

## Workshop Conducted

- IEEE three days webinar on Quantum Concepts and Applications(With Hands on) ,By D R Vijayakumar , Govt. Polytechnic, Belur , held during 11<sup>th</sup> and 13<sup>th</sup> January 2021, Jointly organised by IEEE MCE Student Branch and IEEE Bangalore Section, Bangalore, India.
- IEEE Webinar on IEEE Benefits and IEEE Funding for Projects ,By Dr Sujatha ,Professor ,BMS College of Engineering Bangalore , held on 17<sup>th</sup> April 2021, Jointly organized by IEEE MCE Student Branch and IEEE Bangalore Section, Bangalore, India.
- IEEE Webinar on Mode Locked Fiber Lasers ,By Dr Niloy K Dutta ,Professor ,University of Connecticut, USA , held on 22<sup>nd</sup> May 2021, Jointly organized by IEEE MCE Photonic Society Student Chapter and IEEE Photonics Society Chapter Calcutta University, In association with IEEE Prakash Bharati India .
- IEEE Webinar on Compensation of Impairments in Fiber Optic Systems ,By Dr Shiv Kumar ,Professor ,Mc Master University , Canada , held on 24<sup>nd</sup> May 2021, Jointly organized by IEEE MCE Photonic Society Student Chapter and IEEE Photonics Society Chapter Calcutta University, In association with IEEE Prakash Bharati India .
- IEEE Webinar on “Introduction to Photonics”,( In Kannada)By Dr. Gopalakrishna Hegde, Professor , IISc Bangalore , held on 28<sup>th</sup> May 2021, Organized by IEEE MCE Photonic Society Student Chapter , In association with IEEE Prakash Bharati India .
- IEEE Webinar on “Resonant cavity based optical modulators/switches using electro absorption effect” ,By Dr Sooraj Ravindran,,Professor , IIST Trivandram., held on 4<sup>nd</sup> June 2021, Organised by IEEE MCE Photonic Society Student Chapter , In association with IEEE Prakash Bharati India .
- IEEE Webinar on “Possible Carrier Pathways for Engineering Graduates” held on 19<sup>th</sup> June 2021, Organised by IEEE MCE Student Branch , In association with IEEE Bangalore Section and IEEE Mysore Subsection.



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## Achievements

- 90+ students completed internship in various companies / organizations in the academic year.
- 50+ students completed NPTEL SWAYAM course during the academic year.
- DST- Fellowship 2021 of Rs 20,000 per month for PhD Scholar Yashaswini P. R for her thesis topic “Analysis of Photonic sensors for various applications” under the guidance of Dr. P. C. Srikanth.



I'm not much into current electronic stuff, what I think of as lounge electronics, mumbling electronics





## Invited talks

### Dr. P. C. Srikanth

- Photonic Sensors on 1<sup>st</sup> January, 2021, Webinar on Photonic Sensors Organized by Department of Electronics and Communication Engineering, Malnad college of Engineering, Hassan, Karnataka, India sponsored by IEEE MCE Student branch and IEEE MCE Joint Photonic and comsoc Chapter.
- Quantum Communications, Three days "Hands-on Training on Quantum Concepts and Applications" held during 11<sup>th</sup> and 13<sup>th</sup> January, 2021, Sponsored by IEEE MCE Student Branch, MCE, Hassan.
- Key note address on "Nano Photonic Sensors" during 3<sup>rd</sup> & 4<sup>th</sup> May, 2021, at National Conference Recent Trends In Engineering (NCRTE-2021), Organized by Dayanand Sagar University, School of Engineering, Bangalore, India.
- Survivable Optical Networks on 10<sup>th</sup> June, 2021, International Webinar on Advances in Communication – Research Perspective Organized Indian Institute of Science, Bangalore.
- Quantum Concepts and Applications during 14<sup>th</sup> & 19<sup>th</sup> June, 2021, FDP on Recent Trends in Photonics, Organized by Dept. of ECE, Oxford College Engineering, Bangalore, India.

### Dr. Keerthi D S

- A webinar on the Roadmap of Mathematics for Machine Learning on 18th December 2020 organised by CIT, Ponnampet, Madikeri.
- A keynote on Essential Mathematics for Wireless Communication and Machine Learning on 23rd 92020 organised by MIT, Mysore.

## Publication Details

- Yashwini, P C Srikanth "Comparative Performance Analysis of 2D Photonics MOEMS Pressure Sensors" pp 1016-1022, IEEE International Conference on Computing for Sustainable Global Development (INDIACom-2021), held during 17th and 19th March 2021 Organized by Bharathi Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi, India.
- Hemanth Kumar B M, P C Srikanth, Vaibav A M "A Novel Computation Method for Detection of Malaria in RBC using Photonic Biosensor" pp 1027-1032, IEEE International Conference on Computing for Sustainable Global Development (INDIACom-2021), held during 17th and 19th March 2021 Organized by Bharathi Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi, India.
- Hemanth Kumar B M, P C Srikanth, Vaibav A M "Multiple Diseases Detection by Novel Computation Method using 2D Photonic Biosensor" pp 1033-1037, IEEE International Conference on Computing for Sustainable Global Development (INDIACom-2021), held during 17th and 19th March 2021 Organized by Bharathi Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi, India.
- [Afzal Shaikh](#), [Preeti Sharan](#), [P. C. Srikanth](#) & [Manju Devi](#), "A novel automated framework for water impurity detection", Springer Singapore – International Journal of Information Technology, Volume **XXX**, Issue **XX**(2020), pp **XXXX-XXXX**, 13 Feb-2021(Int. j. inf. tecnol. <https://doi.org/10.1007/s41870-020-00601-x>)
- Yashwini P R, P C Srikanth, "Performance analysis of photonic crystal based biosensor for the detection of bio-molecules in urine and blood", Elsevier Se Proceedings of Materials Today -2020, Issue xxx, pp xx-xx, June- 2021.
- SAHANA R S and MURTHI MAHADEVA NAIK G, "Dual Polarized Rectangular Microstrip Patch Antenna for 5G Wireless Application", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 06 | June 2021 www.irjet.net p-ISSN: 2395-0072, pp 3060-3063
- Pallavi H.V, **Murti Mahadeva Naik G**, A.P. Jagadeesh Chandra, Paramesha "Enhancement of Radiation characteristics in a planar Microstrip patch Antenna using Defected Ground Structure", *Turkish Journal of Computer and Mathematics Education Vol.12 No.12 (May 2021),ISSN 1309-4653. pp3157-3166*

Contd....



- D. L. Lakshmi, Venkateswara Rao Kolli, P. C. Srikanth, D. L. Girijamba, and Indira Bahaddur "Pressure Sensor Based on Two-Dimensional Photonic-Crystal Ring Resonator. Advances in VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems Select Proceedings of VSPICE 2020, pp 85-97 Conference paper **First Online:** 11 April 2021
- Deepika, K.C., Shivakumar, G. **A Robust Deep Features Enabled Touchless 3D-Fingerprint Classification System.** SN COMPUT. SCI. 2, 263 (2021). <https://doi.org/10.1007/s42979-021-00657-x>.
- Deepika K.C., Shivakumar G. (2021) **Towards More Accurate Touchless Fingerprint Classification Using Deep Learning and SVM.** In: Venugopal K.R., Shenoy P.D., Buyya R., Patnaik L.M., Iyengar S.S. (eds) Data Science and Computational Intelligence. ICInPro 2021. Communications in Computer and Information Science, vol 1483. Springer, Cham. [https://doi.org/10.1007/978-3-030-91244-4\\_20](https://doi.org/10.1007/978-3-030-91244-4_20).
- K. C. Deepika and G. Shivakumar, "Hybrid CNN-Ensemble based Classifier for Touchless Fingerprint Classification," 2021 IEEE Mysore Sub Section International Conference (MysuruCon), 2021, pp. 482-486, doi: 10.1109/MysuruCon52639.2021.9641718.
- Santhosh Kumar K B and B R Sujatha, "Low area FPGA Implementation of Secure MIMO OFDM based Wireless ECG Signal Transmission", International Journal of Inventive Engineering and Science, Vol.14, No.4, 2021 <https://doi.org/10.22266/ijies2021.0831.06>, pp 55-65.
- K. B. Santhosh Kumar & B. R. Sujatha, FPGA Design of an Efficient EEG Signal Transmission Through 5G Wireless Network Using Optimized Pilot Based Channel Estimation: A Telemedicine Application. [Wireless Personal Communications](#) (2021), Springer Publication. <https://doi.org/10.1007/s11277-021-09305-2>.
- Prakruthi H L "Modelling, simulation and Analysis of Electrostatically Actuated MEMS cantilever beam Displacement", 3<sup>rd</sup> and 4<sup>th</sup> May 2021, 2277-7067
- Prakruthi H L "A MEM Electric field sensor for characterization of charges in resonant electrostatic-capacitive MEMS Device: A systematic survey", May 2021, 2277-7067

## Workshops Attended:-

- Dr. P. C. Srikanth has participated in five days FDP on Innovative Teaching And Research in Science: Exploring The New Horizons, during 10<sup>th</sup> & 15<sup>th</sup> June, 2021, Organized by Science Forum in Association with IQAC, Government First Grade College, Vijayanagar, Karnataka.
- Dr. P. C. Srikanth has participated in five days FDP on Recent Trends in Photonics, during 14<sup>th</sup> & 19<sup>th</sup> June, 2021, Organized by Dept. of ECE, Oxford College Engineering, Bangalore, India.
- Dr. Indira Bahaddur has participated in AICTE SPONSORED ONE WEEK SHORT TERM TRAINING PROGRAMME ON "EMPOWERING MORAL VALUES, ETHICS AND BEHAVIORAL ATTITUDE IN TEACHING SKILLS AMONG TEACHERS (PHASE-II)" Organized by Department of Electronics and Communication Engineering Dr. N.G.P. INSTITUTE OF TECHNOLOGY; COIMBATORE-48 on January 18-23, 2021.
- Dr. Indira Bahaddur has participated in AICTE Training And Learning (ATAL) Academy Online FDP on "Photonics" **KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES** from 08.02.2021 to 12.02.2021.
- Sushma N has participated in Participated in two-weeks FDP on "Hands on Project-Based Approach for Biomedical Signal Analysis using MATLAB" organized by Dept. of ECE at Kakatiya Institute of Technology & Science, Warangal, Telangana during 01-13 February 2021.
- Santhosh Kumar K B, Deepika K C, Swathi H Y and Poornima M R has participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Computer Science & Biology" from 2021-1-19 to 2021-1-23 at Malnad College of Engineering.
- Spoorthi B S has participated One week International FDP on "Blockchain with cyber security", organized by Easwari Engineering College, Tamilnadu from 24/05/2021 to 29/05/2021

Everyone seems to suck at communication these days even though we are constantly staring at the devices originally made for communication...

