


## Faculty Profile

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|--|---|---|
| <b>Name of Faculty</b>   | Sneha K                                     |  |
| <b>Department</b>  | Computer Science & Engineering              |   |
| <b>Qualification</b>   | M.Sc., M.Tech., (Ph.D).                     |   |
| <b>Designation</b>   | Associate Professor                         |   |
| <b>Area of specialization</b>                                  | Computer Networks                           |   |
| <b>Date of Joining BNMIT</b>                                   | 29.07.2010                                  |   |
| <b>Nature of Association<br/>(Regular/Contractual/Adjunct)</b> | Regular                                     |   |
| <b>e-mail</b>  | snehak@bnmit.in<br>Sneha.k30@gmail.com      |   |
| <b>No. of years of Experience</b>                              | Teaching: 11.11 years<br>Industry: 1.1 year |   |

### Academic Qualifications:

| Degree  | Institution                        | Month and Year of Passing | %of marks obtained |
|---------|------------------------------------|---------------------------|--------------------|
| Ph.D.   | VTU, Belagavi                      | Thesis Submitted          | --                 |
| M.Tech. | University of Mysore, Mysore       | January 2006              | 4.671/5 CGPA       |
| M.Sc    | Mangalore University               | September 2003            | 69.66              |
| B.Sc    | Nehru Memorial College, Sullia D.K | April 2001                | 70                 |

### Working Experience Details

| Sl.No | Designation         | Institute/Organization/Company  | Duration              |
|-------|---------------------|---------------------------------|-----------------------|
| 1     | Associate Professor | BNM Institute of Technology     | July 2014 – Till date |
| 2     | Senior Lecturer     | BNM Institute of Technology     | July 2010- June 2014  |
| 3     | Senior Lecturer     | SBM Jain College of Engineering | July 2006 – July 2010 |
| 4     | Software Engineer   | Cisco Systems                   | July 2005-July2006    |
| 5     | Project Trainee     | IISc                            | Sept 2002- April 2003 |

### Subject taught

**Topics Taught:** Computer Networks, Analog and Digital Electronics, Data communication, Data Structures, Software Architecture, Computer Concepts and C programming, Software Engineering, System Simulation and Modeling, Distributed Computing, Computer Organization, Unix and shell Programming, Advances in Computer Networks.

### Instruments Handled/Software's handled:

- Network Simulator 2
- Cooja Network Simulator
- Microsoft Visual Studio 2007
- Java Netbeans/ Eclipse
- Xilinx ISE 9.1i model sim
- Xilinx ISE Design suite 12.1
- PspiceOrcade family Release 9.2 Lite Edition

### **Research Experience Details:**

**M.Sc:** Worked on a project CELP: A Code Excited Linear Prediction which is a speech coding technique at Indian Institute of Science(IISc), Bengaluru. Aim was to model the long -term correlation left in the speech residual signal after LPC inverse filtering such that when the model parameters are used in a filter, it will remove the long-term correlation as much as possible, or spectrally flatten the signal.

**M.Tech :** Worked on a project Automation Development and Testing of ITEM product at Cisco Systems, Bengaluru. IPCOM(ITEM) is a network management product which provides a management solution for monitoring, diagnostics and impact analysis of CISCO IP Telephony and VOIP environment as well as the underlying data infrastructure.

**Ph.D:** Developing an efficient routing technique for path computation using dynamic metrics for IPv6 based Low Power and Lossy Networks(LLNs).

### **Academic Positions and other Responsibilities (Institute Level):**

1. Member, IQAC,BNMIT (2018-19)
2. Member,NAAC Internal Auditing Committee, BNMIT (2017-18).

### **Professional Memberships:**

- Life Member, Computer Society of India (CSI Bangalore Chapter).

### **Workshops /Seminars Organized:**

1. **Convenor** for **Five Day Faculty Development Program on “IBM-Bluemix for IoT & Security”** held at BNM Institute of Technology, Bengaluru during 11<sup>th</sup>-16<sup>th</sup>, July, 2016.

### **Research Publications:**

#### **I. In National & International Journals:**

1. Sneha K, B.G. Prasad, “An Efficient Hand-Off Optimization Based RPL Routing Protocol for Optimal Route Selection in Mobility Enabled LLNs “, published in IEEE Digital Xplore, June 26<sup>th</sup> 2017,Page No 131-137.
2. Kavitha Amit Bakshi, B.G.Prasad, Sneha K, “An Efficient Iris code storing and searching technique for Iris Recognition using Non-homogeneous K-d tree”, published in IEEE Digital Xplore, June 27<sup>th</sup> 2016, ISBN 978-1-4673-9563-2.

3. Sneha k, B.G Prasad “Load Balanced Efficient Routing Technique for mobility based RPL”, in *SMARTCOM-2017*, publication due in Volume 876, Chapter 25 of the Communications in Computer and Information Science series.
4. Ragini M.K, Sneha K, Dr. B.G Prasad “A Survey: Energy Conservation Techniques in Wireless Sensor Networks”, in *International Journal on Electronics & Wireless Communication Engineering (IJEWCE)* ISSN: 2454-9924 Volume 9 Issue 8 – May 2017.
5. Ramesha R.M, Sneha K, Dr. B.G Prasad "Communication Methods to build Smart Home Monitoring System: A Survey", in *IDL – International Digital Library for Technology & Research*, Volume I, Issue 4, APRIL-2017.
6. Ramesha R.M, Sneha K, Dr. B.G Prasad, “IoT based Efficient Smart Monitoring Techniques for Disabled & Elderly People”, in *International Journal of Trend in Research and Development* (ISSN:2394-9333), Volume 4, Issue 4, July –August 2017.
7. Sneha K, Dr. B.G. Prasad, “Comparative study of mobility support techniques for IPv6 based RPL” in *International Journal of Scientific & Engineering Research*, Volume 7, Issue 7, July-2016, 483, ISSN 2229-5518.
8. Pallavi C J, Dr. B.G.Prasad, Sneha K, “Comparison study on availability enhancement of data in MANET using replication techniques”, in *International Journal of Advanced Engineering and Global Technology*, Vol-03, Issue-08, August 2015, ISSN No: 2309-4893.
9. Ajaykumar N, Dr. B.G.Prasad, Sneha K, “Simulation of Automatic Emergency Electronic Braking System”, in *IJEDR*, Volume 3, Issue 3 August 2015, ISSN: 2321-9939.
10. Megha V, Sneha K, Dr B.G.Prasad, “An Efficient Technique to Optimize the Energy in Wireless Sensor Networks Using Mobile Relay” in *International Journal of Emerging Technology & Advanced Engineering* (ISSN 2250-2459, ISO 9001:2008 Certified Journal), Volume 4, Issue 7, July, 2014.
11. Sneha K, B.G. Prasad, “A Survey on Routing Requirements of IPv6 based Low Power and Lossy Network Applications”, in *International Journal of Scientific and Engineering Research (IJSER)*, published in IJSER Volume 4, Issue 9 (ISSN 2229-5518).
12. Ragini M.K, Sneha K, Dr. B.G Prasad, “Energy Efficient Error Control Technique Based on Clustering for Wireless Sensor Networks”, in *International Journal of Trend in Research and Development*, Volume 4(3), ISSN: 2394-9333.

#### **Participation in Training courses/Seminars/Workshops:**

1. Five-day Faculty Development Programme on “ Biomedical Signal Processing “ at BNMIT between 11<sup>th</sup>- 15<sup>th</sup> June 2018
2. Six-day Faculty Development Programme on “ Innovative Teaching Methods”, at BNMIT between 18<sup>th</sup>- 23<sup>rd</sup> July 2016.
3. Six-days Faculty Development Programme on “IBM-Bluemix for IoT and Security”, at BNMIT between 11<sup>th</sup>-16<sup>th</sup> July 2016.
4. Workshop on “Preparation for Accreditation by NBA” from 3<sup>rd</sup> to 5<sup>th</sup> December, 2015.
5. Five days Hands on Workshop on “Network Simulation using NS-3 “conducted by NMIT, Bangalore from 1<sup>st</sup>- 5<sup>th</sup> June 2015.
6. Three day workshop on “Distributed Computing Hands-on Laboratory Experiments “, 29<sup>th</sup> -31<sup>st</sup> January 2015.
7. One week FDP programme “Storage Area Network: Configuration and management simplified” at BNMIT between 19<sup>th</sup>- 23<sup>rd</sup> January 2015.
8. International Conference ICSIP 2014 held at BNMIT during 8<sup>th</sup>-10<sup>th</sup> January 2014.
9. Three day workshop on “Collaborative WSN and IoT Technologies”, held at RV College of Engineering during December 2013.

10. Three-day workshop on “Research Methodologies & Latex” organised by VTU e-learning Centre mysore from 27<sup>th</sup> to 29<sup>th</sup> July 2013 at Ghousia College of Engineering, Ramanagara.
11. Faculty Development Programme on Innovative Teaching & Effective Communication organized by BNMIT held during July 18<sup>th</sup> to 20<sup>th</sup> ,2012.
12. One day workshop on Ubiquitous Computing, UbiComp INDIA 2011 on 26<sup>th</sup> February 2011 organized by C-DAC, Bangalore.
13. Web Development Using Open Source & IBM Tools during 25<sup>th</sup>- 26<sup>th</sup> August 2008 held at Yellamma Dasappa Institute of Technology organized by IBM.
14. COGNITION-2K5 a National Level Technical Symposium held on 12<sup>th</sup>-13<sup>th</sup> of March 2005.

**Personal Details:**

- Date of Birth: 30/03/1981.
- Family Details: Husband : Yashavantha N N  
Son: Pavan Kumar N Y  
Daughter: Poorvi N Y  
Mother: Bhavani M
  
- Passport Number: MO419733 (valid till 31<sup>st</sup>July 2024)

**15<sup>th</sup> August 2018**

**Sneha K**