

FACULTY PROFILE

Name	:	Dr. Manjula A. Sutagundar	
Designation	:	Assistant Professor	
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Researcher ID (Web of Science)	:	AAH-7147-2021	
Google Scholar ID	:	zTjUDzAAAAAJ	
Qualification	:	B.E, M.Tech, Ph.D	
Professional Experience Teaching experience	:	21	
Administrative Responsibilities	:	<ol style="list-style-type: none"> 1. Gymkhana Cultural Secretary for the Year 2023-24 2. Member of BEC-Bosch Rexroth Center of Competence in Industrial Automation 3. Member of BEC e-Yantra Laboratory 	
No. of Projects Guided			
UG	:	20	
PG	:		
Research Interest Area	:	Micro Electro Mechanical System, Automation, Robotics	
No. of Research Scholars			
Pursuing	:	02	
Completed	:		
Research Grants			

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, Issue 4, pp. 478-485, 2020 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. 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 2. 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. 3. Manjula Sutagundar, Nirosha H., B.G.Sheeparamatti, "Artificial Neural Network Modelling of MEMS Cantilever Resonator Using Levenberg Marquardt Algorithm", IEEE International Conference onApplied and Theoretical Computing and Communication Technology, SJBIT, Bengaluru, July 2016. (Citations 6) 4. 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. 5. Manjula Sutagundar, B.G. Sheeparamatti, "<i>A Critical Comparision of Surface and Bulk Micromachined Cantilever using Coventorware</i>", International Workshop on Nanomechanical Sensing,IIT Bombay,June 2012 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. 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. 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.
Invited Talks	:	<ol style="list-style-type: none"> 1. Resource person for Skilling Workshop on “ Embedded System and Robotics”, Organized under BEC-IDEA lab in association with BEC e-Yantra Lab, Basaveshwar Engineering College, Bagalkot, Aug 2023. 2. Resource person for one day workshop on “Pathway for C-21 Curriculum of 5th and 6th Semester”, organized by dept. of Electrical and Electronics Engg., BVVS Polytechnic, Bagalkot , July 2023 3. Delivered a talk on “Industry 4.0 – Future World Technologies” In Tech-Talk series organized by BEC-IEEE on the eve of Diamond Jublie Celebration of Basaveshwar Engineering College., June 2023 4. Resource person for Skilling Workshop on “ Embedded System and Robotics”, Organized under BEC-IDEA lab in association with BEC e-Yantra Lab, Basaveshwar Engineering College, Bagalkot, Sept. 2022. 5. Resource person for Faculty Development Program on “Industrial Automation and Virtual Instrumentation” at Goa Engg. College in Nov. 2016 6. Resource person for Student training on “Programmable Logic Controllers” at PDA Diploma College, Gulbarga 7. 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 of faculty development program on "Advanced Microcontroller" sponsored by TEQIP-I in Feb 2007 2. Co-ordinator of Student development program on "Industrial Automation Using PLC and SCADA" sponsored by TEQIP 3. Co-ordinator of workshop on Graphical Solution Using NI LabVIEW" sponsored by TEQIP 4. Co-ordinator of Guest lecture on “Discrete Automation Concepts in an Automotive Industry – India Perspective” in Sept. 2019 5. Organized a webinar on “Industry 4.0 and It’s Role in Manufacturing” in July 2020 6. Organized a one week workshop on “Python Programming” in August 2020 7. Organized AICTE_ISTE Sponsored National Level Faculty Development Program (Refresher Program) on “Industrial Automation and Networking”, December 2021. 8. Co-ordinator for Skilling Workshop on “ Embedded System and Robotics”, Organized under BEC-IDEA lab in association with BEC e-Yantra Lab, Basaveshwar Engineering College, Bagalkot, Sept. 2022. 9. Co-ordinator for AICTE-IDEA Lab “Open Day for School Students”, Sept. 2022

		<p>10. Co-ordinator for Skilling Workshop on “ Embedded System and Robotics”, Organized under BEC-IDEA lab in association with BEC e-Yantra Lab, Basaveshwar Engineering College, Bagalkot, Aug. 2023.</p>
<p>Conferences/ Symposiums/ Workshops/ Training Programs Attended</p>	<p>:</p>	<ol style="list-style-type: none"> 1. Three days workshop on “Outcome Based Education”, Basaveshwar Engineering College, Sept. 2023 2. Twelve weeks NPTEL online certification course on “Microprocessors and Microcontrollers”,Jan.- April 2022 3. Twelve weeks NPTEL online certification course on “Digital Electronic Circuits”,Jan.- April 2022 4. 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, Kavaraipeetai, Tamilnadu, from 14-06-2021 to 18-06-2021 5. Twelve weeks NPTEL online certification course on “Introduction to Internet of Things”,Jan.- April 2021 6. Twelve weeks NPTEL online certification course on “Introduction to Industry 4.0 and Industrial Internet of Things”, Sept.-Dec. 2020 7. Two weeks NPTEL online certification course on “Digital Transformation in Teaching Learning Process”, April 2020 8. Two days “e-Yantra Robotics” workshop at Matrusri Engineering College, Hyderabad from 28-02-2020 to 29-02-2020 9. One-week FDP on “Machine Learning, Deep Learning and computational intelligence for wireless communication” organized by Dept. of ECE, NIT, Trichy from 16-09-2019 to 20-09-2019 10. 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 11. IEEE International Conference on Applied and Theoretical Computing and Communication Technology, SJBIT, Bengaluru, July 2016 and presented a paper 12. One-week “Management Capacity Enhancement Program”, organized by IIM Trichy (Chennai Campus) from 12-10-2015 to 16-10-2015 13. Three days workshop on “Micro and Nano Technology, at CeNSE, IISc, Bengaluru from 25-09-2014 to 27-09-2014 14. Seventh ISSS International Conference on Smart Structures and Systems, July 2014 and presented a poster 15. Two weeks FDP on “Capacity Building Towards Quality teaching and Learning”, at IISc, Bengaluru, in the month of Dec 2013 and Jan 2014 16. Three days workshop on “Research methodologies and Latex” at Ghousia College of Engineering, Ramanagar from 27-07-2013 to 29-07-2013

	<ol style="list-style-type: none"> 17. Three days workshop on “Design Modelling and Simulation of MEMS devices” at Basaveshwar Engineering College, Bagalkot from 10-07-2013 to 12-07-2013 18. One day workshop on “Matlab and Simulink in Engineering Education” organized by Mathworks at Hubli on 20-06-2013 19. 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 20. Three days workshop on “Technical Documentation Using Latex” at Basaveshwar Engineering College, Bagalkot from 27-05-2013 to 29-05-2013 21. Three days FDP on “Implementation of Signal Processing Algorithms using FPGAs” at Basaveshwar Engineering College, Bagalkot from 23-05-2013 to 25-05-2013 22. Three days FDP on “Micro and Nano Technology” at MSRIT, Bengaluru from 25-04-13 to 27-04-13 23. Three days workshop on “Nanomechanical Sensing” at IIT, Bombay, from 06-06-2012 to 08-06-2012 24. One week FDP on “Intelligent Instrumentation and Robotics” at Basaveshwar Engineering College, Bagalkot from 26-03-2012 to 30-03-2012 25. One week training program on “Bosch Rexroth Electric Drives and Control” at Basaveshwar Engineering College, Bagalkot from 14-06-2010 to 18-06-2010 26. One month training program on “Bosch Rexroth Train the Trainers” Program at VTU Bosch Rexroth Center of Excellenec, Mysore in April 2010 27. Five days Faculty Development Program on “Soft Computing Approach to Image Processing and Pattern Recognition”, Basaveshwar Engineering College, Bagalkot, March 2010 28. Six days Faculty Development Program on “Soft Computing Approach to Image Processing and Pattern Recognition”, Basaveshwar Engineering College, Bagalkot, July 2007 29. Three days Faculty Development Program on “SCADA and PLCs for Industrial Automation”, Basaveshwar Engineering College, Bagalkot, Dec. 2006 30. Three days Faculty Development Program on “Signal Processing and It’s Application”, Basaveshwar Engineering College, Bagalkot, Oct. 2006 31. Six days Faculty Development Program on “Digital Signal Processor and Application”, Basaveshwar Engineering College, Bagalkot, Sept. 2006 32. Six days training program on “Structured Software Testing and Test Automation”, QSIT-PCS, Aug. 2006 33. Six days Faculty Development Program on “Applied Mathematics”, Basaveshwar Engineering College, Bagalkot, April 2006 34. Three days Faculty Development Program on
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	<p>“Instructional Design and Delivery”, Basaveshwar Engineering College, Bagalkot, Aug. 2005</p> <ol style="list-style-type: none">35. Two days symposium on “Recent Trends in Computer Communication and Networking”, Basaveshwar Engineering College, Bagalkot, March 200536. Three days workshop on “Microcontroller Lab”, SIT, Tumkur, Feb 200537. Two weeks STTP on “Semiconductor Physics and VLSI Design”, Basaveshwar Engineering College, Bagalkot, Feb. 200538. Two days workshop on “Intelligent instrumentation for biological sciences”, BVB Hubli, Nov. 200439. Three days workshop on “VLSI Design Labs”, Bangalore Institute of Technology, Bangalore, Aug. 200440. Six days STTP on “Embedded Systems and Applications”, Basaveshwar Engineering College, Bagalkot, March 200441. Two weeks STTP on “ Induction Program for Young Teachers”, Basaveshwar Engineering College, Bagalkot, Jan. 200442. Two days workshop on “Biosensors”, BVB Hubli, Nov. 2003
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