




DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT
22 Mile, B.M Kaval, Udayapura, Kanakapura Road, Bangalore-560082.

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Faculty Name	Dr G Manjula	
Designation	Associate Professor	
Educational Qualification	Ph.D, M.E,B.E	
Experience in Years	19	
Area of Interest	Software Architectural Pattern, IOT, System Compiler.	
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Educational Details

Ph.D –Computer Science & Engineering, Specialized in Dynamic Scenarios transformation in MVC -Software Architectural Pattern, Visvesvaraya Technological University, Belagavi, Karnataka.
M.E – Computers & Communication, Computer Science & Engineering Department, Anna University, Coimbatore, Tamil Nadu.
B.E – Computer Science & Engineering, CSE Department, Rao Bahadur Y Mahabaleswarappa Engineering College (Formerly Vijayanagara Engineering College), Bellary, Karnataka.

Personal Details

Date of Birth: 14.04.1979

Hobbies: Reading, Listening to Music, Social Work, Adventures activity, Animal Care, Mentoring.

Languages Known: Kannada, Telugu, Tamil, Hindi, and English.

Professional Experience

Associate Professor: From October 2020 to till date, DSATM, Bangalore.

Professor and Head: Department of CSE from 29th July 2010- Till September 2020 Sri Sairam College of Engineering , Bengaluru-562106 Achieved Accreditation for 4 UG Engineering Programs under NAAC with B++ , Tier-II, for 3 year.

Assistant Professor: 15th July 2006 – 1st June 2010 Department of Computer Science and Engineering, Bangalore College of Engineering, Bangalore, Karnataka, India-562107.

Assistant Professor and Head: Department of CSE from Kuppam Engineering College, Kuppam, Telangana from June 2002 to June 2006.

Lecturer: Department of Computer Science and Engineering Sri Revanasiddeshwara Institute of Technology in Bangalore from Aug 2000 to July 2002.

Publications

Citation Indices of the Research Publications:

Citations – 10; h-index- 01; Journals:4

Elsevier: “Firefly-Binary Cuckoo search-based heart disease prediction in Big Data “, Academic press, Science Direct, Elsevier.

International Journals:

1. Published paper on: “Smart Trolley in Megha Mall” in IFERP (i7C-2017) organized by Sri Sairam College of Engineering, Bangalore on 16th to 17th November 2017. (www.iferp.in)
2. Published paper on: “Life-your Heart speaks your password” in IFERP (i7C-2017) organized by Sri Sairam College of Engineering, Bangalore on 16th to 17th November 2017. (www.iferp.in)
3. Published a paper in International Conference on Recent Research in Engineering 2016(ICRRE 2016): “Data Analytics Behavior in Existing Model Driven Development “held at SKR Engineering College, Chennai, India on 31.03.2016(ISSN No.0976-1353 Reference No. ICRRE 189, Volume 21 Issue 3 on April 2016)
4. Published a paper in International Conference on Recent Research in Engineering 2016(ICRRE 2016): “Navigation for Visually Impaired to avoid accidents” held at SKR Engineering College, Chennai, India on 31.03.2016(ISSN No.0976-1353, Reference No. ICRRE95, Volume 21 Issue 3 on April 2016)
5. Published a paper in International Conference on Recent Research in Engineering 2016(ICRRE 2016): “Navigation for Visually Impaired to avoid accidents using MVC” held at SKR Engineering College, Chennai, India on 31.03.2016(ISSN No.0976-1353, Reference No. ICRRE95, Volume 21 Issue 3 on April 2016)
6. Published paper on: “Smart phone operated wheel chair using Voice and body gesture” in International conference (i7c-2016) IFERP organized by Sri Sairam College of Engineering, Bangalore in 10th to 11th November issue 2016. (www.iferp.in)
7. Published paper on: “Intelligent IOT based aquaponics system” in International conference (i7c-2016) IFERP organized by Sri Sairam College of Engineering, Bangalore in 10th to 11th November issue 2016. (www.iferp.in)
8. Published paper on: “Agricultural data analytics on PAC” in IFERP organized by Sri Sairam College of Engineering, Bangalore in November issue 2016. (www.iferp.in)
9. Published paper on: Dynamic scenarios in software system design” in International Journal of Software Engineering and Soft Computing (IJSESC) Boning Journal organized by Sri Sairam College of Engineering, Bangalore in November issue 2015. (www.bonfiring.org)
10. Published paper on:” Architectural pattern to improve Business Application using MVC” Dynamic” in International Journal of Software Engineering and Soft Computing (IJSESC), Bonfing Journal organized by Sri Sairam College of Engineering, Bangalore in 5th November issue 2015. (www.bonfiring.org)
11. Published paper on: Dynamic scenarios in MVC software system design” in IFERP organized by Sri Sairam College of Engineering, Bangalore in November issue 2015. (www.iferp.in)
12. Published paper on: “Software architectural patterns” in IFERP organized by Sri Sairam College of Engineering, Bangalore in November issue 2015. (www.iferp.in)
13. Published a Paper “Software Architectural patterns in Business Application” in IJCSBI February -2014 issue. (www.ijcsbi.org)
14. Published a Paper “Software Architectural patterns in Business Application” in IJCSBI February -2014 issue. (www.ijcsbi.org)
15. Published an on” Dynamic Scenario transformation in software system design” in technical presentation, recognition and application of research contributions to ICACEE’2012.
16. Presented a Business plan on “The Village Doctor” organized by Entrepreneurship Development cell in Association with the Department of Management studies on 31st October 2012.

2 more journals papers are under processing.

Conferences:

1. National Conference in Computer Science and Engineering (NCACSWBDA-2016) sponsored by TEQIP presented a paper on "Applying Intermittent Energy distribution for Evading Energy Holes in WSN" held on 24th October 2016 at SDMCET, Dharwad.
2. National Conference in Computer Science and Engineering (NCACSWBDA-2016) sponsored by TEQIP presented a paper on "Inspecting the results of renewable energy source of solar botanic trees using Nano piezo Electric elements" held on 24th October 2016 at SDMCET, Dharwad.
3. National conference on Computer Application & Communication systems (NCCC 2k16) presented a paper on "A gesture recognition using convex hull algorithm using real time system" held on 26th February 2016 at BTLIT, Bangalore.
4. Presented a paper on "A Survey on Evaluating Elasting of cloud computing platform" in Karnataka state faculty convention 2016(19th ISTE) held on 3rd Nov 2016 organized by Sri Sairam College of Engineering, Bangalore.
5. Presented a paper on "Contrasting digital water making techniques for safe data transmission" in Karnataka state faculty convention 2016(19th ISTE) held on 3rd Nov 2016 organized by Sri Sairam College of Engineering, Bangalore.
6. National level technical symposium "TECHSAA-2016" conducted by the department of EEE. held on 26th October 2016 in AMC Engineering College. Bangalore.
7. Second National Conference on Recent Trends in Computer Science and Information Technology-NCRTCSIT-2016" held on 21st and 22nd of April 2016 at SJCIT, Chikballapur.
8. National Conference on Computational Simulation and its Applications in Association with Bonfring International Journal of Software Engineering and Soft Computing (IJSESC) published and participated and presented a paper on "Architectural Pattern to Improve Business Application using Model View Controller" held on 5th November 2015
9. National level Technical symposium (Livaz) organized in Shirdi Sai Engineering College participated and presented a paper on MDA-based ATL Transformation to generate MVC2 web models" held on 20th March-2014
10. All India Conference –IEI held on Adhiyam College of Engineering, Hosur as guided paper on "Development of Web application using MVC" during 15th and 16th September- 2014
11. National level conference NCCTEA organized in Adhiyam College guided paper on MVC Design Patterns "held on September-2014
12. National Level technical Symposium presented a paper on "Business Plan" organized by the Dept. of CSE has secured First Position in ADVAYA'2012.18th October-2012.
13. Presented a paper on "High performance of Dom technique in XML for data retrieval in National conference on emerging trends in Engineering Technology & Applications (NCETETA-2010) held at Shirdi Sai Engineering College on 12th and 13th November 2010.
14. Presented a paper on "Generation of ROI enhanced depth maps using stereoscopic cameras and a depth camera "in National Technical symposium on 22nd October 2009 at Shard Sai Engineering College, Bangalore.
15. Presented a paper on "Functional Architecture for NGN-based personalized IPIV services "in National conference on 9th October 2009 organized by the dept. of ISE and AISE research center, Bangalore.

International Conference:

1. Published a paper in International Conference on Recent Research in Engineering 2016(ICRRE 2016): "Data Analytics Behavior in Existing Model Driven Development "held at SKR Engineering College, Chennai, India on 31.03.2016(Reference No. ICRRE 189)
2. Published a paper in International Conference on Recent Research in Engineering 2016(ICRRE 2016): "Navigation for Visually Impaired to avoid accidents "held at SKR Engineering Chennai, India on 31.03.2016(Reference No. ICRRE 95).
3. Published a paper in International Conference on Information, systems and computing (ICISC-2013) participated and presented with titled "Scenario Transformation in MVC Pattern" during January 4th and 5th 2013 in Sri Sairam College of Engineering, Chennai- 44.

Training Undergone:

1. Participated and successfully completed the online Workshop on “Universal Human Values on the theme “Inculcating Universal Human Values in Technical Education “ durin 21st July to 25th July 2020 as organized by AICTE.
2. Undergone Training in java script Programming at Aptech institute in Bellary, 1999.
3. Attend One-Day workshop on “Artificial intelligence & computer networks in recent technology” held on March 2010, Organized by the Department of Computer Science and Engineering, Mahendra College of Engineering, Tamil Nadu.
4. Undergone Training as crash course in “Corel draw” on 20th and 21st October 2010 at Shirdi Sai Engineering College, Bangalore.
5. Attend Five-Days workshop on “TEACHING METHODOLOGIES Mission 10X in recent technology” held on 25th to 29th April 2011 Organized by the Department of Computer Science and Engineering, BTLIT, Bangalore.
6. Attended a workshop on High Impact Teaching skills attested by Dale Carnegie, Inc, Trainer and Wipro on the 18th and 19th April 2011.
7. Attend One-Days workshop on “Research opportunities in Embedded Systems and Wireless Communications “held on March2010, Organized by the Department of Electronics & Communication Engineering, Mahendra Engg. College, Namakkal.
8. Attend One-Days workshop on “Recent Researches in Mathematics and its Applications” held on December 2010, Organized by the Department of Mathematics, SSEC, and Bangalore.
9. Undergone Training 5 days’ workshop in Gousia College of Engg. “Research methodologies & Latex”, Ramanagara Dist., held on Aug-2012.
10. Undergone Training on “Android Application Development” with hands on sessions as a part of NextGen Learning courses during 27th and 28th September 2013
11. Attended one day workshop in VTU regional office on “Spoken tutorial Program” held on September-2014.
12. Attended five days Short term course in IIT Madras on “Effective Teaching methodology” held on October-2014.
13. Attended three days Short term course in REVA UNIVERSITY on “Importance of Operation Research in Software Industries” held on April 2015.

Awards

1. International Award" **Outstanding Women in Engineering**",by Venus International Foundation on 3rd March 2018.
2. National Education and Research Awarded " **Adarsh Vidya Saraswathi Rastriya Puraskhar**" by Global Management Council- Glacier Journal Research Foundation on 15th Aug 2019.
3. ISIE -India Faculty Coordinator-" Go-Kart Design and Development" by ISIE -India on 25th to 26th Feb 2017.
4. Attended and Participated in the 3rd Annual Women's Meet 2018- Centre of Advanced Research and Design by Venus International Foundation on 3rd March 2018.

Academic Activity

UNIVERSITY RELATED WORK:

1. Member coordinator Board of Examination, Computer Science and Engineering, Visvesvaraya Technological University, Belgaum 2017-2018.
2. Subject Expert Member Board of CBCS schemes, Visvesvaraya Technological University, Belgaum in the academic year 2018 attended at SJBIT, Bangalore.
3. EMS Coordinator (Examination Management System), Visvesvaraya Technological University, Belgaum, at Sri Sairam College of Engineering, Bangalore. from 28th August 2014 to January 2019.

4. Member coordinator Board of Examination, Visvesvaraya Technological University, Belgaum at Sri Sairam College of Engineering, Karnataka. from 2015 – 16
5. Paper setter for Visvesvaraya Technological University Ph.D Degree, Post Graduate and Under Graduate Courses.
6. External Deputy Chief Superintendent for Visvesvaraya Technological University, Belgaum Exams at BTLIT, Bangalore in the academic year 2015-2016.

Patent filed: “Smart energy Efficient IOT Health Monitoring System using Estimated Computing”, in IPR, Govt of India.

Online Certification Courses

1. **Gold Medal-** in " Programming in Java" subject with score 93%
2. Elite- in " Introduction to Soft Computing" subject with score 72%
3. Elite- in " Introduction to Human Computer Interaction" subject with score 64%
4. In Coursera more than 150 courses completed such as Google certification courses, AWS and project-based courses.
5. Udemy more than 5 courses completed such as Machine Learning, Python etc.
6. In Verified Certificate of Achivement on “ PY0101EN:Python Basics for Data Science” from IBM Edx Programming course issued on 16th July 2020.
7. “Take a challenge “ course certified from Odisha State Certificate in IT,(OG9GZ4-CE000218) by Manorama Charitable Trust,Rayagada,Odisha on 13/5/2020.
8. Webinar on “3D printing for Medical applications”, organized by Ramco Institute of Technology ,Rajapalyam on 20/5/2020.
9. One day National webinar on “Global Approaches in Patent Laws” organized by the P C Jabin Science College,Hubballi on 14th July 2020.

Faculty Development Activity

1. Participated and completed AICTE ATAL Academy Online FDP on “Block chain” from 15th Dec 2020 to 19th Dec 2020 at The National Institute of Engineering(NIE),Mysore.
2. Participated and completed AICTE ATAL Academy Online FDP on “Internet of Things(IOT)” from 27th April 2020 to 1st April 2020 at University Institute of Engineering and Technology ,Kurukshetra University,Kurukshetra.
3. Participated in the Five days online FDP titled “Education 4.0” Organized by IQAC at Sri Sairam College of Engineering on 10th to 14th August 2020.
4. Participated in the Seven days FDP titled “A New Paradigm towards accreditation Process” Organized by IQAC in association with RV College of Engineering under AICTE Margadarshan Scheme at Sri Sairam College of Engineering on 25th Jan to 31st Jan 2020.
5. Participated in the Five days FDP titled “Faculty Skill Enrichment Program” at Sri Sairam College of Engineering on January 2020.
6. Participated in the Five days FDP titled “Faculty Skill Enrichment Program” at Sri Sairam College of Engineering from 20th to 24th January 2019.
7. Participated in the Four days FDP titled “FACTO2K17 (Funding, Authoring, Counseling, TQM and Opportunities in Entrepreneurship) organized by Sri Sairam College of Engineering from 2nd to 4th August 2017.
8. Participated in the Three days FDP titled “Innovative Teaching pedagogy and student Management organized by Sri Sairam College of Engineering from 14th, 15th and 18th July 2016.
9. Actively Participated in the FDP titled “Solving Operations Research Problems using MS- Excel” organized by R V Institute of Management Bangalore from 26th May 2015
10. Participated in the Three days FDP titled “IPR, Stress Management and Effective Counseling Techniques “organized by IEDC-(DST) in association with Department of Science and Humanities at Sri Sairam College of Engineering from 1st Aug to 5th August 2015.
11. Participated in the Five days FDP titled “Faculty Skill Enrichment Program” at Sri Sairam College of Engineering from 20th to 24th January 2014.

12. Participated in an AICTE sponsored Short Term Course on “Teacher Effectiveness Workshop” organized by the Department of Management Studies from 13th to 17th October, 2014 at IIT Madras.
13. Participated in the AICTE sponsored Staff Development Program on “Intelligent E- Technology & Web Computing “from 10th December to 15th December 2012 organized by Department of CSE, Aadyaman Engineering college, Tamil Nadu.
14. Attended a tutorial session on “Cloud Computing and Semantic web” in the International Conference on Information, systems and computing-ICISC’13 during January 4th and 5th, 2013 Aadyaman Engineering college, Tamil Nadu.
15. Participated in the Faculty Enablement program held at Infosys, Mysore from 30th Jan 2012 to 3rd Feb 2012 conducted Infosys Limited.
16. Attended a one-day workshop on “Recent Researches in Mathematics and its Application” on 22nd December 2010 organized by department of Mathematics, at RV college of Management, Bengaluru.
17. Participated in the one-day Technical seminar on Current Research Topics in Various Engineering Fields with a paper title on “MTRON: An efficient XML storage and retrieval systems” held on 24th Feb 2010.

Sports

1. Participated in Annual athletic meet and sports competition during Academic year 2016-2017 and secured Runners place in Throw ball (Women)
2. Participated in Annual athletic meet and sports competition during Academic year 2016-2017 and secured Runners place in Tug of war (Women)
3. Participated in Annual athletic meet and sports competition during Academic year 2016-2017 and secured Runners place in carom (Women)
4. Participated in Annual athletic meet and sports competition during Academic year 2016-2017 and secured Runners place in carom (Women)
5. Participated in Annual athletic meet and sports competition during Academic year 2015-2016 and secured Runners place in Throw ball (Women)
6. Participated in Annual athletic meet and sports competition during Academic year 2015-2016 and secured Runners place in Carom (Women)
7. Participated in Annual athletic meet and sports competition during Academic year 2015-2016 and secured Runners place in Carom (Women)
8. Participated in Annual athletic meet and sports competition during Academic year 2014-2015 and secured Runners place in Throw ball (Women)
9. Participated in Annual athletic meet and sports competition during Academic year 2014-2015 and secured Runners place in Carom (Women)
10. Participated in Annual athletic meet and sports competition during Academic year 2014-2015 and secured Runners place in Chess (Women)

Achievements

1. Certificate of Appreciation as Achieved 100% result in the Courses “Software Architecture, Operations Research and Advanced Computer Architecture” during the Academic year 2015-2016
2. Certificate of Appreciation as Achieved 100% result in the Courses “Software Architecture” during the Academic year 2010-2011
3. Certificate of Appreciation as Achieved 100% result in the Courses “Software Architecture, Advanced Computer Architecture” during the Academic year 2011-2012
4. Certificate of Appreciation as Achieved 100% result in the Courses “Software Architecture, Operations Research and Advanced Computer Architecture” during the Academic year 2012-2013
5. Certificate of Appreciation as Achieved 100% result in the Courses “Software Architecture, Operations Research and Advanced Computer Architecture” during the Academic year 2013-2014

6. Certificate of Appreciation as Achieved 100% result in the Courses “Operations Research and Advanced Computer Architecture” during the Academic year 2014-2015
7. Certificate of Appreciation as Achieved 100% result in the Courses “Software Architecture, Operations Research and Advanced Computer Architecture” during the Academic year 2016-2017
8. Creative Management consultants (ISO9001-2008) Quality Management System and Audit Training awarded Internal Auditor training during 29th August 2015(SSCE/004)
9. Awarded a Diploma in Software languages like HTML, DHTML, & ASP.
10. National level Technical Symposium Advaya-2009 conducted by SSEC got I prize in paper Presentation.
11. Organized a technical session on “Programming skills in C-language” in Aug 2014 to Nov-2014
12. National level Technical Symposium Advaya-2012 conducted by SSEC got II prize in paper Presentation.

Best Projects Guided:

1. Tongue controlled robot for dumb people using flex sensor and accelerometer.
2. A Prototype model to convert rain water into drinking water generating hydroelectric power to drive its sensors using android technology.
3. Android operated wheel chair for physically challenges people.
4. Tongue controlled speaking micro controller (Live project done to Magnum Technologies)
5. Vehicle tracking system using GPS and GSM.
6. Geo alert using Android Smartphone
7. Development of an android based street light controlling and power monitoring system.
8. Micro controller based low cost autonomous vehicle
9. Fuzzy keyword search over encrypted data in cloud computing.
10. Personal Authentication using IRIS recognition
11. Defect Tracking tool
12. Development of an android based street light controlling and power monitoring System.

Best Project as Products: CSR activity (2019-2020)

Product Project1: Neck Movement based Wheel Chair.

Team Silla De-Ruedas won in the VISVESVARAYA INDUSTRIAL & TECHNOLOGICAL MUSEUM, INNOVATION FESTIVAL PROGRAMME 2019 from National Council of Science Museums, Ministry of Culture, Government of India

Product Project2: “Krushi Rakshaka” – IOT Based Agriculture System

Product Project3: CCTV Based Attendance System sanctioned a fund by Karnataka State Council for Science & Technology (KSCST)

Title: MTRON: AN EFFICIENT XML STORAGE AND RETRIEVAL SYSTEM

Tools: Visual studio 2005, Oracle 8i, VB.Net, Adhoc.Net.

Technologies: XML, World Wide Web, X Query, SQL, FLWR, RDBMS Duration: One and half year

Team Size: 1.

Project Description: XML is extensible Mark-up Language emerged as a major standard for representing data on the World Wide Web. Despite the excitement XML has produced, there are important problems to tackle with regarding storing and retrieving of large amounts of XML documents efficiently. Various techniques and tools for XML storage and retrieval have proposed in recent years.

Title: WEBSITE CREATION ON INTEGRATED STEEL PLANT.

Tools: Windows98/Windows 2000

Technologies: Java, Java Script. Duration: 6 months. Team Size: 4.

Project Description: our project places the company profile in the interest so that it is available to the customer to view anywhere in the world (live project).it gives brief description about the company details in the field of manufacturing activities, administration, employee details.

Professional Membership

1. Member of “All India Council For Technical Skill Development” (Member Id AICTSD/10353)
2. Senior Member of Computer Society of India –SMCSI. (10094820)
3. Life Member of Indian Society for Technical Education – ISTE (LM102196)
4. The Graduate student member of Institute of Electrical and Electronics Engineers(IEEE)- #92445607
5. Senior member of The Institution of Engineers (India)-IEI(M-157917-1)
6. ISO Internal auditor (ISO 9001:2015) certified from IRCA certified ISO 9001:2015 transition auditor.

Contact Details

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Bengaluru-560082
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My Vision

To Achieve high Professional Milestone with societal, moral, human ethical values. Aiming sustainable Targets and Services professionally to meet global challenges.