

FACULTY PROFILE

Name	:	Shivakumar. G. Nayak	
Designation	:	Assistant Professor	
Department	:	Electrical and Electronics Engineering	
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Google Scholar ID	:	mtdQUUAAAAJ	
Qualification	:	B.E. M.Tech	
Teaching Experience	:	10	
Administrative Responsibilities	:	<ul style="list-style-type: none"> ▪ Issuing Coordinator, ▪ Department website Coordinator ▪ Department BOS Member, ▪ Department Parents Coordinator ▪ Department NSS Coordinator ▪ Department Anti-ragging Member 	
No. of Projects Guided UG	:	17	
Journals	:	<ul style="list-style-type: none"> ▪ Muskaan Yadahalli, Shivakumar G. Nayak, and “Comparative Analysis of Sprinkler Irrigation System with Drip Irrigation System through IOT Module” International Journal of Engineering and Innovative Technology (IJEIT) Volume 8, Issue 8, February 2019, ISSN: 2277-3754 ISO 9001:2008 Certified https://www.ijeit.com/Vol%208/Issue%208/IJEIT1412201902_03.pdf ▪ Shivakumar G Nayak, Ashwini Patil, Gurubai Gadagenavar. “Development and Analysis of Speed Control of BLDC Motor with Arduino Controller”, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075 (Online), Volume-11 Issue-4, March 2022, http://dx.doi.org/10.35940/ijitee.C9813.0311422 ▪ Shivakumar G Nayak , Arihant B Donage , Chandan L K , Pooja B Ambiger , Sahana Patil “Development and Implementation of Transformer Breather Health Monitoring System Using IoT” International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue IX Sep 2023, https://doi.org/10.22214/ijraset.2023.55632 	

<p>Conferences</p>	<p>:</p> <ul style="list-style-type: none"> ▪ Smitha Pujari, Deepa kabbur, Jyoti Talawar, Shivakumar G Nayak, presented paper on “Speed Control of BLDC Motor using PI Controller”, Online International Conference on “Continuity, Consistency and Innovation in Applied Sciences and Humanities (ICCIASH-2020)” Organized on 13th and 14th August, 2020. Department of Science and Humanities, St. Martin’s Engineering College, Secunderabad, ISBN No 978-93-88096-42-3. ICCIASH-2020 PROCEEDINGSxx.pdf (smec.ac.in) ▪ Shana Bhavi. Shivakumar Nayak, Bharath H K, Chetan Biradar, Sachin presented paper on “Comparative Analysis of DC to DC Boost Converter with P, PI, PID Controllers” International conference on “ Global Convergence in Technology, Entrepreneurship, Computing and Value Engineering Principals and Practices” Organized by Sapthagiri College of Engineering, During 24th to 26th of June 2022. ▪ Megha Beelagi, Shivakumar Nayak , Sujata Ajjappanavar , Chaitra Kumbar, Sagar Parashuram Mali presented paper on “Design and Implementation of Impedance Source Inverter Fed to Asynchronous Motor” National Conference of Science, Engineering and Management – NCSEM – 2K22 Organized on 1st and 2nd July 2022 by the Oxford College of Engineering Bengaluru. ▪ Dr. Sangamesh Goudappanavar, Shivakumar G Nayak Presented a paper on “Development and Performance Analysis of ATS for IOT- Enabled SPV Based RO Water Purifier in Academic Campus”. International Conference on Artificial Intelligence, Communication Technologies & Smart Cities (ICACS 2025) organized by Faculty of Technology and Engineering, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat, India on March 01, 2025. (Q2 Journal) ▪ Shivakumar G Nayak, Anjali C T, Sahana Nelavigi, Rahul Reddy, presented a paper on Development and Analysis of Load Flow for Distribution feeder Using ETAP –A Case Study Investigation. International Conference on Innovations in Materials Science, Technology, Engineering and Management for Sustainable Development (IMSTEM) 2025” Jointly Organized by Department of Science, St. Joseph's College of Engineering, OMR, Chennai, Tamil Nadu, India & RSP st Research Hub, Coimbatore, Tamil Nadu, India on 30 & 31 March 2025.
<p>Invited Talks</p>	<p>:</p> <ul style="list-style-type: none"> ▪ HRD Training Programme”, Invited talk for 1st year engineering students organized by Training & Placement Department in Basaveshwar Engineering College, Bagalkot on 7th and 8th Jan 2017 and on 20th and 21st Jan 2018. . ▪ Industry webinar on “Introduction to Autosar and its Development” 12th July 2020 Online Through Google meet https://meet.google.com/hgh-hshg-jbt Organized by EEEA, IEEE Student Branch, PES Student Chapter, BEC Bagalkot. ▪ Industry Webinar on “Substation Layout and Accessories” 6th February 2022, Online through Microsoft team, Organized by EEEA, IEEE Student Branch, PES Student Chapter, BEC Bagalkot. ▪ Industry webinar on “Electrical Power Generation using Solar Energy” 19th February 2022, Online through Microsoft team, Organized by EEEA, IEEE Student Branch, PES Student Chapter, BEC Bagalkot. ▪ HRD Training Programme”, Invited talk for 1st year engineering students organized by Training & Placement Department in Basaveshwar Engineering College, Bagalkot on 1st December 2022. ▪ Industry webinar on “Industrial Protocols Overview” 17th December 2022, online through https://meet.google.com/bio-ykck-brp Organized by EEEA, IEEE Student Branch, PES Student Chapter, BEC Bagalkot. ▪ Industry webinar on “Influence of Automation Tools on Modern Software Testing” 25th February 2023 online through https://meet.google.com/hrz-wggb-mwg Organized by EEEA, IEEE Student Branch, PES Student Chapter, BEC Bagalkot. ▪ HRD Training Programme”, Invited talk for 1st year engineering students organized by Training & Placement Department in Basaveshwar Engineering College, Bagalkot on 26th to 27th September 2024. ▪ “A talk on “Carrier with EEE” for 3rd year EEE students on 4th March 2025 at EEE Department BEC Bagalkote.

Events Organized	<ul style="list-style-type: none"> ▪ Anti-Ragging Awareness Programme organized in EEE Department in BEC Bagalkot on 4th August 2017 and 12th March 2021 and 4th February 2022. ▪ E-Quiz on Linear Control Systems 17.07.2020 to 22.07.2020, Online through Google Forms https://forms.gle/gwqWvm2R3pzSV23eA Organized by EEEA, IEEE Student Branch, PES Student Chapter, BEC Bagalkot. ▪ Anti-Ragging Awareness Programme organized in EEE Department in BEC Bagalkot for EEE students on 27th December t 2023 ▪ NSS Awareness Programme under UNNAT BHARAT ABHIYAN scheme was organized for EEE students visited to Sutagundar village on 29/05/2024 ▪ Department Parents meet Programme was Organized in EEE Department BEC Bagalkote for 6th Semester E&E Students on 28th July 2024. ▪ Department Parents Meet Programme was organized in EEE Department BEC Bagalkote for 6th Semester (2022-23 Admitted students) on 22nd February 2025. ▪ Ten days Student Development Program on Linear data Structures on python organized by Basaveshwara Engineering Bagalkot EE Department on from 28th January 2026 to 06th February 2026
Research Grants	<ul style="list-style-type: none"> ▪ Rs.7,000.00, from KSCST-Karnataka State Council for Science and Technology, “Attendance System Through Voice Recognition Using Arudino Technology” Ltr.No. 7.1.01/SPP/1333, dated 27.03.2019 ▪ Patent Published on “Three Phase Electrical Metering Device” Design No.: 410506-001 Date: 14/03/2024

Conferences/Symposiums / Workshops/Training Programs Attended	<p style="text-align: center;">NPTEL Online Course:</p> <ul style="list-style-type: none"> ▪ NPTEL Certification on Introduction to Smart Grid 08 weeks’ course conducted by IIT Roorkee on July-Sep 2019 ▪ NPTEL Elite Certification on Teaching and Learning in General Programs 04 weeks course conducted by IISC Bangalore on Sep-Oct 2020 ▪ NPTEL Certification on Advances in UHV Transmission and Distribution 08weeks’ course conducted by IISC Bangalore on Sep – Nov 2020 ▪ NPTEL Certification on Design thinking 04 weeks course conducted by IIT Madras on August – Sep 2023 ▪ NPTEL Elite Certification on DC Micro-Grid and Control System 08 weeks course conducted by IIT Roorkee on July-Sep 2024 <p style="text-align: center;">Spoken Tutorial Online Course:</p> <ul style="list-style-type: none"> ▪ A spoken tutorial training program on Python 3.4.3 organized Padmabhooshan Vasanttraoda Patil Institute of Technology, Budhgaon on May 2nd 2020. Funded by National Mission on Education through ICT, MHRD.Govt., of India IIT Bombay ▪ A spoken tutorial training program on “Open Modelica and Open IPSL” hosted by V.K.R, V.N.B & A.G.K college of engineering, Gudivada on 17th june to 23rd june 2020. Funded by National Mission on Education through ICT, MHRD.Govt., of India IIT Bombay <p style="text-align: center;">Conferences/ Symposiums/ Workshops/ Training Programs Attended</p> <ul style="list-style-type: none"> ▪ Faculty development programme on ‘Biology for Engineers’ conducted at Basaveshwar Engineering College, Bagalkot under TEQIP-II by IIT Bombay during February 01-04, 2017. ▪ Two days international symposium on “Green Technologies for Sustainable Development” Organized on 24th & 25th February, 2017 under TEQIP – II at Basaveshwar Engineering College, Bagalkot. ▪ Faculty Development programme on “Recent Advances in Signal Processing and Communication Networks” jointly organized by Department of Electronics communication engineering and Department of Telecommunication engineering, Goa during 17-03-2017 to 19-03-2017 under TEQIP – II of world bank. ▪ Three days faculty development program on teaching learning organized and conducted by IIT Madras from 6th to 8th October 2017 ▪ One day seminar on “Industrial Electrical Safety & open hall Interaction” on Saturday, 29th
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July 2017 at Shanthala Bhavan Hubballi.

- Two days workshop on “sensors Networks “during 8th to 9th January 2018 Organized and conducted by TEQIP-III at BEC Bagalkot.
- Three days training programme on Development positive Attitude towards Institutional Works and Life conducted by Saitej Life Training Institute organized by NPIU Govt. of India during 12th to 14th October 2018.
- One week faculty development Programme on “Electrical Vehicle – Electrical Machine Drives, Power Converters and Latest Technologies” from 22nd – 26th July 2019 Organized by Basaveshwar Engineering College Bagalkot by Department of Electrical and Electronics.
- Two day workshop on AICTE examination Reforms, during 14th February and 15th February 2020 conducted by Basaveshwar Engineering College Bagalkot and Organized by TEQIP-III and NPIU.
- Actively participated in Virtual yoga, Building Resilience in Body & Mind held on Thursday, 28th April 2020 organized IEEE Bangalore Section.
- Digital transformation in teaching learning Process Feb 14 to March 6th 2020 under TQIP -3 Sponsored and organized by IIT Bombay.
- An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31 Dec 2019 for Student Solar Ambassador Workshop 2019. This course is offered by IIT Bombay X, an online learning initiative of Indian Institute of Technology Bombay.
- One week online faculty Development programme on “Power Electronic Applications to Renewable energy systems and Energy storage systems” held from July 06-10, 2020 under TEQIP -3 Sponsored and organized by NIE Mysore.
- One week online AICTE STTP on “Optimal operation of power system Incorporating Renewable Energy Resources, Organized by Sagar Institute of Research and Technology, Bhopal.
- “Innovation and Entrepreneurship in a Post-Covid World” Held from 22nd June to 29th June 2020, as NPTEL Special Lecture Series, Co-organized by National Digital Library of India.
- NDLI User Awareness Webinar held on 29th July, 2020 organized by the National Digital Library of India in collaboration with the Einstein College of Arts and Science, Tirunelveli.
- One week STTP on “Recent Trends in Power Electronics, Power System and Renewable Energy System-II (RTPEPSRES-II-2020)” during 03.08.2020 to 07.08.2020, organized by the Department of Electrical Engineering, National Institute of Technology, Raipur, CG.
- One day webinar on “E-Resources for technology and Management research beyond VTU consortium” on 26/02/2021 Organized by Library and Information centre and IQAC Centre of PES college of Engineering Mandya.
- “Recent trends in power systems and power electronics” from 25th to 27th March 2021, Organized by Department of E&E Pooja Doddappa Appa College of Engineering, Kalburgi under TEQIP-III.
- AICTE sponsored one Week online STTP on “Recent Advances in EV Technologies, series-D organized by Dept of E&E Matrushi Engineering College during 12th July to 17th July 2021.
- Recent Advancement in Electric vehicle technology funded by New Gen IEDC, DST, Govt of India, Organized by dept of E&E BNMIT Bangalore 18th to 23rd October 2021.
- National symposium on “Energy Conservation Awareness and Practices” Organized by The Institute of Engineers Karnataka state centre in Association with BNMIT Bangalore on 14th December 2021
- Online Workshop on “Recent Developments in Smart Grid and Applications” in association with VTU, Belagavi and IEEE PES Chapter, from 05th - 07th September 2022, Organized by Department of Electrical and Electronics Engineering, GSSSIETW, Mysuru.
- Two days workshop on “Outcome Based Education” (OBE) held on 30th Sept to 1st October 2023 at Basaveshwara Engineering college Bagalkot,
- One day Training Program on Fire Safety Organized by BVV Sangha old Campus Bagalkote on 8th October 2024
- Participated in five day workshop on “Sustainable Development: Intersection of Green Energy and e-Mobility” (IGEEM-2024) organized by Department of Electrical Engineering, NIT Rourkela and sponsored by Science and Engineering Research Board (SERB) from 16th

	<p>Oct to 20th Oct 2024, at National Institute of Technology Rourkela, Odisha.</p> <ul style="list-style-type: none">▪ Research writing Proposal Techniques to get funds for projects and Systematic process of patent Drafting the patent Grant's. Jointly organized by the Department of Mechanical Engineering, Ramachandra College of Engineering (A) Eluru, Andhra Pradesh, India of RSP Science Hub Coimbatore, Tamil Nadu. India during 07th - 19th December 2024.▪ National Level Short Term Training Program on JAVA Full Stack With React JS & AI, Organized by Ballari Institute of Technology and Management in association with Brainovision Solutions India pvt Ltd, Hyderabad from 2nd December to 22nd December 2024.▪ One week FDP on AIML based Smart Grid organized from EEE department BEC-BGK on 30.01.2025 to 03.02.2025.▪ Participated in the International Conference on Artificial Intelligence, Communication Technologies & Smart Cities (ICACS 2025) organized by Faculty of Technology and Engineering, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat, India on March 01, 2025.
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