

CURRICULUM VITAE



Dr. Rekha C

W/O Dr— Prashanth K.B MBBS, MS (ENT)

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ABOUT Dr. Rekha C

Dr. Rekha C received the B. E degree in 2000 and the M. Tech degree in 2004 from Kuvempu University and Visvesvaraya Technological University respectively. she obtained the Ph. D degree from Visvesvaraya Technological University in May 2021. All the three degrees are in Computer Science and Engineering discipline. She is involved in research and teaching B. E and M. E students of Computer Science and Engineering and has more than 4 years of teaching, 5.5 years of industrial experience as well as 8 years of research experience. She has published 1 Book, 2 Patents and 6 papers in International Journals.

OBJECTIVE

To build a good career in research, development and teaching fields in the challenging and creative environments.

EDUCATION

1. **Doctoral:** *Ph. D* (Full Time) in Computer Science and Engineering, Vishweswaraiah Technological University, Belgaum, 2021.
Thesis Title: Design of Key Scheduling algorithms for Block ciphers.
Adviser: Dr. Krishnamurthy G N
2. **KSET:** Cleared Karnataka State Eligibility Test – 2018
3. **Post Graduation:** *M. Tech* in Computer Science and Engineering with First Class (66%), Bapuji Institute of Technology, Davangere (Vishweswaraiah Technological University, Belgaum), 2004.
4. **Under Graduation:** *B. E.* in Computer Science and Engineering with First Class (69%), U.B.D.T. College of Engineering, Davangere, (Kuvempu University), 2000.

TEACHING EXPERIENCE

1. **Lecturer** in the Department of P.G. Studies in Computer Science, UBDT College of Engg, Vishweswaraiiah Technological University, Davangere - 577 004, Karnataka.
2. **Lecturer** in the Department of Computer Science and Engineering, UBDT College of Engg, Vishweswaraiiah Technological University, Davangere - 577 004, Karnataka.
3. **Associate Professor** since from 5-1-2022 to till date in the Department of Information Science and Engineering, BIET College of Engg, Vishweswaraiiah Technological University, Davangere - 577 004, Karnataka.

Experience includes teaching U.G and P.G students, research, guiding projects, setting papers for state level examinations.

INDUSTRY EXPERIENCE

Senior Team Leader at JSoft Solution, JSW, Toranagallu, Bellari from Feb. 2007 to Jun. 2012.

INDUSTRIAL PROJECTS

1. *Industrial Training* Successfully Completed "Guest House Reservation System" for Harihara Polyfibers (GRASIM-Aditya Birla Group) Harihara, Karnataka State, Nov. 2003.
2. *Sr.Team Leader*, MES ERP Project (RAD, Oracle 11i , tomcat), Monitoring the Development of All modules (Quality, Planning, Production and Marketing) in the system, supporting the system and tracking of CRM products in JSW, From Feb 2007 to April 2009.
3. *Sr.Team Leader*, SPCL ERP Project (APEX, Oracle 11i , tomcat) Monitoring of Development of All modules (Quality, Planning, Production and Marketing) in the system, supporting the system and tracking of SPCL products in JSW, From Feb 2007 to April 2009.
4. *Sr.Team Leader*, CHRIS (PB, Oracle 9i), Support and enhance system, Arill 2009 to 2012.
5. *Sr.Team Leader*, HRIS System (Spring, JDBC, Oracle 11i , tomcat), Support and enhance system, Arill 2009 to 2012.
6. *Sr.Team Leader*, SAP implementation, Monitoring of Development of PM and SD modules in the system, of CRM products in JSW, from Oct 2011 to Jun 2012

BOOK PUBLICATIONS

- IoT ARCHITECTURE AND ITS PROTOCOLS Paperback, Dr. SHREYAS J, Dr. REKHA C, Mr. VISHWESH NAGAMALLA, Mrs. B. REVATHI

PATENTS

- Cybersecurity solutions built on blockchain technology are designed specifically for use in industrial 4.0 applications
- IMPLEMENTATION OF EDGE COMPUTING-BASED IOTS WITH MACHINE LEARNING-DRIVEN LATENCY OPTIMIZATION

RESEARCH PUBLICATIONS

- **Journal (International)[7]**

1. Rekha C, Anand Junmal, Udayaprasad P K, and Ramya Krishna, "Application of Multiobjective Particle Swarm Optimization Algorithm for the Selection of best Route in Internet of Things", MDPI Journal, submitted (in the review state)
2. Rekha C, Shreyas J, S M Dilip Kumar, "Ant Inspired Trac Aware QoS Routing in Software Dened IoT", Inderscience Publishers, submitted (waiting for response).
3. Rekha C, Shreyas J, S M Dilip Kumar, "An Energy Efficient IoT-Based Wireless Sensor Network with Improved Life Time for 5G", Elsevier journal, submitted (in the review state)
4. Dr. Rekha C, ANUSHA A SHIRODKAR, TANUJA V M, VEEKSHITA S JAKKARADDI, SHANU KUMAR SINGH, Dr. SHREYAS J, "DETECTION OF NON-HELMET RIDERS AND EXTRACTION OF LICENSE PLATE NUMBER USINGYOLO-V2 AND OCR METHOD", Neuro Quantology — October 2022 — Volume 20 — Issue 13 — Page 1437-1444 — doi: 10.14704/nq.2022.20.13.NQ
5. Rekha C, Krishnamurthy G N. An Optimized Key Scheduling Algorithm for CAST-128 using dynamic substitution S-box, in International Journal of Recent Technology and Engineering, (Impact Factor: 5.92), ISSN:2277-3878, Volume-8, Issue-3, September 2019.
6. Rekha C, Krishnamurthy G N and Dilip Kumar S M. An Alternate Key Scheduling Algorithm for Blowfish and its Performance Analysis, in International Journal of Computer Applications, ISSN:0975-8887, November 2018.
7. Rekha C, Krishnamurthy G N. Modified AES Optimization Strategies with Hierarchical security for Internet-of-Thing Applications, in Webology, Pages: 6859-6875, Volume 18, No. 6, 2021.
8. Rekha C, Krishnamurthy G N and S M Dilip Kumar. An optimized encryption algorithm and F function with a dynamic substitution for creating S-box and P-box entries for Blowfish Algorithm, in International Journal of Scientific and Technology Research, (Impact Factor: 7.46, ISSN:2277-8616.
9. Rekha C, Krishnamurthy G N. Area and Power Optimized AES for IoT applications using Dual Port ROM based S-Box and Security by Optimized Key Scheduling Algorithm, in Communicated in INTERNATIONAL JOURNAL OF SCIENTIFIC AND TECHNOLOGY RESEARCH VOLUME 9, ISSUE 04, APRIL 2020.

AWARDS AND RECOGNITIONS

1. *Best Performance Award* in the JSoft Solution, JSW, Toranagallu, Bellari, India, Oct. 2009.
2. *Best Performance Award* in the JSoft Solution, JSW, Toranagallu, Bellari, India, Jan. 2010.

SEMINARS / WORKSHOPS / CONFERENCES / SHORT TERM COURSES ATTENDED

1. Three days FDP on "Introduction to Python Programming", Organized by the Department os IS and E, BIET, Davangere in association with ISTE and IEI from 12-12-2022 to 14-12-2022
2. Five days FDP on "Data Analytics and Data Science" Organized by the Department of IS and E, BIET, Davangere in association with VTU, Belgaum from 30-01-2023 to 03-02-2023

3. Two days workshop titled "Interface of IPR in academics and Entrepreneurship" held on 02-03-2023 and 03-03-2023 at BIET, Davangere.
4. Two week FDP On INTELLIGENT SCHEMES FOR CYBER SECURITY, AICT, from 2022-09-05-2022-09-10 to 2022-09-12-2022-09-16 at UBDT College of Engg.
5. One week FDP on FDP-MSPowerBI-BIET-Oct'22 FDP, organized by Department of CS and E, BIET, Davangere.
6. participated in the seminar on "Best Practices for New Education Policy (NEP) - 2020 in Higher Education Institutions" sponsored by NAAC on 21st Feb 2023.
7. Two days workshop on "Hands on Bigdata and apache Hadoop" on *Computer System Engineering*, Organized by UBDT College of Engg, Davanagere, Sponsored by FOCS, held on 05-05-2015 and 06-05-2015.
8. Two weeks ISTE STTP Workshop on *Introduction to Design of Algorithms*, Organized by UBDT College of Engg, Conducted by Indian Institute of Technology Kharagpur, Davangere from 27-04-2015 to 30-05-2015.
9. Two days Workshop on Short term course on *Core Project Management Concepts*, Organized by Project Management Istititute QAI, Bangalore, held on 5-03-2008 and 06-03-2008.
10. Two days National Conference on *Soft Computing*, Organized by School of Electrical Engineering (SELECT), VIT University, Vellore, on 22-07-2011 and 23-07-2011.
11. Participated and completed successfully AICTE training and learning (ATAL) academy FDP on "*Intelligent Schemes for Cyber Security*", held from 05-09-2022 to 10-09-2022 – 12-09-2022 to 16-09-2022 at UBDTCE, Davangere.
12. Participated in 2 days workshop on "*Interface of IPR in academics and Entrepreneurship*" held on 2nd and 3rd Mar 2023 at BIET, Favangere.
13. Participated in 5 days workshop on "*Data Analytics and data science*" held on 30th Jan and 3rd Feb 2023 at BIET, Favangere
14. Participated in the seminar on "*Best Practices for New Education Policy (NEP)-2020 in Higher Education Istitutions*" sponsored by NAAC on 21st Feb-2023
15. Attended 3 days Faculty Development Program in association with ISTE and IEI from 12-12-2022 to 14-12-2022

PLATFORMS AND TOOLS

1. *Operating Systems*: Windows, Linux.
2. *Languages*: C, C++, Java.
3. *Packages/simulators*: ns-2, ModelSim.

SUBJECTS TAUGHT

1. Data Structures & Applications
2. Computer Networks
3. Database Management Systems
4. Network Security
5. Analysis & Design of Algorithms
6. C Programming
7. Web Programming
8. Operations System
9. Image Processing and Pattern Recognition
10. Discrete Mathematical Structures
11. Microcontroller and Embedded Systems
12. Cryptography

PERSONAL INFORMATION

- Name : Dr. Rekha C
Date of Birth : 05th Aug. 1976
Father : Sri. Chandrashekharappa G. T (Former Irrigation Secretary, Ex KPSC Member)
Mother : Smt. Pushpa C (House Wife)
Spouse : Dr— Prashanth K.B, M.B.B.S, M.S (ENT)
Professor, Department of ENT
JJM Medical College, Davangere
Daughter : Ms. Chinmayee K P, BE (CS and E)
working in Ks smart solutions, Chennai
Son : Mr. Pushkar K P
@2nd PUC, Jyanasudha PU College, Karkala

REFERENCES

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2. **Dr. Deelip Kumar S N**
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