



DEVARAJU B. M.

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VTU Faculty ID: 1RNCS0003500

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#45, 11th cross, Geddalahally,
RMV 2nd Stage, Sanjay Nagar
Bangalore-94

ACADEMIC QUALIFICATIONS:

(Ph.D.), Computer Science and Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, INDIA

Year of Reg: March, 2015 - Pursuing

M. E., Computer Science and Engineering (Information Technology)

UNIVERSITY VISVESVARAYA COLLEGE OF ENGINEERING (UVCE)
BANGALORE UNIVERSITY, INDIA

Year: Dec, 2006 - Dec, 2008

Marks: 71.00%

B. E., Electronics and Communication Engineering

VISVESWARIAH TECHNOLOGICAL UNIVERSITY-GVIT, KARNATAKA, INDIA

Year: July, 1999 - July, 2003

Marks: 60.00%

PROFESSIONAL EXPERIENCE:

Nature of Experience	No. of Years
Teaching	15
Industry/Research	2
Total No. of years of Experience	17 Years

- **Assistant Professor:** [Aug, 2008 - Till Date], **RNS Institute of Technology**, Bangalore – 560098.
- **Guest Faculty:** [2006 - 2008], **University Visveswaraya College of Engineering (UVCE)**, Bangalore University, Bangalore-560001
- **Design and Service Engineer:** [2004-2006], **Frax Electro Systems**, Bangalore-560085

RESEARCH/ SCHOLAR ACTIVITY:

Title of the Research Work:	“ Framework for Detection and Prevention of Malicious Nodes in Wireless Sensor Networks for Improved QoS”
Advisor & Guide:	Dr. G T Raju, Principal, SJC Institute of Technology, Chikkabalpur, India
R & D Centre Name :	Department of Computer Science & Engineering S J C Institute of Technology, VTU
Progress status:	<ul style="list-style-type: none"> ● All Subjects / Courses taken and completed ● Published Three Articles in reputed journals & Conferences (Scopus indexed journal & IEEE) ● Comprehensive Viva-voce completed ● Need to be taken Open seminar 1& 2, Final defense

Area of Interest: Computer Networks, Computer Network Security, Cryptography, Cyber Security, Wireless Networks, Sensor Networks, Embedded Systems, Mobile communications, Internet of Things(IoT) and Quality of Services in Networks.

ACHIEVEMENTS/ RECOGNITION:

- **Member of DATA SECURITY COUNCIL OF INDIA (DSCI) | A NASSCOM**
- **IEEE Best Paper Award:** “Cross Layer and Management Plane Integration Approach for Detection and Prevention of Malicious Activities in WSN” International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques (ICEECCOT), IEEE Explore, 10.1109/ICEECCOT43722.2018
- Red-Cross Certification Award
- **GATE Qualified in 2005** (percentile -70.2).
- Best UG Project coordinator & Best PG Technical Seminar Coordinator @RNSIT
- Trained Teachers and Students on Network Simulator 3 @RNSIT

PATENTS:

1. **Title of Invention:** System for Improving Prediction Accuracy of Healthcare Ontology
Australian Government: IP Australia,
Patent number: 2021102318 and **Granted on:** 2 June 2021
Term of Patent: Eight years from 2 May 2021
2. **Title of Invention:** System for Integrating Healthcare Ontologies for Improved Prediction Accuracy
Application No: 202141018698A and **Published:** 30-04-2021
3. **Title of Invention:** System for Improving Prediction Accuracy of Healthcare Ontology
Application No: 202041052879 and **Published:** 26-03-2021

BOOKS:

1. **Title :** Block Chain Technology and Crypto currency (Status – Currently on process)
Publications: Prisms India Private Limited,
Authors: Prof. Devaraju B M & Dr. G T Raju

MAJOR CONTRIBUTIONS APART FROM TEACHING AND ADMINISTRATION:

- Organizing committee member - 10 workshops/FDPs in College for the benefit of faculties
- Organizing committee member for three International Conferences – ICIP-2007, ICDECS-2011, ICDECS-2015, ICDECS-2019
- Project coordinator UG, Dept. of CSE (Year: 2009 - 2010, 2011-2020).
- Technical Seminar coordinator UG and PG, Dept. of CSE (Year: 2009 - 2010, 2011-2020).
- Internship/Professional work Coordinator (Year: 2018 - 2020)
- PROP-Project Open House Panorama (State level project showcasing) Coordinator (Year: 2013 - 2020)
- Discipline Committee Member in Department level (Year: 2016 - 2019)
- Student mentoring Committee Member (Year: 2016 - 2019)
- International Conference Organizing Committee Member (ICDECS'11, ICDECS'15, ICDECS'19)
- International Conference Financial In-charge (ICDECS 2019)
- FDP Organizing Committee Member in Department level.
- Manuals & Programs Prepared for the Laboratories: Analog & Digital Electronics, Microprocessor- 8086, Computer Networks & Security, and NS3.

- **NBA Criteria -2 and NAAC - Criteria-2 - Dept. coordinator**
- VTU -Digital Valuation Centre – member coordinator – college level
- Laboratory In-charge [Microprocessor lab, Electronic Circuits Lab, Analog & Digital Lab, Computer Network Lab]
- Class Councilor & Mentor for students (Batch -2018-19, 2019-20, 2020-21)

RESEARCH PUBLICATIONS:

1. Devaraju B M, Jagannathan M: “*Matrix based Elliptic Curve Cryptography Protocol*”, in International Journal for Scientific Research and Development, Vol. 2, Issue 4, June 2014
2. Devaraju B M, G T Raju, “*Detection and Prevension of Malicious Activities in Wireless Sensor Networks for improved QoS- A Survey*” Second international conference on Green Computing and Internet of Things, **IEEE Record #44090**, 16-18 August 2018
3. Devaraju B M, G T Raju, “Cross Layer and Management Plane Integration Approach for Detection and Prevention of Malicious Activities in WSN” International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques (ICECCOT), **IEEE Explore, 10.1109/ICECCOT43722.2018**
4. Devaraju B M, G T Raju, “Cross-layer Planes Framework for Detection of Malicious Nodes in WSN ” International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-2S, December 2019
5. V. R. Archana and B. M. Devaraju, “Stress Detection Using Machine Learning Algorithms”, IJRESM, vol. 3, no. 8, pp. 251–256, Aug. 2020.
6. Renuka N., Devaraju B. M. "Morse code based Secured Authentication System using Eye Blink through Haar Cascade and Facial Landmark Algorithm." International Journal of Advance Research, Ideas and Innovations in Technology 7.3 (2021). www.IJARIIT.com.

CONFERENCES/WORKSHOPS/FDP/WEBINARS ORGANIZED:

1. Member coordinator for Expert Technical Talk on “Research Methodology and How to Write a Technical Paper “by Dr. Venugopal K R, Principal, UVCE, Bangalore for the benefit of research scholars and faculty members, under R&D activity, 18/12/2009, RNSIT
2. Member coordinator for 2-day FDP on “Microprocessors and ARM Programming, OOP with Java”, Jan 29-30, 2017
3. **Member coordinator for International Conference on Data Engineering & Communication Systems, ICDECS-2011, RNSIT, Dec 30-31, 2011 at Vivanta by Taj, Bangalore**

4. **Member coordinator for 2nd International Conference on Data Engineering & Communication Systems, ICDECS-2015, RNSIT, Dec 28-29, 2015 at RNSIT, Bengaluru**
5. **Member coordinator for 3rd International Conference on Data Engineering & Communication Systems, ICDECS-2019, RNSIT, Dec 19-20, 2019 at RNSIT, Bengaluru**

NATIONAL/ INTERNATIONAL CONFERENCES ATTENDED:

- First International Conference on Information Processing (ICIP-2007) in Bangalore (India)
- Fourth International Conference on Intelligent Sensing & Information processing (ICISIP-2006) in Bangalore (India).
- International Conference on Data Engineering & Communication Systems, ICDECS-2011, RNSIT, Dec 30-31, 2011 at Vivanta by Taj, Bangalore
- 2nd International Conference on Data Engineering & Communication Systems, ICDECS-2015, RNSIT, Dec 28-29, 2015 at RNSIT, Bengaluru
- 3rd International Conference on Data Engineering & Communication Systems, ICDECS-2019, RNSIT, Dec 19-20, 2019 at RNSIT, Bengaluru

WORKSHOPS/FDP/SEMINARS/WEBINARS ATTENDED:

1. Workshop on “Computer Graphics and Visualization”, 4-days at RNSIT, Bangalore (28th – 31st Jan 2009)
2. Workshop on “Ad Hoc and sensor networks”, 21st march 2009, SKIT, Bangalore
3. Workshop on “Programming the Web and S/W Architecture”, 4-days at RNSIT, Bangalore (27-30th July 2009)
4. One-day workshop on SFD-Software Freedom Day, 23rd Sep 2008, Student Coordinator – Vittal P, RNSIT, Bangalore
5. One-day workshop on Web 2.0, the latest trends in web technology, Open Source Content Management System (CMS), and Sun SPOTs, 28th Feb 2009, Student Coordinator – Vittal P, RNSIT, Bangalore
6. Mission 10X workshop, April 19–23, 2010 at RNSIT, Bangalore
7. Workshop on “ Web 2-0 & Rich Applications” , July 27–28, 2010, RNSIT, Bangalore
8. 4-days Workshop on HARDWARE Trouble Shooting AND NETWORKING, July 5-8, 2010, for the benefit of Technical Support Staff of VTU affiliated Engg. Colleges
9. Expert Technical Talk on “Cloud and Grid Computing “by Dr. Rajkumar Buyya, Director, cloud computing & Distributed Systems , The university of Melbourne, Australia, CEO,

- Manjrasoft Pty Ltd, Melbourne, Australia for the benefit of research scholars and faculty members, under R&D activity, 18/12/2009 , RNSIT
10. Expert Technical Talk on “Research Methodology and How to Write a Technical Paper “by Dr. Venugopal K R, Principal, UVCE, Bangalore for the benefit of research scholars and faculty members, under R&D activity, 18/12/2009 , RNSIT
 11. Two-days’ workshop on Android Mobile Operating systems, April 21st -22nd , 2011, at RNSIT
 12. One-day Workshop on Concepts of Parallel Programming and OpenMP, Feb 24, 2011, at RNSIT
 13. FDP on System Software & Operating System Lab, RNS Institute of Technology,30–31st July 2012
 14. FDP on Software Testing Laboratory, RNS Institute of Technology, 21-22nd Jan 2013
 15. Technology Trends in Silicon Valley,13th August 2013, RNSIT
 16. Mobile Applications Development, 5th April 2014, RNSIT
 17. Options, Opportunities of Entrepreneur, 29th March 2014, RNSIT
 18. Two Day Faculty development Program on “ Programming in C and Data Structure”, July 24-25, 2014, RNSIT
 19. FDP on Problem Solving in C and Data Structures, 24th -25th July 2014, RNSIT
 20. NVIDIA Professor Meet, 27th November 2014, MSRIT, Bangalore
 21. Application Development Technologies, 1-3rd Jan 2015, RNSIT
 22. Five days hands on workshop on “Network Simulation using NS-3”, June 01- 05, 2015, NITTE, Bangalore.
 23. FDP on “ NS-3 and its Advanced Usage” , June 27 – July 1, 2016, RNSIT, Bengaluru
 24. Workshop on “Research Methodologies & Latex”, organized by VTU, e-Learning Centre, Mysore, 18th – 20th Feb 2016, at BLDEAs Dr. P G Halakatti college of engineering, Vijayapura, Karnataka
 25. 3-day In-house FDP on “Fundamental and Advanced Concepts of UNIX OS”, July 20-22, 2016
 26. FDP on “Computer and Wireless Networks”, 11th – 16th July 2016, BNMIT, Bengaluru
 27. 2-day FDP on “Microprocessors and ARM Programming, OOP with Java”, Jan 29-30, 2017
 28. 3-day In-house FDP on “Database Application Development using Python/Java”, in association with ISE and MCA departments, July 20-22, 2017
 29. 3-day In-house FDP on “Machine Learning”, in association with ISE department, July 19-21, 2018
 30. 3-day In-house FDP on “Web Technology and Applications”, in association with ISE department, July 23-24, 2018
 31. One-week Faculty Development Program (FDP) on Artificial Intelligent and Deep Learning during 27-31 January, 2020 at RNSIT, Bengaluru, in association with Ministry of Electronics and Information Technology, Govt. of India and Electronics and ICT Academy, IIT Guwahati

SUBJECTS TAUGHT DURING ACADEMICS:

- Block chain Technology [20SCS23]
- Computer Networks [06CS64, 10CS64]
- Computer Networks and Security [18CS52]
- Cryptography, Network Security and Cyber Law[15CS61, 17CS61]
- Information and Network Security [18SCS322]
- Advanced Computer Architecture[10CS74,17CS72]
- Information and Network Security[10CS831]
- Advanced Computer Architecture[10SCS23]
- Information Security[10SCS333]
- Electronic circuits[06CS32]
- Analog and Digital Electronics[17CS32]
- Wireless Networks and Mobile computing [17CS663]
- Embedded Computing Systems [10CS72, 15CS72]
- Microprocessors[10CS45,06CS45]

PROJECTS GUIDED:

- **UG:** 30+ projects for UG Students at an average of 1-2 projects/year, with a team size of maximum of 4 students/team
1. ANUSHA S J -1RN07CS015, BHAVYA- 1RN07CS028, JEEVITHA JAGADISH-1RN07CS120, THARA-1RN07CS108 “Congestion Avoidance Mechanism to Prevent Congestion in Internet” carried out@ Knowx Innovation Pvt Ltd, under supervision of Mr.Parkavi, in year 2011, RNSIT
 2. RAJESH C -1RN08CS024, ARUN KUMAR- 1RN08CS033, ASHUTOSH KUMAR-1RN08CS022, PRATIK CHAKRAVORTY- 1RN08CS065 “Delay Analysis and Optimality of Scheduling Policies for Multi-Hop Wireless Networks” Carried out @RNSIT in year 2012, RNSIT
 3. MUKESH KUMAR AGARWAL -1RN08CS051, ARJIT KUMAR RAI- 1RN08CS019, ABHISHEK S JAIN- 1RN08CS006, ADARSH R- 1RN08CS007 “Supporting Efficient and Scalable Multicasting Over Mobile Ad Hoc Networks” Carried out @RNSIT in year 2012, RNSIT
 4. ADITYA GNANESHWAR- 1RN09CS004, “Monitoring and Control of an Up-Converter and Down Converter” carried out@ ISRO, Bangalore, in year 2013, RNSIT
 5. SAGAR R- 1RN10CS087,SANTHOSH BS- 1RN10CS090, VIJETHA S NAYAK-1RN10CS116, SUPREETHA S- 1RN10CS106, “Cryptography Using Artificial Neural Networks” Carried out @RNSIT in year 2014, RNSIT

6. SAMRAT DUTTA- 1RN09CS090, GAURAV CHAUHAN- 1RN09CS036, SACHIN N- 1RN09CS086, “Secure Multipath Routing In Wireless Multi Hop Networks Using One-Way Key Chains” Carried out @RNSIT in year 2014, RNSIT
7. PUNEETH KUMAR P-1RN11CS136, NITHIN B R- 1RN12CS412, NANDA KUMAR D- 1RN12CS411, PRASHANTH B R- 1RN12CS413, “Detection and Prevention of Website Hacking” Carried out @RNSIT in year 2015, RNSIT
8. VISHAL BAJA- 1RN11CS123, ADITYA NARAYAN- 1RN11CS004, DEVESH SINGH- 1RN11CS026, GARIMA PANDEY- 1RN11CS028, “A Group Key Agreement Protocol based on stability and power using Elliptic Curve Cryptography” Carried out @RNSIT in year 2015, RNSIT
9. R.MONISHA- 1RN12CS067, RAMYA.S- 1RN12CS075, RASHMI.N- 1RN12CS076, ARPITHA R- 1RN13CS401, “Preventing Private Information Inference attacks on social networks” Carried out @ PHILIPS India, in year 2016, RNSIT
10. A VISHNUVARDHANA- 1RN12CS001, AISHWARYA ASHISH- 1RN12CS005, GAURAV G M- 1RN12CS028, “Intrusion Detection System in a computer Networks’, Carried out @RNSIT in year 2016, RNSIT
11. MONISHA R- 1RN13CS049, SUSHMITHA K- 1RN13CS104, “Target Simulation for Fire Control Radar Using Mat lab” @ Bharat Electronics Limited (BEL) India, in year 2017, RNSIT
12. SANDEEP VINAY BV-1RN14CS088, PRAMOD G -1RN14CS067, “IDS using Genetic Algorithm” Carried out @RNSIT in year 2018, RNSIT
13. R SAIPRASANTH- 1RN14CS075, NISHITA PAL- 1RN14CS062, SOORYA SAHAR PN- 1RN14CS103, SPOORTHI S- 1RN14CS105, “IOT Based Smart College Campus Using RFID” Carried out @RNSIT in year 2018, RNSIT
14. SHUBHAM KUMAR- 1RN15CS127, SOURAV PATI- 1RN15CS128, VISHESH KOTHARI- 1RN15CS125, GAUTAM KRISHNAN- 1RN15CS043, “Keyboard less coding for software development using machine learning techniques” Carried out @RNSIT in year 2019, RNSIT
15. YASH VORA- 1RN16CS123, VIVEK KUMAR SINGH- 1RN16CS121, SAGNIK DAS- 1RN16CS086, RAHUL DEVAJJI- 1RN16CS078, “Autonomous Machines Robots” Carried out @RNSIT in year 2020, RNSIT
16. ADITH KUMAR- 1RN16CS004, AJAY DESHPANDE- 1RN16CS005, DHANUSH C- 1RN16CS021, MATHARISHWA B- 1RN16CS052, “Real-time Hand tracking and gesture recognition”, Carried out @RNSIT in year 2020, RNSIT.
17. 1RN17CS079-SAGAR V 1RN17CS082 SATHYA M 1RN17CS086-SHASHANK ASHOK GADAVI 1RN17CS108 VIJETH P H “Insight - An application to help blind people” @RNSIT 2021

- **PG:** 6+ projects for PG Students with a team size of 1 student/team
- 1. RENUKA N -1RN19SCS02 “Morse Code Based Secured Authentication System Using Eye Blink Through HAAR Cascade and Facial Landmark Algorithm”
- 2. JAGANNATHAN M-1RN14SCS06, “Matrix based Elliptic Curve Cryptography Protocol (MECCP)”, Carried out @RNSIT in year 2014, RNSIT
- 3. ARCHANA V R - 1RN18SCS02 “Stress Detection Using Machine Learning Algorithms” Carried out @RNSIT in year 2020, RNSIT

PERSONAL DETAILS:

Date of Birth : 18 June 1979
 Sex : Male
 Father’s Name : Muniyappa
 Nationality & Caste : Indian, SC
 Languages Known : English, Hindi, Kannada, Tamil, and Telugu.
 Hobbies : Kabadi, Swimming, Reading magazines/newspapers on current affairs

REFERENCES:

- **Dr. H N Shivashankar** – Former Director, RNSIT, Ph: +91 9900261666, E-Mail: hns_shankar@yahoo.com
- **Dr. Venugopal K R** - Vice-Chancellor of Bangalore University, Ph: +91 9844036885, E-Mail: venugopalkr@gmail.com
- **Dr. G T Raju** – Principal, SJCIT Ph:+91 9448308345, E-Mail: gtraju1990@yahoo.com
- **Dr. Manjula S H** – Professor, Dept. of CSE, UVCE, Ph:+91 9449424994, E-Mail: shmanjula@gmail.com, shmanjula@yahoo.com
- **Dr. H R Shashidhara** – Associate Professor, Dept. of CSE, RNSIT, Ph:+91 9880822991, E-Mail: shashi_dhara@yahoo.com
- **Dr. T Satish kumar** – Assistant Professor, BMSIT, Ph:+91 9980500700, E-Mail: satish.savvy@gmail.com

PLACE: BANGALORE

SIGNATURE

DATE: