

**Name** : Dr. S. Rekha  
**Designation** : Associate Professor  
**Department** : Information Technology  
**Qualification** : M.Sc., M. Phil., Ph.D.  
**Experience** : Teaching : 12.3 Years      Research: 7 Years  
**Area of Specialization(s)** : Cloud Computing, Machine Learning  
**Email (Official ID)** : rekha@drngpasc.ac.in



#### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Bharathiar University, Coimbatore	2022
M. Phil.	Computer Science	Dr. N.G.P. Arts and Science College	2014
M.Sc.	Computer Science	Dr.G.R. Damodaran College of Science	2009
B.Sc.	Computer Science	Dr. N.G.P. Arts and Science College	2007

#### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Online Certification	Azure Fundamental: Cloud Computing	INFOSYS SPRINGBOARD	2022
Online Certification	AI for Everyone	COURSERA	2020
Online Certification	Machine Learning for All	COURSERA	2020
Online Certification	Digital Teaching Techniques	ICT ACADEMY	2020
Online Certification	Accreditation and Outcome based learning	NPTEL	2019
Online Certification	Enhancing soft skill and personality	NPTEL	2019
Online Certification	Brief Introduction to Psychology	NPTEL	2018

#### Research Publications (Indexed)

- Rekha. S, Dr. Kalaiselvi. C, **Secure and Energy aware task scheduling in cloud using Deep learning and Cryptographic Techniques**, ICTACT Journal of Communication Technology, ISSN: 2229-6948 vol. 12, no.2, Jul 2021, pp.2434-2441.
- Rekha. S, Dr. Kalaiselvi. C, **ELM based scheduling with MLQS-PSO of vms in queuing heterogeneous cloud computing**, ISSN:2582-3930, Journal of Scientific Research in Engineering and Management, vol. 5, no.1, Jan 2021, pp.01-13.
- Rekha. S, Dr. Kalaiselvi. C, **Load Balancing using SJF-MMBF and SJF-ELM Approach**, Journal of Scientific Research in Computer Science Engineering and Information Technology, ISSN: 2456-3307, vol. 7, no. 01, Jan 2021, pp. 74-86.
- Rekha. S, Dr. Kalaiselvi, C, **Energy aware resource allocation based on optimization and minimum migration time**, Journal of Future Generation Communication and Networking, ISSN: 2233-7857, vol. 13, no. 4, Dec 2020, pp. 4617-4631.
- S.Rekha, Dr. C. Kalaiselvi, **Multi Level Queue Scheduling With Particle Swarm Optimization (Mlqs-Pso) Of Vms in Queuing Heterogeneous Cloud Computing Systems**, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-5, Jan 2020 (Indexed in Scopus).

- S.Rekha, Dr. C.Kalaiselvi, **Review Of Scheduling Methodologies Of Virtual Machines (Vms) In Heterogeneous Cloud Computing**, International Journal of Scientific & Technology Research, Volume 8, Issue 9, Sep 2019, Impact Factor: 7.466. ISSN:2277-8616 (Indexed in Scopus).
- N. Vanitha, V. Vinodhini, S. Rekha, **A Study on Agriculture UAV for Identifying the Plant Damage after Plantation**, International Journal of Engineering and Management Research (IJEMR), Volume 6, Issue 6, Dec 2016. Impact Factor: 3.96. ISSN number:2277- 9655,(Indexed in Google Scholar).
- S. Rekha, V. Vinodhini, N. Vanitha, **A Study on Cloud Based Encrypted Data using Multi-Keyword Ranked Search Scheme**, International Journal of Engineering Sciences & Research Technology (IJESRT), Volume 5, Issue 12, Dec 2016. Impact Factor: 4.166, ISSN number:2394-6962.(Indexed in Google Scholar).
- S. Rekha, B. Subramani, **High Performance Dynamic Load Balancing with Inter-Dependent Task and Dependent Task in Cloud Computing Environment**, IJESRT, ISSN: 2277-9655, Vol.3, Issue 12, Dec 2014, Impact Factor-3.449 (Indexed in Google Scholar).
- S. Rekha, **Cloud Based Collaboration System**, International Journal of Computer Science Engineering and Information Technology (IJCSITR), ISSN:2249-6831 vol.3, Issue 1, Mar 2013,133-142, Impact Factor 3.17 (Indexed in SCOPUS).

#### Other Publications: International / National Journals

- S.Rekha, Dr. C.Kalaiselvi, **Scheduling Algorithm With Particle Swarm Optimization (Pso) In Cloud Computing Systems**, 10<sup>th</sup> National Conference on Machine Learning and Smart Technology (NCMLST 2020), ISBN: 978-93-89515-11-4, February 2020.
- S.Rekha, Dr. C.Kalaiselvi, **A Survey - Optimization Of Virtual Machines (Vms) In Heterogeneous Cloud Computing using Scheduling Methodologies**, International Conference on Innovation in Computer Science and Information Technology(ICICSIT 2019), ISBN: 978-93-89105-21-6, October 2019.
- K.Geetha, S.Rekha, B. Sivaranjani, **Thyroid Disease Classification using Evolutionary Multivariate Kernel SVM Prediction Method**, 3<sup>rd</sup> International Research Conference on Advances in Computer Science and Information Technology(IRCACSIT), ISBN- 978-93-5311-228-8, September 2018.
- S. Rekha, B. Sivaranjani, **Diagnosis Brain Diseases using EEG Signal Classification Features**, International Conference on Innovations in Computer Science and Information Technology(ICICSIT'18), ISSN-978-1-941505-77-9 February 2018.
- S. Rekha, B. Sivaranjani, **Analysis on Integration of Cloud Computing and IoT**, International Conference on Advances in Computer Science and Technology(IC-ACT'18), ISSN: 2395-1303.
- S. Rekha, **Secure Based File Sharing in Cloud Computing**, Proceedings of International Conference on Information and Image Processing ICIIIP-2014, Collaboration with ICTACT and BONFRING, Pg: 60-62, ISSN-9789383-459155.

### Book Chapters Publications

- **Challenges in Task Scheduling Using Multiqueuing System**, Intelligent Automation Control for Scientific Research in Engineering – ISBN No: 978-939-0-95691-3, Volume I, Issue 2, May 2022.
- **Modern Threats in Cyber Security**, Handbook of Research on Cyber Security in Healthcare, ISBN No. 9789352-886432, May 2022.

### Presentations in Conference

- **Scheduling Algorithm with Particle Swarm Optimization (Pso) In Cloud Computing Systems**, 10<sup>th</sup> National Conference on Machine Learning and Smart Technology (NCMLST 2020), Sri Krishna Arts and Science College, 12-Feb-20.
- **A Survey - Optimization Of Virtual Machines (Vms) In Heterogeneous Cloud Computing using Scheduling Methodologies**, International Conference on Innovation in Computer Science and Information Technology (ICICSIT 2019), Nehru Arts and Science College, 03-Oct-19 & 04-Oct-19.
- **Thyroid Disease Classification using Evolutionary Multivariate Kernel SVM Prediction Method**, 3<sup>rd</sup> International Research Conference on Advances in Computer Science and Information Technology (IRCACSIT), KG College of Arts and Science, 15-Sep-18.
- **Diagnosis Brain Diseases using EEG Signal Classification Features**, International Conference on Innovations in Computer Science and Information Technology (ICICSIT'18), Nehru Arts and Science College, 08-Feb-18 & 09-Feb-18.
- **Honey Bee Behavior using Cloud Computing Environment**, National Conference on Information and Image Processing, Sankara College of Science and Commerce in association with ICT Academy of Tamilnadu and BONFRING intellectual integrity, 27-Feb-15.
- **Improved Artificial Bee Colony for Load Balancing in Cloud Environment**, International Conference on Big Data Analysis and Distributed Systems, Periyar University College of Arts and Science, 12-Sep-14.
- **Load Balancing of Tasks in Cloud Computing**, National Conference on New Innovations in Computer science-NCNICS'14, Dr.S.N.S. Rajalakshmi College of Arts and Science, Coimbatore, 28-Feb-14.
- **Secure based File Sharing in Cloud Computing**, International Conference on Information and Image Processing, ICIIP-2014, Sankara College of Science and Commerce, Coimbatore, 26-Feb-14.

### Participation in Conference

#### International

- Research Conference on Advances in Computer Science and Information Technology (IRCACSIT), KG College of Arts and Science, 15-Sep-18.

- Innovations in Computer Science and Information Technology (ICICSIT'18), Nehru Arts and Science College, 08-Feb-18 & 9-Feb-18.
- Big Data Analysis and Distributed Systems, Periyar University College of Arts and Science, 12-Sep-14.
- Information and Image Processing ICIIP-2014, Sankara College of Science and Commerce, 26-Feb-14.

#### **National**

- Emerging Education Models for 21st Century Learner(NCEEM-2015), Association of Principals of Colleges of Bharathiar University, 1-Aug-15.
- Information and image processing, Sankara College of Science and Commerce in association with ICT Academy of Tamilnadu and BONFRING intellectual integrity, 27-Feb-15.

#### **Participation in Seminars**

- **Research in Computers: Why, What and How? Industry 4.0**, Bharathiar University, 3-Mar-20.
- **Applications and Challenges in Data Mining**, Bharathidasan College of Arts and Science, 24-Aug-17.
- **Cyber Security Awareness and Defense Techniques**, Dr. N.G.P. Arts and Science College, 25-Aug-14.

#### **Participation in Workshop**

- **Intellectual Property Rights**, CMS College of Science and Commerce, Coimbatore, 4-Apr-2022 and 5- Apr- 2022.
- **Bootcamp on RPA using BluePrism**, Chalapathi Institute of Engineering and Technology, Guntur, 22-Jun-2021 to 23-Jun-2021.
- **Machine Learning with Scikit Learn, Keras and Tensorflow**, Sri Ramakrishna Engineering college, Coimbatore, 24-May-2021 to 26-May-2021.
- **SELEST-An Innovation towards Automation**, AJK College of Arts and Science, 23-Feb-18.
- **Open Stack Cloud**, PSG College of Technology, Coimbatore, 23-Feb-13.

#### **Participation in Faculty Development Programme**

- **Prominent Challenges in Computer Vision, Data and Intelligence**, Navarasam Arts and Science College for Women, Erode, 26-Dec-2022 to 31-Dec-2022
- **Emerging Technologies in Computer Science Research**, PPG College of Arts and Science, Coimbatore, 19-Dec-2022 to 27-Dec-2022.
- **Professional Development Programme on Implementation NEP-2020 for University and College Teachers**, Indira Gandhi National Open University, New Delhi, 18-Nov-2022 to 26-Nov-2022

- **Plagiarism in Academic Research & Author Identifiers**, Indian Institute of Management and Commerce, Hyderabad, 11-Apr-2022 & 12-Apr-2022.
- **Funded Research Project Proposal Preparation and Submission Protocol**, CMS College of Science and Commerce, Coimbatore, 31-Mar-2022.
- **Framework for Internet of Things (IoT)**, Dr. N.G.P. Arts and Science College, Coimbatore, 21-Sep-2021 to 24-Sep-2021, 28-Sep-2021 to 30-Sep-2021.
- **Research Methodology and Pedagogy for Tertiary Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 15-Jun-2021 to 21-Jun-2021.
- **Emerging Research Trends in Computer Science and Applications**, KG College of Arts and Science, 22-May-2021 to 26-May-2021.
- **Project Proposal for Research Grants**, Davangere University, Davangere, 08-Jan-2021
- **Improving your research visibility – Research Impact and Metrics**, Velalar College of Engineering and Technology, Erode, 11-May-2020 to 13-May-2020
- **Agent Based Intelligent System**, Sathyabama Institute of Science and Technology, Chennai, 04-May-2020 to 06-May-2020.
- **Machine Learning using Python**, VELs Institute of Science, Technology and Advanced studies, Chennai, 04-May-2020
- **Emotional Intelligence**, KG College of Arts and Science, Coimbatore, 28-Apr-2020, 30-Apr-2020 & 02-May-2020
- **Develop the ability to write research proposal**, AIMIT, Bengaluru, 24-Apr-2020
- **Quality Initiative in Higher Education, Consortium Colleges, Coimbatore, 13-Apr-2020 to 20-Apr-2020**
- **Quality Measures in Higher Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 03-Dec-19 to 09-Dec-19.
- **NAAC Revised Accreditation Framework & OBE Assessment Methodology**, Dr.N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 02-Jun-19
- **Introduction to R Programming**, Dr. N.G.P. Arts and Science College, Coimbatore, 30-Aug-18 & 31-Aug-18.
- **Introduction to PHP Programming**, Sankara College of Science and Commerce, Coimbatore, 24 & 25-Jul-18.

#### **Conference / Seminar / Workshop Organized**

- **Organizing Secretary**, National DST-SERB Sponsored Symposium on Cyber Security in Healthcare, Dr.N.G.P. Arts and Science College (NSCH-2022), Coimbatore, 13-May-2022.

- **Organizing Committee Member**, 2nd National Virtual Conference on Application of Deep Learning in Artificial Intelligence (NCDAH-2021), Dr.N.G.P. Arts and Science College, Coimbatore, 25-Mar-2021.
- **Organizing Committee Member**, National Level Technical Symposium on TECHTRIX-2020, Dr.N.G.P. Arts and Science College, Coimbatore, 03-Feb-2020.
- **Organizing Committee Member**, National Seminar on Computing Platforms for Biological Big Data Analytics, Dr. N.G.P. Arts and Science College, Coimbatore, 05-Feb-2020 and 06-Feb- 2020.
- **Organizing Committee Member**, Second International Conference on Research Trends in Computing Technologies (ICRTCT-2020), Dr. N.G.P. Arts and Science College, Coimbatore, 03-Feb-2020.
- **Committee Member**, International Conference on Recent Trends in Computing Technologies, Dr.N.G.P. Arts and Science College, 9-Aug-18 &10-Aug-18.

#### **Funding Applied**

- Principal Investigator, Major Project on “Investigation of ICT in Public Health Post COVID Syndrome for Rural and Urban Areas of Coimbatore District”, Indian Council of Social Science Research (ICSSR ICSSR-RMM-2021-6036, 11<sup>th</sup> October 2022), Proposed Budget - Rs. 10,50,00.
- Co- Principal Investigator, Major Project on “Evaluating the Impact of Women Online E-Business in Western Region of Tamil Nadu for Upliftment of their Socio-Economic Status”, Indian Council of Social Science Research (ICSSR-RMM-2022-6033).

#### **Membership in Professional Bodies**

<b>Name of the Professional Body</b>	<b>Nature of membership</b>	<b>Duration</b>
IAENG- International Association of Engineers	Life-time	-
IRED- Institute of Research Engineers and Doctors	Life-time	-