


FACULTY PROFILE

Name	: Dr. Rajani S. Pujar	
Designation	: Assistant Professor	
Department	: Electronics and Communication Engineering	
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Researcher ID (Web of Science)	: AAH-8596-2021	
Google Scholar ID	: ieYrPBkAAAAJ	
Qualification	: B.E., M.Tech., Ph.D.	
Professional Experience Teaching experience	: 20 Years	
Administrative Responsibilities	: 1) Department BoE Coordinator (Since 2019) 2) BEC-IDEA Laboratory Member (ACTE Sponsored) 3) Communication Laboratory In charge	
Teaching	: Optical Fiber Communication and Networks Wireless Networks Error Control Codes Digital Communication	
No. of Projects Guided UG	: 14	

PG	:	04
Research Interest Area	:	<ol style="list-style-type: none"> 1) Speech Processing 2) Wireless Networks
Journals (with citations)	:	<ol style="list-style-type: none"> 1) Rajani S. Pujar, “Combined Effect of Adaptive Wiener Filter and Spectral Splitting of Speech Signal in Improving Speech Intelligibility for Hearing Impaired People”, <i>International Journal of Future Computer and Communication (IJFCC)</i>, pp. 61-66, Vol. 11, No. 3, September 2022 2) Rajani S. Pujar, P. N. Kulkarni, “Wiener Filter Based Noise Reduction Algorithm with Perceptual Post Filtering for Hearing Aids”, <i>International Journal of Image, Graphics and Signal Processing (IJIGSP)</i>, pp. 69-81, Vol. 11, No. 7, 2019
Conferences	:	<ol style="list-style-type: none"> 1) Rajani S. Pujar, P. N. Kulkarni, “Speech Intelligibility Improvement based on Noise Reduction and Frequency Compression Technique”, <i>Proc. 18th IEEE India Council International Conference (INDICON 2021)</i>, Indian Institute of Technology (IIT) Guwahati, 19th – 21st, December 2021 2) Rajani S. Pujar, P. N. Kulkarni, “Cascaded Structure of Noise Reduction and Multiband Frequency Compression of Speech Signal to improve Speech Perception of Monaural Hearing Aids”, <i>Proc. 16th IEEE India Council International Conference (INDICON 2019)</i>, Gujarat, 13th – 15th December 2019 3) Rajani S. Pujar, P. N. Kulkarni, “Cascaded Structure of Wiener Filter with FBS Based Spectral Splitting and Dynamic Range Compression for Listeners with Sensorineural Hearing Loss”, <i>Proc. 15th IEEE India Council International Conference (INDICON 2018)</i>, Amrita Vishwa Vidyapeetham, Coimbatore, 16th to 18th December 2018 4) Rajani S. Pujar, P. N. Kulkarni, “Effect of Noise Reduction Algorithms on Temporal Splitting of Speech Signal to Improve Speech Perception for Binaural Hearing Aids”, <i>Proc. 13th Western Pacific Conference on Acoustics (WESPAC-2018)</i>, CSIR-NPL, New Delhi, 11th – 15th November 2018 5) Rajani S. Pujar, P. N. Kulkarni, “Frequency Compression of Speech for Improving Speech Perception in Sensorineural Hearing loss: FBS Approach”, <i>Proc. International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017)</i>, March 22-24, 2017, SSN College of Engineering, Chennai, India 6) S. S. Manvi, G. K. Chandrayya, J. D. Mallapur, R. S. Pujar, “A multimedia synchronization scheme for mobile wireless networks”, <i>Proc. National Conference on Emerging trends in Electronics and Communication Engg.</i>, pp. 01-04, Padre Conceição College of Engineering, Verna, Goa, 14-15th Sept. 2006 7) R. S. Pujar, S. S. Manvi, “An agent-based web services in virtual organizations”, <i>Proc. National Conference on Emerging trends in Electronics and Communication Engg.</i>, pp. 274-278, Padre

		<p>Conceição College of Engineering, Verna, Goa, 14-15th Sept. 2006</p> <p>8) R. S. Pujar, S. S. Manvi, “Multi-agent system based online shopping model for virtual organization”, <i>Proc. World Science Congress Conference</i>, Los Veagas, USA</p>
NPTEL Courses		<ol style="list-style-type: none"> 1) Computer Networks and Internet Protocol, January-April 2020 2) Introduction to Internet of Things, September-December 2020 3) 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) 4) 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) 5) AICTE Training and Learning (ATAL) FDP on “Cyber Security” organized by National Institute of Technology, Nagaland, October19-23, 2020 6) 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)
Invited Talks	:	<ol style="list-style-type: none"> 1) Invited talk presented at FDP on “Recent Advances in Wireless Networks”, Basaveshwar Engineering College, Bagalkot, May 16-18, 2013 2) Invited talk presented at National Level Workshop on “Technical Documentation Using Latex” Basaveshwar Engineering College, Bagalkot, May 27-29, 2013 3) Invited talk presented at Two-Day workshop on “Computer Networks”, Basaveswar Engineering College, Bagalkot, April 20-21, 2011 4) Invited talk presented at FDP on “Wireless Sensor Networks”, Basaveshwar Engineering College, Bagalkot, February 24-28, 2009 5) Invited talk presented at STTP on “Internet and its Applications”, Basaveshwar Engineering College, Bagalkot, February, 2009 6) Invited talks presented at Short Term Training Programme on “Mobile and Digital Communications”, B.V.V.S. Polytechnic, Bagalkot-587101, 23rd to 27th June 2008 7) Invited talks presented and handled lab sessions at faculty development programme, “Computer Network Simulation (CNS-08)” Feb 21-23, 2008, at Basaveshwar Engineering College, Bagalkot – 587102 8) Invited talk presented and handled lab sessions at Short term training programme, “Internet Protocols” at Basaveshwar Engineering College, Bagalkot - 587102 on “Communication Networks; Overview” August 21-26, 2006

		<p>9) Invited talk presented at E-Week, Basaveshwar Science College, Bagalkot-587101, on “Optical Fibre Communication” 16th to 21st January 2006</p> <p>10) Invited talks presented at Short Term Training Programme on “Data Communication and Networks”, B.V.V.S. Polytechnic, Bagalkot-587101, 2nd to 6th January 2006</p>
Events Organized	:	<p>1) Organized Skilling Programme on “Embedded Systems and Robotics”, IDEA Laboratory, BEC Bagalkot, 19th – 24th September, 2022</p> <p>2) Organized Open Day for School Students under AICTE-Laboratory, 18th October 2022</p> <p>3) Organized Workshop on “Importance of Basic Life Support Techniques” on 09.05.2022</p> <p>4) Organized Technical Seminar in “Applications of Intelligent Transportation Systems (ITS)” on 02.12.2022</p> <p>5) Organized Two Weeks SDP on “Latex and Moodle Learning Management System”, 19th-30th July 2021 in association with Spoken Tutorial, IIT Mumbai</p> <p>6) Organized talks on “Women Empowerment – Lessons Learnt from Kerala” by Dr. Leyanna S. George, Amruta Institute of Medical Science, Cochin, Kerala and “Women Autonomy in Health Care Decision Making” by Dr. Ayesha S. Nawaz, Piramal Swasthya Management and Research, Hyderabad were organized on 12.12.2020 under Equity Action Plan of TEQIP-III.</p>
Conferences/ Symposiums/ Workshops/ Training Programs Attended	:	<p>1) Workshop on “AICTE Examination Reform Policy”, BEC Bagalkot, February 14-15, 2020</p> <p>2) NPTEL Workshop, BEC Bagalkot, November 29, 2019</p> <p>3) Workshop on “Sensor Networks”, BEC Bagalkot, January 08-09, 2018</p> <p>4) International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017), at SSN College of Engineering, Chennai, India, March 22-24, 2017</p> <p>5) Faculty Development Programme on “Recent Advances in Signal Processing and Communication Networks”, Basaveshwar Engineering College, Bagalkot, 17th – 19th March, 2017</p> <p>6) International symposium on “Green Technologies for Sustainable Development”, BEC Bagalkot, January 24-25, 2017</p> <p>7) One day workshop on “Research Methodology” organized by Basaveshwar Engineering College, Bagalkot on 19/12/2015</p> <p>8) One day workshop on “Outcome Based Education” organized by Basaveshwar Engineering College, Bagalkot on 18/12/2015</p> <p>9) Workshop on Image and Speech Processing, at Indian Institute of Technology, Guwahati, December 13-14, 2013</p> <p>10) Workshop on “Quality Enhancement in Engineering Education (QEEE) at Indian Institute of Technology, Chennai, December 6-7, 2013</p> <p>11) FDP on “Soft Computing and Evolutionary Techniques” May 30 – June 1, 2013, BEC Bagalkot</p>

	<p>12) Three days faculty development programme on “Computer Network Simulation (CNS-08)”, at Basaveshwar Engineering College, Bagalkot, February 21-23, 2008</p> <p>13) Faculty development programme on “Real Time Operating System”, at Basaveshwar Engineering College, Bagalkot, Mar 26-31, 2007</p> <p>14) Faculty development programme on “Advanced Microcontroller”, at Basaveshwar Engineering College, Bagalkot, Feb 15-17, 2007</p> <p>15) Faculty development programme on “Embedded Systems”, at Basaveshwar Engineering College, Bagalkot, Feb 05-10, 2007</p> <p>16) Faculty development programme on “Digital Signal Processor and its applications”, at Basaveshwar Engineering College, Bagalkot, Sep 25-30, 2006</p> <p>17) State level post graduate technical symposium (PRAGATI-06), at B. V. Bhoomaraddi College of Engineering and Technology, Hubli, Sep 09, 2006</p> <p>18) Short-term training programme on “Internet Protocols” at Basaveshwar Engineering College, Bagalkot, Aug 21-26, 2006</p> <p>19) Faculty development programme on “C# & .NET”, at Basaveshwar Engineering College, Bagalkot, June 01-06, 2006</p> <p>20) Short term course on “Instructional Design and Delivery”, at Basaveshwar Engineering College, Bagalkot – 587102, Aug. 08 -13, 2005</p> <p>21) National level seminar on “Recent Trends in Computer Communications and Networking”, at Basaveshwar Engineering College, Bagalkot-587102, Mar. 15-16, 2005</p> <p>22) Short Term Training Programme on “Semiconductor Physics and VLSI Design “, at Basaveshwar Engineering College, Bagalkot -587102, Feb. 07-19, 2005</p>
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