

NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)
COIMBATORE
STAFF PROFILE

NAME : Dr.A.JANSI RANI

DESIGNATION : Dean of Extension & Outreach &
Head of the Department

DEPARTMENT : Information Technology

QUALIFICATION : M.C.A, M.Phil., Ph.D

EXPERIENCE : 19 years and 4 months

AREAS OF SPECIALIZATION : Data Mining, Network Security

E-MAIL : jansirmalraj@gmail.com,
jansirani@nirmalacollegeonline.ac.in

ACADEMIC QUALIFICATIONS :

DEGREE	YEAR OF COMPLETION	NAME OF THE INSTITUTION	CLASS
Ph.D	2024	Government Arts College, Coimbatore	First Class
M.Phil	2007	Bharathiar University	First Class
M.C.A.	2004	Bharathiar University	First Class
B.Sc. (Applied Science) Computer Technology	2001	Coimbatore Institute of Technology, Coimbatore	First Class

ADDITIONAL QUALIFICATIONS:

DIPLOMA/ VOCATIONAL/ CERTIFICATION	AREA OF SPECIALIZATION	NAME OF THE INSTITUTION/ UNIVERSITY/ AGENCY	YEAR
Diploma	Java Programming	Palpap Institute, Coimbatore	2001
Certification	Lead Auditor	Nature Science Foundation, Coimbatore	2025
Diploma	Foundations of Blockchain Technology and Applications	Digital South Trust in collaboration with Nirmala College for Women, Coimbatore	2026

Certification	An Introduction to digital Ethics	Centre for Holistic Teaching and Learning, Hong Kong Baptist University, Hongkong	2026
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RESEARCH PUBLICATIONS:

INTERNATIONAL:

- [1] A.Jansi Rani, Quantum Resistant Cryptography – A Perspective on its impact in Security, Multi - Disciplinary Application Perspective in IoT (NCIoT'20), 2020
- [2] A.Jansi Rani, Quantum Resistant Cryptography – A Perspective on its impact in Security, Our Heritage(2020), Vol-68-Issue 19-January-2020
- [3] Jansi Rani Amalraj, Robert Lourdusamy, “A Novel Distributed Token-Based Access Control Algorithm using a secret sharing scheme for Secure Data Access Control”, International Journal of Computer Networks and Applications (IJCNA), Volume 9, Issue 4, 2022
- [4] Jansi Rani Amalraj, Robert Lourdusamy, “Security and privacy issues in federated healthcare – An overview”, Open Computer Science, De Gruyter Open Access, Volume 12, Issue 1, January 2022, (Web of Science (ESCI - Emerging Sources Citation Index) and Scopus)
- [5] Jansi Rani Amalraj, Robert Lourdusamy , "Secure Transmission of Healthcare Data in Heterogeneous Networks "- IJFMR Volume 6, Issue 2, March-April 2024. DOI 10.36948/ijfmr.2024.v06i02.15918
- [6] N Abirami, A.Jansi Rani, S.Regha, P.Anitha Vairamani, Sathiyapriya K, Deep Learning Base Long Bone Fracture Classification using Squeeze and Excitation ResNet, Journal of Computational Analysis and Applications, May 2024
- [7] Jansi Rani Amalraj, Robert Lourdusamy, A Comprehensive Survey on Federated Network Monitoring for Smart Healthcare, International Conference on Data Science, Artificial Intelligence and Machine Learning, ICDAIML'24
- [8] Law Kumar Singh, J.Jeba Emilyn, T.E.Ramya, A.Jansi Rani, Physics-guided transfer learning framework for melanoma detection using optimized visual geometry group networks, Volume 318, 1 July 2026,141940

NATIONAL:

- [1] E.Sylvia , Mrs. A. Jansi Rani, A study on impact of technology absorption and outcomes in India: A descriptive review, SELP Journal of Social sciences, 2019,13-17
- [2] A.Jansi Rani, Information and Communication Technology – A Perspective on its impact in Indian Educational Sectors, Nirmala Annual Research Congress, 2019.
- [3] A.Jansi Rani, Quantum Resistant Cryptography – A Perspective on its impact in Security, Multi - Disciplinary Application Perspective in IoT (NCIoT'20), 2020.
- [4] A.Jansi Rani, Quantum Resistant Cryptography – A Perspective on its impact in Security, Our Heritage(2020), Vol-68-Issue 19-January-2020

PRESENTATIONS IN CONFERENCE:

INTERNATIONAL:

- [1] Multi - Disciplinary Application Perspective in IoT (NCIoT'20), 2020 held at Krishnammal College for Women, Coimbatore.
- [2] Jansi Rani Amalraj, Robert Lourdusamy, A comprehensive Survey on Federated Network Monitoring for Smart Healthcare, International Conferene on Data Science, Artificial Intelligence and Machine Learning ICDAIML'24.

NATIONAL:

- [1] A.Jansi Rani, Information and Communication Technology – A Perspective on its impact in Indian Educational Sectors, Nirmala Annual Research Congress, 2019.
- [2] A.Jansi Rani, Quantum Resistant Cryptography – A Perspective on its impact in Security, Multi - Disciplinary Application Perspective in IoT (NCIoT'20), 2020.

PARTICIPATION IN CONFERENCES:

- [1] International Video Conferencing in Innovative Thinking in machine oriented applications & security management, Department of Computer Applications.
- [2] International Video Conferencing on Trending Technologies, Department of Information Technology.
- [3] International Video Conferencing on Trending in BioImage Informatics & Cognitive Technology for Data Science

PARTICIPATION IN SEMINARS:

- [1] National seminar on “Quality Sustenance and enhancement: Prospects for attaining global standards
- [2] National Seminar on Focused on Achieving digital transformations through Engineering Education and IEEE Digital Packages, EBSCO Information Services –IEEE

PARTICIPATION IN WORKSHOPS:

- [1] Mrs.A.Jansi Rani Head, Department of Information Technology has attended a One- day Workshop on Google Drive, Google Docs, Online Book publishing and Kahoot
- [2] Mrs.A.Jansi Rani Head, Department of Information Technology has attended UGC sponsored Workshop on Outcome Based Education, IQAC
- [3] Mrs.A.Jansi Rani Head, Department of Information Technology has attended a Workshop on Outcome Based Education, IQAC
- [4] Mrs.A.Jansi Rani Head, Department of Information Technology has attended UGC sponsored Workshop on “Intellectual Property Rights, Patent and Copyrights”. Internal Quality Assurance Cell.
- [5] Mrs.A.Jansi Rani Head, Department of Information Technology has attended workshop on Content Development using JOOMLA
- [6] Mrs.A.Jansi Rani Head, Department of Information Technology has training attended for 3 days on the topic “**Python**” organized by Hindustan College of Arts and Science in association with Spoken tutorial, IIT Bombay
- [7] Mrs.A.Jansi Rani Head, Department of Information Technology has training attended for 1 day on the topic “**R**” organized by Hindustan College of Arts and Science in association with Spoken tutorial, IIT Bombay
- [8] Mrs.A.Jansi Rani Head, Department of Information Technology has training attended for 3 days on the topic “**Moodle Learning System**” organized by Kaypees college of Arts & Science, Kotagiri, The Nilgiris in association with Spoken tutorial, IIT Bombay

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

- [1] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic **“The Art of Writing Research papers”** organized by Chennai Institute of Technology, Chennai
- [2] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic **“Opportunities for start ups in current situation”** organized by Chennai Institute of Technology, Chennai
- [3] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic **“Online Teaching and Learning”** organized by GTN Arts College, Dindigul
- [4] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic **“Image processing using python”** organized by Mount Zion College of Engineering and Technology, Pudukkottai in association with Pantech
- [5] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic **“Ransomware: Evolution and Prevention”** organized by G.T.N Arts College, Dindigul
- [6] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic **“Enjoyable Tools to Learn Coding”** organized by Chennai Institute of Technology, Chennai
- [7] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic **“Block Chain Technology”** organized by Chennai Institute of Technology, Chennai
- [8] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic **“Education 4.0 – The Future of Learning the Pandemic world”** organized by PSR Engineering College, Sivakasi

- [9] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic “**Cloud Computing and Data Analytics in Covid-19**” organized by Nirmala College for Women, Coimbatore
- [10] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic “**Emotional Intelligence**” organized by G.T.N Arts College, Dindigul
- [11] Mrs.A.Jansi Rani Head, Department of Information Technology has attended webinar for 1 day on the topic “**Design and Development of Biosensors and Their Applications**” organized by Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

PARTICIPATION IN FACULTY DEVELOPMENT PROGRAMMES:

- [1] Participated in Google Classroom and Book publishing organized by the Department of computer science, Computer Application and Information technology, Nirmala College for Women, Coimbatore.
- [2] Participated in Innovative Teaching Strategies organized by the Curriculum Development Cell, Nirmala College For Women, Coimbatore.
- [3] Participated in Recent Trends in Techniques in Web Applications development organized by the Department of Computer Science, Computer Applications and Information Technology, Nirmala College For Women, Coimbatore
- [4] Mrs.A.Jansi Rani Head, Department of Information Technology has attended 6 days FDP on the topic “**The future is Here now**” organized by ICT Academy
- [5] Mrs.A.Jansi Rani Head, Department of Information Technology has attended 3 days on the topic “**Robotics Process Automation**” organized by Jeppiaar Institute of Technology Sriperumbudur, Chennai
- [6] Mrs.A.Jansi Rani Head, Department of Information Technology has attended one day FDP on the topic “**Improving the skill set and changing the attitude**” organized by ICT Academy

- [7] Mrs.A.Jansi Rani Head, Department of Information Technology has attended 5 days FDP on the topic “**Drupal(Open Source Content Management System)**” organized by SNMV College of Arts & Science and Institute of Management, Coimbatore
- [8] Mrs.A.Jansi Rani Head, Department of Information Technology has attended 6 days FDP on the topic “**Enhancing your IT skills during Quarantine**” organized by Bishop Appasamy College of Arts and Science, Coimbatore
- [9] Mrs.A.Jansi Rani Head , Department of Information Technology has attended one day FDP on the topic “**Connected World a Reality with IOT**” organized by Sri Ramakrishna College of Arts and Science for women, Coimbatore
- [10] Mrs.A.Jansi Rani Head, Department of Information Technology has attended one FDP on the topic “**Fractals in Image Processing**” organized by Sri Ramakrishna College of Arts and Science for women, Coimbatore
- [11] Mrs.A.Jansi Rani Head, Department of Information Technology has attended FDP for 1 day on the topic “**Industry 4.0 – A post Covid Paradigm**” organized by ICT Academy
- [12] Mrs.A.Jansi Rani Head, Department of Information Technology has attended FDP for 1 day on the topic “**Change is the Essence of Life**” organized by ICT Academy
- [13] Mrs.A.Jansi Rani Head, Department of Information Technology has attended FDP for 1 day on the topic “**Accelerating Industry 4.0 – A Learning & Development Perspective**” organized by ICT Academy
- [14] Mrs.A.Jansi Rani Head, Department of Information Technology has attended FDP for 1 day on the topic “**Discover the Diamond in you**” organized by ICT Academy
- [15] Mrs.A.Jansi Rani Head, Department of Information Technology has attended FDP for 1 day on the topic “**Catching the Cyber Virus**” organized by ICT Academy

[16] Mrs.A.Jansi Rani Head, Department of Information Technology has attended FDP for a day on the topic “**Emerging Trends and Applications in IoT**” organized by Nirmala College For Women , Coimbatore

[17] Mrs.A.Jansi Rani Head, Department of Information Technology has attended FDP for 1 day on the topic “**E content Development**” organized by Nirmala College For Women , Coimbatore

CONFERENCE/ SEMINAR/ WORKSHOP ORGANIZED:

[1] Workshop on Photoshop and Web Hosting

[2] Workshop on Hardware Maintenance, Hardware Assembling and Trouble Shooting

[3] Workshop on Basic Hardware and Networking, Adobe Pagemaker, Software Project Training, Dreamweaver, Software Testing

[4] Workshop on Fiber Optic Networks, Multimedia-Tool, Network Engineering using CISCO Packet Tracer, PHP Using Dreamweaver

[5] Workshop on Python Programming, Arduino Programming, Networking Commands

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

[1] Served as resource person at RVS College of Arts & Science on the topic Visual Basic.Net

[2] Served as Judge for the Paper presentation competition at Sri Ramakrishna College of Arts and Science for Women.

[3] Served as resource person at Bishop Ambrose College, Angappa College, AG College and Erode Christian College

[4] Served as resource person at PSGR Krishnammal College for Women, Coimbatore

[5] Technical Session chair for International Conferences held at KPR college for Science Arts & Research, Coimbatore

[6] Served as Judge for Stemathan Idea Pitching interdepartmental Competition held at Nirmala College for Women, Coimbatore

- [7] Served as Judge for Nirmala Innovation Fest - Genzeathon, an Intercollegiate Hackathon Competition.
- [8] Mentored around 15 colleges towards NAAC accreditation.
- [9] Resource Person for workshop on “Phishing Bussters” organised by Kani Tamizhi Peravai Nirmala College for Women, Coimbatore
- [10] Served as Judge for AI Innovation Challenge and MIC driven Intercollegiate Competition organised by Nirmala College for Women, Coimbatore.
- [11] Technical Session chair for International Conferences held at St Joseph College for Women, Triupur
- [12] Technical Session chair for International Conferences held at KPR college for Science Arts & Research, Coimbatore
- [13] Served as a Moderator for the Paper presentation session in the 2nd International Conference on Research Perspectives in New-Gen Computational Paradigms(ICRPNC-2025) at St.Joseph's College for Women, Triupur
- [14] Resource Person for workshop on “How to Handle Tamil Software in Computer” organised by Kani Tamizhi Peravai Nirmala College for Women, Coimbatore
- [15] Served as Judge for Nirmala Innovation Fest - Genzeathon, an Intercollegiate Hackathon Competition for the final shortlisted teams
- [16] Served as Chief guest for Inaugurating the ICT Club at St Joseph's Matriculation Higher Secondary School, Ondipudhur

BOOK PUBLICATIONS:

- [1] Mrs. A. Jansi Rani, Dr.Satyavathy Gunalan published an E- Book titled “MCQs in Multimedia” with ASIN number B081DW65ZF
- [2] Mrs. A. Jansi Rani and Mrs. E.Sylvia - published an E-Book titled “Enrich Your Python Skills” with ASIN Number B084562SDC.

- [3] Jansi Rani Amalraj, Arduino Programming- A Beginners guide, 9798386429485 .
2023 with ASIN Number B0BXYL98CQ
- [4] A.Jansi Rani, K.Sindhya, Technical Python MCQ, 978818366609
- [5] A.Jansi Rani, Artificial Intelligence and Applications in Business, 978-81-978737-4-4, 2024
- [6] A.Jansi Rani, Programing in Java - Test your Aptitude, 978-81-98193827,2024
- [7] A.Jansi Rani, Object Oriented Programming with Java, 978-82-992254-5-9, 2025

MEMBER IN BOARD OF STUDIES:

- [1] Member of the Board of Studies in Computer Science (UG-3) IT, Bharathiar
University
- [2] Member of Board of Studies in Cyber Security(UG), PSGR Krishnammal
College for Women, Coimbatore
- [3] Member of Board of Studies, Nirmala College for Women, Coimbatore

EDITORIAL/ REVIEW BOARD MEMBER:

- [1] Journal Reviewer for Open Computer Science Journal, fully peer reviewed
Journal, September 2020, 2022,2023
- [2] Journal Reviewer for Academia AI and applications for Peer Review
- [3] Reviewer and Technical Program Committee Member for the IEEE
International Conference on Computational Innovations and Sustainable
Technologies (ICCIST 2025) organised by Department of Computer Science,
Christ (Deemed University), Bangalore

MEMBERSHIP IN PROFESSIONAL BODIES:

- [1] Professional Member of Internet Society India Chennai Chapter
- [2] Member of IAENG International Journal of Applied Mathematics