ UNIVERSITY/ AGENCY	YEAR

RESEARCH GUIDANCE: Nil

PROGRAMME	NO. OF SCHOLARS	
	COMPLETED	PURSUING
Ph.D		
M.Phil		

RESEARCH PUBLICATIONS:

INTERNATIONAL:

- [1] **Mrs.R.Ushadevi**, “Implementation of fuzzy inference system for improved optimization in underwater wireless sensor networks”, International Journal of Scientific Research and Review (IJSRR) No-64656 & Journal of Analytics and Computation (JAC) No-26412, March 2019.
- [2] **Mrs.R.Ushadevi**, “Impact of Social Media on Youth In The Digitized Era”, The International Journal Of Analytical And Experimental Modal Analysis(IJAEMA),ISSN 0886- 9367.

NATIONAL:

- [1] **Mrs.R.Ushadevi** and Dr.P.Subhasini .“Image decomposition using Stationary Wavelet Transformation” Proceedings of national conference on Recent Research Trends in Information Technology-NCRIT-2008, RV College of Engineering Bangalore, 7th-8th March2008.
- [2] **Mrs.R.Ushadevi.**”Detection of malicious node present in Wireless Sensor Networks” Mukta Shabd, July 2020 Vol-09 Issue-7 ISSN: 2347-3150 Pg.No 2538-2545 UGC Care List Group- I Journal.
- [3] Ms.R.Hari Priya ,**Mrs.R.Usha Devi** “Heart Disease Prediction Using Machine Learning”, Mukta Shabd, April 2021 Vol-10 Issue- 4 ISSN: 2347-3150 Pg.No 161-165 UGC Care List Group- I Journal
- [4] **Mrs.R.Usha Devi** & Dr.NA.Sheela Selvakumari,has published a paper titled ”CROP PREDICTION AND MAPPING USING SOIL FEATURES WITH DIFFERENT MACHINE LEARNING TECHNIQUES”, Journal of Education:Rabindra Bharati University.ISSN: 0972-7175.VolumeXXIV ,2021-2022 (**UGC Care Journal**)
- [5] **Mrs.R.Ushadevi** and Dr.N.A.Sheela Selvakumari “Enhanced Model to Handle Data Sensitivity for Crop Yield Prediction using Machine Learning Techniques”,Journal of Basic Science and Engineering ,2023,Vol-20,ISSN :1005-0930.

PRESENTATIONS IN CONFERENCE:

INTERNATIONAL:

- [1] **Mrs.R.Usha Devi** & Dr.NA.Sheela Selvakumari has presented and published a paper titled”CROP PREDICTION AND MAPPING USING SOIL WITH DIFFERENT

MACHINE LEARNING TECHNIQUES” in the 1 st International Conference on Computational Intelligence and Innovative Technologies (ICCIIT – 2022) , at IICMR Pune -44 on 16th and 17th April 2022.

NATIONAL:

- [1] **Mrs.R.Usha Devi & Dr.NA.Sheela Selvakumari** has presented and published a paper on “SOIL AND CROP MAPPING FOR CROP PREDICTION USING MACHINE LEARNING TECHNIQUES” in the International Conference on “Research Practices of Cutting Edge Technologies in Computing” organized by PG & Research Department of Computer Science, Sri Ramakrishna College of Arts & Science, Coimbatore from 11-11-2021 to 12-11-2021.

PARTICIPATION IN CONFERENCES:

- [1] On 16.10.2025, participated in the National programme on *National Intellectual Property Awareness Mission*, organized by IPR India, conducted in online mode.

PARTICIPATION IN SEMINARS:

- [1] On 10.12.2025, participated in the National programme on *Smart Research Practices: AI, Online Tools & Zotero for Academicians* organized by the Department of Library and Information Science, Nirmala College for Women, Coimbatore, conducted in hybrid mode.

PARTICIPATION IN WORKSHOPS:

- [1] Workshop on Python Programming organized by the Department of Computer Science, Dr. M.G.R. Educational and Research Institute, Chennai-600095, Tamilnadu, India on 08.11.2021.

PARTICIPATION IN ORIENTATION PROGRAMME/ INDUCTION PROGRAMME/ SHORT TERM COURSES:NIL

PARTICIPATION IN FACULTY DEVELOPMENT PROGRAMMES:

- [1] **Participated** in the FDP on *Moodle Learning Management System* from 29/04/2020 to 01/05/2020.
- [2] **Attended** the FDP on *Importance of Patents and Copyrights in HEIs* on 02/05/2020.
- [3] **Participated** in the FDP on *How to Develop E-Content & Auto Generate E-Certificate Using Google Forms* on 05/05/2020.
- [4] **Attended** the FDP on *Data Analysis & Visualisation of COVID-19 Dataset Using Python* on 07/05/2020.

- [5] **Participated** in the FDP on *Improving Your Research Visibility, Research Impact & Metrics* from 11/05/2020 to 13/05/2020.
- [6] **Attended** the FDP on *Impact of AI in Education & Industry Post COVID-19* from 11/05/2020 to 13/05/2020.
- [7] **Participated** in the *IPR Awareness Program* from 11/05/2020 to 14/05/2020.
- [8] **Attended** the FDP on *Drupal* from 11/05/2020 to 15/05/2020.
- [9] **Participated** in the FDP on *Digital Life Science* on 15/05/2020.
- [10] **Attended** the program on *Essentials of Immersive Learning* on 19/05/2020.
- [11] **Participated** in the program on *Data Science – Research Opportunities* on 21/05/2020.
- [12] **Attended** the two-day online program on *Online Teaching Methods* on 21/05/2020 and 22/05/2020.
- [13] **Participated** in the FDP on *Graph Theory – A Research View* on 26/05/2020.
- [14] **Attended** the FDP on *Emerging Trends and Applications in IoT* on 30/05/2020.
- [15] **Participated** in the two-day online FDP on *Effective Learning and Teaching Practices in Digital Era* from 08/06/2020 to 09/06/2020.
- [16] **Attended** the FDP on *Techniques in Enhancing Teaching & Learning Skills* from 15/06/2020 to 19/06/2020.
- [17] **Participated** in the program on *Moving to Master Science in Technology* from 18/06/2020 to 20/06/2020.
- [18] **Attended** the program on *Mastering the Art of Handling Post COVID Challenges for Sustainable Development* from 19/06/2020 to 23/06/2020.
- [19] **Participated** in the FDP on *Emerging Trends in Information Technology* from 23/06/2020 to 27/06/2020.
- [20] **Attended** the program on *Online Teaching and Learning Tools* on 26/06/2020.
- [21] **Participated** in the program on *ICT Tools for Effective Teaching* on 01/07/2020.
- [22] **Attended** the program on *Developing E-Content for Effective Teaching Learning Process* on 01/07/2020.
- [23] **Participated** in the FDP on *Emerging Trends in Ethical Hacking and Cyber Security* on 01/07/2020 and 02/07/2020.
- [24] **Attended** the National Level FDP/SDP on *Recent Developments in Material Science and Radiation Technology* from 08/07/2020 to 10/07/2020.
- [25] **Participated** in the FDP on *Agile Methodologies, IT Security and Deep Generative Models* from 09/07/2020 to 11/07/2020.
- [26] **Attended** the program on *Teaching Statistics Using Case Study Approach* on 14/07/2020.
- [27] **Participated** in the National Level FDP on *E-Content Development and Tools for E-Content Development* on 14/07/2020.
- [28] **Attended** the FDP on *Digital Tools for Conducting Virtual Classes* from 06/07/2020 to 10/07/2020.
- [29] **Participated** in the FDP on *Recent Trends in Information Technology* from 13/07/2020 to 18/07/2020.
- [30] **Attended** the program on *Importance of Patents and Copyrights in Higher Educational Institution* on 02/05/2020.
- [31] **Participated** in the webinar on *Art of Teaching Excellence in Digital Era* on 04/05/2020.
- [32] **Attended** the program on *Data Science* on 06/05/2020.

- [33] **Participated** in the program on *Machine Learning* on 10/05/2020.
- [34] **Attended** the webinar on *Personal Effectiveness – Need of the Hour* on 14/05/2020.
- [35] **Participated** in the International Webinar on *Sentiment Analysis – Concepts and Applications* on 14/05/2020.
- [36] **Attended** the webinar on *Breaking Barriers Through Brains* from 18/05/2020 to 20/05/2020.
- [37] **Participated** in the International Webinar on *Cloud Computing and Data Analytics in COVID-19* on 22/05/2020.
- [38] **Participated** in the FDP on *Teaching Methodologies* from 22.10.2025 to 29.10.2025, organized by Stella Matutina College of Education, Chennai, and Nirmala College for Women, Coimbatore, conducted in online mode.
- [39] **Participated** in the FDP on *Blockchain and Digital Transformation* From 14.11.2025 to 20.11.2025, organized by Digital SouthTrust, conducted in online mode.

CONFERENCE/ SEMINAR/ WORKSHOP ORGANIZED:

- [1] State Level Workshops on “Master Your Studies With AI: Tools Tips” on 19.08.25
- [2] Seminar on the Topic “Power BI” on 02.09.2025
- [3] Workshop on the Topic “Leveraging Advanced Excel: From Functions to Interactive Dashboards” on 23.09.2025
- [4] Awareness Workshop on the Topic “Career Opportunities in AI-IIC” on 27.11.2025
- [5] Hands on Training on Topic “SCI LAB IN ACTION” on 20.01.2026 and 21.01.2026

INVITED SPEAKER/ SESSION CHAIR- CONFERENCE/ SEMINAR/ WORKSHOP:

NIL

BOOK PUBLICATIONS:

- [1] In 2025, authored lecture notes on *Design and Analysis of Algorithms* with ISBN 97881982494-1-8.
- [2] In 2024, authored lecture notes on *Data Structure and Algorithms* with ISBN 9788199300552.
- [3] Digital Image Processing –Objective Guide in Amazon Kindle.
- [4] Networking Skills in Amazon Kindle.
- [5] Database Administration and Management - Objective Guide in Amazon Kindle
- [6] Seyarkkai Nunarivu in Amazon Kindle ISSN No : BO93DLSNMT 2021

MEMBER IN BOARD OF STUDIES:NIL

EDITORIAL/ REVIEW BOARD MEMBER: NIL

MEMBERSHIP IN PROFESSIONAL BODIES: NIL

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