DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

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(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Accredited by NBA, New Delhi

Faculty Name	Dr. RAJESH L
Designation	ASSOCIATE PROFESSOR
Educational Qualification	B.E., M.Tech., PhD.
Experience in Years	17 years, 3months
Areas of Interest	Wireless Sensor Networks, Information Security, Data mining, Artificial Intelligence and IoT.
E-mail ID	rajesh-ise@dsatm.edu.in

Educational Details

Ph.D : Computer Science and Engineering, *Thesis*: Enhanced Energy Proficient method and Securing the Aggregated Cluster Heads for WSN. Visvesvaraya Technological University, Belagavi, 2023.

M. Tech: Computer Science and Engineering, **First class with distinction,** SJC Institute of Technology, affiliated to VTU, 2009.

B.E: Information Science and Engineering, First class, SJC Institute of Technology, affiliated to VTU, 2005.

Professional Experience

- Presently working as Associate Professor in department of Information Science and Engineering, Dayananda Sagar Academy of Technology and Managaement, Bengaluru, Karnataka-560082. (October 2023 – till date)
- Worked as Associate Professor in department of Information Science and Engineering, SJB Institute of Technology, Bengaluru, Karnataka-560060. (July 2023 – October 2023).
- Worked as Assistant Professor in department of Information Science and Engineering, SJB Institute of Technology, Bengaluru, Karnataka-560060. (August 2012 – June 2023).
- Worked as Assistant Professor in Department of Information Science and Engineering, R L Jalappa Institute of Technology, affiliated to VTU (July 2007 – July 2012).

- ➢ Worked as Lecturer in Department of Information Science and Engineering, SJC Institute of Technology, affiliated to VTU (September 2005 – September 2006).
  - • Expertise in Time table, Test conduction and Result analysis works
  - • Expertise in **N.B.A criteria -6, N.A.A.C criteria -5** and **IQAC** Activities
  - • Worked as institutional level coordinator for **Quality Audit, Remedial Intervention, Anti-ragging committee** activities
  - • Worked as VTU examination coordinator(online and offline evaluations)
  - • Organized Workshops, National Conferences and Faculty Development Programs.
  - • Worked as a coordinator for International Conferences
  - • Actively engaged in setting question papers and evaluation to various universities.
  - • Guided UG projects of VIII semester: Karnataka State Council for Science & Technology (KSCST) Project.

Publications

Publications in SCI/WoS and Scopus Indexed Journals

1) **L., Rajesh** and Mohan H. S. "Shuffled Shepherd Squirrel Optimization and Fractional LMS Model for In-Network Aggregation in Wireless Sensor Network." Published in the journal **"International Journal of Business Data Communications and Networking",** vol.18, no.1 2022: pp.1-20. http://doi.org/10.4018/IJBDCN.309412 Publisher: IGI Global Publishing, **Indexed in: SCOPUS-Q3, Web of Science, Emerging Sources Citation Index (ESCI).**

2) **Rajesh L** & Dr. Mohan H S, "Adaptive Group Teaching Based Clustering and Data Aggregation with Routing in Wireless Sensor Network.", published in **Wireless Personal Communications** vol 122, 1839–1866 (2022). Springer Netherlands. ISSN:09296212, 1572834X. https://doi.org/10.1007/s11277-021-08971-6

   Indexed in: SCOPUS-Q3, Web of Science, Science Citation Index Expanded (SCIE).

3) **Rajesh L** & Dr. Mohan H S, "An multilevel efficient energy clustering protocol with secure routing (MEECSR) in WSNs" Published **in International Journal of Applied Science and Engineering**, volume-18, 2020344, 2021. ISSN:1727-2394 URL link: https://doi.org/10.6703/IJASE.202106_18(2).008 **Indexed in: SCOPUS-Q3.**

Publications in Book chapters

4) Rajesh L and Mohan H S, "EPO based Clustering and Secure Trust based Enhanced LEACH Routing in WSN" published in **springer book: Lecture Notes on Data Engineering and Communications Technologies**, Vol. 93, Sustainable Communication Networks and Application, 978-981-16-6604-9, 506545_1_En, (Chapter 3) DOI : 10.1007/978-981-16-6605-6 ISSN: 2367-4512 **Indexed in: SCOPUS.**

Publications in international non refereed journals

5) Abhinav Aryan, Akanksha, Divyanshu Shekhar, Harmeet Singh. Gandhi, Rajesh L, " Design of AUSHADHI –a Medical Chatbot", **International Journal of Research in Engineering and Science (IJRES)** ISSN (Online): 2320-9364, ISSN (Print): 2320-9356 www.ijres.org Volume 9 Issue 7 ǁ 2021 ǁ PP. 68-72

6) Nishitha K, Harshitha Rajesh, Shivangi Kulshrestha ,Mr. Rajesh L, "Comparative Analysis of Heart Diseases Using Machine Learning Techniques", published in **GRADIVA REVIEW JOURNAL,** ISSN NO : 0363-8057, VOLUME 8 ISSUE 7 2022, pp 1061-1066, Impact Factor 6.1 DOI:10.37897.GRJ.2021.V8I7.22.50080.

7) Ms. Indumathi J, Ms. M Mounica, Ms. Neha Shivananjaiah, Ms. Niha Tarannum A, Mr. Rajesh L, "A Machine Learning Approach to Lip Reading Automation System" published in **International Journal of Advanced Research in Computer and Communication Engineering,** Volume 11, Issue 7, pp 90-95, July 2022   DOI: 10.17148/IJARCCE.2022.11715,

8) Rajesh L & Dr. Mohan H S, "Survey on Wireless Sensor Networks-Structure & Routing Protocols", **Journal of Network and Information Security (JN&IS),** volume-6, issue 2, pp10-14, December 2018.

9) Rajesh L & Ramkishore V, "Artificial Vision for Blind Peoples Using OCR Technology", **International Journal of Emerging Trends & Technology in Computer Science (IJETTCS),** Volume 6, Issue 3, pp10-14, ISSN 2278-6856, May-June 2017

10) Rajesh L & Dr. Mohan H.S "Enhanced Energy Efficient Clustering Protocol for Wireless Sensor Network." **International Journal of Advanced Research,** volume-4, pp1005-1013. 10.21474/IJAR01/541, May 2016.

Publications in International Conferences.

11) Rajesh L and Mohan H S, presented a paper titled "EPO based Clustering and Secure Trust based Enhanced LEACH Routing in WSN" in **3rd International Conference on Sustainable Communication Networks and Application -ICSCN** 2021,on 29-30, July 2021, organized by Surya Engineering College, Erode, Tamilnadu. **Springer, Indexed in: SCOPUS.**

12) Rajesh L & Achalkar A C "Harmonious resource sharing platform for collaborative cloud computing", **International Conference on Computer Networking & Information Processing (ICCNIP-2015),** Apr 2015, AMC Engineering College, Bangalore.

13) Rajesh L & Prerana Chaitra, "Energy Proficient and Deferment Routing Protocol for WSN", **ICCSIT-2010,** RLJIT, Doddaballapur.

Publications in National Conferences.

14) Rajesh L & Sangamesh C Jalade "Mechanism for Discovering Multicast tree topologies using forwarding state in the network", National Conference on Recent

Trends in Information Technology, NCET, Bangalore, March 2009.

15) Rajesh L "Spatio-Temporal-Textual Searh and Mining", National Conference on Emerging Trends in Computer Science & Technology, SKIT, Bangalore, Oct 2013.

16) Rajesh L & Kusuma C "Study on Lightweight and Reliable Routing Approach for In-Network Aggregation in WSNs", National Conference NCAREC-2014, RLJIT, Doddaballapur.

17) Rajesh L "Survey on vulnerabilities and security mechanisms of Ethernet LAN Technology", SAMYOG-2014, the state level students technical symposium, May 6th 2014, JSSATE, Bangalore-60.

18) Rajesh L "Data Leakage Detection", National Conference on Advancements in Information Technology, May 5th & 6th 2015, JSSATE, Bangalore-60.

19) Rajesh L and Samir Samant, Shilpi Sharan, Priyatosh Kumar, Raushan Raj "An effective IOT-based refrigerator, storage room and FMCG products monitoring with wireless sensor networks", PRASTUTHI-16, May 6th 2016, RNSIT, Bangalore-98.[Won 2nd Best Paer Award]

20) Rajesh L, Abhijeet Sugam, Ankit kumar verma, Ashish kumar, Md. Hamza Akhtar "Enhanced Approach to Data Lineage in WSN", National Conference on Recent Advances in Science Engineering & Technology-NCRASET-17, at SVCE Bengaluru-31st may 2017.

21) Rajesh L "A Novel approach for efficient processing of skyline queries using Map-Reduce", National Conference on Computer Applications & Communication Systems 2K18, May 14th 2018, BTLIT, Bangalore-99.

Keynote Lectures Delivered

- Induction program to first year BE students on "MS-Excel and MS-Power point", SJBIT, Bengaluru, 2018.
- Induction program to first year BE students on "Antiragging Cell and its functioning", SJBIT, Bengaluru, 2018.

Awards/ Honors

- Best faculty award from RL Jalappa Institute of Technology during the academic year 2008-2009.
- Best Paper Award for the paper "An effective IOT-based refrigerator, storage room and FMCG products monitoring with wireless sensor networks", at PRASTUTHI-16, May 6th 2016, RNSIT, Bangalore-98.

Funded Projects

- **"AUSHADHI – A Medical Chatbot to detect the patient disease based on symptoms (ref.number:44S_BE_0500)",** Sponsored by Karnataka State Council for Science and Technology [KSCST], Bangalore.

Faculty Development Programs

FDPs Attended Details

SL.NO	Name	Date	No. of days	Place
1	Xibit – Symposium	5 to 6 May 2009	2	RLJIT, Doddaballapur
2	FDP – Research Methodologies	5 to 5 May 2010	1	RLJIT, Doddaballapur
3	Knowledge Mining	3 to 5 Feb 2011	3	GSSSIETW, Mysore
4	Power Issues in Multicore Architecture and Green Computing	12 to 16 Mar 2012	5	CBIT, Kolar
5	Big Data Analytics	27 to 31 Jan 2014	5	SJBIT
6	Market Oriented Cloud Computing and Big Data Analytics	23rd July 2014	1	SJBIT (TCS)
7	Intellectual property rights-VTPC	26th Aug 2015	1	SJBIT
8	Hands on training on current computing tools	27 to 31 Jan 2015	5	ISE, SJBIT
9	Latex and its Applications	24 to 25 July 2015	2	SJBIT
10	Cloud technologies	18 to 23 Jan 2016	6	SJBIT
11	Microcontroller & Embedded Systems	27,28,29 Jan 2020	3	ISE, JSSATE
12	Multidisciplinary Trends in Information Technology	21-25 July 2020	6	CSE, AIT, Chickmagaluru
13	Software Verification and Validation	28-30th July 2020	3	ISE, SJBIT.
14	Current Era- A Technology driven digital Transformation in Industry 4.0	30TH AUG-04TH SEPT 2021	6	ISE, SJBIT.
15	Electronic Assistive devices	07th to 13th Jan 2022	7	BIET, Davanagere.
16	NoSQL Database	28/03/2022 to 02/04/2022	6	ISE, SJBIT
17	Cyber Security and Ethical Hacking	29/05/2023 to 02/06/2023	7	CSE, SJBIT

Workshops Organized Details

- Workshop on "Windows Server 2012 and Linux Administration & Trouble Shooting", Department of Information Science and Engineering, SJB Institute of Technology, Bengaluru, 23rd to 25th January 2017.
- Workshop on "Introduction to Robotics using Adruino Microcontroller"

Department of Information Science and Engineering, SJB Institute of Technology, Bengaluru, 4th to 6th May 2018.

- Workshop on "PYTHON Coding with Application Projects & Solutions" Department of Information Science and Engineering, SJB Institute of Technology, Bengaluru, 7th-9th March, 2022.

Workshops Attended Details

SL.NO	Name	Date	No. of days	Place
1	Rich Internet Technologies	29 to 29 Jan 2010	1	Acharya IT, Bangalore
2	Skill Development Program	19 to 20 Feb 2010	2	RLJIT, Doddaballapur
3	Deep Dive Faculty Engagement Program	30th Jan to 3rd Feb 2012	5	Infosys, Mysore
4	Microprocessors & Micro Controller Programming, Interfacing and Applications	19 to 21 Feb 2014	3	VKIT, Bangalore
5	Latex & its Applications	24-25th July 2015	2	Basic Science SJBIT
6	Digital Professional Development	16/06/2016 to 16/07/2016	1 month	Creative Infotech, at SJBIT
7	Research methodology	21 & 22 Oct 2016	2	CIT, B'lore
8	Cyber security & Forensics	22-Dec-16	1	RVCE, B'lore
9	Microprocessors, ARM7 and DAA Laboratory courses	30th Jan to 1st Feb 2017	3	CSE& ISE, BIT

Professional Memberships

- Life time member of Indian Sociey for Technical Education-LM55242
- Member of International Association of Engineers (IAENG)-126007

Contact Details

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My Vision

Challenging opportunities both in academics and administrative activities for the overall development of the students, Institution, and adopting to technological transformations and academic educational policies to bring into the knowledge of students to face world intelligently, to lead successful career with good human being values.