

Workshop Conducted

- One week Faculty Development Programme on Recent Advances in Photonics, Technology. Technically cosponsored by Prakash Bharathi IEEE Photonics Society (USA), India, held during 7th and 11th September, 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.
- IEEE three days webinar on Quantum Concepts and Applications (With Hands on) ,By D R Vijayakumar , Govt. Polytechnic, Belur , held during 11th and 13th January 2021, Jointly organized by IEEE MCE Student Branch and IEEE Bangalore Section, Bangalore, India.



Achievements

- 106 students completed internship in various companies / organizations in the academic year.
- 40 + students completed NPTEL SWAYAM course during the academic year.
- Triveni C L, Asst. Prof, has been awarded Ph.D degree from VTU, Belagavi for the Thesis titled **Performance Analysis of SLICE Optical Networks** in July 2020.
- Indira Bahaddur, Asst. Prof has been awarded Ph.D degree from VTU, Belagavi for the Thesis titled **A Study on Performance of Pressure Sensors based on Photonic Crystal** in July 2020.
- Keerthi D S, Asst. Prof, been awarded Ph.D degree from VTU, Belagavi for the Thesis titled **Load Balancing Routing Mechanisms for Wireless Mesh Networks** in July 2020.



Invited talks

Dr. P. C. Srikanth

- Photonic Bio-Sensors on 21st June, 2020 , Five days International Webinar Series on Applications of Ayurveda ,Medicine and Technology to Combat COVID-19 Organized by Government First Grade College ,Vijayanagar , Department of Collegiate Education, Government of Karnataka, Bangalore.
- Survivable Optical Networks on 1st July, 2020 , Three days online FDP on Recent Trends in Photonics , Organized by Dayanand Sagar University Bangalore.
- Free-space Optical Communication (FSO) on 9th September 2020, One week Faculty Development Programme on Recent Advances in Photonics , Technology . Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India , held during 7th and 11th September , 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.
- Optical Fiber Communication on 9th September 2020, One week Faculty Development Programme on Recent Advances in Photonics , Technology . Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India , held during 7th and 11th September , 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.
- Survivable Optical Networks on 9th September 2020, One week Faculty Development Programme on Recent Advances in Photonics , Technology . Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India , held during 7th and 11th September , 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.
- Nano Photonics Sensors on 9th September 2020, One week Faculty Development Programme on Recent Advances in Photonics , Technology . Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India , held during 7th and 11th September , 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.
- Photonics Sensors on 3rd November 2020, One week Faculty Development Programme on Recent Advances in Photonics and Communication, sponsored by AICTE Training and Learning Program(ATAL) , held during 2nd and 6th November , 2020 at Guru Jambheshwar University of Science and Technology organized by Dept. of Physics, Hisar,Hararyana, India.

Dr. CL Triveni

- Webinar on **Spectrum Allocation in SLICE Optical Networks**, conducted by IEEE Photonics Society Bangalore Chapter, on 18th July 2020.

• Publication Details

- Hemanth Kumar , Vaibhav Meshram, P C Srikanth “2D Photonic Crystal based Biosensor for detection of Cervical Cancer Cell”. IEEE International Conference on Electronics, Computing and Communication Technologies, (CONECCT 2020) held during 2nd &4th July , 2020 organized by IEEE Bangalore Section ,Bangalore , India.(978-7281-6828-9/20/\$31.00 © 2020 IEEE).
- Indira Bahaddur ,Kavana K V, P C Srikanth , “Malignancy Cells Discovery Utilizing Photonic Crystal Based Biosensor”, International Journal of Engineering Research and Management(IJERM), Vol 7,Issue 7 ,pp, 18-20 July- 2020(ISSN : 2349-2058)
- S. S. Ajey , H. R. Bhanumathi , P. C. Srikanth, Preeta Sharan, “Highly sensitive photonic crystal based biosensor for Bacillus cereus”, Springer Singapore – International Journal of Information Technology, Volume **XXX** , Issue **XX**(2020),pp **XXXX-XXXX**, 30-August-2020(Int. j. inf. tecnol. <https://doi.org/10.1007/s41870-020-00507-8>)
- Yashaswini P R ,N Mamatha , P. C. Srikanth, “Circular diaphragm based MOEMS pressure sensor using ring resonator”, Springer Singapore – International Journal of Information Technology, Volume **XXX** , Issue **XX**(2020),pp **XXXX-XXXX**, 21-October-2020(Int. j. inf. tecnol. <https://doi.org/10.1007/s41870-020-00534-5>)

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- Lakshmi D L, P C Srikanth , “Pressure Sensor Based on Two-Dimensional Photonic-Crystal Ring Resonator”, Springer Select Proceedings of VSPICE-2020 , Issue 752 ,pp 85-98, December- 2020.
- Krupa.V, Triveni.C.L, “**Design of Biosensor for the Detection of Pregnancy based on HCG Presence in Urine using Photonic Crystal Waveguide**” in 6th International Conference on Electronics, Computing and Communication Technologies, IEEE CONECCT 2020 organized by IEEE Bangalore Section from 2-4 July,2020.
- **Indira Bahaddur** , Kavana K V, Dr P C Srikanth, “Malignancy Cells Discovery Utilizing Photonic Crystal Based Biosensor, International Journal of Engineering Research And Management (IJERM) ISSN: 2349- 2058, Volume-07, Issue-07, July 2020.
- Venkateswara Rao Kolli , **Indira Bahaddur**, **Basavaprasada** , **Dudla Prabhakar**, Srinivas Talabattula, “A High Q-factor Photonic Crystal Microring-resonator based Pressure Sensor”, [Photonics and Nanostructures - Fundamentals and Applications](https://doi.org/10.1016/j.photonics.2020.100870), 31.12.2020 ELSEVIER <https://doi.org/10.1016/j.photonics.2020.100870> **Impact Factor** of this journal is 2.443.
- Ms. Kathyayini Vishwakarma L V, **Keerthi D S** “A Novel Approach for Tracking Crowd and Moving Vehicles in Surveillance Videos”, International Research Journal of Modernization in Engineering Technology and Science , Vol. 2, Issue 8, pp. 1318-1326, August- 2020 (e-ISSN: 2582-5208).
- Deepika K C, Dr. G Shivakumar, “**Touchless 3D Fingerprint Identification using SSIM template matching Technique**”, Dogo Rangsang Research Journal (UGC Care Group 1 Journal) ISSN: 2347-7180, Vol-10, Issue-08, No.13, PG no-72-80. August 2020.
- Santhosh Kumar K B and B R Sujatha, “Turbo Codes for Telemedicine Applications”, Proceedings of First International Conference on Advances in Physical Sciences and Materials (ICAPSM 2020) to be held at SNS College of Technology, Coimbatore, Tamil Nadu, India during 13- 14, August 2020, pp 395-402.
- Santhosh Kumar K B and B R Sujatha, “Reliable Transmission of EMG Signal in Telemedicine for Myopathy Patients”, Proceedings of third International Conference on Soft Computing and Signal Processing-2020 held at Malla Reddy College of Engineering and Technology, Hyderabad, India during 21-22 August 2020.
- Spoorthi B S Presented a research paper entitled “Waste Management in smart cities using shortest path approach” in “Two days International e-Conference on recent trends and technologies in soft computing” organized by St.peter’s institute of Higher Education and Research, Chennai on 28th and 29th September 2020

Workshops Attended:-

- Dr. P C Srikanth has attended One week Faculty Development Programme on Recent Advances in Photonics , Technology . Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India , held during 7th and 11th September , 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.
- Dr. Murthi Mahadeva Naik G, has attended AICTE sponsored one week short term training program (STTP) on “Creating Smart and Green Society through Advance Technology of Green Energy” organized by Malnad College of Engineering, Hassan, held during 17th to 22nd December 2020. (Phase-II).
- Dr. Murthi Mahadeva Naik G, Dr. Triveni C L, Dr. Indira Bahaddur and Dr. Venkateswara Rao Kolli has attended AICTE sponsored one week short term training program (STTP) on “Creating Smart and Green Society through Advance Technology of Green Energy” organized by Malnad College of Engineering, Hassan, held during 10th to 15th December 2020. (Phase-I).

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

