


FACULTY PROFILE

Name	:	Dr. Manjula A. Sutagundar	
Designation	:	Assistant Professor	
Department	:	Electronics and Computer Engineering	
Employee ID	:	TEI004	
E mail ID (College official ID), (Personal mail ID)	:	masei@becbgk.edu , sutagundarm@gmail.com	
Contact details	:	Department of E&IE, Basaveshwar Engineering College, Bagalkot 587 102	
Orcid ID	:	0000-0003-0991-2367	
Scopus ID	:	57194445688	
Vidwan Id	:	125022	
Researcher ID (Web of Science)	:	AAH-7147-2021	
Google Scholar ID	:	zTjUDzAAAAAJ	
Qualification	:	B.E., M.Tech, Ph.D	
Professional Experience			
Teaching experience	:	22	
Industry experience	:	--	
Administrative Responsibilities	:	<ol style="list-style-type: none"> 1. Co-ordinator of BEC-Bosch Rexroth Center for Industrial Automation 2. Co-ordinator Member and part of team responsible for establishing "BEC- e-Yantra Embedded Systems and Robotics lab" 3. BOE Co-ordinator of Electronics and Instrumentation Engg. For the academic year 2017-18 and 2018-19 4. Part of team instrumental in fetching grants worth 110 lakh from AICTE for establishing "IDEA laboratory" 5. Gymkhana Cultural Secretary for the year 2023-24 	
Teaching	:	UG	
No. of Projects Guided			
UG	:	20	
PG	:	--	

Research Interest Area	:	<ol style="list-style-type: none"> 1. Automation 2. Robotics 3. MEMS 4. Soft computing 5. Optimization
No. of Research Scholars Pursuing Awarded	:	--
Patents	:	Design patent on "AI and IoT Based Agriculture Crop Cutting Device" (Design No.: 390551-001)
Research Grants	:	Part of team instrumental in fetching grants worth 110 lakh from AICTE for establishing "IDEA laboratory"
Publications Books/Chapters	:	--
Journals (with citations)	:	<ol style="list-style-type: none"> 1. Manjula Sutagundar, B.G. Sheeparamatti, D.S. Jangamshetti, " Multi-objective Design Optimization of Microdisk Resonator", Journal of Nanoscience and Nanotechnology Asia, Volume 10, No. 4, pp. 478-485 (Citation 01) 2. Manjula Sutagundar, B.G. Sheeparamatti, D.S. Jangamshetti "ANN Modeling of Motional Resistance for Micro Disk Resonator", International Journal of Applied Evolutionary Computation, Volume 8, Issue 4 , October-December 2017 3. Manjula Sutagundar, B.G. Sheeparamatti, D.S. Jangamshetti, "Research Issues in MEMS Resonators", Research Inveny: International Journal of Engineering and Science 2014, Volume 4, Issue 8, August 2014
Conferences	:	<ol style="list-style-type: none"> 1. Vinay Shettar, Manjula Sutagundar , "Challenges and Future Prospects of Thin Film Deposition", International Conference on Sustainable Solutions in Engineering and Technology, August 2024 2. Manjula Sutagundar, B.G. Sheeparamatti, D.S. Jangamshetti, " "Design Optimization of Micro Disk Resonator Using Interior Point Algorithm," EDKCON-2018, 24-25 Nov. 2018, Kolkata, India 3. Manjula Sutagundar, B.G. Sheeparamatti, D.S. Jangamshetti, " ANN Modeling of Anchor Dependent Quality Factor in Micro Disk Resonator", ISSS National Conference on MEMS, Smart Materials, Structures and Systems, September 28-30 2016, Kanpur, India. 4. Manjula Sutagundar, Nirosha H., B.G.Sheeparamatti, "Artificial Neural Network Modelling of MEMS Cantilever Resonator Using Levenberg Marquardt Algorithm", IEEE International Conference on Applied and Theoretical Computing and Communication Technology, SJBIT, Bengaluru, July 2016. (Citations 6) 5. Manjula Sutagundar, B.G. Sheeparamatti, D.S. Jangamshetti,"Genetic Algorithm Optimization of Microcantilever Based Resonator", Seventh ISSS International Conference on Smart Structures and Systems, July 2014. 6. Manjula Sutagundar, B.G. Sheeparamatti, "A Critical Comparision of Surface and Bulk Micromachined

		<p><i>Cantilever using Coventorware</i>", International Workshop on Nanomechanical Sensing, IIT Bombay, June 2012</p> <p>6. Manjula Sutagundar, A.V. Sutagundar, "<i>CMOS Implementation of veterbi Decoder</i>", International Conference on System Science and Simulation in Engineering, Venice, Italy, Nov 2007.</p> <p>7. A.V.Sutagundar, Vijayashree.B, Manjula.A.Sutagundar, "<i>Intra and Inter Prediction In H.264/PEG-4 part 10 AVC decoder</i>", National conference on emerging trends in Electronics and communication, 14-15th sept, 2006.</p> <p>8. A.V.Suatgundar, Sridhar. K, Manjula.A.Sutagundar, "<i>A wavelet Based Image compression</i>" National conference. High performance computing, April 2005, Tirunalveli, Tamilnadu, India.</p>
Invited Talks	:	<ol style="list-style-type: none"> 1. Invited talk on "Industrial Automatio " at Dept. of E&EE, BVVS Poytechnic, Bagalkote 2. Invited talk on "Industry 4.0 – Future World Technology" organized by BEC-IEEE students branch 3. Resource person for Faculty Development Program on "Industrial Automation and Virtual Instrumentation" at Goa Engg. College in Nov. 2016 4. Resource person for Student training on "Programmable Logic Controllers" at PDA Diploma College, Gulbarga 5. Resource person for Faculty development Program on "Effective Teaching Practices" held at BEC Bagalkot in Jan 2010
Events Organized	:	<ol style="list-style-type: none"> 1. Co-ordinator for cultural evening at IEEE NKCon - 2024 2. Co-ordinator for cultural evening at SSET-2024 3. Co-ordinator of faculty development program on "Advanced Microcontroller" sponsored by TEQIP-I in Feb 2007 4. Co-ordinator of Student development program on "Industrial Automation Using PLC and SCADA" sponsored by TEQIP 5. Co-ordinator of workshop on Graphical Solution Using NI LabVIEW" sponsored by TEQIP 6. Co-ordinator of Guest lecture on "Discrete Automation Concepts in an Automotive Industry – India Perspective" in Sept. 2019 7. Organized a webinar on "Industry 4.0 and It's Role in Manufacturing" in July 2020 8. Organized a one week workshop on "Python Programming" in August 2020
Conferences/ Symposiums/ Workshops/ Training Programs Attended	:	<ol style="list-style-type: none"> 1. One-week AICTE Training and Learning Academy FDP on "Research Avenues and Challenges in Industry 4.0" organized by Dept. of E&IE, R.M.D. Engineering College, Kavaraipettai, Tamilnadu, from 14-06-2021 to 18-06-2021 2. Two days "e-Yantra Robotics" workshop at Matrusri Engineering College, Hyderabad from 28-02-2020 to 29-02-2020 3. One-week FDP on "Machine Learning, Deep Learning and computational intelligence for wireless

	<p>communication” organized by Dept. of ECE, NIT, Trichy from 16-09-2019 to 20-09-2019</p> <ol style="list-style-type: none"> 4. Two days conference “IEEE Electron Device Kolkata Conference (2018 IEEE EDKCON)” at Kolkata, from 24-11-2018 to 25-11-2018 and presented a paper 5. IEEE International Conference on Applied and Theoretical Computing and Communication Technology, SJBIT, Bengaluru, July 2016 and presented a paper 6. One-week “Management Capacity Enhancement Program”, organized by IIM Trichy (Chennai Campus) from 12-10-2015 to 16-10-2015 7. Three days workshop on “Micro and Nano Technology, at CeNSE, IISc, Bengaluru from 25-09-2014 to 27-09-2014 8. Seventh ISSS International Conference on Smart Structures and Systems, July 2014 and presented a poster 9. Two weeks FDP on “Capacity Building Towards Quality teaching and Learning”, at IISc, Bengaluru, in the month of Dec 2013 and Jan 2014 10. Three days workshop on “Research methodologies and Latex” at Ghousia College of Engineering, Ramanagar from 27-07-2013 to 29-07-2013 11. Three days workshop on “Design Modelling and Simulation of MEMS devices” at Basaveshwar Engineering College, Bagalkot from 10-07-2013 to 12-07-2013 12. One day workshop on “Matlab and Simulink in Engineering Education” organized by Mathworks at Hubli on 20-06-2013 13. Three days workshop on “Soft and Evolutionary Computing techniques and its Applications” at Basaveshwar Engineering College, Bagalkot from 30-05-2013 to 01-06-2013 14. Three days workshop on “Technical Documentation Using Latex” at Basaveshwar Engineering College, Bagalkot from 27-05-2013 to 29-05-2013 15. Three days FDP on “Implementation of Signal Processing Algorithms using FPGAs” at Basaveshwar Engineering College, Bagalkot from 23-05-2013 to 25-05-2013 16. Three days FDP on “Micro and Nano Technology” at MSRIT, Bengaluru from 25-04-13 to 27-04-13 17. Three days workshop on “Nanomechanical Sensing” at IIT, Bombay, from 06-06-2012 to 08-06-2012 18. One week FDP on “Intelligent Instrumentation and Robotics” at Basaveshwar Engineering College, Bagalkot from 26-03-2012 to 30-03-2012 19. One week training program on “Bosch Rexroth Electric Drives and Control” at Basaveshwar Engineering College, Bagalkot from 14-06-2010 to 18-06-2010 20. One month “Bosch Rexroth Train the Trainers” Program at VTU Bosch Rexroth Center of Excellenec, Mysore in April 2010
--	---

		<ol style="list-style-type: none"> 21. One week FDP on “Soft Computing Approach to Image Processing and Pattern Recognition” at Basaveshwar Engineering College, Bagalkot from 20-03-2010 to 24-03-2010 22. One week FDP on “Soeech and Image Processing” at Basaveshwar Engineering College, Bagalkot, from 23-07-2007 to 28-03-200 23. Three days FDP on “SCADA and PLCs for Industrial Automation” at Basaveshwar Engineering College, Bagalkot from 21-12-2006 to 23-12-2006 24. Three days FDP on “Signal Processing and Its Application” at Basaveshwar Engineering College, Bagalkot from 09-10-2006 to 11-10-2006 25. One week FDP on “Digital Signal Processor and Applications” at Basaveshwar Engineering College, Bagalkot from 25-09-2006 to 30-09-2006 26. One week workshop on “Structured Software Testing and Test Automation” at QSIT-PCS, Bengaluru in August 2006 27. One Week PDF on “Applied Mathematics” at Basaveshwar Engineering College, Bagalkot from 03-04-2006 to 08-04-2006 28. Three days induction program on “Instructional Design and Delivery” at Basaveshwar Engineering College, Bagalkot in August 2009 29. Two days workshop on “Recent Trends in Computer Communication and Networking” at Basaveshwar Engineering College, Bagalkot 15-03-2005 to 16-03-2005 30. Three days workshop on “Microcontroller Lab” at Siddaganga Institute of Technology, Tumkur, from 21-02-2005 to 23-02-2005 31. Two weeks FDP on “Semiconductor Physics and VLSI Design” at Basaveshwar Engineering College, Bagalkot from 07-02-2005 to 19-02-2005 32. Two days workshop on “Intelligent Instrumentation For Biological Sciences” at BVB college ogf Engineering, Hubli from 26-11-2004 to 27-11-2004 33. Three days workshop on “VLSI Design labs” at BIT, Bengaluru from 07-08-2004 to 09-08-2004 34. One week FDP on “Embedded Systems and Applications” at Basaveshwar Engineering College, Bagalkot from 22-03-2004to 27-03-2004 35. Two weeks induction program on “Induction Program for Young Teachers” at Basaveshwar Engineering College, Bagalkot 19-01-2004 to 31-01-2004 36. Two days workshop on “Biosensors” at BVB college ogf Engineering, Hubli from 14-11-2003 to 15-11-2003 37.
Awards and Honors	:	<ol style="list-style-type: none"> 1. Part of team that stood first at National level in Task Based Training Challenge organized by e-Yantra IIT, Bombay and won cash prize with A grade certificate 2. Worked as a Reviewer of Papers for ICCICT-2021 organized by Sardar Patel Institute of Technology, Mumbai 3. Worked as a Reviewer of Papers for SSET-2024 organized by BEC, Bagalkote 4. Chairperson for IEEE NKCon Conference 2024, BEC, Bagalkote