

JSS Mahavidyapeetha JSS Academy of Technical Education



Dr. Vishnuvardhan Road, Srinivasapura post Bengaluru 560060

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FACULTY PROFILE

Department: Information Science & Engineering

1. Personal Details

NAME	Dr. Rekha P M
DEPARTMENT	Information Science & Engineering & HOD (i/c)
DESIGNATION	Professor CSE
PHONE	+91 9845636529
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Date of Joining (JSSATEB)	22-05-2002



2. Experience

Total Experience in Years	Teaching: 20 Years	Industry: 1 year 8 months	Research: 12 Years

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	Electronics & Communication Engineering	1995	Bapuji Institute of Technology, P.O. Box No. 325, Shamanur Road, Davangere -570004 Karnataka, INDIA	Kuvempu University, Jnana Sahyadri, Shimoga District Karnataka, INDIA
M.Tech.	Computer Science & Engineering	2006	Allahabad Agricultural Institute SHIATS - Deemed University Naini, Allahabad – - 211 007 Uttar Pradesh, INDIA	Allahabad Agricultural Deemed University Uttar Pradesh, INDIA
Ph.D.	Faculty of Computer & Information Sciences	2019	Research center: Department of Information Science & Engineering, BMS college of Engineering, Bangalore -	Visveswaraya Technological University, Belgavi Karnataka

4. Research & Publications

Papers Published in Web of	International: 5	National:
Science indexed Journals		
Papers Published in SCOPUS	International: 8	National:
indexed Journals		
Papers Published in other	International: 14	National:
Journals		
Papers Presented in	International:3	National: 17
Conferences / Symposium		
Books / Book chapters	Name of the book: Trends in IOT	
Published	Publisher: Springer Cham	
	Year of Publication:2020	
	Name of the book: O T	
	Publisher:	
	Year of Publication:	

5. Research Guidance

PhD Guide? Give field & University	Yes, Computer Science and Engineering	Visvesvaraya Technological University, Belagavi,
PhDs / Projects Guided	Guiding: 03	Projects at UG Level: 35

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization

ii. Patents

SI. No.	Title Details	Details of award of patent / Filed
1	An IOT based system for detection of brain cancer in	Published on 9/7/2021
	human body	

iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization

7. Awards Received

Awards	Received Second Best Paper Award for the title "Domain Specific Language -A solution to the
	intricacies of General-Purpose Language", at International Conference on Advanced Computing
	and Information Technology on 21 st ,22 nd March 2013, AMC Engineering college, Bengaluru.

8. Publications (Journals) i. International Journals

SI. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	The DistilBERT Model: A Promising Approach to Improve Machine Reading Comprehension Models	Sahana, V., Shahapure, N.H., Rekha, P.M.,Agrawal , P., Srivastava, V.	Internationa I Journal on Recent and Innovation Trends in Computing and Communic ation,	2023, 11(8), pp. 293– 309	Scopus		
2	Multistage Framework for Automatic Face Mask Detection Using Deep Learning	Deep Learning Sowmya, K.N., Rekha, P.M., Kumari, T., Debtera, B.	Computatio nal Intelligence and Neuroscien ce,	2022, 2022, 1500047	Scopus	3.41	Hindwai
3	Big Data Analytics Using Swarm- Based Long Short-Term Memory for Temperature Forecasting	Malini M. Patil, P. M. Rekha, Arun Solanki, Anand Nayyar, Basit Qureshi	Computers, Material &, continua	Vol. No.71 Issue No.2 pp:2091- 2105 Year: 2022	WOS & Scopus	6.36	Tech Science press
4	Water Moth Search Algorithm- based Deep Training for Intrusion Detection in IoT	Rekha P. M., Nagamani H. Shahapure, Punitha M. Sudha P. R.	Journal of web Engineering	Vol. No.20 Issue No.6 pp: 1781– 1812 Year: 2022	Scopus	0.74	River Publishers
5	Threshold Compare and Load Balancing Algorithm to for Resource Optimization in a Green Cloud	Shahapure, N. H., Rekha, P. M., & Poornima, N.	REVISTA GEINTEC- GESTAO INOVACAO E TECNOLOGIAS	Vol. No.11 Issue No.4 pp: 4465- 4481 Year: 2022	-	-	Associação Acadêmica de Propriedade Intelectual
6	An internet of things-based smart energy meter for monitoring device-level consumption of energy	Shishir Muralidhara Niharika Hegde Rekha P M	Computer & Electrical Engineering	Vol. No.87 Issue No. pp: Year: 2020	WOS & Scopus	2.633	Elsevier
7	Health Informatics as a Service	Rekha P M Dr. M Dakshayini	Trends in Cloud-based IoT	Chapter number: 10 January 2020	Scopus		Springer Cham
8	Efficient task allocation approach using genetic algorithm for cloud environment	Rekha P M Dr. M Dakshayini	Cluster Computing- The Journal of Networks, Software Tools and Applications	Vol. No.22 Issue No.1 pp: 1241– 1251 Year: 2019	WOS & Scopus	2.733	Springer

9	A Novel Approach for Monitoring Resources in Virtual Environment	Rekha P M Dr. M Dakshayini	International Journal of Control Theory and Applications	Vol. No. 9 Issue No.21 pp:147-153 Year: 2016	Scopus	1.16	International Science Press
10	A Study of Software Defined Networking with Open Flow 10.5120	Rekha P M Dr. M Dakshayini	International Journal of Computer Applications Publisher:	Vol. No. 122 Issue No.5 pp:5-12 Year: 2015	1	0.752	Foundation of Computer Science
11	Service Broker Routing policies in Cloud Environment: A survey	Rekha P M Dr. M Dakshayini	International Journal of Advances in Engineering & Technology	Vol. No.6 Issue No.6 pp: 2717- 2723 Year:2014		1.56	IJAET

ii. National Journals

SI. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
NIL							

iii. Conferences

SI. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Suívey on RC contíolled smaít caí	Aditya Vaibhav, Alisha Verma, UK. Neha, Suruchi Patil and Dr. P. M. Rekha	Ciil' International Journal of Digital Signal Processing	Vol. No.13 Issue No.2 pp: 24- 28 Year: Feb 2021		0.65	Cii l '
2	A suívey on IOľbased unified Appíoach foí women secuíity	Ankit Kumar, Ashutosh Kumar, GK. Prithvi, Soundarya V Yadav and Dr. P. M. Rekha	Cii l ' Inteínational Jouínal of Digital Signal Píocessing	Vol. No.13 Issue No.2 pp: 29- 32 Year: Feb 2021		0.65	Cii l'
3	LI_FI l'echnology foi vehicle-to- vehicle communications	J. Sanchita, B. Jnanakshi Snigdha and P. M. Rekha	Ciil' International Journal of wireless communication	Vol. No.13 Issue No.3 pp: 41- 45 Year: Feb 2021		0.572	Cii l '
4	Andíoid applications:the evolution and its building tools	Nilesh Kumar Sinha, Aman Anand, Nilesh Kumar Singh and Dr. P. M. Rekha	Ciil' International Journal of software Engineeriing and technology	Vol. No.13 Issue No.3 pp: 27- 31 Year: Feb 2021		0.26	Cii l '
5	Analysis of Deep Learning Algorithms for Breast Cancer Diagnosis on WBC	Prachi Jain, Syeda Zoya Kulsum, Rohan, Srivastava, Aryan Singh Dr. Rekha P M	International Journal of Engineering Research & Technology (IJERT)	Vol. No.8 Issue No.15 pp: 1-7 Year: Sept 2020		7.87	ESRSA
6	Study of Different Approaches to Develop an Automatic Traffic Rule Violation Detection System	Dr. Rekha P M Likitha G Nishant Kumar Alisha Sharma	International Journal of Engineering Research & Technology (IJERT)	Vol. No.8 Issue No.15 pp: 8-11 Year: Sept 2020		7.87	ESRSA
7	IoT in the Face of COVID - 19	Suhasi P M Khadija Fatima Dr. Nagamani N Purohit Dr. Rekha P M	International Journal of Engineering Research & Technology (IJERT)	Vol. No.8 Issue No.15 pp: 125-129 Year: Sept 2020		7.87	ESRSA
8	Dynamic Cost-Load Aware Service Broker Load Balancing in Virtualization Environment	Rekha P M Dr. M Dakshayini	International Conference on Computational Intelligence and Data Science	Vol. No.132 Issue No. pp: 744-751 Year: April 2018	Scopus	0.73	Elsevier
9	Dynamic Network Configuration and Virtual Management Protocol for Open	Rekha P M Dr. M Dakshayini	IEEE International on Advance Computing	pp :143-148 Year: 2015	WoS Scopus		IEEE

	Switch in Cloud		Conference				
	Environment		(IACC-2015)				
10	Cost based Data center selection policy for large scale networks	Rekha P M Dr. M Dakshayini	International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC)	pp:18-23 Year:2014	Scopus		IEEE
11	Omurt [On-Road Management Using RFID and IOT] Systems for City Traffic Control. Systemized Sophistications for Generating Smarter Cities	Spoorthi Kulkarni Rekha P M	Proceedings of "Magic of Bits & Bytes – Drives the World" Regional Student Convention Computer Society of India Region V	February 2020			
12	A Secure Wireless Healthcare System using IoT	B P Oohala, Meghana Hathwar T V, Sri Sampath Valluri Dr.Rekha P M	Journal of Network Security Computer Networks	Vol.No.6 Issue No.1 Year:2020		1.08	
13	Diagnosis of Breast Cancer using Machine Learning Algorithms	Divya D, Amudhasurabhi A Rekha P M	Journal of Image Processing and Artificial Intelligence	Vol. No. 5 Issue No. 3 pp. 23-29 Year :2019			MAT Journals
14	An IoT Based Solution for People Suffering with Dementia	Parthjeet, Piyush Kumar Rekha P M	Journal of Data Mining and Management	Vol.No.: 3 Issue No.: 2 Year: 2018			MAT JOURNALS
15	Intelligent Traffic Lights: An IOT approach	Yashas Y, Sowmya N S Rekha P M	International Journal of Advanced Research in Computer and Communication Engineering (NCAIT-2017)	Vol.No.: 6 Issue: 5 pp. 1-3 Year: May 2017		5.947	Tejass
16	Cybercrime security and prevention	Prasanna Kumar, Prem Vikas Rekha P M	International Advanced Research Journal in Science, Engineering and Technology (NCAIT-2017)	Vol. No.: 4 Issue: 8 Year: 2017 pp. 29-32		4.821	IARJSET
17	A Comparative Study of 64-Bit Microprocessors Apple, Intel and AMD DOI Prefix: 10.17577	Surakshita, Shifa ameen Rekha P M	International Journal of Engineering Research & Technology	Vol. No: 4 Issue No.: 22 pp. 289-295 Year:2016		5.011	International Research Publication House
18	Wireless intelligent Billing Trolley for shopping Malls using ZigBee and RFID	Akash S.N Preetham havan Manjunath C S	Proceedings of NCAIT-2015	Year:2015			

19	Hybrid Encryption Schemes for Security Enhancement in Cloud Computing	Jeevitha J.S Darshini A.S Rekha P M	Proceedings of NCAIT-2015	Year:2015	 	
20	Security Mechanisms in Software as a Service	Pavan C.T Akash N.G Punith B.M Rekha P M	Proceedings of NCAIT-2015	Year:2015	 	
21	Encryption schemes for data storage in cloud: A survey	Kusuma A Apoorva G Sneha Raghavan Rekha P M	International Journal of Engineering Research & Technology	Vol. No.: 2 Issue:13 pp. No.: 85-88 Year: 2014	 1.76	ESRSA
22	Survey on secure protocol for data storage in cloud computing	Preethi Rekha P M	International Journal of Engineering Research & Technology	Vol.No: 2 Issue: 13 pp.89-92 Year: 2014	 1.76	ESRSA
23	Digital Forensics for Large Networks: A Study	Aakash S. N. Chethan Kumar N.P. Rekha P M	International Journal of Engineering Research & Technology	Vol.No: 2 Issue: 13 Year: 2014	 1.76	ESRSA

iv. Workshops /Conferences Attended

SI. No.	Name of the workshop / Conference	Organizer	Date
1	one week Research Development Program on. "Problem Formulation, Publication, Proposal & Thesis to Writing"	Department of Computer Science and Engineering, Alva's T Institute of Engineering and Technology, Moodbidri in association with Indian Institute of Information Technology, Allahabad (IIITA) and Computer Society of India (CSI).	from 07/02/2022 to 12/02/2022
2	One Week AICTE – VTU Joint Training Programme for Teachers on "An Overview of Teaching Techniques in Innovation & Design Thinking" VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101.		6th to 10th December 2021
3	Three days workshop on Building Research Eco-System	Department of Mechanical Engineering, JSS Academy of Technical Education, Bengaluru	02-03-2021 to 04- 03-2021
4	AICTE sponsored one-week STTP Research trends in Computer Science & Engineering	SDM, Dharwad	14-12-2020 TO 19- 12-2020
5	Android development program with kotlin	VTU,Belgaum	10-08-2020 TO 12- 08-2020
6	E-Learning Using LMS tools	Dept of ISE, SKIT Bengaluru	3 Sept 2020
7	Android development with Kotlin	VTU, Belgavi, Karnataka	10 th to 12 th Aug 2020
8	Virtual Labs	Sri Venkateshwara College of Engineering, Bengaluru	2 June 2020
9	FDP on Artificial Intelligence	Dept of CSE, Alva's Institute of Engineering Technology	22 to 26 th May 2020
10	Satellite and Automation	GSSSIETW, Mysore	11 to 13 th May 2020
11	Strategy for Enhancing Article Citation and H-Index	Department of Mechanical Engineering, ACS College of Engineering, Bengaluru.	11 th May 2020
12	Art of Writing Scientific Report	Department of Electronic and Instrumentation, Velammal Engineering College, Chennai	14 to 15 th May 2020

13	FDP on contemporary tools and techniques for Teachers and Researchers in Higher Education: experience of using virtual classrooms	eachers and Researchers in Higher Education: Bengaluru	
14	Webinar on A Developer Introduction to ReactJS	Department of Computer Science and Engineering, SJB Institute of Technology, Bengaluru	23 rd May 2020
16	FDP on Emerging trends in Computer Science & Engineering	Dept. of CSE, Dayanand Sagar University, Bengaluru	10 th to 4 th June 2020
17	FDP on NBA & NAAC accreditation Process	IQAC, M S Ramaiah Institute of Technology Under AICTE	4 th to 8 th June 2020
18	FDP on Python Programming	Dept. of CSE, Government college for women, Kolar	5 to 11 th June 2020
19	Search Engine optimization Techniques	Dept. of MCA, RNSIT, Bengaluru	13 th June 2020
20	Role and Importance of Preincubates and Incubators in Higher Education Institutions" AND "Design Thinking and Innovation	Government Engineering College, Ramanagara	17 to 19 June 2020
21	Web series on Devops tools	Reva University, Bengaluru	19 th to 22 nd June 2019
22	Two days FDP on Data Science & Statistics	Organized by SJBIT, Bengaluru,	24 th ,26 th Jan 2019
23	National Conference on combat depression	Organized by JSS Medical college and Hospital, Mysuru	22 to 23 oct 2018
24	Two days National Symposium on Data Science & Statistics-Trends and Challenges	JSSATE Bengaluru	4 th , 5 th July 2018
25	Five days FDP on data science & communication network	BMS College of Engineering, Bengaluru	2 nd to 6 th Jan 2018
26	one-week FDP on OOP with java for DAA lab & ARM microcontroller Programming	Jyothy Institute of Technology, Bengaluru from	16 th to 21 st Jan 2017
27	National Workshop on Accreditation Process for Technical Institutions	JSSATE Bengaluru	26 th to 27 st Aug 2016
28	IBM Bluemix	VTU with IBM academic initiative VTU regional Office, Bengaluru	6 Dec 2015
29	Workshop on Android application development	JSSATE, Department of ISE, Bengaluru	3 Nov 2015
30	Plagiarism awareness for PhD thesis writing	VTU at SJBIT, Bengaluru	25 th July 2015
31	Two-day National seminar & tutorial on Software defined networking	CDAC at Trivandrum	10 th ,11 th Jan 2015
32	Workshop on Quality enhancement of engineering education through NPTEL	JSSATE, Dept. of computer science & Information Science engineering	7 th August 2013
33	Three-day workshop on Research Methodologies & Latex	Ghousia college of engineering by VTU elearning center, Ramanagara,	27 th to 29 th July 2013
34	One day FDP on cloud computing	TCS in association with BMS College of Engineering, Bengaluru	7 th March 2013
35	Three-day workshop on Joy of Teaching computer Networks	PESIT, Bengaluru,	28 to 30 June 2012
36	One day workshop on Cloud computing	BMS College of Engineering, Bengaluru,	28 th Dec 2011
37	Three-day FDP on Cyber Forensics	JSSATEB, Bengaluru,	25 to 27 th AUG 2011
38	Seven-day Workshop on Applied Embedded system design	JSSATE, Dept. of Electronics & Communication	3 rd , 7 th August 2009
39	Syllabus Review	Conducted by VTU, at MSRIT, Bengaluru	9 th October 2007
40	Three-day Workshop on Essential of functional testing with Rational Robot	Conducted by IBM on at RVCE, Bengaluru	26 th ,28 th June 2006
41	Vykthi vikas kendra	JSSATE at Sivratheswara Kendra, Bengaluru	27,28 th May 2005
42	Five-day Workshop on INTEL curriculum development on advance microprocessor	Conducted by INTEL at IITB, Bengaluru	23 rd to 27 th September 2002

v. Workshops / Conference (Organized)

SI.	Name of the workshop /	Organized by	Date	Role
No.	Conference			
1	National Conference -2021	Dept. of ISE, JSSATE, Bengaluru	18/06/2021	Convenor

2	Interpersonal Communication skills & Employability skills	Dept. of ISE, JSSATE, Bengaluru Mr. Vinod David	25-8-2021	Coordinator
3	Hands on workshop on Java Full Stack	Dept. of ISE, JSSATE, Bengaluru Pavan Roa ,Director, Technology Synechron,Bangalore	27/06/2021	Coordinator
4	Webinar on Internship ,placement preparation & career planning	Dept. of ISE, JSSATE, Bengaluru Mr.Supreeth Y S,CEO,Tequed Labs ,Bengaluru	15/5/2021	Coordinator
5	FDP on Microcontroller & Embedded systems	Dept. of ISE, JSSATE, Bengaluru	27 th to 29 th Jan 2020	Coordinator & Speaker
6	SDP on Angular Bootcamp	Srinath Waramballi, M/s Tantragnana, Bengaluru	20 th , 21 st Sept 2019	Coordinator
7	Technical talk on Cloud 101 and JAVA	Mr.Varun, Mr.Syed, M/s Zysk technologies, Bengaluru	25 th Sep 2018	Coordinator
8	Technical talk on Software Engineering Practices	Ms. Anitha P.C, Consultant, Corp trainer, Agile practitioner, M/s Zinemind Technologies, Bengaluru	1 st Mar 2019	Coordinator
9	Technical talk on Connecting vehicles through Controllers	Manjunath T.M, Senior Architect, M/s Robert Bosch, Bengaluru	13 th Apr 2019	Coordinator
10	Seminar on Overview on VLSI opportunities & Description of trends	S N Kamath, M/s Kanada Technologies, Bengaluru	20 th Aug 2017	Coordinator
11	One Day Hands on workshop on Embedded C	Mr. Shashank, Embedded Engineer i3indyaTechnologies, Delhi	21st April 2017	Coordinator
12	Two Day SDP on Web Application Development using Node JS	Pavan Kumar HPE, Bengaluru	19 th ,20 th Feb 2016	Coordinator
13	State Level Two Day SDP on IoT	Fazal Mahfooz Robotics Engineer Sunny Bhardwaj, Hardware Engineer i3indya Technologies association with Techfest IIT Bombay	26 th ,27 th Sept 2016	Coordinator
14	Technical talk on, Wireless sensor Networks	Dr. Guruprasad H G Professor & Head Dept. of ISE BMS college of Engineering, Bengaluru	5 th September 2013	Coordinator

vi. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)

SI. No.	Name of the workshop / Conference	Organizer	Date
1	TEQIP -II sponsored, Five-day Workshop on Cloud computing & virtualization	Dept. of Computer science & Engg, RIT sakharale, Maharashtra	20 to 24 June -2014
2	AICTE sponsored Fifteen-day FDP on Advances in cloud computing	Dept. of ISE, Acharya institute of Technology Bengaluru	1 st to 14 th July 2013

9. Details of NPTEL / COURSERA courses completed

SI. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1.	Fundamentals of Network Communication	University of Colorado System and offered through Coursera	07/11/2020	91%
2.	Introduction to the Internet of Things and Embedded Systems	University of California, Irvine and offered through Coursera	06/04/2020	93%

10. Membership of Professional Bodies:

1.	Life Membership in Indian Society for Technical Education (MISTE)
2.	International Association of Engineers (IAENG)
3.	Institute of Research Engineers and Doctors (IRED)

11. Any other information you will like to share about your professional experience

- Resource Person for the topic "Hands on Workshop on Cryptography and Cryptanalysis" (Hybrid mode) from 13-16 January 2023, Organized by Department of Information Science & Engineering, Malnad College of Engineering, Hassan.
- Session Chair for International Conference on Advances in Engineering and technology for Intelligent systems ICAETIS-2023, held during 16th -18th May2023, Organized by Department of Electronics and telecommunications Engineering, DSCE, Bangalore.
- Resource person at Dept of MBA, JSSATEB, for the Student Development Program on "Emerging Technologies" for MBA, final year Students, held on April 14, 2022.
- Invited as Judge for Project exhibition held at KS institute of Technology, Bangalore on 25/6/2022.
- Delivered Hybrid Workshop on "Cryptography and Crypo analysis" scheduled from 13th -16th January 2023 In the Department of ISE, Malnad College of Engineering, Hassan
- Board of Examination(BOE) member Global Academy of Technology, Belgaum
- BOE member of CSE/ISE/ AI & ML composite Board of Examination (BOE) VTU, Belgaum.
- Primary Evaluator in Toyathon 2021, Ministry of Education Innovator cell, AICTE.
- Invited talk on" IoT platform, Implementations & Applications", on 21 May 2021 at Department of ISE, Malnad College of Engineering, Hassan.
- Invited talk on" Paving the Way to 5G", AICTE-ISTE funded Induction / Refresher program (3rd Phase) on "Future Wireless Communication: Standards & Technologies" organized by the KS Institute of Technology, Bangalore, 29-05-2021.
- Invited talk on "Smart IoT" for V, VII sem students at Department of computer Science & Engineering, RYM EngineeringCollege on 24th June 2020.
- Session Chair for International Conference on Mainstreaming Block Chain Implementations at B.M.S College of Engineering, Bangalore, 21/2/2020 to 22/2/ 2020,
- Delivered two modules Lecture on "Analog & Digital Electronics" III sem CSE/ISE in VTU EDUSAT Programme -21 in themonth of SEPT-OCT 2016.
- Delivered Hands on session on "cloud simulator" for MTech students on 6th FEB, 2015 at Department of Information
 Science& Engineering, BMS college of Engineering, Bengaluru.

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