

## Workshop Conducted

- One-week AICTE sponsored online FDP on **Quantum and Photonics** during 29th November 2021 to 3rd December 2021 at Dept of ECE, MCE Hassan.



## Achievements

- *IEEE Mysore subsection awarded most promising student branch presented to Malnad College of Engineering, Hassan in recognition of outstanding contribution to IEEE Mysore subsection in the year 2021.*
- *AICTE sponsored one-week online FDP on **Quantum and Photonics** from 29th November 2021 to 3rd December 2021 in the Dept of ECE, MCE Hassan of amount Rs 93,000.*
- *Dr. P C Srikanth, HOD, E & C Dept. was awarded as IETE Distinguished Member by Institution of Electronics and Telecommunication Engineers(IETE),Mysuru on 6th November 2021.*

## PATENTS PUBLISHED by Dr. Venkateswara Rao Kolli

- *Integrated optical serially coupled microring resonator-based accelerometer and high Q-factor photonic crystal microring resonator-based pressure sensor, patent is published, September 2021, waiting for the grant.*
- *A high sensitive photonic crystal Mach-Zehnder-Interferometer based pressure-sensor, submitted for the patent, October 2021.*



## Invited talks

### Dr. P. C. Srikanth

- Key note address on “Quantum Concepts and Application” on 26th & 27th August . 2021, at International Conference On Science, Engineering and Management (ICSEM-2021), Organized by Faculty of Psychology, University of Pancasila , Indonesia.
- Quantum Concepts and Applications during 15th & 19th November , 2021, FDP on Photonics ,Organized by Dept. of Physics , Global Academy of Technology ,Bangalore , India.
- Quantum Concepts and its Applications on 30th November 2021, One week Faculty Development Programme on Quantum and Photonics, sponsored by AICTE Training and Learning Program(ATAL) , held during 29th November and 3rd December , 2021 at Malnad College of Engineering organized by Dept. of E&C, Hassan,Karnataka, India.

### Dr. C L Triveni

- Webinar on **Demo and simulation modelling using WDM Netsoft** conducted on 28th July 2021 for a one-week AICTE sponsored FDP(ATAL) on *Recent trends in the field of photonics*, conducted during 26th -30 July 2021 organized by Dept of ECE, RNSIT, Bangalore.
- Webinar on **Spectrum management in Elastic optical networks** conducted on 29th September 2021 for a five days FDP on Recent advancements in photonics and its application conducted during 27th September to 1st October 2021 organized by Dept of ECE, CARE college of Engineering, Trichy, Tamil Nādu.
- Webinar on **Elastic optical networks** conducted on 19th November 2021 for a one-week FDP on photonics, conducted during 15th –19th November 2021 organized by Department of Physics, GLOBAL ACADEMY OF TECHNOLOGY R.R Nagar, Bengaluru –560098.
- Webinar on **RSA in SLICE optical networks** conducted on 03rd Dec 2021 for a one-week AICTE sponsored FDP(ATAL) on *Quantum and Photonics conducted*

## Publication Details

- Hemanth Kumar B M , Vaibhav Meshram, [P. C. Srikanth](#) & [Manju Devi](#) , “[A novel computation method for detection of Malaria in RBC using Photonic biosensor](#)”, Springer Singapore – International Journal of Information Technology, Volume **XXX** , Issue **XX**(2020),pp **XXXX-XXXX**, 2 ,Sept -2021(Int. j. inf. tecnol. <https://doi.org/10.1007/s41870-021-00782-z>).
- Yashswini P R , Peeta Sharan ,P C Srikanth , “[Design and implementation of MOEMS based optical diaphragm using photonic crystal for the prevention of barotrauma.](#)”, Elsevier Journal of Results in Optics -2021 , Issue xxx ,pp xx-xx, Nov- 2021.( <https://doi.org/10.1016/j.rio.2021.100191>).
- Varsha P, **Indira Bahaddur** and Venkateswara Rao Kolli., “Photonic Crystal based Bio-Sensor using Rhombic Ring Resonator for Cancer Cell Detection”. 7th International conference on Electronics, Computing and Communication Technologies IEEE CONNECT 2021:organized by IEEE Bengaluru Section 9-11 July 2021
- Sangeetha B S,**Indira Bahaddur** ., “RAPID DETECTION OF BRAIN LESIONS USING BIOSENSOR BASED 2D PHOTONIC CRYSTAL” 7th International conference on Electronics, Computing and Communication Technologies IEEE CONNECT 2021:organized by IEEE Bengaluru Section 9-11 July 2021
- Pooja H M, Nayana M G, Triveni.C.L, “**Design and Implementation of Encoder/Decoder Quantum Circuits using Decimal to Binary Conversion method and vice versa.**”7th International Conference on Electronics, Computing and Communication Technologies, IEEE CONECCT 2021 organized by IEEE Bangalore Section from 9-11 July,2021.
- Nayana M G, Pooja H M, Triveni.C.L, “**Design and Implementation Quantum Half Subtractor and Full Subtractor Using IBM Quantum Experience.**”7th International Conference on Electronics, Computing and Communication Technologies, IEEE CONECCT 2021 organized by IEEE Bangalore Section from 9-11 July,2021.
- Venkateswara Rao Kolli , Basavaprasad , Indira Bahaddur , Srinivas Talabattula “A high sensitive photonic crystal Mach-Zehnder-Interferometer based pressure-sensor”,journal homepage: [www.sciencedirect.com/journal/results-in-optics](http://www.sciencedirect.com/journal/results-in-optics). ELSEVIER <https://doi.org/10.1016/j.rio.2021.100118> 24 July 2021 *Impact Factor* of this journal is 2.443

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- Swathi, H.Y., Shivakumar, G. Hybrid Feature-Assisted Neural Model for Crowd Behavior Analysis. SN COMPUT. SCI. 2, 248 (2021). <https://doi.org/10.1007/s42979-021-00636-2>

## Workshops Attended: -

- Dr. Indira Bhaddur has participated in AICTE Training And Learning (ATAL) Academy Online FDP on Internet of Thing:Concepts and Implementation from 13<sup>th</sup> Dec2021 to 17<sup>th</sup> Dec 2021 Institute: at **SVKM'S NMIMS SCHOOL OF BUSINESS MANAGEMENT - INDORE**.
- Dr. Keerthi D S has participated in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Cyber Security and Block chain" from 13/12/2021 to 17/12/2021 at Global Academy of Technology.
- Dakshayini M R has participated in AICTE Training and Learning (ATAL) Academy sponsored Online Elementary FDP-one week on "Design Thinking: From Insights to Viability for Engineers" from 06/12/2021 to 10/12/2021 at Lakireddy Bali Reddy College of Engineering.
- Deepika K C has participated in AICTE Training And Learning (ATAL) Academy Online FDP on " **Real Time Problems And Solutions With Ai & MI Using R Programming**" from 06/12/2021 to 10/12/2021. Institute: Galgotias University.
- Sushma N has participated in Participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online Elementary** FDP on "**High performance Analog and Mixed signal VLSI System design**" from **13/12/2021** to **17/12/2021** at **Indian Institute Of Technology Dharwad**.
- Swathi H Y\_has participated in AICTE Training And Learning (ATAL) Academy Online FDP on **Quantum and Photonics** from 29th Nov to 3rd Dec 2021 Institute: Malnad College of Engineering Hassan.
- Santhosh Kumar K B has participated in AICTE Training And Learning (ATAL) Academy Online FDP on **Quantum and Photonics** from 29th Nov to 3rd Dec 2021 Institute: Malnad College of Engineering Hassan.
- Swathi H Y\_has participated in AICTE Training And Learning (ATAL) Academy Online FDP on **Quantum and Photonics** from 29th Nov to 3rd Dec 2021 Institute: Malnad College of Engineering Hassan.
- Prthap P B has participated in Five days faculty development program titled as “RECENT ADVANCEMENTS IN PHOTONICS AND ITS APPLICATIONS”, held on 27<sup>th</sup> September 2021 to 1<sup>st</sup> October 2021, organized by department of electronics and communication engineering, CARE college of engineering in association with IEEE CARE students branch –Madras section and IEEE Photonics society, Bangalore chapter.
- Poornima M R has participated in Participated & completed successfully AICTE Training and Learning (ATAL) Academy **Online Elementary** FDP on "**Faculty Development Programme on Electric & Hybrid Vehicle - Design, Integration and Challenges**" from **27/12/2021** to **31/12/2021** at **New Horizon College of Engineering**.

*“A negative mind will never give you a positive life”*

