

Personal Information

Name	Dr KVN Sunitha
Years of Experience	DOJ: 1/8/2012 Teaching: 28 years Research: 12 years
Email Id	principal@bvrithyderabad.edu.in
Areas of Specialization	Natural language Processing, Speech Processing, Image Processing, Network & Web Security, and Grid Computing.
Personal web page	www.drkvnsunitha.weebly.com



Educational Qualifications

Doctoral Degree	Ph.D.	CSE, JNTU Hyderabad
PG Degree	M.Tech.	CSE, NIT Warangal
UG Degree	B.Tech.	ECE, Nagarjuna University

Awards

- ✓ Received “**Academic Excellence Award** “by G. Narayanamma Institute of Technology & Science on 18th September 2005.
- ✓ Received “**Best Computer Science Engineering Teacher Award** for the year 2007" by Indian Society for Technical Education (ISTE) in 2nd state annual convention 2007 held at Sreenidhi Institute of Science & Technology on 23rd Feb 2008.
- ✓ Received “**Best Faculty Award** “by Indian Education Expo Academic Brilliance Awards-2013 on 4th March 2013 at New Delhi.
- ✓ Received “**Distinguished Principal Award**” by CSI Mumbai on December 15th January 2017 at IIT Bombay.
- ✓ Received “**Women in Education Award**” by IPE & Deewang Mehtha National Education Awards on 15th April 2017.
- ✓ **Autobiography listed in Marquis Who's Who in the World**, 28th Edition (2011).
- ✓ Felicitated for **outstanding contribution & achievements in the field of Engineering** in Women Engineers meet held on 29th Indian Engineering congress by **Institute of Engineers IEI** held at Visveswaraiah Bhavan, Hyderabad on 18/12/2014.

Honors

- ✓ Served as member of AICTE and inspected various Engineering Colleges all over India as a expert member of NBA.
- ✓ Academic Council member for SIT,JNTUH 2018
- ✓ Academic advisory member & Member, Board of studies, Dept. of Computer Science for many autonomous Engg Colleges.(GPREC,ACE,GRIET,BVRITN,GNITS)
- ✓ GNITS Governing Council member for academic year 2011-2012.
- ✓ Served as panel member for International womens day celebrations held from 7th march 2011 to 12th march 2011 organized by lead India 2020 at GNITS.
- ✓ Served as panel member for VEDIC Conclave held 17th April 2017 .
- ✓ Served as Session chair for International conference ICECIT-2012 on 22nd December at Srinivasa Ramanujan Institute of Technology, Anantapur, India.
- ✓ Served as Session chair for International conference ICACM-2013 on 2nd & 3rd August 2013 at GRIET, Hyderabad.
- ✓ Conducted Scipy Satellite conference conducted by FOSSEE & IIT Bombay on 11th & 12th December 2016.
- ✓ Conducted an International Conference ICMEET 2017 on 9th -10th september2017 proceedings are published by Springer USA at BVRIT Hyderabad.
- ✓ Conducted an International Conference on Entrepreneurship & Technology ICET 2018 conducted in association with American Business School at BVRIT Hyderabad on 3rd-4th March 2018. Gave a keynote address.
- ✓ Conducting an International Conference ICICCT 2019 on 9th -11th January 2019 at BVRIT Hyderabad , proceedings are going to be published by Springer book.
- ✓ Received Best paper Award for paper “ HTSFR: Hierarchical tabu search with fuzzy reasoning for optimal scheduling in cloud computing environment” at IEEE international conference on computational intelligence and computing research, Coimbatore, TN, India on 15th December 2017.

Research Funding

- ✓ Received a research grant Rs 20k from CSI for R&D project in March 2011 for one year on “Telugu TTS”. (File no:1-14/2011-02 dated 29/3/2011)
- ✓ Received a research grant Of 38.5 lakhs from DST TIDE project in March 2013 for three years.

Title: Medicine recognition system & alerting device for geriatrics and visually challenged.

(File No:SEED/TIDE/043/2013(G) dated 12/08/2015)

- ✓ Received a research grant Of 30 lakhs from DST NIMS project in March 2017 for three years.

Title: **Analysis of Career Path of Women Engineers in India.**

(File No: DST/NSTMIS/05/233/2016-17)

- ✓ Invited by DST to take part in discussion on impact of government policies on improvement of status of women in Science held on 24th & 25th February 2017 at Banasthali University, Jaipur.
- ✓ Invited by DST for ' study of impact of gender mainstreaming policy of Government of India'

on 7th July 2017 at IBCB Vizag

Patent Filed

Smart Clothing for Hand Fractured People

Dr. K. V. N. Sunitha, Principal, BVRITH

Dr. J. Naga Vishnu Vardhan, Professor & HOD-ECE, BVRITH

Application no. 201641024774

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Paper Setting

Appointed as Paper setter for APECET(FDH&B.SC(maths)) by JNTU Anathapur for two years i.e 2017 & 2018 for CSE

Professional Memberships

1. FIE: Fellow of Institution of Engineers with Mem. No.- M122116 since Dec' 2001.
2. Sr. Member for International association- IACSIT. Member no:80333839
3. Member of ACM ACTA-Computer teachers association.
4. Life Member of ISTE with Membership. No- LM16801 since 1994.
5. Life Member of CSI with Membership. No- 00106696 since July 2004.
6. CE: Charter Engineer since Nov' 2001.

7. Member of ACM with Membership. No -3312782.
8. Sr. Member of IEEE with Membership no: 41510858
9. Member of IAENG International association of Engineers with Membership. No -104703.

Content Development

- ✓ **Developed web content for ‘Compiler Design’ with Gradiance portal in collaboration with Aho Ullman, Professor, Stanford University (USA).**
- ✓ Guest Faculty for BITS WIPRO collaboration –WASE Programme at WIPRO Hyderabad. Handled PLCC for II Year II Sem 2006-2007 at Wipro, Madhapur, Hyderabad.
- ✓ Developed Web Content for **GATEBOOK online GATE** forum in January 2018

Online Certification

- ✓ Completed an online course on “Automata Theory “ offered by Stanford university on ‘Coursera’ in Nov 2013 with 70.8%

Winter School

Attended a two week TCS - NLP winter school at IIT Hyderabad from 24/12/2007 to 7/1/2008.

Distinguished / Guest lecturers

- Organized a six day training Sponsored by APSCHE, conducted by GNITS in collaboration with JNTUH from 13th to 18th February 2012 on “C&DS” at GNITS from 13/9.2012 to 18/9/2012.
- A session on “**Parsing Techniques**” in a three day workshop on Instruction Methodologies in the foundation of computer science organized by CSE Dept., MJIT, during 28th to 30th January 2009.
- Participated in **Career Counseling** program aired by ATV on 2nd & 18th august 2010.
- Conducted FP program- Infosys Campus Connect program for four batches of students at GNITS.
- A session on “Adaptation of technology” in FDP program conducted by GNITS on March 2011..

- A session on “Algorithms & Flow charts” during the six day workshop on “C & data structures “Sponsored by APSCHE, conducted by GNITS in collaboration with JNTUH from 13th to 18th February 2012.
- A session on “Compiler Design” at Narasimha Reddy Engg College on 26th March 2012.
- A session on “Syntax Directed Translations” at Gokaraju Rangaraju Institute of Engineering and Technology on 26th march 2012.
- A session on “Turing Machines” at Gokaraju Rangaraju College of Engg on 13th April 2012.
- A session on “ Syntax Analyzers ” during the three day workshop on “Automata & Compiler Design “ conducted by Sreenidhi Institute of Science & Technology on 15th April 2012.
- A session on “Introduction to compilers, Parsers and tools” during the TEQUIP Sponsored two day workshop on “A Practical approach to compiler design “conducted by CSE Dept, VNR VJIET on 4th January 2013.
- Participated in **Career Counseling** program aired by ATV on 2nd & 18th august 2010.
- Conducted 11 workshops, two national conferences in GNITS.
- Coached many students for GATE in compiler design.
- **Conducted a one day colloquium on “Arise Awake and Act on Crime against women” Under IEEE- Women in Engg. Hyderabad Section on 7th February 2013.**
- A session on “Compiler & its Tools” at VNRVJIT workshop on “Latest trend in Compilers” on 26/3/2015.
- A session on “Formal Languages and automata Theory ” at Geethanjali College of Engg and Technology on 27/3/2015.
- A session on “Compiler Design ” at Geethanjali College of Engg and Technology on 27/3/2015.
- A session on “Formal Languages and automata Theory ” at Geethanjali College of Engg and Technology on 2/4/2015.
- A session on “Compiler Design ” at Geethanjali College of Engg and Technology on 2/4/2015.

Workshops/Faculty Development Programmes attended

1. QIP programme on “Office Management” conducted by QIP Cell, School of Planning & Architecture, JNTU, Hyderabad from 20th to 30th March 2001.
2. Workshop on “Mobile Computing & Formal Methods”, conducted by University of Hyderabad from 15th to 19th Dec 2001.
3. UGC Sponsored Orientation Programme on “Internet Technologies & Knowledge Society” conducted by UGC-Academic Staff College, JNTU, Hyderabad from 20th to 22nd Dec 2002.
4. Work Shop on “Data Mining using Clemantine Work Bench” conducted by NIT, Warangal from 1st to 3rd June 2005.
5. Academic Evangelist Programme conducted by Microsoft at Taj Krishna on 19th July 2005.
6. A 5 day intensive course on “Phoenix IP Transformations” on 4th -8th Dec 2007 at IIIT, Hyderabad.
7. TCS NLP winter school 2008 at IIIT Hyderabad from 26th Dec2007 to 7th Jan 2008 .Worked on project “Comparison of unsupervised morphological Analysis with semi Supervised analyzer.”
8. Cisco education day at Kukatpally JNTU on 19th March 2008.
9. One day work shop on “Trends in research and Development -an academic perspective” at JNTU Hyderabad on 22nd august 2009.
10. One day work shop on “Patenting and IPR in the Software Realm” conducted by IEEE Computer Society, CII, APTDC on 4th Sep 10.
11. CSI region V coordinators meet on October 1st, 2010.
12. “Women in research –the FOSS Paradigm” – at JNTU in association with Swecha & ASC JNTU on 26th Nov 2010.
13. NCAR 2010 at Hitex Mahindra satyam on 16th -18th Dec 2010.
14. ITRA seminar at IIIT Hyderabad on 13th Dec 2011.
15. Attended a two day workshop on NPTEL NMEICT Awareness workshop on August 31 – sep 1st 2012 at NIT Warangal.
16. Attended NBA orientation workshop at NSIT New Delhi on 28th march 2011 conducted by AICTE.
17. Attended IWN-Indian women network inauguration at Hotel Taz Deccan on 10th may 2013 conducted by CII, Hyderabad.

18. Attended one week faculty development programme on open source software through spoken tutorials by IIT Bombay at BVRIT, Hyderabad on 4th November to 10th November ,2016 .
19. Attended **SciPy india 2016** conducted by FOSSEE & IIT Bombay on 11th & 12th December 2016.
20. Attended TechNext India 2017–academic conference & academic awards on 1^{4th} & 1^{5th} January 2017 conducted by CSI Mumbai.

Books Authored

1. “Programming in UNIX and Compiler Design”, B.S.Publications, May-2008, ISBN: 8178001640, 9788178001647.
2. “Automata theory and formal languages”, by Dr KVN Sunitha and N.Kalyani, TMH India, 2010, ISBN : 978-93-325-3728-6
3. “Theory of Computation” - Tata McGraw Hill in June 2011, ISBN: 9780070702059
4. “Compiler Construction” in May 2013 by Pearson India. ISBN:978-93-325-0029-7
5. “Automata theory and formal languages”, by Dr KVN Sunitha and N.Kalyani, Pearson India, 2015,ISBN : 978-93-325-3728-6
6. A chapter on “Telugu Speech corrector” in the book “Speech Processing and Auditory Processing Disorders: Causes, Diagnosis and Treatment” by NOVA SCIENCE PUBLISHERS, 2012, INC.,400 Oser Avenue, Suite 1600, Hauppauge, NY 11788-3619. ISBN: 614707952, 9781614707950.
7. A chapter on “ Novel Genetic algorithm and particle swarm optimization for data clustering”, In springer book- Information Systems design and intelligent applications, 2016,ISBN :978-81-322-2750-2 .pp 199-208.
8. A chapter on “Systematic Approach to Intrusion Evaluation Using the Rough Set Based Classification” in In springer book- Information Systems design and intelligent

applications, June 2017, DOI: [10.1007/978-981-10-3818-1_24](https://doi.org/10.1007/978-981-10-3818-1_24) ,pp 217-223 (chapter 24 in e-book)

Research Areas: Natural language Processing, Speech Processing, Image Processing, Network & Web Security, and Grid Computing.

Research Experience

1. **Recognized Research supervisor under various universities like JNTUH, JNTUA, Geetham & Rayalaseema and Jawaharlal Nehru Institute of Advanced studies (JNIAS).**
2. Guided **Eight research** students & are awarded with Ph.D
 - ✓ Mr N.Sudhakar Reddy (H.T.No:0803PH0672) on “Efficient Methods for Clustering of Categorical Data” under JNTU Anantapur on 10-10-2012.
 - ✓ Mrs N.Kalyani (H.T.No:0803PH0640) on “Morphology based Language Modelling with application to Automatic Speech Recognition in Telugu” under JNTUH on 21-11-2012.
 - ✓ Mr Venkata Ramana Chary (H.T.No:1260308413) on “Image Retrieval Based on image features and Similarity Measurements” under Githam University. December 2014.
 - ✓ Mrs A.Sharada (H.T.No:1003PH0612) on “Linguistically motivated approach for Telugu Speech Recognition” under JNTUH on April 2015.
 - ✓ Mr K.Ratna Babu (H.T.No: 0703PH0676) on “Image Enhancement Using Evolutionary Algorithms along with morphological transformations” under JNTUH on May 2015.
 - ✓ Mr R.Ravinder Reddy (H.T.No: 1103PH0654) on “Genetic and Class balanced classification Techniques for Intrusion Detection System” under JNTUH on October 2016.
 - ✓ Ms D.V.Lalitha Parameswari (H.T.No: 1103PH0631) on “Performance analysis of P-Tree subspace method on spatial image data” under JNTUH on 4/10/ 2017.
 - ✓ Ms. G Malini Devi (H.T. No. 1103PH06A54) on “Dynamic Particle swarm optimization for data clustering” on 22/11/ 2017
3. Guiding 8 Ph.D students under JNTUH.
4. Guided more than **20 M.Tech** projects and **50 U.G.** projects.
5. Evaluated six Ph.D thesis.

6. **Reviewer for the Journal** -Journal of Applied and Theoretical Computer Science JATIT, International Journal on Futuristic Computer Applications –IJFCA, Advances in applied research, International Journal of Computer Theory and Engineering (IJCTE), Journal of Engineering and Computer Innovation JECI & IJCIIS, Springer IJST, International Journal of Machine Learning and Cybernetics JMLC.
7. Served as Session chair for International conference ICECIT-2012 on 22nd December at Srinivasa Ramanujan Institute of Technology, Anantapur, India.
8. Served **as Session chair** for International conference ICACM-2013 on 2nd & 3rd August 2013 at GRIET, Hyderabad.
9. Conducted & Attended Scipy Satellite conference conducted by FOSSEE & IIT Bombay on 11th & 12th December 2016.
10. Conducted an International Conference ICMEET on 9th -10th september 2017 proceedings are published by Springer USA at BVRIT Hyderabad.
11. Conducting an International Conference ICICCT 2019 on 9th -11th January 2019 proceedings are published by Springer book.
12. **Google Citation Index: 219 h-index : 6 i10-index: 2 Scopus indexed :45**

Papers Published

International Journal Publications: **78**

National Journals: **1**

International Conference Publications: **50**

National Conferences: **15**

Article in Magazine **1**

Visit to Other Institutions for understanding best practices

1. Banasthali Women University, Rajasthan, February 24-25, 2017 at
2. KLE technological University, Hubli, Karnataka, 17th & 18th November 2017
3. Cummins Engg College, Pune, 17th September 2018