DEPARTMENT OF INFORMATION TECHNOLOGY

Name	: K.RAJALAKSHMI
Designation	: ASSOCIATE PROFESSOR
Email	: rajalakshmi.it@sairamit.edu.in
Qualification	: B.E., M.E., $\overline{Ph.D}$
Specialization	: CSE
Research Interest	: Cloud Computing
Experience in years	: Teaching: 10 Years 9 Month Industry: NIL

No. of Workshop/Conferences/ FDP attended	:	Workshop:15 Conferences:10	FDP: 18

No. of Workshop/Conferences/ FDP Organized	:	Workshop :3 Conferences:	FDP:

Professional Membership	NIL	
Publications	National :1	
	International: 9	
	Book :NIL	
Research Funded Projects	NIL	

Patents	1 Patent Granted

Achievements	- Awarded as **BEST PAPER PRESENTATION** for presenting the topic "Research Challenges and Future Directions for Data Storage in Cloud Computing Environment." In 2023 in the International Conference on Computer Communication and Informatics (ICCCI), at Sri Sakthi College of Engineering and Technology, Coimbatore IEEE, 2023. - Awarded as **Best Teacher** for obtaining continuous **100% Results** in the following academic years 2015-2016, 2016-2017,2017-2018 under **Anna university Examination.** - Received Certificate of Appreciation in the Department of Computer Science and Engineering for obtaining **100%** result for the subject handled **"SOFTWARE ENGINEERING"** during the academic year 2015-2016 in Anna University Examinations. - Received Certificate of Appreciation in the Department of Computer Science and Engineering for obtaining **100%** result for the subject handled "**OBJECT ORIENTED ANALYSIS AND DESIGN**" during the academic year 2016-2017 in Anna University Examinations. - Received Certificate of Appreciation in the Department of Computer Science and Engineering for obtaining **100%** result for the subject handled "**PROGRAMMING AND DATA STRUCTURES-II**" during the academic year 2017-2018 in Anna University Examinations. - Awarded as a **successful faculty coordinator** by ICT Academy for conducting The 'New India Student Championship 2018', the largest learnathon (24 hours) in India, held on 3rd February 2018.

	➢ Certified and successfully completed **"Advanced JAVA Programming for Web Development"** as a part of ORACLE'S workforce development program at NIIT Chennai on November 12th 2015.
	
	➢ Award of achievement for successfully completing "**Programming in JAVA"** as a part of ORACLE'S workforce development program at NIIT Chennai on October 23rd 2015.
	
	➢ Certified in International **"Software Testing Qualification Board"** –ISTQB and having satisfied the requirements of BCS – The Chartered Institute for IT and awarded a PASS in the ISEB Certified Tester Foundation Level (CTFL) on 29th May 2013.
	
	➢ Secured **9.59 CGPA** in ME CSE- Anna University, Coimbatore examination result.
	
	➢ Awarded as an **Anna University First rank holder & Gold Medalist** ME (CSE) in the year 2010-2012 batch.
	
	➢ Selected as a **Best Outgoing Student nominee** in M.E degree CSE, SNS College of Technology, Coimbatore, 2012 batch.
	
	➢ Completed **NPTEL** Courses
	    1. Database Management System
	    2. Programming in JAVA
	    3. Real Time Operating System
	    4. Introduction to OS.
	
	➢ Completed **Coursera and Udemy**
	    1. Networking Fundamentals
	    2. Azure Fundamentals: AZ -900 Certification
	    3. All about Python
	    4. The Complete Networking Fundamentals Course.
	    5. CCNA.

Any Other Information	NIL

List of Publications: -

1. K. Rajalakshmi, M. Sambath, Linda Joseph, K. Ramesh, R. Surendiran, "An Effective Approach for Improving Data Access Time using Intelligent Node Selection Model (INSM) in Cloud Computing Environment," SSRG International Journal of Electrical and Electronics Engineering, vol. 10, no. 5, pp. 174-184, 2023. **(SCOPUS INDEXED)**

2. K. Rajalakshmi, M. Sambath, Linda Joseph, "Improving File Storage Mechanism using Intelligent Data Fragmentation Model (IDFM) Algorithm and Providing Confidentiality of Data in Cloud Computing Environment," International Journal of Engineering Trends and Technology, vol. 71, no. 3, pp. 130-142, 2023. **(SCOPUS INDEXED)**

3. K. Rajalakshmi, Sambath, M. and Joseph, L., 2023, January. Research Challenges and Future Directions for Data Storage in Cloud Computing Environment. In 2023 International Conference on Computer Communication and Informatics (ICCCI) (pp. 1-5). IEEE, 2023. **(SCOPUS INDEXED)**

4. Rajalakshmi, K., Sambath, M. and Joseph, L., 2022, December. Towards Improving Cloud Security and Performance by using Proposed Controlled Replication Model. In 2022 International Conference on Computer, Power and Communications (ICCPC) (pp. 12-16). IEEE, 2022. **(SCOPUS INDEXED)**

5. Rajalakshmi, K., Ramesh, K. and Renjith, P.N., 2022, June. Comparative Study of Cryptographic Algorithms in cloud storage data security. In 2022 2nd International Conference on Intelligent Technologies (CONIT) (pp. 1-7). IEEE, 2022. **(SCOPUS INDEXED)**

6. Rajalakshmi, K. and Niranjana, P., 2020, March. GSM Based Irrigation System For Monitoring Agriculture. In 2020 6th International Conference on Advanced Computing and Communication Systems (ICACCS) (pp. 1025-1028). IEEE, 2020. **(SCOPUS INDEXED)**

7. K. Rajalakshmi, P. Niranjana, K. Praveen, R. Ramesh, "Clustering for extenuating the safety patron toss" International Journal of Control and Automation,13(2), pp. 478–483, 2020. **(SCOPUS INDEXED)**

8. K. Praveen, K. Rajalakshmi, M. Malathi, R. Dhanagopal, "Data redundancy reduction in IoT weather station" International Journal of Control and Automation, 13(2), pp. 534–545, 2020. **(SCOPUS INDEXED)**

9. Rajalakshmi, K. "Sheltered Confidentiality on Spots for Mobile Based Social Application". International Research Journal of Engineering and Management Studies (IRJEMS), June 2019. **(SCOPUS INDEXED)**

List of Patent :-

Field of Invention	Innovation Patent	Issued	Application Number	Title of Invention
IOT	Australian Government	21st August 2021	2021106357	An IOT Enabled Agriculture Automation System

Conferences /FDP/Workshop Attended: -

➢ Participated in "Bootcamp on Learning Experience Design(LXD)" held on 20.06.2024 and 21.06.2024 at Sri Sairam Engineering College, Chennai.

➢ Attended one week FDP on "Revolutionizing Industries: AI's Impact in Today's World", organized by Department of AI and DS, KPR Institute of Engineering and Technology, Coimbatore from 20.03.2024 to 26.03.2024.

➢ Attended five-day Summer workshop on "Developing Cyber Security Models using Deep Learning Techniques" conducted by Hindustan Institute of Technology and science, IET Chennai Local Network, from 4th July to 8th July 2023.

➢ Attended Interactive Session on "Circular Economy" conducted by Hindustan Institute of Technology and science on June 10th 2023.

➢ Attended one Day National Symposium on "Green Hydrogen Technology: Harnessing the power of Renewables", Conducted by Hindustan Institute of Technology and science on 20th April 2023.

➢ Attended A five-day workshop on "Cloud Computing and Big Data Analytics" from 10th April 2023 (Monday) to 14th April 2023 (Friday) Organized by School of Computer Science and Engineering (SCOPE) VIT-AP University.

➢ Participated in National Conference on "Computational Intelligence and Data Analytics 2023" conducted by Department of CSE and IT, Hindustan Institute of Technology and science during 30th and 31st March 2023.

➢ Attended an Awareness session on "Intellectual Property Rights" by Hindustan Institute of Technology and science on 2nd Feb 2023.

➢ Attended International conference on Computer, Communication and Informatics (ICCCI) and presented a paper entitled "Key Issues and Future Direction for Cloud Storage in Research" during 23rd to 25th January 2023 held at Sri Sakthi Institute of Engineering and Technology, IEEE Madras Section.

- Attended two days' Technical webinar on "Eras of the Web (Web 0.0- Web 5.0) organized by Hindustan Institute of Technology and science during 9th and 10th January 2023.
- Attended International conference on Computer, Power and Communication (ICCPC) and presented a paper entitled "Towards Improving Cloud Security and Performance by using Proposed Controlled Replication Model" during 14th to 16th December 2022 held at Sri SaiRam Institute of Technology, IEEE Madras Section.
- Attended Five days' workshop on "Research Insights" organized by Hindustan Institute of Technology and science, held from 22 August 2022- 26 August 2022.
- Attended International conference on Intelligent Technologies (CONIT 2022) and presented a paper entitled "Comparative study of cryptographic algorithms in cloud storage data security" during 24th to 26th June 2022 held at KLE Institute of Technology, IEEE Bangalore Section.
- Attended one day International workshop on "Research publication in Engineering and Technology", by Elsevier Pvt on 27th August 2021.
- Attended Online FDP on "Natural Language Processing" conducted by Hindustan Institute of Technology and science from 29.03.2021 to 01.04.2021.
- Attended International conference on Intelligent Computing, Smart Communication and Network Technologies (ICICSCNT 2021) on 26th and 27th March 2021 held at RMK Engineering College.
- Attended 5 days FDP on "Recent trends in digital technologies" conducted by The American college, Madurai from 7th July 2020 to 11th July 2020.
- Attended 7 days FDP on "Networking Essentials" conducted by ICT Academy from 7th may 2020 to 13th may 2020.
- Attended five days FDP on "Python" Conducted by Vellore Institute of Technology", Chennai from 5th may 2020 to 9th may 2020.
- Attended one week FDP on "Linux Application in Engineering Education" conducted by NITTR, Chandigarh from 27.04.2020 to 01.05.2020.
- Attended one week FDP on "Internet of Things" conducted by NITTR, Chandigarh from 15.04.2020 to 19.04.2020.
- Attended two weeks FDP on "Managing Online Classes and Co-creating Moocs", conducted by Ramanujan College University of Delhi, sponsored by Government of India, MHRD from April 20 – May 06, 2020.
- Completed 7 days FDP programme on "Data Base Management Systems" conducted by NPTEL-AICTE on April 2019, funded by the Ministry of HRD, Govt.of.India.
- Completed 12 days FDP programme on "Programming in JAVA" conducted by NPTEL-AICTE on Oct 2019, funded by the Ministry of HRD, Govt.of.India.

- Participated in the Five days AICTE-Anna University sponsored Short term Training programme STTP on Operating Systems during Dec 3rd to Dec 7th 2019 in the Department of Computer Technology, MIT Campus, Anna University, Chrompet, Chennai.
- Participated in the training Programme "Teacher for Teachers" conducted by Anna Institute of Management Chennai on 12.10.2019.
- Participated in the Faculty Development Program on Software Defined Networks conducted in SONA college of Technology, Salem AICTE from Nov 18th to Nov 30th 2019.
- Participated in two days FDP on "Introduction to IOT" conducted by ICT Academy on 18th and 19th August 2017.
- Participated in the Training Programme on "Outcome Based Education" Conducted by Chennai Institute of Technology from 30th November 20217 to 2nd December 2017.
- Participated in the Faculty Development Program on Free Open Source Software (FOSS) conducted in Dhaanish Ahmed College of Engineering, Chennai on 8th and 9th march 2013.
- Presented a paper titled "Efficient Implementation of Biometric and Steganography in online polling system" on national conference on VLSI, communication and computation (NCVCC'12) at Maharaja Engineering college held on 18th February 2012.
- Seminar on Cloud Computing conducted at SNS College of Technology March 2012.
- Workshop on **"THE JOURNEY TO PRIVATE CLOUD WITH EMC"** Organized by the Department of Information Technology, PSG College of Technology, Coimbatore in Collaboration with EMC CORPORATION, Bangalore on 9th April, 2011.
- National Level Technical Symposium held at Sri Ramakrishna Institute of Technology on 30th September 2009.
- Workshop on **"EMERGING TRENDS IN MOBILE COMPUTING AND NETWORK SECURITY"** at S.N.S College of Technology on 21st September 2007.

Workshop / Conferences / FDP Organized: -
- Organized 24 hours online Challenge contest "The Largest Learnathon of India – Student Championship 2018" on 02.02.18 to 03.02.18 powered by Trailhead and organized by ICT Academy.
- Organized Computer Science and Engineering Department National level technical Symposium Hackerz'17 and Hackerz'18.
- Organized Five days' workshop in "Salesforce Technology Summit" 21st August

2018 in association with ICT Academy Salesforce.