

PROFILE

DR. SUNIL KUMAR B S

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Professional Reachout:

Google Research Scholar & LinkedIn;

Research Gate; Academia.edu & Mendeley.

<https://sites.google.com/view/bss-profile/home>



Professional Qualifications :

- **Ph.D.** in Computer Science & Engineering, SIT, Tumkur affiliated to Visvesaraya Technological University, Belgaum
- **M.Tech.** in Computer Science & Engineering at Jawaharlal Nehru National College of Engg., Shimoga affiliated to Visvesaraya Technological University, Belgaum.
- **B.E.** Degree in Electrical and Electronics Engineering from U B D T College of Engineering, Davangere affiliated to Kuvempu University, Shankaraghatta.

Technical Skills:

Languages	: Java, C, C++, Assembly Languages.
Internet Technologies	: HTML, XML, XAMP.
Databases	: Oracle - 9, MS-ACCESS, SQL 2000.
Platforms	: Linux, Windows 9x, UNIX, DOS.

Personal Information:

Date of Birth	: 20 th July 1972
Nationality	: Indian
Languages	: English, Kannada and Hindi.
Present Address	: S/o Late Dr. Shivabasappa B S Door No. 603/D, 'Kalleshwara Krupa', 7 th Main Road, Nittuvalli New Extension, Davangere-577 004

Experience: (As on Jan -2018)**20 Yrs**

Presently working as Professor & Head in the department of Information Science & Engineering, GM Institute of Technology, Davangere, affiliated to VTU, Belgaum.	Since 8 th Jan -2018
Worked as Professor in the department of Computer Science & Engineering, GM Institute of Technology, Davangere, affiliated to VTU, Belgaum.	Aug-2017 to Jan 2018
Worked as Associate Professor in the department of Computer Science & Engineering, GM Institute of Technology, Davangere, affiliated to VTU, Belgaum.	Feb-2015 to Jul 2017
Worked as Associate Professor & Head, Department of Computer Science & Engineering, GM Institute of Technology, Davangere, to VTU, Belgaum.	Aug-2012 to Jan-2015
Worked as Assistant Professor and Head, Department of Computer Science & Engineering, GM Institute of Technology, Davangere, to VTU, Belgaum.	Aug-2005 to Jul-2012
Worked as a Asst. Professor and Head of the Department of Computer Science & Engineering and Information Science & Engg. In GM Institute of Technology.	Sept.-2004 to Jul-2005
Worked as a Lecturer and Head of the Department of Computer Science & Engineering and Information Science & Engg. In GM Institute of Technology	Sept-2002 to Aug-2004
Worked as a Electrical Maintenance Engineer at GRASIM Industries Ltd., Kumarapatnam	Oct- 1997 to Oct- 2000
Worked as a Lecturer for a period of 4 months (June & August 1997) in Electrical & Electronics Department in S J M I T, Chitradurga	Jun1997 to Aug -1997
Worked as a Guest Lecturer in Electrical & Electronics Department in U B D T College of Engg., Davangere	Jul - 1994 to Aug-1995

- ❖ Participated in two day Workshop on “Advanced Mathematical Techniques in Research & Engineering Applications” on 29th & 30th Jan 2018.
- ❖ Participated in two day FDP on “Computer Network Simulation Using NCTUns & Networking Concepts, Algorithms Using C- Programming” on 11th & 12th Jan 2018.
- ❖ Attended 2-day workshop on “Outcome Based Education(OBE) and Outcome Based Accreditation (OBA)” in connection with National Board of Accreditation (NBA) process in GM Institute of Technology on 10th & 11th Feb 2017.
- ❖ Coordinated the National Conference on Emerging Trends in Engineering, Research and Management -2016, organised & Conducted by GM Institute of Technology, Davangere.
- ❖ Attended a 3-day Faculty Development Program on “FEEL Teacher”, conducted by CLHRD and organised by GM Institute of Technology, Davangere.
- ❖ Attended a 2-day Faculty Development Program on “Mobile Application Development using ANDROID”, jointly conducted by Dept. of CSE and ISE, GMIT, Davangere.
- ❖ Attended a 2-day workshop on “Python Programming”, conducted by CSE, GMIT, Davangere on 22nd - 23rd Mar 2014.
- ❖ Attended a 2-day workshop on “NS-2 for Beginner's”, conducted by CSE, GMIT, Davangere on 17th & 18th Aug 2013.
- ❖ Attended a One-day workshop on “J2EE and Advanced Concepts of Java”, conducted by CSE, GMIT, Davangere on 31st March 2012.
- ❖ Attended a One-day workshop on “Practitioner Approach on C++”, conducted by CSE, GMIT, Davangere on 18th Feb 2012.
- ❖ Attended a 2-day workshop on “Signal & Image Processing”, conducted by ISE, MSRIT, Bengaluru on 19th - 20th Feb 2010.
- ❖ Participated in Faculty Training Program on “Information Security & Cyber Forensics” by Cyber Cure Solutions at GMIT, Davangere on 9th & 10th Feb 2012.

- ❖ Attended a One-day workshop on “PhD in Computer Science: A Perspective” at IISc, Bengaluru on 2nd Jul 2010.
- ❖ Attended a One-day workshop on “National Programme on Technology Enhanced Learning (NPTEL)”, organized by IIT Madras at MSRIT, B'luru on 4th Feb 2010.
- ❖ Attended a One-day workshop on “VTU Thesis Development using Latex”, organized by the e-learning Centre, at SJCE- Mysore on 31st Dec 2009.
- ❖ Attended a 2-day workshop on “Research Methodologies”, organized by the e-learning Centre, at SJCE- Mysore on 29th - 30th Dec 2009.
- ❖ Attended a 12th State Level ISTE Convention & two day National Seminar on “Role of the Faculty in Examination System” on 20th & 21st Nov 2009 at GMIT- Davangere
- ❖ Attended a 2-day workshop on “Soft Computing & its Applications”, at UBDTCE, Davangere, on 3rd & 4th Dec 2005.
- ❖ Attended a 5th National Workshop on Cryptography” conducted by JNNCE & Cryptology Research Society India (CRSI) at ISE, JNNCE, Shimoga from 12th - 14th Aug 2005.
- ❖ Attended a 2-day workshop on “Device Driver Development on Multi-platform” in CSE, NMAMIT, Nitte, from 10th -11th Feb 2005.
- ❖ Attended a one week workshop on “.NET Train the Trainer”, conducted by BIET as BITES-Microsoft Academic Alliance program from 7th -11th Jun 2004.
- ❖ A two week STTP on “Fuzzy Logic and its Applications to Power Systems”, from 15th – 26th Mar 2004 at BIET, Davangere, sponsored by AICTE-ISTE.
- ❖ Attended a 5th State Level ISTE Convention & two day National Seminar on “Role of Technical Education in Meeting the Challenges of Globalization” on 12th & 13th Nov 2012 at UBDTCE- Davangere
- ❖ A training on “DOS, Windows & C – Programming” at M/s. Poornima Computers, Davangere for 6-months.

- ❖ B. S. Sunil Kumar, A. S. Manjunath, S. Christopher and Raja Lakshmi Menon, “Motion-Compensated Adaptive Dual Tree Complex Wavelet Transform Coding for Scalable Color Video Compression using SPIHT”, in IJCTA, vol 25, issue 5, 2016, PP-47-57.
- ❖ B. S. Sunil Kumar, A. S. Manjunath, S. Christopher, “Improved Entropy Encoding for High Efficient Video Coding Standard”, DoI: 10.1016/j.aej.2016.09.003, Elsevier B.V. ,Hosted by AEJ, 2016.
- ❖ Paper on “High Efficient Video Coding using Weighted Entropy with Optimized Quantization Matrix”, Elsevier B.V. <https://doi.org/10.1016/j.jksuci.2017.11.004> (*In Press- Scopus Indexed Journal*)
- ❖ Paper on “IF-RD Optimization for Bandwidth Compression in Video HEVC and Congestion control in Wireless networks using Dolphin echolocation optimization with FEC”, International Journal of Signal and Imaging Systems Engineering (Communicated- Scopus Indexed Journal).

- ❖ Paper published on “Improvisation in HEVC Performance by Weighted Entropy Encoding Technique”, in International Conference on Computer Communication & Technology (I3CT 2016), 5 -6 Nov 2016, Springer Publication.
- ❖ Paper published on “Inter-Frame Rate Distortion optimization on Scalable Video for HEVC”, in International Conference on Computational Systems and Information Technology for Sustainable Solution (CSITSS 2016), 6 – 8 October 2016, IEEE Publication. (Scopus Indexed)

- ❖ Paper published on “Enhanced Scalable Video Coding Technique with an Adaptive Dual Tree Complex Wavelet Transform” in International Conference on Computational Modeling and Security (CMS 2016), 11 – 13 Feb 2016, Elsevier Publication (Scopus Indexed)
- ❖ Sandeep G S, Sunil Kumar B S, Deepak D J, “A Survey of Optimization of Rate Distortion Technique for H.264 Scalable Video Coding”, in an International Conference on Soft Computing, Intelligent Systems and Applications(ICSCIS 2016) at RLJIT, Bengaluru, on 8th -9th April 2016 to be published in Springer.
- ❖ Sandeep G S, Sunil Kumar B S, Deepak D J, “An efficient lossless compression using double Huffman minimum variance encoding technique” in Applied and Theoretical Computing and Communication Technology (iCATccT), 2015, 29th -31st Oct 2015, IEEE- Xplore, DoI:10.1109/ICATCCT.2015.7456942
- ❖ Paper published on “An Efficient Scalable Video Streaming in Wireless Network by an Error Resilient Transmission” in International Conference on Emerging Trends and Engineering Research (ICETER 2015), 4th July 2015

Initiatives at Department Level:

- Established 5 – laboratories; Linux Lab, Network Lab, Project Lab, Computer Centre, Hardware & Microprocessor Lab.
- Latest equipment are commissioned in the department
- Formation of Departmental student forums; 'Falcon' in CSE and 'Exonic' in ISE and resolutions are framed
- Initiated a National level Tech event – 'Discover' in CSE and 'Inventio' in ISE
- Various academic experts talk have been arranged to students & faculties; viz- Dr.Sivathanu Pillai, Tech Advisor- President of India, Prof.Natarajan, IISc,

Dr.P.Nagabhushan, Chairman, CSE, Manasagangothri, Dr. Chidananda Gowda, Former VC, Kuvempu University, and Dr.Tamilmani, CABS- DRDO, so on.

- Excellent record of both Academic performance and Placement by students is produced
- Infosys 'Foundation program' under campus connect program and IBM's 'Great Mind Challenge' have been run successfully
- Oracle's 'DB Courses' were conducted successfully
- Newsletter – 'Falcon Time Line' was brought out quarterly in the department
- Co-curricular activities like; Subject workshops and Experts from industries were invited
- Many Industry-Institute Interactions have been organized and benefited students; VM ware, IBM, Microsoft and ALS.
- A project by Texas Instrument on 'Scalable Video Codec- H.264' has been executed successfully in the department for a period of 4-months

Initiatives at Institution Level:

- Roles played: Dean Academic, Dean Student Welfare, and Director – Co operative Society, EMS coordinator and EDUSAT-Coordinator.
- As Dean Student welfare introduced number of events in Mallika – annual cultural fest. A new trend is set in institute by doing analysis of student performance at micro level and also introduced student feedback system online.
- During the period as Dean Academics introduced Student Counseling by the design of booklet to each individual student, student feedback system, and Result analysis systems & action plan.
- Institution – ERP development: under progress.

- Institute Web site development and hosted & maintained in the server owned by the organization.
- IT- infrastructure design, development and maintenance of entire institute and UPS – maintenance.
- Coordinated the College inauguration function where Sri. L K Advaniji was the chief guest.
- A national conference cum tech fest - 'Delta ' with more than 26 events on single program has been designed and successfully conducted for 2-years as chief- coordinator.

Area of Interest:

- Network Management & Security
- Image & Video Processing
- Fuzzy Logic & its applications
- Microprocessors and Embedded Computing

Projects Guided:

NAME OF THE PROJECT	DURATION	DETAILS
Setting up of Digital Home	3 Months	Micro controller based remote control of home appliances.
Optical Character Recognition for Kannada Language	3 Months	Java
Implementation of steganography	3 Months	C & C++
Wireless Security System	3 Months	Java (Linux/Windows platform)
Railways material management & resource planning	3 Months	Java
Monitoring WSN using Android	3 Months	Java & Android
Student Information System Using Android Application	3 Months	Java & Android
Expense Tracker	3 Months	SDK- Android
WAN Accelerator	3 Months	Java
Optimization of Scalable Video Coding for Adhoc Network	3 Months	Java
SVC over Wireless Network	3 Months	C++
Penetration Testing and Forensic Investigation Toolkit	3 Months	Python
Automation of Faculty Activities in Technical Institutes	3 Months	XAMP
Automation of NBA Activities in Technical Institutes	3 Months	XAMP

Deputations / Recognition:

- Worked as Board of examiner to Davangere University during 2011-12
- Worked as Flying Squad Examiner to VTU during 2011-12
- Worked as Board of examiner to Kuvempu University during 2010-11
- Worked as Deputy Chief Superintendent in the VTU exams for 4-times.
- Reviewer for many International Conferences of IEEE & Springer
- Chaired the sessions of IEEE conferences [iCATccT-2015]
- Invited Judge for the National level conference @ BVBCE - Hubli
- Key Note speaker & Chief Guest@ Reva University, Dept. of E &C for the FDP
- Chief Guest for the forum Valedictory @ UBDTCE, MCA Department during - 2012.

Professional Body Affiliations /Recognition:

- Life member of Indian Student Technical Education (ISTE) # LM-40567.
- Member of Computer Society of India (CSI) #
- Member of International Association of Engineering & Technology for Skill Development (IAETSD) # IAESTD14001628.
- Technical Program Committee member and organizing member of number IEEE International Conferences.
- Member of Video Codec Experts Group(VCEG)

Strengths & Weakness:

- **Strengths:**
 - ◆ Technically Sound and Inspiring to the young generation
 - ◆ Strong in Team building and its Management capabilities
 - ◆ Ambitious to take up challenging jobs and innovative idea implementations
 - ◆ Knowledge of Electrical & Electronics Engineering in addition to Computer Science & Engineering and also HR- Management
 - ◆ Wide experience working at various level and on different Technologies

- **Weakness:**
 - ◆ Slow Learner to the new environment
 - ◆ Aggressive to achieve given assignments
 - ◆ Rigid in job accomplishment

Short-Term Plans:

- Involve more in to the Research activities
- Completion of institute ERP
- Interested to work on Academics standards - Accreditations

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