

## FACULTY PROFILE

Name of the faculty	Dr. H R RANGANATHA
Designation	PROFESSOR and HEAD
Contact Number	9900319781
Email ID	hodise@sapthagiri.edu.in



## Educational Qualification

Degree	Specialization	University	Year of Passing
<b>PhD</b>	Computer Networking	JAIN University, BENGALURU	2017
<b>M S</b>	Software Systems	Birla Institute Of Technology and Science, PILANI	2001

## Work Experience

Teaching	Research	Industry
31	7	Nil

## Publications

National/International Journals	National/International Conferences	Books Authored/Edited
5	8	Nil

## Area of Interest

Mobile ad hoc network (MANET)	
Computer Networks	
Data Communications	
Digital Electronics	

## Subject Taught

Ad hoc network	Microprocessors	Analog electronics	Computer organization
Computer Networks	Mobile communications	C Programming	Data structure
Data Communications	Wireless and mobile computing	Software Engineering	Microcontrollers
Logic Design	Operating Systems	Software Architecture	Digital communications

## Membership in Professional Bodies/University Bodies/Organization

- ☐ Indian Society for Technical Education (ISTE), LM 77994
- ☐ Computer Society of India (CSI), N 1113691

## Publications

### National/International Journals

- H R Ranganatha, T G Basavaraju “ SHWMP: Scalable Hybrid Wireless Mesh Protocol for Wireless Mesh Networks” International Journal of Computer Science and Telecommunications [Volume 7, Issue 3, March 2016].
- H R Ranganatha, T G Basavaraju “Performance Evaluation of Hybrid Mesh Routing Protocol using Self-configuring Mechanism for Wireless Mesh Networks” International Journal of Engineering Research ISSN:2319-6890) (online),2347-5013(print) Volume No.5 Issue: Special 4, pp: 790-991 20 May 2016.
- H R Ranganatha, T G Basavaraju “Total Additive Expected Time Metric for Scalable Hybrid Wireless Mesh Routing Protocol in Wireless Mesh Networks” International Journal of Computer Science and Electronics Engineering (IJCSEE) Volume 4, Issue 1 (2016) ISSN 2320–4028 (Online).
- H R Ranganatha, Shobha Rani A, T G Basavaraju “Performance Evaluation of Internet Routing Protocols in Wireless Mesh Networks” Indian Journal of Computer Science and Engineering (IJCSE) ISSN: 0976-5166 Vol. 7 No. 3 Jun-Jul 2016.
- H R Ranganatha, Asha C N, T G Basavaraju, “A Review of Scalable Routing Protocols for Wireless Mesh Networks”, International Conference on Networking, Information & Communications-2014 (ICNIC 2014), Elsevier.
- Nagegowda K S, H R Ranganatha, Puttamadappa C, Basavaraju T G, “Performance Evaluation of Scalable Routing Protocols using Routing Metrics for Wireless Mesh Networks under different Network Scenarios”, International Journal of Computer Science and Telecommunications.

## National /International Conferences:

- ❑ Participated in the National seminar on “Technology Road Map of ICT” as part of TECHNOLOGY VISION 2035 on 17 Sept 2016 organized jointly by TIFAC and NCSM in Bangalore.
- ❑ A paper on “A Review of Scalable Routing Protocols for Wireless Mesh Networks” presented in the International Conference on Networking, Information & Communications-2014 (ICNIC2014)
- ❑ Presented paper on wire sensor networks “ in International conference on “Emerging Innovative Technologies For a Sustainable World, ICETSW-2013”
- ❑ A Paper on “Issues in Wireless Mesh Networks: A Survey” presented at AICTE sponsored National conference on communication and computing-NACC -2011
- ❑ A paper on “Cost effective photovoltaic power for Ethiopia” present in the international conference conducted at ADAM in ETHIOPIA” in 2006

## SESSSIONS CHAIRED:

- ❑ One day National Conference on “Innovations in Computing and Communications” on 27<sup>th</sup> April 2017 SIET Tumakuru , Karnataka ,INDIA.
- ❑ National level technical symposium at H M S I T, NH-4, Kesaramadu Post, Kyathsandra, Tumakuru, Karnataka 572104 on 10-10-2014.
- ❑ National Conference on wireless sensors Shridevi Degree college, Maralenahalli Tumkur-572106 on 13<sup>th</sup> Sept 2011.
- ❑ One day state level student symposium Infomania – 2011 on 26 April 2011, SIET, Tumkur Karnataka.

## Faculty Development Programme Participated

- ❑ Attended One Week Faculty Development Programme on “Network Simulators in Research Prospective” from 20<sup>th</sup> July to 24<sup>th</sup> July, 2015. Conducted by the Department of Computer Science & Engineering, Government SKSJ Technological Institute, K R Circle, Bangalore.
- ❑ Attended short term Programme on NBA and Faculty development Programme conducted by Shridevi Institute of Engineering and Technology Tumkur, Karnataka, India, from 23<sup>rd</sup> July to 28<sup>th</sup> July 2015 Bangalore.
- ❑ Attended AICTE/MHRD Sponsored STTP on “Simulation of Wireless Networks (SWN2011)” Organized by the department of CSE NITK Surathkal, Karnataka, INDIA in June 2011.
- ❑ Attended OOP with Java course conducted by Dept of Electronics and Computer Science, UVCE, Bangalore. (2 days).
- ❑ Attended Advanced Microprocessors and PC training conducted by Basavewsara college of Engineering Bagalkot, Karnataka. (1 week).
- ❑ Attended Short-Term Programme Verilog and VHDL programming techniques, a hands on training at RNSIT, Bangalore. (1 week).

## Workshop Attended

- L ☐ Participated in two days free workshop on "Qualnet And Xata Simulator" covering Research Aspects" on 14th and 15th February 2014 organized by Department of CSE, Govt SKSJT, Bangalore .
- ☐ Participated in two days workshop on " LaTeX," on 12 and 13 December 2013 organized by Jain University Bangalore.

## Workshop/Seminars/ Symposium Organized.

- ☐ One Day Workshop on "computer graphics and its applications in Image Processing" on 30<sup>th</sup> April, 2010 conducted by the Department of Information Science and Engineering: Role: Course Coordinator.
- ☐ Two Days Workshop on "Mobile Computing and Security" 4th and 5<sup>th</sup> Feb 2011 conducted by the Department of Information Science and Engineering: Role: Convener.
- ☐ One Day Workshop on "ASP.NET WITH AJAX" 25th Feb 2012 organized by the Department of Information Science and Engineering: Role: Convener.
- ☐ One day National Conference on "Emerging Trends in Information Technology –NCETIT 2013 27<sup>th</sup> April conducted by the Department of Information Science and Engineering: Role: Convener.
- ☐ Two days "International Conference On Emerging Innovative Technologies For a Sustainable World-2013 on 7<sup>th</sup> and 8<sup>th</sup> October 2013 organized by SIET Tumkur in Association with Oklahoma State University : Role: Publications coordinator.
- ☐ One day National Conference on "Innovations in Computing and Communications NCICC 2017 27<sup>th</sup> April conducted by the Department of Information Science and Engineering: Role: Convener.