

## FACULTY PROFILE

**Name** : **Dr. Mamata J. Sataraddi**



**Designation** : **Assistant Professor**  
**Department** : **Electronics and Communication Engineering**  
**Employee ID** : **1-462211305**  
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**Orcid ID** : **0000-0003-2695-5828**

**Scopus ID** : **55557714300**

**Vidwan Id** : **125036**

**Researcher ID (Web of Science)** : **AAG-8411-2021**

**Google Scholar ID** : **AfeeK-gAAAAJ**

**Qualification** : **Ph.D**

**Professional Experience** : **24 years**

**Teaching experience**

**Administrative Responsibilities** :

1. NBA coordinator for department of Electronics and Communication Engineering from 2009 to till date
2. BoS member for department of Electronics and Communication Engineering from 2018 to till date
3. Social media coordinator, Basaveshwar Engineering College, Bagalkot
4. Member of Institution Innovation Council (IIC) cell of Basaveshwar Engineering College, Bagalkot
5. Admin for AICTE 360 Degree Feedback System, Basaveshwar Engineering College, Bagalkot
6. Coordinator and student advisor for Electronics & Communication students association (ACME), Basaveshwar Engineering College, Bagalkot for the academic year 2007-08

**Teaching** : **UG**

**No. of Projects**

**Guided** : **12**

**UG** : **4**

**PG**

**Research Interest Area : Wireless networks, Internet of Things**

**Publications Books/Chapters**

1. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, Sunilkumar S. Manvi, “Artificial Intelligence Techniques based Routing Protocols in VANETs: A Review”, Chapter 11, *Contributed chapter in book title “Industry 4.0: Research Trends, Challenges, and the Future of AI in Data Science”*, Edited by Dr. Kakoli Banerjee, JSS Academy of Technical Education, Noida, India, CRC press, Taylor and Francis group, 2021, Url:https://www.taylorfrancis.com/chapters/edit/10.1201/9781003097181-11

**Journals citations)**

(with :

1. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, “Hybrid Routing Protocol for VANETs: Delay and Trust based Approach”, *Journal of High Speed Networks, IOS press*, Vol.26, Issue - 4, pp.275-290, December 2020, Doi: 10.3233/JHS-200644
2. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, “Intelligent Routing Scheme for Vehicle-to-Vehicle communication”, *International Journal of Computer Sciences and Engineering (IJCSE)*, Vol.8, Issue – 12, pp. 88-93, December 2020, Doi: 10.26438/ijcse/v8i12.8893, E-ISSN: 2347-2693
3. **Mamata J. Sataraddi**, V.R. Budyal, A.B. Pagi, “Fuzzy Based Energy Aware Flat Routing (FEAFR) in Wireless Sensor Networks” *International Journal of Emerging Technology and Advanced Engineering (IJETAE)*, Volume 4, Issue 7, pp 108-115, July 2014. **Citations: 5**
4. **Mamata J. Sataraddi**, Vijayashree R Budyal, “Bandwidth and Delay Guaranteed Unicast Routing in MANET using Fuzzy Logic”, *International Journal of Advances in Computer Networks and Its Security*, Volume 4, Issue 2, pp 51-55, June 2014. **Citation: 1**
5. **Mamata J. Sataraddi**, V.R. Budyal, S. B. Sunagar, R. S. Kattimani, “Distance Based Node Election for Energy Efficient Routing in Wireless Sensor Networks”, *International Journal of Advanced Computer Engineering and Communication Technology (IJACECT)*, Volume-3, Issue-3, pp 7-12, 2014.

**Conferences**

:

1. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, “Machine Learning based Vehicle-to-Infrastructure Communication in VANETs”, 2021 IEEE 18<sup>th</sup> India Council International Conference (INDICON), 2021, pp. 1-6, December 19-21, 2021 doi: 10.1109/INDICON52576.2021.9691730.
2. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, “Trust and Delay based Routing for VANETs”, *IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, BITS Pilani, Goa, pp. 1-6, December 16-19, 2019. **Citations: 4**
3. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, “Connectivity and Delay Aware Reliable Routing in Vehicular Ad hoc Networks”, *IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, BITS Pilani, Goa, pp. 1-5, December 16-19, 2019. **Citation: 3**
4. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, Rahul Jahagirdar, Poornima M. Chanal “Performance Analysis of Ant Colony based Routing Approach for VANETs using Vanet MobiSim and NS2”, *IEEE International Conference on Advanced Computing, (ICoAC)*, Chennai, India, pp. 129-133, December 18-20, 2019. **Citation: 4**
5. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, “BDI Agent based Dynamic Routing Scheme for Vehicle-to-Vehicle Communication in VANETs”, Proceedings of the IEEE *International Conference on Smart Technology for Smart Nation (SmartTechCon2017)*, REVA University, Bangalore, Karnataka, India, pp.665-670, 17-19 August, 2017. **Citations:**

6. Mahabaleshwar S. Kakkasageri, **Mamata J. Sataraddi**, Poornima Chanal, Gururaj S. Kori, "BDI Agent based Routing Scheme in VANETs", Proceedings of the *IEEE International Conference on Wireless Communications Signal Processing and Networking (WiSPNET 2017)*, SSN College of Engineering, Chennai, India, pp. 129-133, 22-24 March 2017. **Citations: 8**
7. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, Gururaj S. Kori, Rajeshwari V. Patil, "Intelligent Routing for Hybrid Communication in VANETs", Proceedings of the *7<sup>th</sup> IEEE International Advance Computing Conference (IACC-2017)*, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, Telangana, India, pp.385-390, 5-7 January 2017. **Citations: 12**
8. **Mamata J. Sataraddi**, Mahabaleshwar S. Kakkasageri, "Energy Efficient Path Identification in Wireless Sensor Networks", Proceedings of the *4<sup>th</sup> IEEE International Conference on Communication and Signal Processing (ICCSP-15)*, ISBN: 978-1-4799-8080-2, Adhiparasakthi Engg. College, Melmaruvathur (TN), India, pp.1317-1321, 2-4 April 2015.
9. **Mamata J. Sataraddi**, Vijayashree R Budyal, Praveen Hosur, "Neural Network Clustering Based Energy-Aware Multi-Hop Routing in Wireless Sensor Networks" Proceedings of the *International Conference in Computer Science, Electronics and Communication Engineering (ICCECE-14)*, ISBN: 978-3-643-24819-10, Bangalore, pp. 1-7, 27th July 2014.
10. **Mamata J. Sataraddi**, Rashmi K. "Real Time Control of Electric Wheel Chair using Eyeball Movement", *Proceedings of the IEEE-HKBKCE One day National conference on Electrical and Electronics(NCEEE-14)*", HKBKCE, Bengaluru, 5<sup>th</sup> June, 2014.
11. **Mamata J. Sataraddi**, J. D. Mallapur, S. C. Hiremath, K. Nagarathna, "Priority Based Scheduler for Bluetooth Network", Proceedings of the *International Conference on Advances in Computing, Communication and Control (ICAC3)*, Springer, Berlin, Heidelberg, Fr. Conceicao Rodrigues COE, Mumbai(M.S), India, pp. 356-365, 18-19 January 2013. **Citations: 2**
12. **Mamata J. Sataraddi**, J. D. Mallapur and Smt. Renuka T. Ambiger, "A Mobile Synchronization Algorithm for Multimedia Applications in Wireless Networks", *Proceedings of the National Conference on Communication Networking*, VAST, Thrissur, pp 55-61, 27<sup>th</sup> March 2009.
13. **Mamata J. Sataraddi**, S. S. Manvi "QoS based Routing in MANETs: ANN based Approach", Proceedings of the *International Conference on Advance Computing (ICAC)*, COE Chikhali (M.S), India, pp. 526-529, 21-22 February 2008.

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|-------------------------|---|---|
| <b>Invited Talks</b>    | : | <ol style="list-style-type: none"> <li>1. Resource person for faculty training programme at Basaveshwar Engineering College, Bagalkot</li> <li>2. Resource person for student training programme (HRD) at Basaveshwar Engineering College, Bagalkot</li> </ol>  |
| <b>Events Organized</b> | : | <ol style="list-style-type: none"> <li>1. Coordinator for online session on "Identifying Intellectual Property Component at the Early Stage of Innovation", under IIC- 4.0 at BEC, Bagalkot on 11<sup>th</sup> January 2022</li> <li>2. Coordinator for technical seminar on "Applications of Intelligent Transport System (ITS)" under ACME at BEC, Bagalkot on 2<sup>nd</sup> December 2021</li> <li>3. Coordinator for SDP on "Understanding LabVIEW and its Applications" at BEC, Bagalkot from October 7-9, 2021</li> <li>4. Coordinator for online session on "COVID-19 Disease in Children -What Parents Need to Know?" at BEC, Bagalkot on 24th May 2021</li> <li>5. Coordinator for online session on "Angel Investment/VC Funding Opportunity for Early-Stage Entrepreneurs" under IIC 3.0 at BEC,</li> </ol> |

- Bagalkot on 8<sup>th</sup> May 2021
6. Coordinator for online session on “How to Plan for Start-up and Legal and Ethical Steps” under IIC 3.0 at BEC, Bagalkot on 25<sup>th</sup> March 2021
  7. Coordinator for TEQIP-III Sponsored EAP on “Women Empowerment” at BEC, Bagalkot on 12<sup>th</sup> December 2020
  8. Coordinator for TEQIP-III sponsored Online Faculty Development Programme on “Recent Advances in Automation and Networking” organized by Department of Electronics and Communication Engineering, Basaveshwar Engineering College, Bagalkot from June 18-20, 2020
  9. Coordinator for TEQIP-III Sponsored EAP on “Attitudinal Change and Team Building” and “Interview Techniques and Mock Interview” at BEC, Bagalkot on 5<sup>th</sup> April 2019
  10. Coordinator for FDP conducted under TEQIP on “Soft and Evolutionary Computing Techniques and its Applications” at BEC, Bagalkot from 30<sup>th</sup> May – 1<sup>st</sup> June 2013

**Conferences/  
Symposiums/  
Workshops/ Training  
Programs Attended** :

1. AICTE approved online FDP course on “Design for Internet of Things (SWAYAM)” conducted by Prof. T. V. Prabhakar, IISc Bangalore, 26 July 2021 – 17 September 2021 (NPTEL Certification course)
2. AICTE approved online FDP course on “Fundamentals of Artificial Intelligence” conducted by Prof. Shyamanta Hazarika, IIT Guwahati, 26 July 2021 - 15 October 2021 (AICTE- NPTEL Certification course)
3. AICTE-AQIS Sponsored online STTP on “Enabling wireless Technology: Software Defined Radio Applications on SISO Packet based Communication”, organized by KLE Technological University, Hubli, November 23-28, 2020
4. AICTE Training and Learning (ATAL) FDP on “Cyber Security” organized by National Institute of Technology, Nagaland, October 19-23, 2020
5. AICTE approved online FDP course on “Introduction to Internet of Things (SWAYAM)” conducted by Sudip Misra, IIT Kharagpur, 14 September 2020 - 04 December 2020 (NPTEL Certification course)
6. Online FDP on “Research Aspects in Modern Analytics and Cyber Security” Conducted by Jaypee Institute of Information Technology, Noida, July 20-24, 2020
7. Online FDP on “Six Sigma”, BEC Bagalkot, 6 - 10 July 2020
8. E – Workshop on “Awareness and Prevention of Sexual Harassment at Workplaces”, organized by BEC, Bagalkot, June 27, 2020
9. AICTE Training and Learning (ATAL) FDP on, “Block Chain”, organized by National Institute of Technology, Nagaland, June 22- 26, 2020
10. Online Webinar series on “Recent Trends in Electronics and Communication Engineering” BEC, Bagalkot, June 11-12, 2020
11. Virtual FDP on “Neural Networks and Deep Learning using Python”, organized by REVA University, Bangalore, June 1-5, 2020
12. Online International FDP on “Innovative Trends in Engineering and Technology, organized by SLRT College of Engineering Thane, Mumbai, May 25-29, 2020
13. Online FDP on “Research, Funding Projects and IPR”, organized by K. C. College of Engineering and Management Studies and Research, Thane, Mumbai, May 7-10, 2020
14. FDP on “Digital Transformation in Teaching Learning Process” (SWAYAM) conducted by IIT Mumbai, April 6-22, 2020 (NPTEL Certification course)
15. AICTE approved FDP course on “Computer Networks and Internet Protocol (SWAYAM)” conducted by Prof. Soumya Kanti Ghosh and Prof. Sandip Chakraborty, IIT Kharagpur, 27 January 2020 - 17 April 2020 (NPTEL Certification course)

16. Workshop on "AICTE Examination Reform Policy", BEC, Bagalkot, February 14-15, 2020
17. Workshop on "NPTEL policies", BEC, Bagalkot, November 29, 2019
18. Workshop on "Soft Tools for Researchers to Enhance Research Productivity", BEC, Bagalkot, October 11-12, 2019
19. Workshop on "Sensor Networks", BEC, Bagalkot, January 8-9, 2018
20. FDP on "Recent Advances in Signal Processing and Communication Networks", BEC, Bagalkot, March 17-19, 2017
21. International symposium on "Green Technologies for Sustainable Development", BEC, Bagalkot, January 24-25, 2017
22. Continuing Education Programme (CEP) on "Analysis of Research Problems through Design of Experiments", IIT, Mumbai at BEC, Bagalkot, January 20-22, 2017
23. FDP on "Recent Trends in Micro Pressure Sensors & RF MEMS", BEC, Bagalkot October 20-22, 2016
24. MDP on "Enhancing Managerial Effectiveness", IIM, Kozhikode, September 28-28, 2016
25. One day workshop on "Research Methodology" organized by BEC, Bagalkot on December 19, 2015
26. One day workshop on "Outcome Based Education" organized by BEC, Bagalkot on December 18, 2015
27. One day workshop on "Curriculum Development and Reforming", organized by BEC, Bagalkot on July 25, 2015
28. FDP on "Teaching and Learning", organized by IIT, Madras, October 12-14, 2015
29. Workshop on "Intel Intelligence system: Hands on Simulation", BEC, Bagalkot, February 26-28, 2014
30. FDP on "Design, Modeling and Simulation of MEMS devices", BEC, Bagalkot, July 10-12, 2013
31. FDP on "Technical Documentation using Latex", BEC, Bagalkot, May 27-29, 2013
32. FDP on "Recent Advances in Wireless Networks", BEC, Bagalkot, May 16-18, 2013
33. Learning certification program on "Effective Teaching and Learning methods" BEC, Bagalkot, July 21, 2012
34. Workshop on "Teaching and Learning", BEC, Bagalkot, September 17, 2009
35. Workshop on "Learning Approach Practitioners", BEC, Bagalkot, May 14-15, 2009
36. FDP on "Wireless Sensor Networks", BEC, Bagalkot, February 24-28, 2009
37. Workshop on "Mission 10x", BEC, Bagalkot, February 2-6, 2009
38. FDP on "Computer Network Simulation", BEC, Bagalkot, February 21-23, 2008
39. National level seminar on "Modern Sensors and Their Applications", BEC, Bagalkot, November 17-18, 2006
40. FDP on "Signal Processing and its Applications", BEC, Bagalkot, October 09-11, 2006
41. FDP on "Digital Signal Processor and its Applications", BEC, Bagalkot, September 25-30, 2006
42. Short term course on "Internet Protocols", BEC, Bagalkot, August 21-26, 2006
43. STTP on "VISION-R&D", BEC, Bagalkot, March 20-25, 2006
44. National workshop on "Intellectual Property Rights Studies", BEC, Bagalkot, February 17-18, 2006
45. Short term course on "Instruction Design and delivery", BEC, Bagalkot,

August 8-13, 2005

46. National level seminar on “Recent Trends in Computer Comm. and Networking”, BEC, Bagalkot, March 5-16, 2005
47. STTP on “Semi Conductor Physics and VLSI Design”, BEC, Bagalkot, February 07-19, 2005