

## FACULTY PROFILE

1. Name : P. C. SRIKANTH

2. Date of Birth : 22.04.1966

3. Highest Qualifications : M.Tech, Ph.D

4. Academic Performance :



Qualifications	Board / IIT / University	Institute and place where studied	Year of passing	Class / % marks
B.E.	Mysore University	Maland College of Engineering, Hassan	1987	FCD/70.00
M.Tech.	IIT	IIT, Kanpur	1996	7.62/10(CGPA)
Ph.D	VTU, Belgaum	In IISc Photonics lab	2011	

5. Date of Joining : 17.11.1988

6. Status as on date of Joining : Lecturer

7. Salary as on date of Joining : Rs. 700.00 (Basic) + Allowance

8. Present Status : Professor & Head, Dean(Planning & Development)

9. Salary as on date : Rs. 3,27,300.00

### 10. Achievements since date of joining:

FD	R&D /CS	No. of Publication	Teaching Award	Books / Monograph	Conference Seminars conducted	Extra curricular activities	Invited Talks	Admin.
53	3	142	17	1	56	13	216	108

### Faculty Development

- ISTE Short term course on “Digital communication through satellites” Held at MCE, Hassan, During July5, 1993 to July 17, 1993.
- ISTE Short term course on “Instrumentation, control & Guidance” held at MCE, Hassan, During March 4-16,1996
- AICTE short term course on “Embedded Controllers and Applications” held at IISc, Bangalore, During 7-18 October, 1996.
- AICTE short-term course on “Computer aided design of microwave and millimeter wave integrated circuit components” held at TCE, Madurai, and during 12.3.97-22.3.97.

- ISTE short term course on “Non-conventional energy sources” held at PES, Mandya, during 20/07/98-25/07/98.
- ISTE short-term course on “Operation and maintenance of industrial instrumentation systems” held at SJCE, Mysore during September 14-26, 1998.
- ISTE Short term course on “Robotics for industrial applications” held at MCE, Hassan, during March 15-27, 1999.
- Short term training program on Feel teacher held at MCE, Hassan, during 27<sup>th</sup> - 31<sup>st</sup> August 2005.
- Symposium on Trends in pattern recognition held at MCE, Hassan, on 22<sup>nd</sup> April 2006
- One day workshop on modernizing the teaching of Microwaves using MICs held at SJCE, Mysore on 6<sup>th</sup> October, 2006.
- Workshop on advances in wireless networks and security held at MIT, Manipal, during 29-30 march 2007.
- Workshop on student evaluation methods in autonomous institution during 9<sup>th</sup> – 10<sup>th</sup> Feb. 2007 held at MCE, Hassan.
- Workshop on challenges in PhD and M.Sc (Engg.) Research at engineering colleges on 26<sup>th</sup> Feb. 2008 held at MCE, Hassan.
- Workshop on wireless and optical networks conducted on 30<sup>th</sup> May 2009 at IISc Bangalore.
- Workshop on Human values in technology and management conducted on 30<sup>th</sup> August 2009 at central college campus ,Bangalore.
- Tutorial on Fiber optic tutorial with experimental demonstration conducted on 4<sup>th</sup> September 2009 at IISc Bangalore.
- Workshop on Mind Ur Mind on 23<sup>rd</sup> March. 2013 held at Southern Star, Hassan organized by MCE, Hassan.
- Workshop on Vision and on 6<sup>th</sup> May. 2013 held at Southern Star, Hassan organized by MCE, Hassan
- Workshop on Deriving program educational objectives/program outcomes/course outcomes/assessments for NBA self assessment report during 11<sup>th</sup> and 13<sup>th</sup> July. 2013 held at MCE Hassan, organized by MCE, Hassan
- Workshop on Conceptualization of an Integrated Positioning and Time Synchronization for GPS/INS using VHDL/FPGA Tools For Marine Applications on 13<sup>th</sup> Sept. 2013 held at Oxford College of Engineering, Bangalore.
- Work shop on Micro-Nano Technology conducted on 26<sup>th</sup> April 2014 at IISc Bangalore.
- Training programme on SAR preparation for e-NBA process on 28<sup>th</sup> May. 2014 held at MCE, ,Hassan.
- One week Faculty Development Programme on Analytical and Numerical Techniques in Applied Mathematics and Engineering held during 28<sup>th</sup> July and 2<sup>nd</sup> August . 2014 held at MCE Hassan, organized by Dept. of Maths, MCE, Hassan

- Work shop on Outcome based education conducted on 6<sup>th</sup> Jan 2015 at BMSCE Bangalore
- International conference on Transformations in Engineering Education ICTIEE-2015 during 6<sup>th</sup> and 8<sup>th</sup> Jan 2015 at BMSCE Bangalore
- Workshop on Administrative Training Programme held during 16<sup>th</sup> and 21<sup>st</sup> November. 2015 at MCE ,Hassan.
- IEEE Workshop on Recent Advances in Photonics 2015, held during 16<sup>th</sup> and 17<sup>th</sup> December 2015 at IISC Bangalore.
- International Conference on Photonics (Photonics-2016), during 4<sup>th</sup> & 8<sup>th</sup> December , 2016, Organized by IIT,Kanpur,India
- Work shop on Recent Advances in Optical Communication and Networks conducted on 29<sup>th</sup> May 2017 at Karnataka State Higher Education Council (KSHEC),Palace Road, Bangalore
- IEEE Work shop on Recent Advances on Photonics (WRAP-2017) conducted during 18<sup>th</sup> -19<sup>th</sup> December 2017 at Mahindra Ecole Centrale, Hyderabad, India.
- Work shop on Virtual Labs Under the National Mission on Education through ICT(MHRD , Govt. of India ) during 5<sup>th</sup> and 6<sup>th</sup> April 2018 conducted by Dayananda Sagar University, Bangalore
- TEQIP Sponsored Workshop on Professional and Academic Quality in Engineering Courses on 23<sup>rd</sup> April. 2018 held at Malnad College of Engineering , Hassan .
- One week Faculty Development Programme on Recent MEMS & MOEMS held during 30<sup>th</sup> April and 04<sup>th</sup> May . 2018 at MCE Hassan Under TEQIP III in association with IEEE Photonic society Bangalore Chapter, organized by Dept. of E&C, MCE, Hassan
- One week Faculty Development Programme on Recent Developments in Solar &Wind Energy System for On/Off Grid Application held during 9<sup>th</sup> and 13<sup>th</sup> July . 2018 at MCE Hassan Under TEQIP III, organized by Dept. of E&E, MCE, Hassan
- Summer School in Optics and Photonics held during 25<sup>th</sup> and 28<sup>th</sup> July . 2018 , at IISc Bangalore, Organized ECE Department, IISc Bangalore.
- Workshop on IEEE Smart Tech 2018,held during 3<sup>rd</sup> and 4<sup>th</sup> Aug 2018 at Sterlings Mac Hotel Bangalore, Organized by IEEE Bangalore Section.
- Swayam course on Leadership completed during 27Aug 2018-23Sept 2018.
- Training on Disaster Management and CPR, held on 14<sup>th</sup> October 2018 at UVCE Bangalore, Organized by IEEE Bangalore Section.
- Workshop on IEEE Future Directions in Technology & The Sixth Wave of Innovation ,held during 23<sup>rd</sup> October 2018 at ,ECE Dept. IISc ,Bangalore, Organized by IEEE –HKN Student Branch, IISc ,Bangalore .
- One week Faculty Development Programme on Recent Advances in Communication & Photonics held during 8<sup>th</sup> and 12<sup>th</sup> July . 2019 at Veer Bahadur Singh Purvanchal University (Uma Nath Singh Institute of Engineering and Technology) Jaunpur , Uttar Pradesh Under TEQIP III, organized by Dept. of E&C, VBSPU(UNSIET) Jaunpur , UP.

- Workshop on IEEE Tech Day-2 and Branch Counselor Meet-2 held on 24th August 2019 at Maharaja Institute of Technology, Mysore Organized by IEEE –Bangalore Section ,Bangalore .
- IEEE Region 10 Sponsored Conference Organizers Workshop(COEW) organized by IEEE Bangalore Section at Sterling Mac Hotel ,Bangalore on 19th October 2019.
- IEEE Work shop on Recent Advances on Photonics (WRAP-2019) conducted during 13<sup>th</sup> -14<sup>th</sup> December 2019 at IIT Guwahati, Assam, India.
- International Conference on Lasers and Electro-optics (CLEO-20) conducted during 11<sup>th</sup> -15<sup>th</sup> May 2020,Co Sponsored by American Physical Society(APS) ,Laser Science Division, IEEE Photonic Society and Optical Society of America (OSA) at USA.
- One day National Webinar on Artificial Intelligence and Emerging Technologies held on 18<sup>th</sup> May 2020,Organised by Department of Computer Science and IQAC, Government First Grade College, Vijayanagar , Bangalore,India.
- IEEE Webinar Series by Women Leaders, held during 25<sup>th</sup> and 29<sup>th</sup> May 2020,Organised by IEEE Bangalore Section, Bangalore, India.
- Webinar Series on Telemedicine, IOT and Nanoscience held during 10<sup>th</sup> and 12<sup>th</sup> June 2020,Organised. by GSSSIETW IEEE Student Branch , Mysore in association with IEEE Bangalore Section, Bangalore.
- Webinar Century of Quantum Mechanics and Still Going Strong held during 15<sup>th</sup> and 17<sup>th</sup> June 2020, Jointly Organized by Applied Physics Department , Faculty of Technology and Engineering , The Maharaja Sayajirao University of Baroda (MSUB) , Gujarat Science Academy(GSA),Indian Physics Association (IPA),Baroda ,Baroda Chapter and Indian Association of Physics Teachers(IAPT-RC7) in association with National Academy of Sciences India(NASI) Delhi Chapter, India.
- International Webinar on Health and Fitness in Post COVID Status held on 31<sup>st</sup> October 2020,Organised by Department of Physical Education and IQAC, Government First Grade College, Vijayanagar , Bangalore,India.
- International conference on Recent Trends in Computer Science and Electronics RTCSE-2021 during 5<sup>th</sup> and 7<sup>th</sup> Jan 2021 at University of Hawaii, USA.
- Five days FDP on Innovative Teaching And Research in Science: Exploring The New Horizons, during 10th & 15th June , 2021, Organized by Science Forum in Association with IQAC, Government First Grade College,Vijayanagar, Karnataka
- Five days FDP on Recent Trends in Photonics , during 14th & 19th June , 2021, Organized by Dept. of ECE , Oxford College Engineering ,Bangalore , India.

- Seminar on photonics conducted on behalf of International Day of Light, from Indian Institute of Science, Bangalore on 14th May 2022 under applied photonics initiative.

### **Conference/ Seminars conducted**

Coordinator for

- One day symposium sponsored by TEQIP on Broadband Communication, April 15<sup>th</sup> 2006 for Engineers and scientists
- Two day workshop on “Practical aspects of broadband and mobile communication” Conducted during May 22-23 2009, Sponsored by IEEE Bangalore section
- One day IEEE colloquium on “Optical fibers and applications” Conducted on 23 – 10 – 2009 at M.C.E, Hassan, Sponsored by IEEE Bangalore section
- Two day “IEEE annual Technical event 2009” Conducted during 13<sup>th</sup> & 14<sup>th</sup> Nov 2009 at M.C.E, Hassan, Sponsored by IEEE Bangalore section
- One day Work shop on” circuit building using PCB” during 27<sup>th</sup> March 2011, Sponsored by IEEE Bangalore section.
- One day Work shop on” Microcontrollers” during 9th October 2011, Sponsored by IEEE Bangalore section.
- Two day “IEEE annual Technical event 2010” Conducted during 13th & 14th Nov 2010 at M.C.E, Hassan, Sponsored by IEEE Bangalore section.
- Two day “IEEE annual Technical event 2011” Conducted during 13th & 14th Nov 2011 at M.C.E, Hassan, Sponsored by IEEE Bangalore section.
- Two day “IEEE annual Technical event Explore 2012” Conducted during 22nd & 23th sept. 2012 at M.C.E, Hassan, Sponsored by IEEE Bangalore section
- Two day Work shop on” Network Simulator-QUALNET” during 13th & 14th March 2013, Sponsored by IEEE Bangalore section.
- Two day Work shop on” Network Simulator-Net Sim ” during 2<sup>nd</sup> & 3<sup>rd</sup> March 2013, Sponsored by IEEE Bangalore section.
- One day Work shop on” Optical fiber splicing and measurements” during 19<sup>th</sup> April, 2013, Sponsored by IEEE Bangalore section and BSNL Hassan.
- Two day Work shop on “Recent advances in mechatronics engineering and its applications ” during 30<sup>th</sup> & 31<sup>st</sup> May 2013, Sponsored by TEQIP II.
- Two day Work shop on “Emerging trends in Optical Communication & Optical Engineering ” during 3<sup>rd</sup> & 4<sup>st</sup> June 2013, Sponsored by TEQIP II.
- Two day Work shop on” Robotics and communication” during 28<sup>th</sup> & 29<sup>th</sup> April 2014, Sponsored by IEEE Bangalore section.
- One week Faculty Development on Recent Technological Innovations in Optical Engineering (14<sup>TH</sup> TO 18<sup>TH</sup> JULY, 2014) , Sponsored by TEQIP-II and technically cosponsored by IEEE Photonic society (USA),Karnataka section. Conducted at MCE,Hassan.
- One day Work shop on “ India’s achievement in space technology and social development in technical education” on 16<sup>th</sup> October , 2014, Sponsored by Malnad College of Engineering ,Hassan.

- One day Work shop on “Hands-on experience on ANSYS HFSS EM Simulator” Conducted on 21st Oct 2014.
- Two Days Workshop on "UAV and Quad copter Design” Conducted on 15th & 16th Nov 2014.
- Two Days workshop on “Introduction To NETSIM” conducted on 20<sup>th</sup> and 21<sup>st</sup> Feb 2015.
- Two Days workshop on “Recent Trends in Antenna Research and Communication Technology” Sponsored by TEQIP-II on 6<sup>th</sup> and 7<sup>th</sup> April 2015.
- One day Work shop on “ Ethical Hacking ” on 8<sup>th</sup> Nov 2015, Conducted by IEEE MCE Student branch, Sponsored by IEEE Bangalore section.
- IEEE workshop on "Biological Sciences " by Dr. Raul H. Marin and Dr. Raquel M. Gleiser on 18/11/2015 conducted by IEEE MCE Student Branch.
- IEEE workshop on "Recent advances on Antennas " by Dr. Koushik Datta , Nethaji Subhash Engineering College, Kolkata on 18/02/2016 conducted by IEEE MCE Student Branch.
- IEEE workshop on "Recent advances in Internet of Things " by Parag Chatterjee, Ballsbridge University, Argentina on 21/03/2016 conducted by IEEE MCE Student Branch.
- IEEE workshop on "High speed optical networks " by Sanjay, SDE, BSNL, Hassan, on 12/05/2016 conducted by IEEE MCE Student Branch.
- IEEE workshop on "Glimpses of Indian Spacecraft Technology " by B.K. Venkataramu, Dr. Satheesh Dhavan Scientist, ISRO, Bangalore on 06/10/2016 conducted by IEEE MCE Student Branch.
- IEEE workshop on "Missile Technology " by Dr. Varaprasad, Former Director, RCI, Hyderabad on 28/10/2016 conducted by IEEE MCE Student Branch.
- One day Work shop on “MOEMS and Applications ” during 18<sup>th</sup> March 2017, Sponsored by TEQIP II.
- One day Work shop on “High Speed Optical Networks” on 21<sup>st</sup> March 2017, Sponsored by TEQIP II.
- One day Work shop on “ Nano Photonics” on 7<sup>th</sup> September 2018, At Mahendra Engineering College, Salem ,Tamilnadu, Sponsored by IEEE Bangalore section
- IEEE Day 2018 on 12/10/2018 conducted by IEEE MCE Student Branch.
- IEEE workshop on “Recent Innovative Technologies in Communication” Sponsored by TEQIP-III on 13th October 2018.
- Two days workshop on “Next Generation Optical Communication Systems ” Sponsored by TEQIP-III ,and technically sponsored by IEEE Photonic society, Bangalore Chapter during 12<sup>th</sup> & 13<sup>th</sup> November 2018 at MCE Hassan.
- One week Faculty Development on Recent Advances in Photonics (3rd to 8th Dec, 2018) , Sponsored by TEQIP-III and technically cosponsored by IEEE Photonic society (USA), India Chapter. Conducted at Jorhat

Engineering College, Jorhat, Assam, A Twinning program with MCE Hassan.

- IEEE One Day Hands-on Workshop and Talk on "OFC Systems and Measurements" Sponsored by IEEE Bangalore Section conducted by IEEE MCE Student Branch on 30th April 2019 at MCE Hassan.
- One week Faculty Development Programme on Recent Advances in Communication & Photonics, Sponsored by TEQIP –III and technically cosponsored by IEEE Photonic Society(USA), India Chapter, held during 8th and 12th July, 2019 at Veer Bahadur Singh Purvanchal University (Uma Nath Singh Institute of Engineering and Technology) Jaunpur, Uttar Pradesh, organized by Dept. of E&C, VBSPU(UNSIET) Jaunpur, UP.
- Three days “Hands-on Training on Photonic Sensor Simulation Tools” Sponsored by TEQIP-III, and technical Co-sponsored by IEEE Photonic society, Bangalore Chapter during 3<sup>rd</sup> & 5<sup>th</sup> October 2019 at MCE Hassan.
- International Webinar on Photonics for India: Opportunities and Challenges, By Dr Naresh Chand, Associate Vice President of Chapter Relations, IEEE Photonic Society, USA, held on 16<sup>th</sup> May 2020, Organised by Department of E&C, Malnad College of Engineering, Hassan, In association with IEEE MCE Joint Photonics and COMSOC Chapter and IEEE Photonic Initiative India.
- National Webinar on Narrow Linewidth Fiber Amplifiers for Coherent Beam Combination, By Dr Balaji Srinivas, Professor, Department of Electrical Engineering, IIT Madras held on 29<sup>th</sup> May 2020, Organised by Department of E&C, Malnad College of Engineering, Hassan, In association with IEEE MCE Joint Photonics and COMSOC Chapter, IEEE Photonic Society Calcutta University Student Chapter and IEEE Photonic Initiative India.
- International Webinar on Artificial Intelligence in Healthcare, By Prof. Parag Chatterjee Researcher at National Technological University, Buenos Aires, Argentina, Assistant Professor at Department of Biological Engineering, University of the Republic, URUGUAY on 30<sup>th</sup> May 2020, Organised by Department of E&C, Malnad College of Engineering, Hassan, In association with IEEE MCE Joint Photonics and COMSOC Chapter, and IEEE Photonic Initiative India.
- International Webinar on Purify a Survey : Reliability and Construct Validity, By Dr. Said El Hajjar, Professor College of Arts, Science and Education, University in Lebanon (Formerly with Alia University Bahrain) on 26<sup>th</sup> June 2020, Organised by Department of E&C, Malnad College of Engineering, Hassan, In association with IEEE MCE Student Branch, Hassan.
- 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 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 17th 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 22nd 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 24nd 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 28th 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 4nd 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 19th June 2021, Organised by IEEE MCE Student Branch , In association with IEEE Bangalore Section and IEEE Mysore Subsection.
- One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 28th May 2022 at E&C Department , Malnad college of engineering Hassan.
- Organized placement preparation Program on 2<sup>nd</sup> & 4<sup>th</sup> September 2022 in collaboration with Abhyuday IIT Bombay ,to spread placement education in India.
- IEEE Webinar on Optical nonlinearity of semiconductor amplifier and their application ,By Dr Niloy K Dutta ,Professor ,University of Connecticut, USA , held on 19<sup>th</sup> June 2023, Jointly organized by IEEE MCE Photonic Society Student Chapter , In association with IEEE Prakash Bharati India .
- IEEE Hands on Workshop on Photonics and Quantum Mechanics , held on 19<sup>th</sup> June 2023, Jointly organized by IEEE MCE Photonic Society Student Chapter and E&C Department ,Malnad College of Engineering,Hassan,Karnataka .
- IEEE MysuruCon 2023 3<sup>rd</sup> Edition of the Flagship International Conference Series of IEEE Mysuru Subsection in Association with IEEE Bangalore Section hosted by E&C Department, Malnad College of Hassan



,on Emerging Technologies for Smart cities conducted during 1<sup>st</sup> and 2<sup>nd</sup> December 2023.

- IEEE Hands on Workshop on VLSI Chip Designing , held on 16<sup>th</sup> February 2024, Jointly organized by IEEE MCE Student Branch and E&C Department in association with IEEE CEDA Bangalore Chapter ,Malnad College of Engineering,Hassan,Karnataka .

### **Invited talks**

- Optoelectronic Devices and their applications, Short Term Course on “Industrial Electronics ” During 5<sup>th</sup> and 14<sup>th</sup> August 1996 , Conducted by E&C Dept. MCE, Hassan, Sponsored by Director of Technical Education, Government of Karnataka.
- Current trends in photonics at Karnataka University, Dharwad on 12<sup>th</sup> Jan 2012 .
- Optical WDM networks at Karnataka University, Dharwad on 30<sup>th</sup> March 2013
- Recent trends in optical communication and optical networks, at MCE,Hassan on 3<sup>rd</sup> June 2013 .
- Survivability issues in WDM optical networks, at MCE,Hassan on 4<sup>th</sup> June 2013.
- Fiber optics based LASER application in Medicine on 7<sup>th</sup> June 2013 at The Oxford college of engineering ,Bangalore
- Recent advances in Optical Fiber Communication and Networks on 5<sup>th</sup> Sept. 2013 at BIET , Davangere.





- Biomedical Applications of LASER on 21<sup>st</sup> Sept. 2013 at Kuvempu University Shimoga.







- Survivability issues in WDM optical networks(Key note address- International Conference on Emerging Trends in Engineering and Technology) on 6<sup>th</sup> April 2014 at Bangalore
- LASERS in Medicine(Key note address- International Conference on Electronics, Communication ,Computer Science and Information Technology ) on 27<sup>th</sup> April 2014 at Bangalore
- Optical Communication (Key note address- International Conference on Emerging Trends in Engineering and Technology) on 18<sup>th</sup> May 2014 at Bangalore.
- Application of LASER (Key note address- International Conference on Emerging Trends in Engineering Technology) on 8<sup>th</sup> June 2014 at Bangalore.
- Recent Advances in Laser Technology (Key note address- International Conference on Emerging Trends in Engineering Technology) on 22<sup>nd</sup> June 2014 at Bangalore
- Medical Applications of LASER on 17<sup>st</sup> July. 2014 ,FDP on Recent Technological Innovations in Optical Engineering conducted by E&C Dept. MCE, Hassan .
- Survivability issues in optical WDM networks on 17<sup>st</sup> July. 2014 ,FDP on Recent Technological Innovations in Optical Engineering conducted by E&C Dept. MCE, Hassan
- Application of LASERS in Medicine on 9<sup>th</sup> September . 2014 , Short Term Training Program On Photonics, Optical Communication Systems and Networks ( 8-10, September, 2014) Organized by: Department of E&C Engineering & Department of Physics, National Institute of Technology Surathkal , Karnataka.
- Survivability Issues in Optical Networks on 9<sup>th</sup> September . 2014 , Short Term Training Program On Photonics, Optical Communication Systems and Networks ( 8-10, September, 2014)Organized by: Department of E&C Engineering & Department of Physics, National Institute of Technology , Surathkal ,Karnataka





- Optical Networks on 20<sup>th</sup> September . 2014 , Workshop on Optical Communication Systems and Networks ,Organized by: Department of E&C Engineering & Department of Electrical and Electronics, BMSIT, Bangalore



- Recent Advances in Optical Networks on 24<sup>th</sup> Nov 2014 at SJMIT, Chitradurga.
- Fault tolerant optical networks on 11<sup>th</sup> Feb. 2015 at VVIT , Mysore.
- Key note address on Nano Photonics on 2<sup>nd</sup> March . 2015 , Short Term Training Program On Embedded Systems & RTOS ( 2-13, March , 2015)Organized by: Department of E&C Engineering Govt. Polytechnic for Women,Hassan, Karnataka.
- High Performance Survivable Optical Networks on 27<sup>th</sup> April . 2015 , Workshop on Recent Advances in Optical Technology Organized by: Department of Electronics, PG, Center Hema Gangothri, University of Mysore, Hassan.



- Quantum Electronics (Key note address- International Conference on Emerging Trends in Engineering and Technology) on 10<sup>th</sup> May 2015 at Bangalore
- Nano Photonics (Key note address- International Conference on Emerging Trends in Engineering and Technology) on 17<sup>th</sup> May 2015 at Bangalore
- Nano-Photonics on 28<sup>th</sup> May 2015 at Proudhadavaraya Institute of Technology ,Hospet
- LASERS and It's Applications (Key note address- International Conference on Emerging Trends in Engineering and Technology) on 7<sup>th</sup> June2015 at Bangalore
- Medical Applications of Nano-Photonics (Key note address- International Conference on Emerging Trends in Engineering and Technology) on 9<sup>th</sup> Aug 2015 at Bangalore.
- Recent advances in Optical Networks on 18<sup>th</sup> Aug. 2015 at GEC , Kushalnagar.
- Research avenues in Photonics and Quantum Electronics on 29<sup>th</sup> Aug. 2015 ,IEEE Workshop on Recent Topics in Photonics conducted by GSSSIT Mysore and IEEE Photonics society Bangalore.





- Survivability Issues in Optical Networks on 30<sup>th</sup> Oct 2015 at SJBIT, Bangalore.



- Optical Networks on 5<sup>th</sup> Nov . 2015 , Technical Fest,E-Manthana, IEEE National Level Technical Paper Presentation ,Organized by: Department of E&C Engineering, AIT, Chikmagalore.





- Recent Advances in Optical Networks on 7<sup>th</sup> Nov . 2015 , Workshop on Nano - Photonics, Organized by: Department of E&C Engineering, VVIET, Mysuru.







- Nano Photonics on 5<sup>th</sup> December 2015 at KVG College of Engineering , Sullia.



- Optical Networks on 30<sup>th</sup> January 2016 at Alva's Institute of Engineering and Technology , Moodbidri, Dakshina Kannada.
- Photonic band gap crystals and its applications on 30<sup>th</sup> January 2016 at Alva's Institute of Engineering and Technology , Moodbidri, Dakshina Kannada.



- Quantum dots and its application in quantum computing on 30<sup>th</sup> January 2016 at Alva's Institute of Engineering and Technology , Moodbidri, Dakshina Kannada.
- Recent Advances in Optical Networks on 4<sup>th</sup> March . 2016 , Workshop on Recent Advances in Quantum and Optical Engineering ,Organized by: Dept. of E&C, DMI College of engineering ,Palanchur, Kancheepuram, Tamilnadu
- Recent Advances in Quantum Photonics on 4<sup>th</sup> March . 2016 , Workshop on Recent Advances in Quantum and Optical Engineering ,Organized by: Dept. of E&C, DMI College of engineering ,Palanchur,Kancheepuram, Tamilnadu.



- Recent Advances in Photonic Band gap Crystals on 4<sup>th</sup> March . 2016 , Workshop on Recent Advances in Quantum and Optical Engineering

,Organized by: Dept. of E&C, DMI College of engineering ,Palanchur,Kancheepuram, Tamilnadu.



- Recent advances in LASER Technology on 19<sup>th</sup> March . 2016 , Workshop on Nanophotonis ,Organized by: Dept. of E&C, Annamacharaya college of Technology and Sciences, Venkatapuram(Village), Renigunta(Mandal) Chittoor District ,Andra Pradesh.



- Quantum Electronics on 19<sup>th</sup> March . 2016 , Workshop on Nanophotonis ,Organized by: Dept. of E&C, Annamacharaya college of Technology and Sciences, ,Venkatapuram(Village), Renigunta(Mandal) Chittoor District ,Andra Pradesh.







- Photonic Band Gap Crystals on 19<sup>th</sup> March . 2016 , Workshop on Nanophotonics ,Organized by: Dept. of E&C, Annamacharya college of Technology and Sciences, Venkatapuram(Village), Renigunta(Mandal) Chittoor District ,Andra Pradesh.



- Key note address on Recent Advances Optical Networks on 18<sup>th</sup> March . 2016, at International Conference On Internet Things & Applications for Smart City-2k16 (ICIOTAS-16),Organized by:Dept. of E&C, Annamacharaya college of Technology and Sciences,Venkatapuram(Village), Renigunta(Mandal) Chittoor District ,Andra Pradesh.



- Quantum Photonics (Key note address- International Conference on Advances in Engineering, Science and Technology) on 17<sup>th</sup> April 2016 at Bangalore.
- Survivable Optical Networks on 21<sup>st</sup> April 2016 , IEEE Sponsored National Workshop on Micro/Nano Devices, Circuits and Systems, Organized by: Dept. of E&C, School of Engineering and Technology, Jain University Bangalore.



- Medical Applications of LASER on 7<sup>th</sup> May 2016 , IEEE Sponsored National Workshop on MOEMS, Quantum Photonics and Optical Networks, Organized by: Dept. of E&C, Proudhavevaraya Institute of Technology ,Hospet



- Optical Communications on 7<sup>th</sup> May 2016 , IEEE Sponsored National Workshop on MOEMS, Quantum Photonics and Optical Networks, Organized by: Dept. of E&C, Proudhadavaraya Institute of Technology ,Hospet



## ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನದಿಂದ ಆಪ್ಟಿಕಲ್ ಫೈಬರ್ ಕೇಬಲ್ ಪ್ರಚಲಿತ

■ 'ಕ್ವಾಂಟಮ್ ಮೋಟಾರ್ಸ್ ನೆಟ್ವರ್ಕ್' ವಿಷಯದ ಕುರಿತು ವಿವರಿಸಲಾಗಿದೆ ಒಂದು ದಿನದ ರಾಷ್ಟ್ರೀಯ ವಿಚಾರ ಸಂಕರಣದಲ್ಲಿ ಸಂಪನ್ಮೂಲ ವ್ಯಕ್ತಿಯಾಗಿ ಮಾತನಾಡಿದ ಅವರು, 1966 ರಲ್ಲಿ ಥಿಯೋಡರ್ ಮೈಮಾನ್ ಎಂಬಾತ ರೂಪು ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನವನ್ನು ಕಂಡುಹಿಡಿದರು. ನಂತರದ ದಿನಗಳಲ್ಲಿ ಇದೇ ತಂತ್ರಜ್ಞಾನ ಸಾಕಷ್ಟು ಅಭಿವೃದ್ಧಿಗೊಂಡು ಇತ್ತೀಚಿನ ದಿನಗಳಲ್ಲಿ ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನವನ್ನು ಹೆಚ್ಚಾಗಿ ಬಳಸಲಾಗುತ್ತಿದೆ. ಅದರಲ್ಲೂ ಆರೋಗ್ಯ ಮತ್ತು ರಕ್ಷಣಾ ಕ್ಷೇತ್ರದಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನದಿಂದ ಕಾಂಕ್ರಿಟ್ ಕಾರ್ಯ ಬದಲಾವಣೆಗಳಾಗಿವೆ. ಆರೋಗ್ಯ ಕ್ಷೇತ್ರದಲ್ಲಿ ಹಲವು ಕ್ಷಿಪ್ರಕರ ಶಸ್ತ್ರಚಿಕಿತ್ಸೆಗಳಿಗೆ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಲಾಗುತ್ತಿದೆ. ಈ ಕುರಿತು ತೀವ್ರ ಶಸ್ತ್ರಚಿಕಿತ್ಸೆ ಮೂಲಕ ಪರೀಕ್ಷಿಸಿದಾಗಲೂ, ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನದಿಂದ ಅತ್ಯಂತ ಸುಲಭ ಮತ್ತು ರೋಗಿಗೆ ಹೆಚ್ಚು ನೋವಿಲ್ಲದೆ ಮಾಡಬಹುದಾಗಿದೆ.

ಇನ್ನು ರಕ್ಷಣಾ ಕ್ಷೇತ್ರದಲ್ಲಿ ಅತ್ಯಂತ ಪರಿಣಾಮಕಾರಿ-ವಿಯಾಗಿ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಿಕೊಳ್ಳಲಾಗುತ್ತಿದೆ. ಗಡಿ ರಕ್ಷಣೆಯಲ್ಲಿ ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚು ಬಳಕೆಯಾಗುತ್ತಿದೆ. ಮಾನವ ಶಕ್ತಿ ಇಲ್ಲದಿದ್ದರೂ ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನದ ಬಳಕೆಯಿಂದ ಗಡಿಗಳಲ್ಲಿ ಅತ್ಯಂತ ನುಸುಳುವಿಕೆಯನ್ನು ತಡೆಗಟ್ಟಬಹುದಾಗಿದೆ ಎಂದರು. ಇನ್ನು ಬ್ಯಾಂಕ್ ಗಳು, ಸಂಕೋಧನಾ ಕೇಂದ್ರಗಳು ಸೇರಿದಂತೆ ಹಲವು ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ರಕ್ಷಣಾ ವ್ಯವಸ್ಥೆಗಾಗಿ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಲಾಗುತ್ತಿದೆ.

ವೈಮಾನಿಕ ಕ್ಷೇತ್ರದಲ್ಲಿಯೂ ಈ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚು ಉಪಯೋಗ ಮಾಡುತ್ತಿದ್ದು, ವಿಮಾನಗಳು ಮತ್ತು ಯುದ್ಧ ವಿಮಾನಗಳಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನ ಅಳವಡಿಕೆಯಿಂದ ವಿಮಾನಗಳ ನಡುವಿನ ಅಂತರ ಹಾಗೂ ಶತ್ರು ವಿಮಾನಗಳನ್ನು ಗುರುತಿಸುವಲ್ಲಿ ಉಪಯೋಗವಾಗುತ್ತದೆ ಎಂದರು. ಸಂಸ್ಥೆಯ ಅಧ್ಯಕ್ಷರಾದ ಗೋನಾಳ್ ಪಿ.ಸಿ.ಶೀಕಾಂತ್ ಅವರನ್ನು ಸನ್ಮಾನಿಸಿದರು. ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಕಿವಕುಮಾರ್, ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಮತ್ತು ಕಮ್ಯುನಿಕೇಷನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ.ರೋಹಿತ್, ವಿಟಿಯು ಪ್ರೊಫೆಸರ್ ಡಾ.ಇಂದ್ರಮತಿ, ರಂಗಲೂರಿಕ ಜೈನ್ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಡಾ.ವೈಭವ್ ಹಾಗೂ ಇತರರು ಇದ್ದರು.

ಫೋರ್ಬಾನ್ ನಿತ್ ಆಪ್ಟಿಕಲ್ ನೆಟ್ವರ್ಕ್ ವಿಷಯದ ಕುರಿತು ವಿವರಿಸಲಾಗಿದೆ ಒಂದು ದಿನದ ರಾಷ್ಟ್ರೀಯ ವಿಚಾರ ಸಂಕರಣದಲ್ಲಿ ಸಂಪನ್ಮೂಲ ವ್ಯಕ್ತಿಯಾಗಿ ಮಾತನಾಡಿದ ಅವರು, 1966 ರಲ್ಲಿ ಥಿಯೋಡರ್ ಮೈಮಾನ್ ಎಂಬಾತ ರೂಪು ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನವನ್ನು ಕಂಡುಹಿಡಿದರು. ನಂತರದ ದಿನಗಳಲ್ಲಿ ಇದೇ ತಂತ್ರಜ್ಞಾನ ಸಾಕಷ್ಟು ಅಭಿವೃದ್ಧಿಗೊಂಡು ಇತ್ತೀಚಿನ ದಿನಗಳಲ್ಲಿ ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನವನ್ನು ಹೆಚ್ಚಾಗಿ ಬಳಸಲಾಗುತ್ತಿದೆ. ಅದರಲ್ಲೂ ಆರೋಗ್ಯ ಮತ್ತು ರಕ್ಷಣಾ ಕ್ಷೇತ್ರದಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನದಿಂದ ಕಾಂಕ್ರಿಟ್ ಕಾರ್ಯ ಬದಲಾವಣೆಗಳಾಗಿವೆ. ಆರೋಗ್ಯ ಕ್ಷೇತ್ರದಲ್ಲಿ ಹಲವು ಕ್ಷಿಪ್ರಕರ ಶಸ್ತ್ರಚಿಕಿತ್ಸೆಗಳಿಗೆ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಲಾಗುತ್ತಿದೆ. ಈ ಕುರಿತು ತೀವ್ರ ಶಸ್ತ್ರಚಿಕಿತ್ಸೆ ಮೂಲಕ ಪರೀಕ್ಷಿಸಿದಾಗಲೂ, ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನದಿಂದ ಅತ್ಯಂತ ಸುಲಭ ಮತ್ತು ರೋಗಿಗೆ ಹೆಚ್ಚು ನೋವಿಲ್ಲದೆ ಮಾಡಬಹುದಾಗಿದೆ.

ಇನ್ನು ರಕ್ಷಣಾ ಕ್ಷೇತ್ರದಲ್ಲಿ ಅತ್ಯಂತ ಪರಿಣಾಮಕಾರಿ-ವಿಯಾಗಿ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಿಕೊಳ್ಳಲಾಗುತ್ತಿದೆ. ಗಡಿ ರಕ್ಷಣೆಯಲ್ಲಿ ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚು ಬಳಕೆಯಾಗುತ್ತಿದೆ. ಮಾನವ ಶಕ್ತಿ ಇಲ್ಲದಿದ್ದರೂ ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನದ ಬಳಕೆಯಿಂದ ಗಡಿಗಳಲ್ಲಿ ಅತ್ಯಂತ ನುಸುಳುವಿಕೆಯನ್ನು ತಡೆಗಟ್ಟಬಹುದಾಗಿದೆ ಎಂದರು. ಇನ್ನು ಬ್ಯಾಂಕ್ ಗಳು, ಸಂಕೋಧನಾ ಕೇಂದ್ರಗಳು ಸೇರಿದಂತೆ ಹಲವು ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ರಕ್ಷಣಾ ವ್ಯವಸ್ಥೆಗಾಗಿ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಲಾಗುತ್ತಿದೆ.

ವೈಮಾನಿಕ ಕ್ಷೇತ್ರದಲ್ಲಿಯೂ ಈ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚು ಉಪಯೋಗ ಮಾಡುತ್ತಿದ್ದು, ವಿಮಾನಗಳು ಮತ್ತು ಯುದ್ಧ ವಿಮಾನಗಳಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನ ಅಳವಡಿಕೆಯಿಂದ ವಿಮಾನಗಳ ನಡುವಿನ ಅಂತರ ಹಾಗೂ ಶತ್ರು ವಿಮಾನಗಳನ್ನು ಗುರುತಿಸುವಲ್ಲಿ ಉಪಯೋಗವಾಗುತ್ತದೆ ಎಂದರು. ಸಂಸ್ಥೆಯ ಅಧ್ಯಕ್ಷರಾದ ಗೋನಾಳ್ ಪಿ.ಸಿ.ಶೀಕಾಂತ್ ಅವರನ್ನು ಸನ್ಮಾನಿಸಿದರು. ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಕಿವಕುಮಾರ್, ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಮತ್ತು ಕಮ್ಯುನಿಕೇಷನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ.ರೋಹಿತ್, ವಿಟಿಯು ಪ್ರೊಫೆಸರ್ ಡಾ.ಇಂದ್ರಮತಿ, ರಂಗಲೂರಿಕ ಜೈನ್ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಡಾ.ವೈಭವ್ ಹಾಗೂ ಇತರರು ಇದ್ದರು.

ಮತ್ತು ರೋಗಿಗೆ ಹೆಚ್ಚು ನೋವಿಲ್ಲದೆ ಮಾಡಬಹುದಾಗಿದೆ.

ಇನ್ನು ರಕ್ಷಣಾ ಕ್ಷೇತ್ರದಲ್ಲಿ ಅತ್ಯಂತ ಪರಿಣಾಮಕಾರಿ-ವಿಯಾಗಿ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಿಕೊಳ್ಳಲಾಗುತ್ತಿದೆ. ಗಡಿ ರಕ್ಷಣೆಯಲ್ಲಿ ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚು ಬಳಕೆಯಾಗುತ್ತಿದೆ. ಮಾನವ ಶಕ್ತಿ ಇಲ್ಲದಿದ್ದರೂ ಲೇಸರ್ ತಂತ್ರಜ್ಞಾನದ ಬಳಕೆಯಿಂದ ಗಡಿಗಳಲ್ಲಿ ಅತ್ಯಂತ ನುಸುಳುವಿಕೆಯನ್ನು ತಡೆಗಟ್ಟಬಹುದಾಗಿದೆ ಎಂದರು. ಇನ್ನು ಬ್ಯಾಂಕ್ ಗಳು, ಸಂಕೋಧನಾ ಕೇಂದ್ರಗಳು ಸೇರಿದಂತೆ ಹಲವು ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ರಕ್ಷಣಾ ವ್ಯವಸ್ಥೆಗಾಗಿ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಲಾಗುತ್ತಿದೆ.

ವೈಮಾನಿಕ ಕ್ಷೇತ್ರದಲ್ಲಿಯೂ ಈ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚು ಉಪಯೋಗ ಮಾಡುತ್ತಿದ್ದು, ವಿಮಾನಗಳು ಮತ್ತು ಯುದ್ಧ ವಿಮಾನಗಳಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನ ಅಳವಡಿಕೆಯಿಂದ ವಿಮಾನಗಳ ನಡುವಿನ ಅಂತರ ಹಾಗೂ ಶತ್ರು ವಿಮಾನಗಳನ್ನು ಗುರುತಿಸುವಲ್ಲಿ ಉಪಯೋಗವಾಗುತ್ತದೆ ಎಂದರು. ಸಂಸ್ಥೆಯ ಅಧ್ಯಕ್ಷರಾದ ಗೋನಾಳ್ ಪಿ.ಸಿ.ಶೀಕಾಂತ್ ಅವರನ್ನು ಸನ್ಮಾನಿಸಿದರು. ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಕಿವಕುಮಾರ್, ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಮತ್ತು ಕಮ್ಯುನಿಕೇಷನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ.ರೋಹಿತ್, ವಿಟಿಯು ಪ್ರೊಫೆಸರ್ ಡಾ.ಇಂದ್ರಮತಿ, ರಂಗಲೂರಿಕ ಜೈನ್ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಡಾ.ವೈಭವ್ ಹಾಗೂ ಇತರರು ಇದ್ದರು.

ಡಾ.ಪಿ.ಸಿ.ಶೀಕಾಂತ್ ಅವರನ್ನು ಸನ್ಮಾನಿಸುತ್ತಿರುವುದು.



- Free Space Optics on 7<sup>th</sup> May 2016 , IEEE Sponsored National Workshop on MOEMS, Quantum Photonics and Optical Networks, Organized by: Dept. of E&C, Proudhavevaraya Institute of Technology ,Hospet



- Key note address on “Survivable Optical Networks” on 18<sup>th</sup> & 19<sup>th</sup> May . 2016, at International Conference On Signal Processing, Communication and Computational Research (ICSPCCR-2016), Organized by Dept. of E&C, Vidya Vikas Institute of Engineering and Technology,Mysore,India



## ವಿದ್ಯಾರ್ಥಿಗಳು ಹೆಚ್ಚಿನ ಸಂಶೋಧನೆಯಲ್ಲಿ ತೊಡಗಲು ಸಲಹೆ

■ ಇತ್ತೀಚೆಗೆ ತಂತ್ರಜ್ಞಾನಕ್ಕೆ ಇನ್ನಷ್ಟು ಸಾಕಷ್ಟು ಆಸಕ್ತಿ  
■ ಕಾಲಕ್ಕೆ ತಕ್ಕಂತೆ ಉನ್ನತೀಕರಣವಾಗಬೇಕು



**ಮಾಸ**  
ಆಪ್ತರ ವೈಯಕ್ತಿಕ ತಂತ್ರಜ್ಞಾನ ಅಭಿವೃದ್ಧಿಯಾದ ದಿನಗಳಿಂದಲೂ ಆಯಾ ಕಾಲಘಟ್ಟಕ್ಕೆ ತಕ್ಕಂತೆ ಮಾಹಿತಿಗಾಗಿ ಬಂದಿದೆ. ಆದರೆ ಈ ಸಂದರ್ಭದಲ್ಲಿ ಆಪ್ತರ ವೈಯಕ್ತಿಕ ತಂತ್ರಜ್ಞಾನದಿಂದ ಸಾಕಷ್ಟು ಪ್ರಯೋಜನವಾಗುತ್ತಿದೆ. ಆದರೆ, ಈ ನಿಟ್ಟಿನಲ್ಲಿ ಇನ್ನಷ್ಟು ಕ್ರಾಂತಿಕಾರಕ ಅಭಿವೃದ್ಧಿಗಳಾಗಬೇಕೆಂದು ವಿದ್ಯಾರ್ಥಿಗಳು ಹೆಚ್ಚಿನ ಸಂಶೋಧನೆಯಲ್ಲಿ ತೊಡಗುವಂತೆ ನಗರದ ಮಲ್ಟಿಮೀಡಿಯಂ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಧ್ಯಾಪಕ ಡಾ.ಪಿ.ಪಿ.ಕಾಂತ್ ಹೇಳಿದ್ದಾರೆ.

ಇತ್ತೀಚೆಗೆ ಮೈಸೂರಿನ ವಿದ್ಯಾವಿಕಾಸ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ 'ಸಿಗ್ನಲ್ ಪ್ರೊಸೆಸಿಂಗ್ ಕಮ್ಯುನಿಕೇಷನ್ ಆಂಡ್ ಕಂಪ್ಯೂಟೇಷನ್ ರಿಸರ್ಚ್' ಎಂಬ

ವಿಷಯದ ಕುರಿತು ನಡೆದ ಅಂತಾರಾಷ್ಟ್ರೀಯ ವಿಚಾರ ಸಂಕೀರ್ಣದಲ್ಲಿ ವಿಚಾರ ಮಂಡಿಸಿದ ಉನ್ನತೀಕರಣವಾಗಿದೆ. ಈ ನಿಟ್ಟಿನಲ್ಲಿ ಆಪ್ತರ ವೈಯಕ್ತಿಕ ತಂತ್ರಜ್ಞಾನ ಎನ್ನುವುದು ಸಾಕಷ್ಟು ವರ್ಷಗಳ ಹಿಂದೆಯೇ ಅಭಿವೃದ್ಧಿಯಾಗಿದ್ದರೂ ಇತ್ತೀಚಿನ ವರ್ಷಗಳಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನದ ಬೆಳವಣಿಗೆಯು ಹೆಚ್ಚಿನ ಬಳಕೆಗೆ ಬಂದಿದೆ. ಈ ಸಂದರ್ಭದಲ್ಲಿ ಸಾಕಷ್ಟು ತಂತ್ರಜ್ಞಾನ ತಮ್ಮ ಶ್ರಮ ಪಾಡಿದ್ದಾರೆ. ಆದರೆ ಮುಂದಿನ ದಿನಗಳಲ್ಲಿ ಇದೇ ತಂತ್ರಜ್ಞಾನ ಸಾಕಾರವಾಗಿದೆ.

ಈಗಾಗಲೇ ಆಪ್ತರ ವೈಯಕ್ತಿಕ ತಂತ್ರಜ್ಞಾನವನ್ನು ಆರೋಗ್ಯ ಮತ್ತು ರಕ್ಷಣಾ ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ಅತ್ಯಂತ ಪರಿಣಾಮಕಾರಿಯಾಗಿ

ಬಳಸಲಾಗುತ್ತಿದೆ. ಆರೋಗ್ಯ ಕ್ಷೇತ್ರದಲ್ಲಿ ಅತ್ಯಂತ ಕಠಿಣವಾದ ಶಸ್ತ್ರಚಿಕಿತ್ಸೆಗಳನ್ನು ಈ ತಂತ್ರಜ್ಞಾನದಿಂದ ಸುಲಭವಾಗಿ ಮಾಡಬಹುದಾಗಿದೆ. ಉದಾಹರಣೆಗೆ ಕಿಡ್ನಿಯಲ್ಲಿನ ಕಲ್ಲನ್ನು ಈ ಹಿಂದೆ ಶರೀರವನ್ನು ಕೊಯ್ದು ಮೂಲಕವೇ ಮಾಡಬೇಕಾಗಿತ್ತು. ಆದರೆ, ಆಪ್ತರ ವೈಯಕ್ತಿಕ ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ಈಗಲೇ ಶರೀರವನ್ನು ಮುರಿದು ಆ ಮೂಲಕ ವೈಯಕ್ತಿಕ ಕೊಯ್ಲಿನ ಅಭಿವೃದ್ಧಿ ಆಪ್ತರ ವೈಯಕ್ತಿಕ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಿ ಅತ್ಯಂತ ಸುಲಭ ಮತ್ತು ಕಡಿಮೆ ಅಪಾಯದಲ್ಲಿ ಶಸ್ತ್ರಚಿಕಿತ್ಸೆ ಮಾಡಿ ಮುಗಿಸಬಹುದಾಗಿದೆ. ಇದರಿಂದ ಶಸ್ತ್ರಚಿಕಿತ್ಸೆಗೆ ಒಳಗಾಗುವ ರೋಗಿಯ ದೇಹಕ್ಕೂ ಹೆಚ್ಚಿನ ಗಾಯಗಳಾಗುವುದಿಲ್ಲ.

ಇಂತಹ ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನ ಬಳಸಿ ಮಾಡುವ ಶಸ್ತ್ರಚಿಕಿತ್ಸೆಯಿಂದ ರೋಗಿಯೂ ಅತ್ಯಂತ ಬೇಗನೆ ಚೇತರಿಸಿಕೊಳ್ಳುತ್ತಾರೆ. ಇನ್ನು ರಕ್ಷಣಾ ವ್ಯವಸ್ಥೆ ಮತ್ತು ದೂರ ಸಂವಹನ ಕ್ಷೇತ್ರದಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚು ಪರಿಣಾಮಕಾರಿಯಾಗಿ ಬಳಕೆಯಾಗುತ್ತಿದೆ ಎಂದು ವಿವರಿಸಿದರು. ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಯ ಕಾರ್ಯದರ್ಶಿ

ವಿಚಾರ ಸಂಕೀರ್ಣದಲ್ಲಿ ಕಾನೂನುಬಾಹಿರ ಹಿಂಸಾಚಾರದಿಂದಾಗಿ ಸರ್ಕಾರದಿಂದ ಸಾರ್ವಜನಿಕ ಸ್ಥಳಗಳಲ್ಲಿ ಈ ಸಂದರ್ಭದ ಕೋಮುಭಾವದಿಂದ ಬೆಂಗಳೂರಿನ ಜೈನ್ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕಾರ್ಯದರ್ಶಿ ಮೈಸೂರು, ಮುಖ್ಯಸ್ಥರಾದ ಹಾ.ಬೆಂಧು ಭಾಮಣಿ ಹಾಗೂ ಇತರರು

- Invited to give a talk on Biosensors at BIOMATSEN 2016 conducted by Gebze University ,Istanbul, Turkey during 1<sup>st</sup> and 3<sup>rd</sup> June 2016.
- Key note address on “High Speed Optical Networks” on 06<sup>th</sup> & 07<sup>th</sup> June . 2016, at International Conference On Applied Science Engineering and Technology (ICASET-2016), Organized by Sai Ram College of Engineering and Technology,Anekal, Bangalore,India









**ಪೋಟಾನಿಕ್ ತಂತ್ರಜ್ಞಾನದಿಂದ ರಕ್ಷಣಾ ಕ್ಷೇತ್ರದಲ್ಲಿ ಸುಧಾರಣೆ**



ಪತ್ರಿಕೆ ಮಾಡುವ ಚಿಕ್ಕದಾದ ಯಂತ್ರಕ್ಕೆ 25 ರೂ. ತೆರಬೇಕಾಗಿದೆ. ಅದರ, ಈ ತಂತ್ರಜ್ಞಾನದಿಂದ ತಯಾರಿಸಬಹುದಾದ ಉಪಕರಣ ಕೇವಲ 1 ರೂ.ಗೆ ಜನರಿಗೆ ಲಭ್ಯವಾಗುತ್ತದೆ ಎಂದರು.

ಕಾಲೇಜಿನ ಅಧ್ಯಕ್ಷರು ಹಾಗೂ ತೆಲುಗುದೇಶಂ ಪ್ರಕೃತ ರಾಜ್ಯ ಕಾರ್ಯದರ್ಶಿಯೂ ಆದ ಆರ್ತೋ ರಾಜು ಮಾತನಾಡುತ್ತಾ, ಹಾಲಿ ತಂತ್ರಜ್ಞಾನಗಳು ಬಹಳ ವೇಗವಾಗಿ ಬೆಳೆಯುತ್ತಿವೆ. ಕಾಲ ಬದಲಾದಂತೆಲ್ಲಾ ಆಯಾ ಕಾಲಘಟ್ಟಕ್ಕೆ ತಕ್ಕಂತೆ ತಂತ್ರಜ್ಞಾನ ಕ್ಷೇತ್ರದಲ್ಲಿ ಸಾಕಷ್ಟು ಬದಲಾವಣೆ ಆಗಬೇಕು. ಈಗಾಗಲೇ ಹಲವಾರು ಸಣ್ಣಮಟ್ಟ ರಾಷ್ಟ್ರಗಳು ಈ ನಿಟ್ಟಿನಲ್ಲಿ ಫಾರೀ ಮುನ್ನಡೆ ಸಾಧಿಸುತ್ತಿವೆ. ಆದರೆ, ನಮ್ಮಲ್ಲಿ ಇಂದಿಗೂ ಸಂಶೋಧನೆಗಳಿಗೆ ಹೆಚ್ಚಿನ ಪ್ರಾಶಸ್ತ್ಯ ಸಿಗುತ್ತಿಲ್ಲ. ಈ ನಿಟ್ಟಿನಲ್ಲಿ ಕೇಂದ್ರ ಸರ್ಕಾರ ಮತ್ತು ಆಯಾ ರಾಜ್ಯ ಸರ್ಕಾರಗಳು ಹೆಚ್ಚಿನ ಆದ್ಯತೆ ನೀಡುವಂತೆ ಮನವಿ ಮಾಡಿದರು.

ಇನ್ನೊಬ್ಬರು ಉಪ ನಿರ್ದೇಶಕ ವೆಂಕಟರಾಮು, ದುಬೈನ ಅಮಿತಿ ಯೂನಿವರ್ಸಿಟಿಯ ಡಾ.ಪಾನ್ ಸೆಲ್ವನ್, ಬೆಂಗಳೂರಿನ ಸಾಯರಾಂ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಡಾ.ವಿಜಯಕುಮಾರ್ ಹಾಗೂ ಇನ್ನಿತರಿದ್ದರು.

ಡಾ.ಪಿ.ಸಿ.ಶ್ರೀಕಾಂತ್ ಅವರನ್ನು ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಸನ್ಮಾನಿಸುತ್ತಿರುವುದು.

**ಹಾಸನ:** ಪೋಟಾನಿಕ್ ತಂತ್ರಜ್ಞಾನದ ಬಳಕೆಯಿಂದ ಮಿಲಿಟರಿ ಕ್ಷೇತ್ರದಲ್ಲಿ ಸಾಕಷ್ಟು ಕ್ರಾಂತಿಕಾರಿ ಬದಲಾವಣೆಗಳಾಗಿವೆ ಎಂದು ನಗರದ ಮಲೆನಾಡು ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಇ.ಆಂಡ್ ಸಿ. ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ.ಪಿ.ಸಿ.ಶ್ರೀಕಾಂತ್ ಹೇಳಿದ್ದಾರೆ.

ಇತ್ತೀಚೆಗೆ ಆಂಧ್ರಪ್ರದೇಶದ ಚಿತ್ತೂರಿನ ಸಿದ್ಧಾರ್ಥ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ 'ಎಂಜಿನಿಯರಿಂಗ್ ಕ್ಷೇತ್ರದಲ್ಲಿ ಸಂಶೋಧನೆ ಮೇಲಿರುವ ಸವಾಲುಗಳು' ಎಂಬ ವಿಷಯದ ಕುರಿತಂತೆ ನಡೆದ ಅಂತಾರಾಷ್ಟ್ರೀಯ ಮಟ್ಟದ ವಿಚಾರ ಸಂಕರಣ ಉದ್ಘಾಟಿಸಿ ಮಾತನಾಡಿದ ಅವರು, ಭವಿಷ್ಯದಲ್ಲಿ ಸಂಭವಿಸಬಹುದಾದ ಬಯೋವಾರ್ (ಜೈವಿಕ ಯುದ್ಧ) ನ್ನು ಎದುರಿಸಲು ಈ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚು ಉಪಯುಕ್ತವಾಗಿದೆ.

ಉದಾಹರಣೆಗೆ ಶತ್ರು ರಾಷ್ಟ್ರದವರು ನಮ್ಮ ರಾಷ್ಟ್ರದಲ್ಲಿ ರೋಗಾಣುಗಳನ್ನು ಹರಡುವ ಧಾಂಚ್‌ಗಳನ್ನು ಬಳಸಿದ ಸಂದರ್ಭದಲ್ಲಿ ಆ ರೋಗಾಣುಗಳು ಹರಡುವುದಕ್ಕೂ ಮುನ್ನವೇ ಈ ತಂತ್ರಜ್ಞಾನದಿಂದ ರಾಗಾಣುಗಳು ನಮ್ಮ ದೇಶವನ್ನು ಪ್ರವೇಶಿಸಿರುವುದನ್ನು ಪತ್ತೆಹಚ್ಚಬಹುದಾಗಿದೆ. ಇದರಿಂದ ಭವಿಷ್ಯದಲ್ಲಿ ಆಗಬಹುದಾದ ಸಾಂಕ್ರಾಮಿಕ ರೋಗಗಳನ್ನು ತಡೆಗಟ್ಟಬಹುದು ಎಂದರು. ಇನ್ನು ಈ ತಂತ್ರಜ್ಞಾನದಿಂದ ಬಾಬುಗಳ ಗುಣಮಟ್ಟ ಪರೀಕ್ಷೆ ಮಾಡಬಹುದು. ಹಾಗೆಯೇ ವೈದ್ಯಕೀಯ ಕ್ಷೇತ್ರದಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚು ಪರಿಣಾಮಕಾರಿಯಾಗಿ ಬಳಕೆಯಾಗುತ್ತಿದೆ. ರಕ್ತ ಮತ್ತು ಮೂತ್ರದಲ್ಲಿರುವ ಸೋಂಕುಗಳನ್ನು ಇದರಿಂದ ಪತ್ತೆ ಮಾಡಬಹುದು. ಹಾಲಿ ರಕ್ತದಲ್ಲಿರುವ ಸಕ್ಕರೆ ಅಂಶವನ್ನು

- Photonic Band Gap Crystals on 16<sup>th</sup> September . 2016 , Seminar on Nanophotonics ,Organized by: Dept. of E&C, Bhahubali College of Engineering and IEEE Photonic society, Bangalore Chapter, Shravanabelagola,Hassan.
- Quantum Dots on 16<sup>th</sup> September . 2016 , Seminar on Nanophotonics ,Organized by: Dept. of E&C, Bhahubali College of Engineering, and IEEE Photonic society, Bangalore Chapter, Shravanabelagola,Hassan.
- LASERS on 16<sup>th</sup> September . 2016 , Seminar on Nanophotonics ,Organized by: Dept. of E&C, Bhahubali College of Engineering, and IEEE Photonic society, Bangalore Chapter, Shravanabelagola,Hassan.





- Key note address on “Photonic Bandgap Crystals” on 18<sup>th</sup> & 19<sup>th</sup> October . 2016, at 2<sup>nd</sup> International Conference On Applied Science Engineering and Technology (ICASET-2016), Organized by Sweatha Institute of Technology and Science, Tirupati, Andra Pradesh, India.



- Quantum Computing on 19<sup>th</sup> October . 2016 , Workshop on Nanophotonis ,Organized by: Dept. of E&C, Sweatha Institute of Technology and Science, Tirupati, Andra Pradesh, India.



- Medical Applications of LASERS on 19<sup>th</sup> October . 2016 , Workshop on Nanophotonis ,Organized by: Dept. of E&C, Sweatha Institute of Technology and Science, Tirupati, Andra Pradesh, India.



- High Speed Optical Networks on 19<sup>th</sup> October . 2016 , Workshop on Nanophotonis ,Organized by: Dept. of E&C, Sweatha Institute of Technology and Science, Tirupati, Andra Pradesh, India.

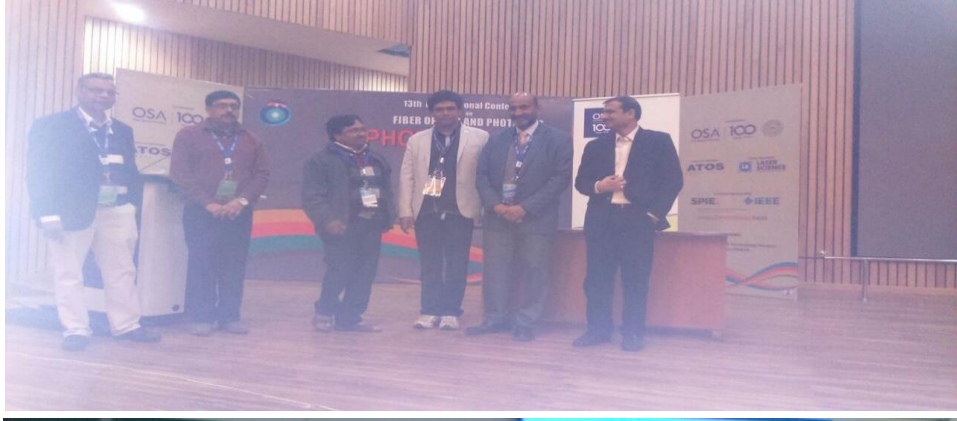


- Key note address on “Nano Photonics” on 10<sup>th</sup> & 11<sup>th</sup> November , 2016, at International Conference on Chip, Circuitry, Current, Coding, Combustion and Composites(i7C-2016), Organized by Sai Ram College of Engineering and Technology, Anekal, Bangalore, India



- Lab-on-Chip based Optical Biosensor for the application of dental fluorosis, on 4<sup>th</sup> & 8<sup>th</sup> December , 2016, at International Conference on Photonics (Photonics-2016), Organized by IIT,Kanpur, India





## ನ್ಯಾನೋ ತಂತ್ರಜ್ಞಾನದಿಂದ ಕ್ರಾಂತಿಕಾರಕ ಬದಲಾವಣೆ

**ಹಾಸನ:** ನ್ಯಾನೋ ತಂತ್ರಜ್ಞಾನದಿಂದಾಗಿ ಆರೋಗ್ಯ, ವಿಜ್ಞಾನ ಮತ್ತು ರಕ್ಷಣಾ ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ಕ್ರಾಂತಿಕಾರಕ ಬದಲಾವಣೆಗಳಾಗಿದೆ ಎಂದು ನಗರದ ಮಲ್ಲಾಡ್ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಧ್ಯಾಪಕ ಡಾ.ಪಿ.ಸಿ.ಶ್ರೀಕಾಂತ್ ತಿಳಿಸಿದರು.

ಇತ್ತೀಚೆಗೆ ಕಾನ್ಪುರದ ಐಐಟಿಯಲ್ಲಿ ನಡೆದ ಮೋಟಾರ್-2016 ಎಂಬ ಅಂತರಾಷ್ಟ್ರೀಯ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಮಾತನಾಡಿದ ಅವರು, ನ್ಯಾನೋ ಸೆನ್ಸಾರ್ ಮತ್ತು ಬಳಕೆಯ ಕುರಿತು ಮಾತನಾಡಿದರು. ಪ್ರಮುಖವಾಗಿ ಕುಡಿಯುವ ನೀರಿನಲ್ಲಿರುವ ಫ್ಲೋರೈಡ್ ಅಂಶವನ್ನು ಪತ್ತೆ ಮಾಡಲು ಈ ತಂತ್ರಜ್ಞಾನ ಹೆಚ್ಚಿನ ಉಪಯುಕ್ತವಾಗಿದೆ. ಇತ್ತೀಚಿನ ದಿನಗಳಲ್ಲಿ ನೀರಿನಲ್ಲಿ ಫ್ಲೋರೈಡ್ ಅಂಶ ಹೆಚ್ಚಾಗಿ ಪತ್ತೆಯಾಗುತ್ತಿದೆ. ಇಂತಹ ನೀರನ್ನು ಕುಡಿದ ಜನರಲ್ಲಿ ಅಂಗವೈಕಲ್ಯಗಳು ಕಂಡುಬರುತ್ತವೆ. ಹಾಗಾಗಿ ಭೂಮಿಯ ಅಂತರಾಳದಲ್ಲಿ ಸಿಕ್ಕ ನೀರು ಫ್ಲೋರೈಡ್ ಮುಕ್ತವಾಗಿದ್ದು, ಕುಡಿಯಲು ಯೋಗ್ಯವಾಗಿದೆಯೇ ಎನ್ನುವುದನ್ನು ಈ ತಂತ್ರಜ್ಞಾನದಿಂದ ತಿಳಿದುಕೊಳ್ಳಬಹುದಾಗಿದೆ ಎಂದರು.

ವೈದ್ಯಕೀಯ ಕ್ಷೇತ್ರದಲ್ಲೂ ಈ ತಂತ್ರಜ್ಞಾನ ಪರಿಣಾಮಕಾರಿಯಾಗಿ ಬಳಕೆಯಾಗುತ್ತಿದೆ. ಹಾಲಿ ರಕ್ತ ಪರೀಕ್ಷೆಗೆ ಗಂಟೆಗಟ್ಟಲೆ ಇಲ್ಲವೆ ದಿನಗಟ್ಟಲೆ ಸಮಯ ತೆಗೆದುಕೊಳ್ಳುತ್ತಾರೆ. ಆದರೆ, ಈ ತಂತ್ರಜ್ಞಾನ ಬಳಕೆಯಿಂದ ಕೆಲವೇ ನಿಮಿಷಗಳಲ್ಲಿ ರಕ್ತದ ಮಾದರಿಯನ್ನು ಪರೀಕ್ಷಿಸಿ ವರದಿ ನೀಡಬಹುದಾಗಿದೆ.

ಇದರಿಂದ ರೋಗಿಗಳ ಸಮಯದ ಉಳಿತಾಯವೂ ಆಗುತ್ತದೆ. ಇನ್ನು ಇದೇ ತಂತ್ರಜ್ಞಾನವನ್ನು ಪೊಲೀಸ್ ಇಲಾಖೆಯಲ್ಲಿ ಬಳಕೆ ಮಾಡುವುದರಿಂದ ಅಪರಾಧ ಪತ್ತೆಯಲ್ಲಿಯೂ ಆತಿ ಶೀಘ್ರವಾಗಿ ಸಾಧನೆ ಮಾಡಬಹುದಾಗಿದೆ. ಹಾಗೆಯೇ ರಕ್ಷಣಾ ಕ್ಷೇತ್ರದಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನ ಅನಿವಾರ್ಯವಾಗಿದೆ. ಏಕೆಂದರೆ, ಮುಂದಿನ ದಿನಗಳಲ್ಲಿ ಬಯೋ ವಾರ್ (ಜೈವಿಕ ಯುದ್ಧ) ಅಂದರೆ, ಒಂದು ರಾಷ್ಟ್ರ ತನ್ನ ಶತ್ರು ರಾಷ್ಟ್ರದ ಮೇಲೆ ರೋಗಗಳನ್ನು ಉಂಟುಮಾಡುವ ರೋಗಾಣುಗಳನ್ನು ಹೊತ್ತ ಬಾಂಬನ್ನು ಪ್ರಯೋಗಿಸುತ್ತಾರೆ. ಆಗ ಶತ್ರು ರಾಷ್ಟ್ರದ ಜನರು ಇಲ್ಲಸಲ್ಲದ ಕಾಯಿಲೆಗಳಿಗೆ ತುತ್ತಾಗಿ ಆ ರಾಷ್ಟ್ರ ತನ್ನ ಮಾನವ ಸಂಪನ್ಮೂಲವನ್ನು ಕಳೆದುಕೊಂಡು ದುರ್ಬಲವಾಗುತ್ತದೆ. ಹಾಗಾಗಿ ನ್ಯಾನೋ ತಂತ್ರಜ್ಞಾನದ ಮೂಲಕ ವಾತಾವರಣದಲ್ಲಿ ಎಂತಹ ವೈರಾಣುಗಳಿವೆ ಎನ್ನುವುದನ್ನು ಸುಲಭವಾಗಿ ಪತ್ತೆ ಮಾಡಬಹುದಾಗಿದೆ ಎಂದರು. ಕಾರ್ಯಾಗಾರದ ಮುಖ್ಯಸ್ಥ ಡಾ.ದೇಬಬ್ರತ ಗೋಸ್ವಾಮಿ, ಆಸ್ಟೇಲಿಯಾದ ಡಾ.ಜಗದೀಶ್ ಚಟ್ಟರ್ಜಿ ಹಾಗೂ ಇತರ ಸಂಪನ್ಮೂಲ ವ್ಯಕ್ತಿಗಳು ಹಾಜರಿದ್ದರು.



ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಡಾ.ಪಿ.ಸಿ.ಶ್ರೀಕಾಂತ್ ಅವರನ್ನು ಪಂಜಾಬ್‌ನ ಐಐಟಿಯ ಡಾ.ರಾಜೀಶ್ ಸ್ವಾಗತಿಸಿದರು.

- Key note address on “Photonic Bandgap Crystals ” on 15<sup>th</sup> & 16<sup>th</sup> December , 2016, at International Conference on Technological Innovations in

Engineering(ICTIE-2016), Organized by MIT Polytechnic, Pune, Maharashtra, India



- Optical Networks on 16<sup>th</sup> December. 2016 , Technical Symposium on Nano Technology ,Organized by: Dept. of E&TC MIT Polytechnic, Pune, Maharashtra, India



- Quantum Computing on 16<sup>th</sup> December. 2016 , Technical Symposium on Nano Technology ,Organized by: Dept. of E&TC MIT Polytechnic, Pune, Maharashtra, India
- LASERS on 16<sup>th</sup> December. 2016 , Technical Symposium on Nano Technology ,Organized by: Dept. of E&TC MIT Polytechnic, Pune, Maharashtra, India





- Key note address on “Nano Bio Sensors ” during 23<sup>th</sup> & 24<sup>th</sup> Feb , 2017, at International Conference on Recent Challenges in Engineering Technology (ICRCE-2017), Organized by Sharad Institute of Technology college of engineering , Yadrav , Ichalkaranji ,Maharashtra, India



- Plasmonics on 23<sup>rd</sup> Feb. 2017 , Technical Workshop on Nano Technology ,Organized by: Dept. of E&C Sharad Institute of Technology college of engineering , Yadrav , Ichalkaranji ,Maharashtra, India



- Optical Computing on 23<sup>rd</sup> Feb. 2017 , Technical Workshop on Nano Technology ,Organized by: Dept. of E&C Sharad Institute of Technology college of engineering , Yadrav , Ichalkaranji ,Maharashtra, India



- LASERS in Medicine on 23<sup>rd</sup> Feb. 2017 , Technical Workshop on Nano Technology ,Organized by: Dept. of E&C Sharad Institute of Technology college of engineering , Yadrav , Ichalkaranji ,Maharashtra, India



- Micro fluidics on 23<sup>rd</sup> Feb. 2017 , Technical Workshop on Nano Technology ,Organized by: Dept. of E&C Sharad Institute of Technology college of engineering , Yadrav , Ichalkaranji ,Maharashtra, India



## ಅಂತಾರಾಷ್ಟ್ರೀಯ ವಿಚಾರಸಂಕಿರಣ

ಹಾಸನ: ನಗರದ ಮಲೆನಾಡು ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಇಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ.ಪಿ.ಸಿ.ಶ್ರೀಕಾಂತ್ ಇತ್ತೀಚೆಗೆ ಮಹಾರಾಷ್ಟ್ರದ ಕೊಲ್ಹಾಪುರದಲ್ಲಿ ನಡೆದ ಅಂತಾರಾಷ್ಟ್ರೀಯ ವಿಚಾರಸಂಕಿರಣದಲ್ಲಿ ಪಾಲ್ಗೊಂಡಿದ್ದರು.

ಕೊಲ್ಹಾಪುರದ ಶರದ್ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ 'ಎಂಜಿನಿಯರಿಂಗ್ ತಂತ್ರಜ್ಞಾನಕ್ಕೆ ಇಂದಿನ ಸವಾಲುಗಳು' ಕುರಿತಂತೆ ನಡೆದ ವಿಚಾರ ಸಂಕಿರಣದಲ್ಲಿ ಪ್ರಾಸ್ತಾವಿಕ ತಂತ್ರಜ್ಞಾನದ ಬಗ್ಗೆ ಮಾತನಾಡುತ್ತಾ, ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ರೋಗಗಳ ಪತ್ತೆಗೆ, ಮುಂದೆ ಬರಬಹುದಾದ ಕಾಯಿಲೆಗಳನ್ನು ಗುರುತಿಸಲು, ದೇಹದಲ್ಲಾಗುವ ಏರುಪೇರುಗಳನ್ನು ಗುರುತಿಸಲು ಬಳಸಲಾಗುತ್ತದೆ. ನ್ಯಾನೋ ಚಿಪ್ಪನ್ನು ದೇಹದಲ್ಲಿ ಅಳವಡಿಸಿ ದೇಹದ ಏರುಪೇರುಗಳ ಬಗ್ಗೆ ನಿಗಾ ಇಡಬಹುದಾಗಿದೆ.

ಹಾಗೆಯೇ ರಕ್ಷಣಾ ಕ್ಷೇತ್ರದಲ್ಲಿ ಜಲಾಂತರ್ಗಾಮಿಗಳ ದಾಳಿ ಮೇಲೆ ನಿಗಾ ಇಡಲು ಈ ತಂತ್ರಜ್ಞಾನ ನೆರವಾಗಲಿದೆ ಎಂದು ಹೇಳಿದರು. ಕಾಲೇಜಿನ ಕಾರ್ಯದರ್ಶಿ ಭಗಾನಿ ಮಾತನಾಡುತ್ತಾ, ಪ್ರಸ್ತುತ ಸನ್ನಿವೇಶಗಳಲ್ಲಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕ್ಷೇತ್ರ ಸಾಕಷ್ಟು ಸವಾಲುಗಳನ್ನು ಎದುರಿಸುತ್ತಿದೆ. ಆಧುನಿಕ ಬದಲಾವಣೆಗಳಿಗೆ ತಕ್ಕಂತೆ ಆವಿಷ್ಕಾರಗಳನ್ನು ಮಾಡುವ ನಿಟ್ಟಿನಲ್ಲಿ ಸಂಶೋಧನೆಗಳು ನಡೆಯಬೇಕು. ಈ ನಿಟ್ಟಿನಲ್ಲಿ ಎಂಜಿನಿಯರಿಂಗ್ ವಿದ್ಯಾರ್ಥಿಗಳು ಅಧ್ಯಯನ ನಡೆಸಬೇಕು ಎಂದು ಕರೆ ನೀಡಿದರು.

ಧಾರವಾಡದ ಕರ್ನಾಟಕ ವಿವಿ ಅಧ್ಯಕ್ಷರಾದ ಡಾ.ರಾಯ್, ಬೆಂಗಳೂರಿನ ಟಾಟಾ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿಯ ಡಾ.ಗೋಪಾಲ ಹೆಗಡೆ ಹಾಗೂ ಇತರರು ಇದ್ದರು.



ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಶ್ರೀಕಾಂತ್ ಅವರನ್ನು ಸನ್ಮಾನಿಸಲಾಯಿತು.

- Design & Development of a simple sensors on 18<sup>th</sup> March. 2017 , One day Work shop on “MOEMS and Applications ” , conducted by E&C Dept. MCE, Hassan,(Sponsored by TEQIP II).
- Introduction to Optical Networks on 21<sup>st</sup> March. 2017 , One day Work shop on “High Speed Optical Networks” , conducted by E&C Dept. MCE, Hassan,(Sponsored by TEQIP II).
- OFDM Systems on 21<sup>st</sup> March. 2017 , One day Work shop on “High Speed Optical Networks” , conducted by E&C Dept. MCE, Hassan,(Sponsored by TEQIP II).
- Keynote on Photonic Bandgap Crystal sensors and it's application at IEEE CYBERIA 17 conducted on 1st April 2017 at JSS Science and Technology University, Mysore, India.



- High Speed Optical Networks on 25<sup>th</sup> April,. 2017 , Technical Symposium on Nano Photonics ,Organized by: Dept. of E&C , NDRK Institute of Technology, Hassan, Karnataka, India.



- Surface Plasmon Resonance on 25<sup>th</sup> April, 2017 , Technical Symposium on Nano Photonics ,Organized by: Dept. of E&C , NDRK Institute of Technology, Hassan, Karnataka, India.



- Photonic Bandgap Crystals on 25<sup>th</sup> April, 2017 , Technical Symposium on Nano Photonics ,Organized by: Dept. of E&C , NDRK Institute of Technology, Hassan, Karnataka, India.
- Quantum Computing on 25<sup>th</sup> April, 2017 , Technical Symposium on Nano Photonics ,Organized by: Dept. of E&C , NDRK Institute of Technology, Hassan, Karnataka, India.



- High Speed Optical Networks on 3<sup>rd</sup> May 2017 , Technical Symposium on Nano Photonics ,Organized by: Dept. of E&C , Siddaganga Institute of Technology, Tumkur, Karnataka, India.
- Surface Plasmon Resonance on 3<sup>rd</sup> May 2017 , Technical Symposium on Nano Photonics ,Organized by: Dept. of E&C , Siddaganga Institute of Technology, Tumkur, Karnataka, India.
- Photonic Bandgap Crystals on 3<sup>rd</sup> May 2017 , Technical Symposium on Nano Photonics ,Organized by: Dept. of E&C , Siddaganga Institute of Technology, Tumkur, Karnataka, India.
- Optical Computing on 3<sup>rd</sup> May 2017 , Technical Symposium on Nano Photonics ,Organized by: Dept. of E&C , Siddaganga Institute of Technology, Tumkur, Karnataka, India.



- On “Photonic Crystals and its Applications ” during 12<sup>th</sup> May , 2017, at International Conference on Emerging Trends in Engineering (ICETE-2017),Organized by NMAM Institute of Technology, Nitte, Udupi District, Karnataka, India.





- Role of Optical Networks on 29<sup>th</sup> May 2017 workshop on Recent Advances in Optical Communication and Networks conducted by Karnataka State Higher Education Council (KSHEC), Palace Road, Bangalore
- Key note address on “High Speed Optical Networks ” on 2<sup>nd</sup> June , 2017, at International Conference on Current Research on Embedded , Information and Computer Technologies (ICEICT-2017), Organized by R R Institute of Technology , Bangalore, India.



- Bio Sensors on 3<sup>rd</sup> June, 2017 , Workshop on Optical Engineering ,Organized by: Dept. of E&C , R R Institute of Technology , Bangalore, India.
- Quantum Communication on 3<sup>rd</sup> June, 2017 , Workshop on Optical Engineering ,Organized by: Dept. of E&C , R R Institute of Technology , Bangalore, India.
- Quantum Computing on 3<sup>rd</sup> June, 2017 , Workshop on Optical Engineering ,Organized by: Dept. of E&C , R R Institute of Technology , Bangalore, India.
- Nano Photonics on 3<sup>rd</sup> June, 2017 , Workshop on Optical Engineering ,Organized by: Dept. of E&C , R R Institute of Technology , Bangalore, India.



## ಕ್ವಾಂಟಂ ತಂತ್ರಜ್ಞಾನದಿಂದ ಹ್ಯಾಕಿಂಗ್ ನಿಯಂತ್ರಣ

ಹಾಸನ: ತಂತ್ರಾಂಶ (ಹಾಟ್) ವನ್ನು ಒಂದೆಡೆಯಿಂದ ಮತ್ತೊಂದೆಡೆಗೆ ಕಳುಹಿಸುವ ವಿಧಾನಗಳಲ್ಲಿ ಇತ್ತೀಚಿನ ಸಂಶೋಧನೆಯಾದ ಕ್ವಾಂಟಂ ತಂತ್ರಜ್ಞಾನದಿಂದ ಹ್ಯಾಕಿಂಗ್ ಸಮಸ್ಯೆಯನ್ನು ತಪ್ಪಿಸಬಹುದಾಗಿದೆ ಎಂದು ನಗರದ ಮಲ್ಲೇನಾಡು ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಧ್ಯಾಪಕ ಡಾ. ಪಿ.ಸಿ.ಶ್ರೀಕಾಂತ್ ಹೇಳಿದರು.

ಇತ್ತೀಚೆಗೆ ಬೆಂಗಳೂರಿನ ಚಿಕ್ಕಬಾಳಾಪರದ ಆರ್. ಆರ್. ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಕಂಪ್ಯೂಟರ್ ಕ್ಷೇತ್ರದಲ್ಲಿ ಇತ್ತೀಚಿನ ಸಂಶೋಧನೆಗಳು ಎನ್ನುವ ವಿಷಯದ ಕುರಿತು ನಡೆದ ಅಂತಾರಾಷ್ಟ್ರೀಯ ವಿಚಾರ ಸಂಕರಣದಲ್ಲಿ ಅಧ್ಯಕ್ಷತೆ ವಹಿಸಿ ಮಾತನಾಡಿದ ಅವರು, ಹಾಲಿ ತಂತ್ರಾಂಶವನ್ನು ರ್ಯಾಂಡಂ ಮಾದರಿಯಲ್ಲಿ ಆಪ್ಟಿಕಲ್ ಫೈಬರ್ ಕೇಬಲ್‌ಗಳ ಮೂಲಕ ಕಳುಹಿಸಲಾಗುತ್ತಿದೆ. ಆದರೆ, ಈ ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ಮಾಹಿತಿ ಸೋರಿಕೆಯಾಗುವ ಸಾಧ್ಯತೆಗಳಿರುತ್ತವೆ ಎಂದು ಆತಂಕ ವ್ಯಕ್ತಪಡಿಸಿದರು.

ತಂತ್ರಾಂಶ ವರ್ಗಾವಣೆಯಲ್ಲಿ ಕ್ವಾಂಟಂ ತಂತ್ರಜ್ಞಾನ ಬಳಕೆ ಮಾಡುವುದರಿಂದ ಹೆಚ್ಚು ಸುರಕ್ಷಿತವಾಗಿರುತ್ತದೆ. ತಂತ್ರಾಂಶವನ್ನು ಕ್ಯೂ ಬಿಟ್ ಆಗಿ ಪರಿವರ್ತನೆ ಮಾಡಿ ಆಪ್ಟಿಕಲ್ ಫೈಬರ್ ಕೇಬಲ್ ಮೂಲಕ ವರ್ಗಾವಣೆ ಮಾಡುವುದರಿಂದ ಯಾವುದೇ ಮಾಹಿತಿಗಳನ್ನು ಹ್ಯಾಕಿಂಗ್ ಮಾಡಲು ಸಾಧ್ಯವಾಗುವುದಿಲ್ಲ. ಹಾಗಾಗಿ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು



ವಿಚಾರ ಸಂಕರಣದಲ್ಲಿ ಕೈಪಿಡಿ ಬಿಡುಗಡೆ ಮಾಡಲಾಯಿತು.

ರಕ್ಷಣಾ ಕ್ಷೇತ್ರ ಮತ್ತು ಬ್ಯಾಂಕಿಂಗ್ ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ಅತ್ಯಂತ ಪರಿಣಾಮಕಾರಿಯಾಗಿ ಬಳಕೆ ಮಾಡಬಹುದಾಗಿದೆ. ಈಗಾಗಲೇ ಈ ನಿಟ್ಟಿನಲ್ಲಿ ನೆರೆಯ ಚೀನಾ ದೇಶದಲ್ಲಿ ಸುಮಾರು 2 ಸಾವಿರ ಕಿಲೋಮೀಟರ್‌ನಷ್ಟು ದೂರದ ಆಪ್ಟಿಕಲ್ ಫೈಬರ್ ಕೇಬಲ್‌ಗಳ ಅಳವಡಿಕೆ ಮಾಡಲಾಗಿದೆ. ಇದೇ ಮಾದರಿಯಲ್ಲಿ ನಮ್ಮ ದೇಶದಲ್ಲೂ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಕೆ ಮಾಡಿಕೊಂಡಲ್ಲಿ ಗೌಪ್ಯ ಮಾಹಿತಿಗಳನ್ನು ಸಂರಕ್ಷಿಸಬಹುದಾಗಿದೆ ಎಂದರು.

ಮುಖ್ಯ ಅತಿಥಿಗಳಾಗಿದ್ದ ಪ್ರಾಂಶುಪಾಲೆ ಡಾ.ಭಾಗ್ಯ ಶೇಖರ್ ಮಾತನಾಡುತ್ತಾ, ಇತ್ತೀಚಿನ

ದಿನಗಳಲ್ಲಿ ಕಂಪ್ಯೂಟರ್ ಕ್ಷೇತ್ರದಲ್ಲಿ ಭಾರೀ ವೇಗದ ಬದಲಾವಣೆಗಳಾಗುತ್ತಿವೆ. ಇಂದು ಇದ್ದ ತಂತ್ರಜ್ಞಾನ ನಾಳೆಯ ಹೊತ್ತಿಗೆ ಹಳೆಯದಾಗಿರುತ್ತದೆ. ಹಾಗಾಗಿ ಎಂಜಿನಿಯರಿಂಗ್ ವಿದ್ಯಾರ್ಥಿಗಳು ಈ ನಿಟ್ಟಿನಲ್ಲಿ ಸದಾ ಸಂಶೋಧನೆಯಲ್ಲಿ ತೊಡಗಿಸಿಕೊಳ್ಳುವ ಆಗತ್ಯವಿದೆ ಎಂದು ಕರೆ ನೀಡಿದರು.

ವಿಚಾರ ಸಂಕರಣದಲ್ಲಿ ಮೊಘೆಸರ್ ಡಾ.ಮನೋಜ್ ಪ್ರಿಯತಂ, ಬೆಂಗಳೂರಿನ ದಯಾನಂದ ಸಾಗರ್ ಯೂನಿವರ್ಸಿಟಿಯ ಪ್ರೊಫೆಸರ್ ಡಾ. ವೈದ್ಯ ಮೇಸಾರಂ ಹಾಗೂ

- Key note address on “Nano Bio Sensors ” during 22<sup>th</sup> & 23<sup>th</sup> June , 2017, at International Conference on Wearable Technologies (ICOWT-2017),Organized by Dayanand Sagar University , School of Engineering ,Bangalore , India.







- Key note address on “Biosensors for IOT Applications” on 21<sup>st</sup> July . 2017, at International Conference on Internet of Things for Future Smart Cities (ICIOTSC-2017),Organized by Geethanjali Institute of Science and Technology, Nellore District ,Andra Pradesh.



- Photonic Bandgap Crystals on 22<sup>nd</sup> July . 2017 , Workshop on Nanotechnology ,Organized by: Geethanjali Institute of Science and Technology, Nellore District ,Andra Pradesh.



- Surface Plasmon Resonance on 22<sup>nd</sup> July . 2017 , Workshop on Nanotechnology ,Organized by: Geethanjali Institute of Science and Technology, Nellore District ,Andra Pradesh.



- High Speed Optical Networks on 22<sup>nd</sup> July. 2017, Workshop on Nanotechnology, Organized by: Geethanjali Institute of Science and Technology, Nellore District, Andra Pradesh.



- Quantum Computing on 22<sup>nd</sup> July. 2017, Workshop on Nanotechnology, Organized by: Geethanjali Institute of Science and Technology, Nellore District ,Andra Pradesh.



- Key note address on “Nano Bio Sensors ” on 14th December , 2017, at International Conference on Recent Advancements in Information Technology, Science and Engineering (ICRAITSE-2017), Organized by APC Mahalaxmi College for Women, Tuticorin, Tamilnadu, India.
- Optical Computing on 15th February. 2018, Workshop on Nano Photonics, Organized by: Balaji Institute of Technology and Science, Narsampet, Warangal, India.



- High Speed Optical Networkson 15<sup>th</sup> February. 2018, Workshop on Nano Photonics, Organized by: Balaji Institute of Technology and Science, Narsampet, Warangal, India.





- Medical Application of LASER on 15<sup>th</sup> February, 2018, Workshop on Nano Photonics, Organized by: Balaji Institute of Technology and Science, Narsampet, Warangal, India.

## ಭಾರತೀಯ ಸಂಶೋಧಕರಿಗೆ ಸಿಗದ ಸೂಕ್ತ ವೇದಿಕೆ



ಅಂತಾರಾಷ್ಟ್ರೀಯ ಕಾರ್ಯಾಗಾರವನ್ನು ಉದ್ಘಾಟಿಸುತ್ತಿರುವ ಮಲೆನಾಡು ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಧ್ಯಾಪಕ ಶ್ರೀಕಾಂತ್ ಹಾಗೂ ಮತ್ತಿತರರು.

**ಸಂ.ಕ.ಸಮಾಚಾರ ಹಾಸನ**

ಭಾರತದ ಅನೇಕ ಸಂಶೋಧಕರು ಸಾಕಷ್ಟು ಆವಿಷ್ಕಾರಗಳನ್ನು ಮಾಡಿದರೂ ಕೂಡ ಅದರ ಬಗ್ಗೆ ಜಾಗತಿಕ ಮಟ್ಟದಲ್ಲಿ ಪ್ರಚಾರ ಮಾಡಿಕೊಳ್ಳದ ಕಾರಣ ಆ ಸಂಶೋಧನೆಯ ಹಿರಿಮೆ ಬೇರೆ ದೇಶದವರ ಪಾಲಾಯಿತು ಎಂದು ನಗರದ ಮಲೆನಾಡು ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಧ್ಯಾಪಕ ಶ್ರೀಕಾಂತ್ ವಿಷಾದಿಸಿದರು.

ಅವರು ಇತ್ತೀಚೆಗೆ ನೆರೆಯ ಆಂಧ್ರಪ್ರದೇಶದ ವಾರಂಗಲ್‌ನ ಬಾಲಾಜಿ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ ಕಾಲೇಜಿನಲ್ಲಿ 'ಎಮರ್ಜಿಂಗ್ ಟ್ರೆಂಡ್ ಇನ್ ಸೈನ್ಸ್ ಅಂಡ್ ಟೆಕ್ನಾಲಜಿ' ವಿಷಯಾಧಾರಿತ ಅಂತಾರಾಷ್ಟ್ರೀಯ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಮುಖ್ಯ ಅತಿಥಿಯಾಗಿ ಮಾತನಾಡುತ್ತಾ, ಭಾರತದ ಜಿ.ಸಿ.ಬೋಸ್ ವಿಶ್ವದಲ್ಲಿ ಮೊಟ್ಟ ಮೊದಲ ಬಾರಿಗೆ ಪ್ರಸಾರ ಶಿಶು ಅಭಿವೃದ್ಧಿ ತಂತ್ರಜ್ಞಾನವನ್ನು ಕಂಡುಹಿಡಿದರು.

ಹಾಗೆಯೇ ಕೋಲಾರದ ನರಸಿಂಹಶಾಸ್ತ್ರಿ ವಿಮಾನ ಮಾದರಿಯನ್ನು ತಯಾರಿಸಿದರಾದರೂ ಅದರ ಕೀರ್ತಿ ಇವರಿಗೆ ಸಿಗಲೇ ಇಲ್ಲ. ಇದಕ್ಕೆ ಕಾರಣ ಇವರು ತಾವು ಸಂಶೋಧಿಸಿದ ಆವಿಷ್ಕಾರಗಳ ಬಗ್ಗೆ ಪ್ರಚಾರ ಮಾಡಿಕೊಳ್ಳದಿರುವುದು. ಅವರಿಗೆ ಇಂತಹ ವೇದಿಕೆಗಳು ಸಿಗದಿರುವುದು ಕೂಡ ಕಾರಣ. ಹಾಗಾಗಿ ಇವರ ಸಾಧನೆಗೆ ಸಿಗಬೇಕಾದ ಕೀರ್ತಿ ಇವರಿಗೆ ಸಿಗಲಿಲ್ಲ ಎಂದು ವಿಷಾದಿಸಿದರು.

ಅಧ್ಯಕ್ಷ ರಾಜೇಂದ್ರ ಪ್ರಸಾದ್ ಮಾತನಾಡಿದರು. ಹೈದರಾಬಾದ್‌ನ ಆರ್‌ಸಿಐ ವಿಜ್ಞಾನಿ ಡಾ.ವರಪ್ರಸಾದ್, ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಹರಿಹರನ್, ಡಾ.ಮಣಿಕಂಠನ್ ಹಾಗೂ ಇತರರಿದ್ದರು.

- Surface Plasmon Resonance on 15<sup>th</sup> February. 2018 , Workshop on Nano Photonics ,Organized by: Balaji Institute of Technology and Science, Narsampet, Warangal, India
- Key note address on “Photonic Bandgap Crystals ” during 16<sup>th</sup> & 17<sup>th</sup> Feb , 2018, at International Conference on Emerging Trends in Engineering, Science and Technologies(ICETEST-18) Organized by Balaji Institute of Technology and Science , Narsampet, Warangal, India .



- Key note address on “Photonic Bandgap Crystals ” on 16<sup>th</sup> March , 2018, at International Conference on Applied Science Engineering and Technology (ICASET-2018), Organized by Sengunthar College of Engineering, Tirchengode, Tamilnadu, India.





- Medical Application of LASER on 17<sup>th</sup> March, 2018, Workshop on Nano Photonics, Organized by: Sengunthar College of Engineering, Tirchengode, Tamilnadu, India.







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- Optical Communication on 7th September. 2018, Workshop on Nano Photonics, Organized by: Mahendra Engineering College , Salem , Tamilnadu, India.

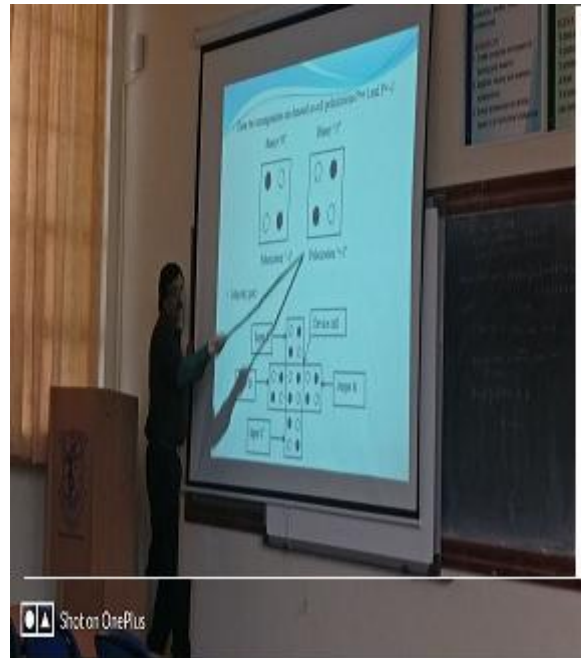


- Quantum Communication on 7th September. 2018, Workshop on Nano Photonics, Organized by: Mahendra Engineering College , Salem , Tamilnadu, India.



- Quantum Cellular Automata on 7th September. 2018, Workshop on Nano Photonics, Organized by: Mahendra Engineering College , Salem , Tamilnadu, India.
- Photonic Bandgap Crystals on 7th September. 2018, Workshop on Nano Photonics, Organized by: Mahendra Engineering College , Salem , Tamilnadu, India.
- Quantum Computing on 12th October, IEEE Day 2018, Organized by: IEEE MCE Student Branch ,Malnad College of engineering, Hassan. , Karnataka, India.
- LASERS on 12th October, IEEE Day 2018, Organized by: IEEE MCE Student Branch ,Malnad College of engineering, Hassan. , Karnataka, India.





- Nano Photonics on 12th October, IEEE Day 2018, Organized by: IEEE MCE Student Branch ,Malnad College of engineering, Hassan. , Karnataka, India.
- Optical Networks on 12th October, IEEE Day 2018, Organized by: IEEE MCE Student Branch ,Malnad College of engineering, Hassan. , Karnataka, India.
- Key note address on “Nano-Biosensors” on 29<sup>th</sup> November , 2018, at International Conference on Emerging Trends on Engineering Science , Technology and Management (ICETESTM-2018), Organized by Aditya Institute of Technology and Management, Tekkali, Srikakulam , Andra Pradesh, India.



- Quantum Computing on 29<sup>th</sup> Nov. 2018, Workshop on Photonics, Organized by: Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andra Pradesh, India.



- Quantum Communication on 29<sup>th</sup> Nov. 2018, Workshop on Photonics, Organized by: Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andra Pradesh, India.



- Optical Fiber Communication on 29<sup>th</sup> Nov. 2018, Workshop on Photonics, Organized by: Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andra Pradesh, India.



- Photonic Band Gap Crystals on 29<sup>th</sup> Nov. 2018, Workshop on Photonics, Organized by: Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andra Pradesh, India.



- Medical Applications of LASER during 3<sup>rd</sup> and 8<sup>th</sup> December. 2018 ,FDP on Recent Advances in Photonics conducted by Instrumentation Dept. ,Jorhat College of Engineering, Jorhat, Assam.
- Survivability Issues in Optical Networks during 3<sup>rd</sup> and 8<sup>th</sup> December. 2018 ,FDP on Recent Advances in Photonics conducted by Instrumentation Dept. ,Jorhat College of Engineering, Jorhat, Assam.
- NanoSensors during 3<sup>rd</sup> and 8<sup>th</sup> December. 2018, FDP on Recent Advances in Photonics conducted by Instrumentation Dept., Jorhat College of Engineering, Jorhat, Assam.
- Quantum Cellular Automata during 3<sup>rd</sup> and 8<sup>th</sup> December. 2018 ,FDP on Recent Advances in Photonics conducted by Instrumentation Dept. ,Jorhat College of Engineering, Jorhat, Assam.
- Quantum Communication during 3<sup>rd</sup> and 8<sup>th</sup> December. 2018 ,FDP on Recent Advances in Photonics conducted by Instrumentation Dept. ,Jorhat College of Engineering, Jorhat, Assam.
- Quantum Communication on 8<sup>th</sup> March. 2019, Workshop on Nano Photonics, Organized by: PG Center Hemagangothri . University of Mysore ,Hassan, India.
- Quantum Computing on 8<sup>th</sup> March. 2019, Workshop on Nano Photonics, Organized by: PG Center Hemagangothri . University of Mysore ,Hassan, India.



- Nano Photonic Sensors on 8th March. 2019, Workshop on Nano Photonics, Organized by: PG Center Hemagangothri . University of Mysore ,Hassan, India.
- Optical Fiber Communication on 8th March. 2019, Workshop on Nano Photonics, Organized by: PG Center Hemagangothri . University of Mysore ,Hassan, India.
- Survivable Optical Networks 8th March. 2019, Workshop on Nano Photonics, Organized by: PG Center Hemagangothri . University of Mysore ,Hassan, India.
- Key note address on “Nano-Biosensors” on 4th April , 2019, at International Conference on Green Technologies for Power Generation Communication & Instrumentation (ICGPC' 19), Organized by St.Peters Institute of Higher Education & Research , Avadi ,Chennai, India.
- Medical Applications of LASER during 8th and 12th July. 2019 ,FDP on Recent Advances in Communication and Photonics conducted by E&C Dept. ,Veer Bahadur Singh Purvanchal University(Uma Nath Singh Institute of Engineering and Technology). Jaunpur , Uttar Pradesh.
- Survivable Optical Networks during 8th and 12th July. 2019 ,FDP on Recent Advances in Communication and Photonics conducted by E&C Dept. ,Veer Bahadur Singh Purvanchal University(Uma Nath Singh Institute of Engineering and Technology). Jaunpur , Uttar Pradesh.
- Quantum Communication during 8th and 12th July. 2019 ,FDP on Recent Advances in Communication and Photonics conducted by E&C Dept. ,Veer Bahadur Singh Purvanchal University(Uma Nath Singh Institute of Engineering and Technology). Jaunpur , Uttar Pradesh.
- Photonic Sensors during 8th and 12th July. 2019 ,FDP on Recent Advances in Communication and Photonics conducted by E&C Dept. ,Veer Bahadur Singh Purvanchal University(Uma Nath Singh Institute of Engineering and Technology). Jaunpur , Uttar Pradesh.
- Quantum cellular automata during 8th and 12th July. 2019 ,FDP on Recent Advances in Communication and Photonics conducted by E&C Dept. ,Veer Bahadur Singh Purvanchal University(Uma Nath Singh Institute of Engineering and Technology). Jaunpur , Uttar Pradesh.
- Key note address on “Photonic Sensors using PBG Devices” during 10-11 January, 2020, at International Conference on Recent Trends in Electrical, Electronics and

Computer Science Engineering (ICEECS-2020), Organized by Uma Nath Singh(UNS) Institute of Engineering and Technology,Veer Bahadur Singh (VBS) Purvanchal University, Jaunpur ,U.P, India.

- Quantum cellular automata on 26<sup>th</sup> Feb. 2020 , Workshop on Recent Advances in Photonics conducted by V O Chidambaram College ,Thoothukudi ,Tamil Nadu,India .
- Surface Plasmon Resonance Sensors on 26<sup>th</sup> Feb. 2020 , Workshop on Recent Advances in Photonics conducted by V O Chidambaram College ,Thoothukudi ,Tamil Nadu,India .
- Fiber Optic Communication on 26<sup>th</sup> Feb. 2020 , Workshop on Recent Advances in Photonics conducted by V O Chidambaram College ,Thoothukudi ,Tamil Nadu,India .
- Quantum Communication on 26<sup>th</sup> Feb. 2020 , Workshop on Recent Advances in Photonics conducted by V O Chidambaram College ,Thoothukudi ,Tamil Nadu,India.
- Nano-Photonic Sensors on 26<sup>th</sup> Feb. 2020 , Workshop on Recent Advances in Photonics conducted by V O Chidambaram College ,Thoothukudi ,Tamil Nadu,India
- Key note address on “Photonic Sensors using PBG Devices” during 27-28 Feb ,2020, at International Conference on Recent Trends in Multi Disciplinary Research(ICRTMR-2020), A.P.C. Mahalaxmi College for Women ,Thoothukudi ,Tamil Nadu,India
- Quantum cellular automata on 28<sup>th</sup> Feb. 2020 , Workshop on Recent Advances in Photonics conducted by A.P.C. Mahalaxmi College for Women ,Thoothukudi ,Tamil Nadu,India
- Surface Plasmon Resonance Sensors on 28<sup>th</sup> Feb. 2020 , Workshop on Recent Advances in Photonics conducted by A.P.C. Mahalaxmi College for Women ,Thoothukudi ,Tamil Nadu,India
- Fiber Optic Communication on 28<sup>th</sup> Feb. 2020 , Workshop on Recent Advances in Photonics conducted by A.P.C. Mahalaxmi College for Women ,Thoothukudi ,Tamil Nadu,India
- Quantum Communication on 28<sup>th</sup> Feb. 2020 , Workshop on Recent Advances in Photonics conducted by A.P.C. Mahalaxmi College for Women ,Thoothukudi ,Tamil Nadu,India

- Quantum cellular automata on 13<sup>h</sup> March. 2020 , Workshop on Recent Advances in Optical Engineering conducted by Chandigarh University, Mohali, Chandigarh ,Punjab ,India .
- Surface Plasmon Resonance Sensors on 13<sup>h</sup> March. 2020 , Workshop on Recent Advances in Optical Engineering conducted by Chandigarh University, Mohali, Chandigarh , Punjab,India .
- Fiber Optic Communication on 13<sup>h</sup> March. 2020 , Workshop on Recent Advances in Optical Engineering conducted by Chandigarh University, Mohali, Chandigarh , Punjab,India .
- Quantum Communication on 13<sup>h</sup> March. 2020 , Workshop on Recent Advances in Optical Engineering conducted by Chandigarh University, Mohali, Chandigarh , Punjab,India .
- Nano-Photonic Sensors on 13<sup>h</sup> March. 2020 , Workshop on Recent Advances in Optical Engineering conducted by Chandigarh University, Mohali, Chandigarh , Punjab , India .
- Photonic Bio-Sensors on 21<sup>st</sup> 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 1<sup>st</sup> July. 2020 , Three days online FDP on Recent Trends in Photonics , Organized by Dayanand Sagar University Bangalore.
- Free-space Optical Communication (FSO) on 9<sup>th</sup> 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 7<sup>th</sup> and 11<sup>th</sup> September , 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.
- Optical Fiber Communication on 9<sup>th</sup> 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 7<sup>th</sup> and 11<sup>th</sup> September , 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.



- Survivable Optical Networks on 9<sup>th</sup> 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 7<sup>th</sup> and 11<sup>th</sup> September , 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.
- Nano Photonics Sensors on 9<sup>th</sup> 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 7<sup>th</sup> and 11<sup>th</sup> September , 2020 at Vidyavardhaka College of Engineering organized by Dept. of E&C, VVCE, Mysore, India.
- Photonics Sensors on 3<sup>rd</sup> November 2020, One week Faculty Development Programme on Recent Advances in Photonics and Communication, sponsored by AICTE Training and Learning Program(ATAL) , held during 2<sup>nd</sup> and 6<sup>th</sup> November , 2020 at Guru Jambheshwar University of Science and Technology organized by Dept. of Physics, Hisar,Harayana, India.
- Green Photonics on 15<sup>th</sup> December 2020, Two week Short Term Training Programme(STTP) on Creating the smart and green society through advance technology of green energy , sponsored by AICTE Training and Learning Program(ATAL) , held during 10<sup>th</sup> and 22<sup>nd</sup> December , 2020 at Malnad College of engineering organized by Dept. of Mechanical Engineering,MCE, Hassan, India.
- 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 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 10th June. 2021 , International Webinar on Advances in Communication – Research Perspective Organized Indian Institute of Science, Bangalore.
- Quantum Concepts and Applications during 14th & 19th June , 2021, FDP on Recent Trends in Photonics ,Organized by Dept. of ECE , Oxford College Engineering ,Bangalore , India.
- Key note address on “Quantum Concepts and Application” on 26<sup>th</sup> & 27<sup>th</sup> 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 30<sup>th</sup> November 2021, One week Faculty Development Programme on Quantum and Photonics, sponsored by AICTE Training and Learning Program(ATAL) , held during 29<sup>th</sup> November and 3<sup>rd</sup> December , 2021 at Malnad College of Engineering organized by Dept. of E&C, Hassan,Karnataka, India.
- Quantum Concepts and Applications during 3<sup>rd</sup> & 5<sup>th</sup> March 2022, “3 Days Workshop on Advances in Photonics, Quantum and Nanotechnology”, Organized by Dept. of ECE ,in association with IEEE Photonics Society Bangalore chapter , Presidency University ,Bangalore , India.
- Quantum Machine Learning ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 28<sup>th</sup> May 2022 at E&C Department , Malnad college of engineering Hassan.
- Medical application of LASER , ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 28<sup>th</sup> May 2022 at E&C Department , Malnad college of engineering Hassan.

- Photonic Bandgap Sensors ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 28<sup>th</sup> May 2022 at E&C Department , Malnad college of engineering Hassan.
- Surface Plasmon Resonance Sensors ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 28<sup>th</sup> May 2022 at E&C Department , Malnad college of engineering Hassan.
- Optical Networks ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 28<sup>th</sup> May 2022 at E&C Department , Malnad college of engineering Hassan.
- Quantum Dots ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 28<sup>th</sup> May 2022 at E&C Department , Malnad college of engineering Hassan.
- Photonic Bandgap Crystal Sensors ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, K R Pet , Mandya , Karnataka on 27<sup>th</sup> June 2022.
- Surface Plasmon Resonance Sensors ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, K R Pet , Mandya , Karnataka on 27<sup>th</sup> June 2022.
- FBG Sensors ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, K R Pet , Mandya , Karnataka on 27<sup>th</sup> June 2022.



- Optical Fiber Communication ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, K R Pet , Mandya , Karnataka on 27<sup>th</sup> June 2022.
- Quantum Cellular Automata ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, K R Pet , Mandya , Karnataka on 27<sup>th</sup> June 2022.
- Photonic Bandgap Crystal Sensors ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, Hassan , Karnataka on 16<sup>th</sup> July 2022(On the occasion of inauguration of E& C students association ).
- Quantum Concepts and its Applications ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, Hassan , Karnataka on 16<sup>th</sup> July 2022(On the occasion of inauguration of E& C students association ).
- Quantum Machine Learning ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 20<sup>th</sup> December 2022 at E&C Department , Malnad college of engineering Hassan.
- Medical application of LASER , ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 20<sup>th</sup> December 2022 at E&C Department , Malnad college of engineering Hassan.
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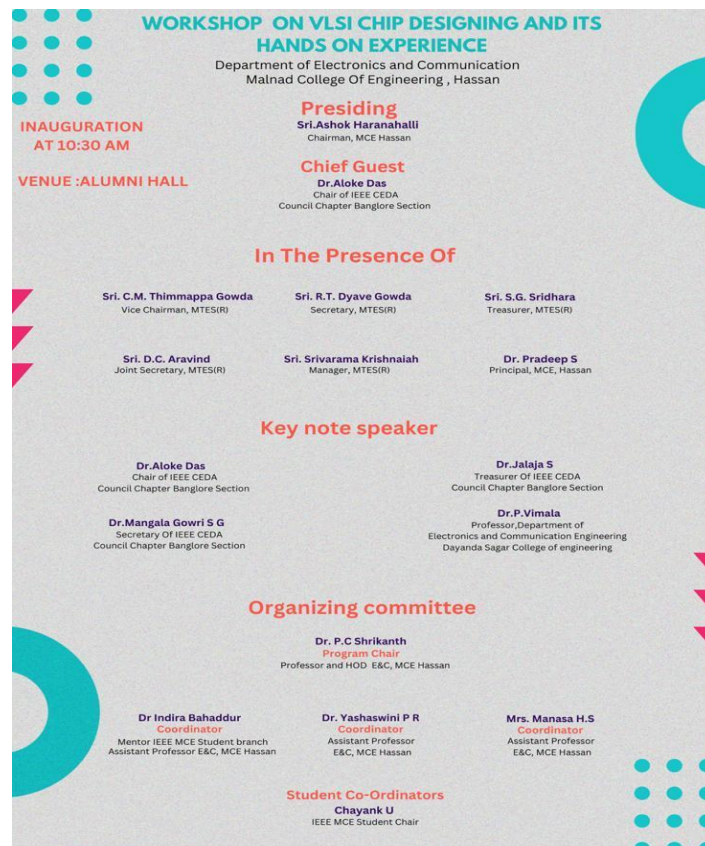
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- Optical Networks ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 20<sup>th</sup> December 2022 at E&C Department , Malnad college of engineering Hassan.
- Quantum Dots ,One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 20<sup>th</sup> December 2022 at E&C Department , Malnad college of engineering Hassan.
- Optical Networks, Hands on Workshop on Photonics and Quantum Mechanics , Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 19<sup>th</sup> June 2023 at E&C Department , Malnad college of engineering Hassan.
- Quantum Dots, Hands on Workshop on Photonics and Quantum Mechanics , Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 19<sup>th</sup> June 2023 at E&C Department , Malnad college of engineering Hassan.
- Photonic Bandgap Crystal Sensors, Hands on Workshop on Photonics and Quantum Mechanics , Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 19<sup>th</sup> June 2023 at E&C Department , Malnad college of engineering Hassan.

- Quantum Concepts and its Applications, Hands on Workshop on Photonics and Quantum Mechanics , Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 19<sup>th</sup> June 2023 at E&C Department , Malnad college of engineering Hassan.
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- Optical Fiber Communication ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department in association with IEEE SIT Student Branch, Siddaganga Institute of Technology, Tumkur, India on 24<sup>th</sup> June 2023.
- Photonic Bandgap Crystal Sensors ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department in association with IEEE SIT Student Branch, Siddaganga Institute of Technology, Tumkur, India on 24<sup>th</sup> June 2023.
- Surface Plasmon sensors ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department in association with IEEE SIT Student Branch, Siddaganga Institute of Technology, Tumkur, India on 24<sup>th</sup> June 2023.
- Lasers and its Applications ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department in association with IEEE SIT Student Branch, Siddaganga Institute of Technology, Tumkur, India on 24<sup>th</sup> June 2023.
- Quantum Concepts and its Applications ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department in association with IEEE SIT Student Branch, Siddaganga Institute of Technology, Tumkur, India on 24<sup>th</sup> June 2023.




- Key note on Nano Technology , invited by global Congress on Materials Science and Nanotechnology(GCMSN) from August 03-05 2023 in London,UK.(Invited)
- Distinguished Speaker ( Topic High-performance 2D photonics MOEMS pressure sensors) invited for the most prestigious event “3rd Global Conference on Advanced Nanotechnology and Nanomaterials” on September 13-14, 2023. at Berlin, Germany(Invited).
- Talk on Science History, One day Symposium on Science and Technology, Conducted by Government High School , Hanyalu, Arkalgud Taluk, Hassan. On 27<sup>th</sup> September 2023.
- Talk on Achievements of Indian Scientists, One day Symposium on Science and Technology, Conducted by Government High School ,Hanyalu, Arkalgud Taluk, Hassan. On 27<sup>th</sup> September 2023.
- Talk on Research on Photonics , One day Symposium on Science and Technology, Conducted by Government High School ,Hanyalu, Arkalgud Taluk, Hassan. On 27<sup>th</sup> September 2023.
- Photonic Bandgap Crystal Sensors ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, Hassan , Karnataka on 23<sup>rd</sup> December 2023.
- Surface Plasmon Resonance Sensors ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, Hassan, Karnataka on 23<sup>rd</sup> December 2023.
- FBG Sensors ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, Hassan, Karnataka on 23<sup>rd</sup> December 2023.
- Optical Fiber Communication ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, Hassan, Karnataka on 23<sup>rd</sup> December 2023.
- Quantum Cellular Automata ,One day Symposium on Recent Trends on Photonics ,Organized by E&C Department ,Government Engineering College, Hassan, Karnataka on 23<sup>rd</sup> December 2023.

- One day workshop on VLSI Chip Designing and Its Handson Experience  
Organized by Department of ECE, MCE, Hassan on 16<sup>th</sup> February 2024.



- Quantum Concepts and its Applications ,One day Hands on Workshop on Photonics and Quantum Concepts ,Organized by E&C Department in association with IEEE CIT Student Branch, Channa Basaveshwara Institute of Technology, Gubbi,Tumkur, India on 23<sup>rd</sup> February 2024.


**IEEE Student Branch**  
**HANDS-ON**  
**WORKSHOP**


**Channabasaveshwara  
Institute of Technology**  
(NAAC Accredited & ISO 9001:2015 Certified Institution)  
 N.H. 206, B.H. Road, Gubbi, Tumkur 572 216, Karnataka  
 Tel : 08131 223818. Email : hr@cittumkur.org,  
<http://www.cittumkur.org/>

## Photonics and Quantum Concepts

organized by Department of ECE, CIT, Gubbi

**23rd February 2024, 11:00am**



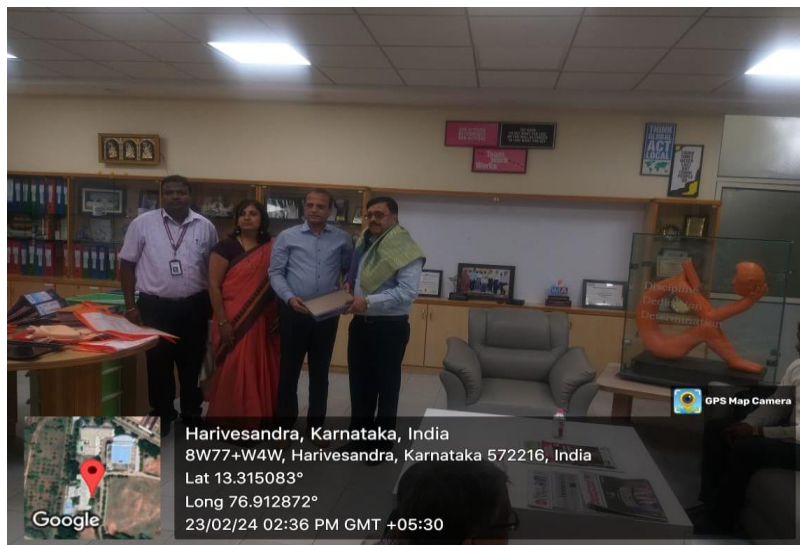
**Student Branch - CIT**

**Dr. Gopal Hegde**  
Technology Manager, CeNSE, IISc, Bangalore, Karnataka.

**Dr. P.C.Srikanth**  
Professor, Department of ECE, MCE, Hassan.

**Prof. Vijaya Kumar**  
Research Scholar, ECE Research Center, MCE, Hassan.

**Venue: Vivekananda Auditorium, MC Block, CIT, Gubbi,  
Tumkur, Karnataka-572216**



- Surface Plasmon Resonance Sensors, One day Hands on Workshop on Photonics and Quantum Concepts, Organized by E&C Department in association with IEEE CIT Student Branch, Channa Basaveshwara Institute of Technology, Gubbi, Tumkur, India on 23<sup>rd</sup> February 2024.
- Photonic Bandgap Sensors, One day Hands on Workshop on Photonics and Quantum Concepts, Organized by E&C Department in association with IEEE CIT Student Branch, Channa Basaveshwara Institute of Technology, Gubbi, Tumkur, India on 23<sup>rd</sup> February 2024.
- Optical Networks, One day Hands on Workshop on Photonics and Quantum Concepts, Organized by E&C Department in association with IEEE CIT Student Branch, Channa Basaveshwara Institute of Technology, Gubbi, Tumkur, India on 23<sup>rd</sup> February 2024.
- Quantum Dots, One day Hands on Workshop on Photonics and Quantum Concepts, Organized by E&C Department in association with IEEE CIT Student Branch, Channa Basaveshwara Institute of Technology, Gubbi, Tumkur, India on 23<sup>rd</sup> February 2024.



- Quantum Dots, One day Hands on Workshop on Recent Developments in Photonics ,Organized by E&C Department in association with IEEE AIT Student Branch, Atria Institute of Technology, Bangalore, India on 28<sup>rd</sup> February 2024.
- Optical Networks, One day Hands on Workshop on Recent Developments in Photonics ,Organized by E&C Department in association with IEEE AIT Student Branch, Atria Institute of Technology, Bangalore, India on 28<sup>rd</sup> February 2024.
- Photonic Bandgap Sensors, One day Hands on Workshop on Recent Developments in Photonics ,Organized by E&C Department in association with IEEE AIT Student Branch, Atria Institute of Technology, Bangalore, India on 28<sup>rd</sup> February 2024.
- Surface Plasmon Resonance Sensors, One day Hands on Workshop on Recent Developments in Photonics, Organized by E&C Department in association with IEEE AIT Student Branch, Atria Institute of Technology, Bangalore, India on 28<sup>rd</sup> February 2024.



- Quantum Concepts and its Applications, One day Hands on Workshop on Recent Developments in Photonics, Organized by E&C Department in association with IEEE AIT Student Branch, Atria Institute of Technology, Bangalore, India on 28<sup>rd</sup> February 2024.



## Awards

- Best project award for “Thyristor controlled VAR compensator for power factor improvement” By KSCST, held during 11-12, March 1988.
- Best project award for ”Modulation and demodulation of AM FM signals on a single carrier using energy operators” By KSCST, Held during 04-05, December 1998, at MIT Manipal.
- Best project award for “Real time AFM demodulation using DESA”, Held at PES, Mandya, during 2001.
- Selected for **Marquis Who's Who in Science and Engineering 2011-2012** (11<sup>th</sup> Edition) New Providence, NJ 07974, USA
- Selected as **TOP 100 ENGINEERS-2011** by International Biographical Centre, St Thomas' Place, ELY, CB7 4GG Great Britain.
- Elevated as Senior Member IEEE during July 2013
- Best paper award for the paper titled “Modeling of Photonic Crystal Ring Resonator Temperature Sensor” at International Conference on Electronics, Communication, Computer Science and Information Technology held on 27<sup>th</sup> April 2014 at Bangalore.
- Best paper award for the paper titled “A Novel Quantum Dot Automata Based Design For Multiplexers” at International Conference on Emerging Trends in Engineering and Technology (ICET-2015) held on 7<sup>th</sup> June 2015 at Bangalore
- Selected for **Marquis Who's Who in Science and Engineering 2016-2017** (12<sup>th</sup> Edition) New Providence, NJ 07974, USA
- Best paper award for the paper titled “Detection of Fluoride Contaminated Water in Dental Applications” at International Conference on Emerging Trends in Engineering and Technology (ICET-2015) held on 9<sup>th</sup> Aug 2015 at Bangalore

- Awarded as **Outstanding Scientist** in the field of Photonics , by Venus International foundation CARD , on 19<sup>th</sup> Dec 2015 .
- Awarded for **OUTSTANDING ENGINEERING ACHIEVEMENT-2017** by International Biographical Centre, St Thomas' Place, ELY, CB7 4GG Great Britain.
- Selected for Marquis **Who's Who in Science and Engineering 2017-2018** New Providence, NJ 07974, USA
- Selected for 2018 **Albert Nelson Marquis Lifetime Achievement Award** by Marquis **Who's Who in Science and Engineering** New Providence, NJ 07974, USA
- Awarded as IETE Distinguished Member by Institution of Electronics and Telecommunication Engineers(IETE), Mysuru on 6<sup>th</sup> November 2021.
- Best paper award for the paper titled “ Pressure Sensing using a Two-Dimensional Photonic crystal Sensor” at International Conference Recent Developments in Electronics and Communication Systems held on 22<sup>nd</sup> and 23<sup>rd</sup> July 2022 Organized by Department of Electronics and Communication Engineering, Aditya Engineering College , Surampalem East-Godavari District, Andhra Pradesh, INDIA
- Dr T S Indumathi Award : Conferred on 8<sup>th</sup> January 2022 at IEEE Annual General Body Meeting held at Reva University for outstanding contribution as a Volunteer in the field of Photonics for the competence in the field with abundant Knowledge of Photonics.

### **Administrative Activities**

- E&C association convener During, 1992, 1999, 2000, 2001, 2002.
- HAM 's club convener during 1992, 1993, 1997, 1998.
- Member of antiragging committee 2002, 2003, 2004, 2005, 2006.
- Squad for VTU, Exams
- Deputy Chief: VTU, Exams at KVG Sulya
- External Examiner M.Sc. (Electronics) University of Mysore.
- Member BOE PG Center University of Mysore
- Member Advisory committee for "International Journal of Mathematical Sciences and Engineering Applications", (IJMSEA).
- Reviewer for many international journals and international conference papers
- Branch counselor for IEEE MCE Student branch from 2008
- Department coordinator for TEQIP
- College examination coordinator
- Department coordinator for NBA
- Faculty advisor
- Chairman T&PC International conference on optical engineering 2012(ICOE2012), conducted during 26<sup>th</sup> -28<sup>th</sup> July at VTU Belgaum. Conducted by VTU Belgaum, Technically sponsored by IEEE Photonic society

- Secretary ,IEEE Photonic society(USA) From Jan 2012-2016, Bangalore chapter.
- HOD E& C Department since 1st January 2013
- Member staff selection committee AIT Chikamagalore
- Member Technical committee International conference on emerging trends in communication, control, signal processing and computing applications 2013(C<sup>2</sup> SPCA 2013) to be conducted during 10<sup>th</sup> -11<sup>th</sup> October 2013 at Bangalore .Conducted by Oxford college of engineering and Oklahoma state university, USA. Technically sponsored by IEEE Photonic society
- Member staff selection committee MCF(ISRO) Hassan.
- Member VTU LIC committee
- Expert Member staff selection committee MCE Hassan
- Session Chair- International Conference on Emerging Trends in Engineering and Technology) on 6<sup>th</sup> April 2014 at Bangalore
- Session Chair - International Conference on Electronics, Communication ,Computer Science and Information Technology on 27<sup>th</sup> April 2014 at Bangalore
- Session Chair - International Conference on Emerging Trends in Engineering and Technology)on 18<sup>th</sup> May 2014 at Bangalore
- Session Chair - International Conference on Emerging Trends in Engineering Technology on 8<sup>th</sup> June 2014 at Bangalore
- Session Chair - International Conference on Emerging Trends in Engineering Technology on 22nd June 2014 at Bangalore
- Program Chair – One week Faculty Development on Recent Technological Innovations in Optical Engineering (14<sup>TH</sup> TO 18<sup>TH</sup> JULY, 2014) , Sponsored by TEQIP-II and technically cosponsored by IEEE Photonic society (USA),Karnataka section. Conducted at MCE,Hassan.
- Session Chair - International Conference on Current trends in Engineering and Management (ICCTEM-2014) 19<sup>th</sup> July 2014 at VVCE,Mysore
- Session Chair - International Conference on Emerging Trends in Engineering Sciences (ICETES-2015) 25<sup>th</sup> April 2015 at Jain College of Engineering ,Belgaum
- Program Chair - International Conference on Emerging Trends in Engineering and Technology)on 10<sup>th</sup> May 2015 at Bangalore
- Program Chair - International Conference on Emerging Trends in Engineering and Technology)on 17<sup>th</sup> May 2015 at Bangalore
- Member staff selection committee Proudhavevaraya Institute of Technology ,Hospet.
- Program Chair - International Conference on Emerging Trends in Engineering and Technology)on 7<sup>th</sup> June 2015 at Bangalore
- TPC Member for Digital Life
- Program Chair - International Conference on Emerging Trends in Engineering and Technology)on 9<sup>th</sup> Aug 2015 at Bangalore
- TPC Member -50<sup>th</sup> Golden Jubilee Annual Convention on “Digital Life” 2<sup>nd</sup> -5<sup>th</sup> December ,2015, conducted by Computer Society of India at New Delhi



- Session Chair - International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016 held on 3<sup>rd</sup> and 5<sup>th</sup> March 2016 at Palanchur,Kancheepuram, Tamilnadu, India
- Coordinator - International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016 held on 3<sup>rd</sup> and 5<sup>th</sup> March 2016 at Palanchur,Kancheepuram, Tamilnadu, India
- Session Chair – International Conference On Internet Things & Applications for Smart City-2k16 (ICIOTAS-16),held on 18<sup>th</sup> and 19<sup>th</sup> March 2016 at Annamacharaya college of Technology and Sciences, Venkatapuram(Village), Renigunta(Mandal) Chittoor District ,Andra Pradesh.
- General Co-Chair – International Conference On Internet Things & Applications for Smart City-2k16 (ICIOTAS-16),held on 18<sup>th</sup> and 19<sup>th</sup> March 2016 at Annamacharaya college of Technology and Sciences, Venkatapuram(Village), Renigunta(Mandal) Chittoor District ,Andra Pradesh.
- Jury Head for ‘Do It Yourself -2016’ held at JSS Polytechnic for the Differently Abled, Mysore. Approved and Sponsored by DTE, Govt of Karnataka, on 26<sup>th</sup> March 2016.
- General Chair - International Conference on Advances in Engineering, Science and Technology on 17<sup>th</sup> April 2016 at Bangalore.
- General Chair– International Conference on Signal Processing, Communication and Computational Research (ICSPCCR-16),held on 18<sup>th</sup> and 19<sup>th</sup> May 2016 at Vidya Vikas Institute of Engineering & Technology, Mysore,India.
- General Chair– International Conference On Applied Science Engineering and Technology (ICASET-2016), held on 06<sup>th</sup> & 07<sup>th</sup> June . 2016, Organized by Sai Ram College of Engineering and Technology, Anekal, Bangalore, India
- General Chair– International Conference On Research Challenges in Engineering and Technology (ICRCET-2016) held on 18<sup>th</sup> & 19<sup>th</sup> August . 2016, Organized by Siddharth Institute of Engineering and Technology, Puttur,Chittoor District ,Andra Pradesh.
- Publicity Chair– Conference On Recent Advances in Lightwave Technology (CRALT-2016) held during 21<sup>st</sup> & 23<sup>rd</sup> September . 2016, Organized by IEEE Photonic Society, Bangalore chapter in association with Messe München India Pvt. Ltd, held at Bangalore International Exhibition Centre, Bangalore.
- Session Chair– Conference On Recent Advances in Lightwave Technology (CRALT-2016) held during 21<sup>st</sup> & 23<sup>rd</sup> September . 2016, Organized by IEEE Photonic Society, Bangalore chapter in association with Messe München India Pvt. Ltd, held at Bangalore International Exhibition Centre, Bangalore.
- General Chair– 2<sup>nd</sup> International Conference On Applied Science Engineering and Technology (ICASET-2016), held on 18<sup>th</sup> & 19<sup>th</sup> October . 2016, Organized by Sweatha Institute of Technology and Science, Tirupati, Andra Pradesh, India.
- General Chair– International Conference on Chip, Circuitry, Current, Coding, Combustion and Composites(i7C-2016), held on 10<sup>th</sup> & 11<sup>th</sup> November. 2016, Organized by Sai Ram College of Engineering and Technology, Anekal, Bangalore, India

- Session Chair– International Conference On Photonics (Photonics 2016) held during 4<sup>th</sup> & 8<sup>th</sup> December, 2016, Organized by IIT,Kanpur , held at IIT Kanpur, India.
- General Chair– International Conference on Technological Innovations in Engineering(ICTIE-2016), held during 15<sup>th</sup> & 16<sup>th</sup> December, 2016 Organized by MIT Polytechnic, Pune, Maharashtra, India
- Vice Chairman ,IEEE Photonic society(USA) From Jan 2017, Bangalore chapter.
- General Chair– International Conference on Recent Challenges in Engineering Technology (ICRCE-2017), held during 23<sup>rd</sup> & 24<sup>th</sup> Feb, 2017 Organized by , Sharad Institute of Technology college of engineering , Yadrav , Ichalkaranji ,Maharashtra, India
- Program Chair – One day workshop on MOEMS and Applications conducted by E&C Dept. Malnad college of Engineering, Hassan on 18<sup>th</sup> March 2017 (Sponsored by TEQIP-II).
- Program Chair – One day workshop on High Speed Optical Networks conducted by E&C Dept. Malnad college of Engineering, Hassan on 21<sup>st</sup> March 2017 (Sponsored by TEQIP-II).
- Session Chair- IEEE CYBERIA 17 conducted on 1st April 2017 at JSS Science and Technology University, Mysore, India.
- Session Chair - International Conference on Emerging Trends in Engineering (ICETE-2017) 12<sup>th</sup> May 2017 at NMAM Institute of Technology, Nitte, Udupi District, Karnataka, India.
- General Chair– International Conference on Current Research on Embedded , Information and Computer Technologies (ICEICT-2017),held during 2<sup>nd</sup> and 3<sup>rd</sup> June 2017 Organized by R R Institute of Technology , Bangalore, India.
- General Chair– International Conference on Internet of Things for Future Smart Cities (ICIOTSC-2017), held during 21<sup>st</sup> and 22<sup>nd</sup> July 2017, Organized by Geethanjali Institute of Science and Technology, Nellore District ,Andra Pradesh.
- Member Doctoral committee Dayanand Sagar University Bangalore
- Vice Chair IEEE Photonic Society Bangalore Chapter
- Secretary, IEEE Photonic Society All India Counsel.
- General Chair– International Conference on Applied Science Engineering and Technology(ICASET-2018), held during 16th and 17th March 2018, Organized by Sengunthar College of Engineering,Tituchengod,Tamil Nadu,India.
- Session Chair - International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-2018) 23<sup>th</sup> August 2018 at PES College of Engineering, Mandya, Karnataka, India
- Chief Convener-One week Faculty Development on Recent Advances in Photonics (3rd to 8th Dec, 2018) , Sponsored by TEQIP-III and technically cosponsored by IEEE Photonic society (USA),India Chapter. Conducted at Jorhat Engineering College,Jorhat, Assam, A Twinning program with MCE ,Hassan.
- Special Session Chair - International Conference on Computing for Sustainable Global Development (INDIACom-2019), held during 13th and 14th March 2019

Organized by Bharathi Vidyapeeth's Institute of Computer Applications and Management (BVICAM) , New Delhi, India.

- Co Patron- One week Faculty Development Programme on Recent Advances in Communication & Photonics , Sponsored by TEQIP –III and technically cosponsored by IEEE Photonic Society(USA) , India Chapter ,held during 8th and 12th July . 2019 at Veer Bahadur Singh Purvanchal University (Uma Nath Singh Institute of Engineering and Technology) Jaunpur , Uttar Pradesh, organized by Dept. of E&C, VBSPU(UNSIET) Jaunpur , UP.
- Invited as Advisory Board Committee Member(NBA) , Sai Vidya Institute of Technology ,Bangalore for 2019-2020.
- Convener - Three days “Hands- on Training on Photonic Sensor Simulation Tools” Sponsored by TEQIP-III ,and technical Co-sponsored by IEEE Photonic society, Bangalore Chapter during 3<sup>rd</sup> & 5<sup>th</sup> October 2019 at MCE Hassan.
- TPC Member– IEEE Workshop on Recent Advances in Photonics 2019 (WRAP 2019) held during 13<sup>th</sup> & 14<sup>th</sup> December, 2019, Organized by IIT,Guwahati , held at IIT Guwahati, Assam, India.
- Member-College Internal Complaints Committee(CICC) from 30/11/2019
- Member BOS ,Electrical Engineering Chandigarh University ,Mohali, Chandigarh . Punjab.
- Chief Convener -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.
- Member Advisory Committee - 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,Harayana, India.
- Covid task head for exams from 2020.
- Chair-Three days “Hands- on Training on Quantum Concepts and Applications” , held during 11<sup>th</sup> and 13<sup>th</sup> January , 2021Sponsored by by IEEE MCE Student Branch, MCE, Hassan.
- Chair-IEEE Webinar on IEEE Benefits and IEEE Funding for Projects ,By Dr Sujatha ,Professor ,BMS College of Engineering Bangalore , held on 17th April 2021, Jointly organized by IEEE MCE Student Branch and IEEE Bangalore Section, Bangalore, India.
- Member Advisory Committee- National Conference Recent Trends In Engineering (NCRTE-2021), held during 3rd & 4th May , 2021, Organized by Dayanand Sagar University , School of Engineering ,Bangalore , India.
- Chair-IEEE Webinar on Mode Locked Fiber Lasers ,By Dr Niloy K Dutta ,Professor ,University of Connecticut, USA , held on 22nd 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 .

- Chair-IEEE Webinar on Compensation of Impairments in Fiber Optic Systems ,By Dr Shiv Kumar ,Professor ,Mc Master University , Canada , held on 24nd 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 .
- Chair-IEEE Webinar on “Introduction to Photonics”,( In Kannada)By Dr. Gopalakrishna Hegde, Professor , IISc Bangalore , held on 28th May 2021, Organized by IEEE MCE Photonic Society Student Chapter , In association with IEEE Prakash Bharati India .
- Chair-IEEE Webinar on “Resonant cavity based optical modulators/switches using electro absorption effect” ,By Dr Sooraj Ravindran,,Professor , IIST Trivandram., held on 4nd June 2021, Organised by IEEE MCE Photonic Society Student Chapter , In association with IEEE Prakash Bharati India
- Chair -IEEE Webinar on “Possible Carrier Pathways for Engineering Graduates” held on 19th June 2021, Organised by IEEE MCE Student Branch , In association with IEEE Bangalore Section and IEEE Mysore Subsection
- Dean (Planning & Development) , Malnad College of Engineering since 15th Sept 2021
- Member & Subject Expert : Screening cum evaluation committee (For CAS Promotion), Department of Technical education, Government of Karnataka, 23/10/21.
- Session Chair– International Conference IEEE MysuruCon-2021 held during 24<sup>th</sup> & 25<sup>th</sup> October, 2021 , Sponsored by IEEE Mysore Subsection and Organized by Navkis College of Engineering, Hassan, Karnataka ,India.
- Reviewer- European Physical Journal D 4<sup>th</sup> January 2022.
- Convener- One day Symposium on Photonics and Quantum Concepts. Technically cosponsored by Prakash Bharathi IEEE Photonics Society(USA), India ,Organised by E&C Department ,Malnad college of Engineering in association with IEEE MCE Student Branch held on 28<sup>th</sup> May 2022 at E&C Department , Malnad college of engineering Hassan.
- Member Organizing Committee – IEEE International Conference on Data Science and Information System (ICDSIS-2022) held during 29<sup>th</sup> & 30<sup>th</sup> July, 2022 , Sponsored by IEEE Mysore Subsection and Organized by Malnad College of Engineering, Hassan, Karnataka ,India.
- Reviewer- European Physical Journal D 9<sup>th</sup> September 2022.
- Reviewer- Modern Physics Letters B 21<sup>St</sup> September 2022.
- Member- tender evaluation committee ,Hassan district authority for installation of digital LED screen during the opening of Hasanamba temple 6<sup>th</sup> October 2022
- Program Chair –One day workshop on Intellectual Property Rights and Cyber Law , held on 17<sup>th</sup> October 2022,Conducted by E&C department in association with IEEE MCE Student branch and IEEE Prakash Bharati India.
- Program Chair –One day workshop on Photonics: Opportunities and Challenges in India and Benefits of IEEE Photonics Society, held on 30<sup>th</sup> October 2022,Conducted by E&C department in association with IEEE MCE Student branch and IEEE Prakash Bharati India.



- Member: Screening cum evaluation committee (For CAS Promotion), Department of Technical education, Government of Karnataka, 23/10/21, 7/02/22 & 12/12/22.
- Member BOE PG Center University of Mysore 04/01/23
- Reviewer Journal of Nanophotonics, SPIE (Society of Photo-Optical Instrumentation Engineers) 24/01/2023 reviewed on 9.02.2023.
- Member: Institute For Engineering Research and Publication (IFERP) 3/02/23.
- Session Chair: International Conference on Recent Trends in Electronics and Communication (ICRTEC 23), Organised and hosted by The National Institute of Engineering, Mysuru (Dept of ECE) on 10<sup>th</sup> & 11<sup>th</sup> February 2023.
- Expert: Academic and Administrative Audit Sidda Ganga Institute of Technology, Tumkur conducted on 3<sup>rd</sup> October 2023.
- Reviewer Optical and Quantum Electronics (Springer Nature Journal) 8<sup>th</sup> October 2023
- Reviewer Plasmonics (Springer Nature Journal) 27<sup>th</sup> November 2023
- Organizing Chair : IEEE MysuruCon 2023 3<sup>rd</sup> Edition of the Flagship International Conference Series of IEEE Mysuru Subsection in Association with IEEE Bangalore Section hosted by E&C Department, Malnad College of Hassan, on Emerging Technologies for Smart cities conducted during 1<sup>st</sup> and 2<sup>nd</sup> December 2023.
- Member BOS SJCE, Mysore meeting held on 6<sup>th</sup> December 2023
- Reviewer Journal of Nano Photonics (SPIE International Society for Optics and Photonics) 5<sup>th</sup> January 2024
- Reviewer Scientific Reports (Springer Nature Journal) 17<sup>th</sup> January 2024
- Member VTU LIC committee (4<sup>th</sup> and 5<sup>th</sup> March 2024)

### **Other Achievements**

- Chairman T&PC International conference on optical engineering 2012 (ICOE2012), conducted during 26<sup>th</sup> -28<sup>th</sup> July at VTU Belgaum. Conducted by VTU Belgaum, Technically sponsored by IEEE Photonic society
- Secretary, IEEE Photonic society (USA) From Jan 2012-2016, Bangalore chapter.
- Vice Chairman, IEEE Photonic society (USA) From Jan 2017, Bangalore chapter.
- Member Technical committee International conference on emerging trends in communication, control, signal processing and computing applications 2013 (C2 SPCA 2013) to be conducted during 10<sup>th</sup> -11<sup>th</sup> October 2013 at Bangalore. Conducted by Oxford college of engineering and Oklahoma state university, USA. Technically sponsored by IEEE Photonic society
- Branch counselor for IEEE MCE Student branch from 2008
- Reviewer for many international journals and international conference papers
- HAM 's club convener during 1992, 1993, 1997, 1998
- Member Advisory committee for "International Journal of Mathematical Sciences and Engineering Applications", (IJMSEA).

- External Examiner M.Sc. (Electronics) University of Mysore.
- Member BOE PG Center University of Mysore
- MCE Autonomous examination coordinator
- Member staff selection committee AIT Chikamagalore
- Member VTU LIC committee
- Expert Member staff selection committee MCE Hassan
- Invited for technical talks at universities and colleges and international conferences.
- Session Chair-International Conference on Emerging Trends in Engineering and Technology) on 6<sup>th</sup> April 2014 at Bangalore.
- Session Chair -International Conference on Electronics, Communication ,Computer Science and Information Technology on 27<sup>th</sup> April 2014 at Bangalore.
- Session Chair -International Conference on Emerging Trends in Engineering and Technology)on 18<sup>th</sup> May 2014 at Bangalore
- Session Chair -International Conference on Emerging Trends in Engineering Technologyon 8<sup>th</sup> June 2014 at Bangalore
- Session Chair -International Conference on Emerging Trends in Engineering Technologyon 22nd June 2014 at Bangalore
- Program Chair –One week Faculty Development on Recent Technological Innovations in Optical Engineering(14<sup>TH</sup> to 18<sup>th</sup> July, 2014) , Sponsored by TEQIP-II and technically cosponsored by IEEE Photonic society (USA),Karnataka section. Conducted at MCE,Hassan.
- Session Chair -International Conference on Current trends in Engineering and Management (ICCTEM-2014)19<sup>th</sup> July 2014 at VVCE,Mysore
- Session Chair -International Conference on Emerging Trends in Engineering Sciences (ICETES-2015)25<sup>th</sup> April 2015 at Jain College of Engineering ,Belgaum
- Program Chair -International Conference on Emerging Trends in Engineering and Technology)on 10<sup>th</sup> May 2015 at Bangalore
- Program Chair -International Conference on Emerging Trends in Engineering and Technology)on 17<sup>th</sup> May 2015 at Bangalore
- Member staff selection committee Proudhadivaraya Institute of Technology ,Hospet.
- Program Chair -International Conference on Emerging Trends in Engineering and Technology)on 7<sup>th</sup> June 2015 at Bangalore
- TPC Member for Digital Life
- Program Chair -International Conference on Emerging Trends in Engineering and Technology)on 9<sup>th</sup> Aug 2015 at Bangalore
- TPC Member -50<sup>th</sup> Golden Jubilee Annual Convention on “Digital Life” 2<sup>nd</sup> - 5<sup>th</sup> December ,2015, conducted by Computer Society of India at New Delhi
- Session Chair -International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016 held on 3<sup>rd</sup> and 5<sup>th</sup> March 2016 at DMI college of Engineering, Palanchur,Kancheepuram, Tamilnadu, India
- Coordinator -International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016 held on 3<sup>rd</sup> and 5<sup>th</sup> March 2016 at DMI college of Engineering Palanchur,Kancheepuram, Tamilnadu, India.
- Session Chair –International Conference On Internet Things & Applications for Smart City-2k16(ICIOTAS-16),held on 18<sup>th</sup> and 19<sup>th</sup> March 2016 at Annamacharaya college of Technology and

Sciences, Venkatapuram(Village),Renigunta(Mandal)Chittoor District,Andra Pradesh.

- General Co-Chair –International Conference On Internet Things & Applications for Smart City-2k16(ICIOTAS-16),held on 18<sup>th</sup> and 19<sup>th</sup> March 2016 at Annamacharaya college of Technology and Sciences, Venkatapuram(Village),Renigunta(Mandal)Chittoor District,Andra Pradesh.
- Jury Head for ‘Do It Yourself -2016’ held at JSS Polytechnic for the Differently Abled, Mysore. Approved and Sponsored by DTE, Govt of Karnataka, on 26<sup>th</sup> March 2016.
- General Chair -International Conference on Advances in Engineering, Science and Technology on 17<sup>th</sup> April 2016 at Bangalore.
- General Chair–International Conference Signal Processing, Communication and Computational Research (ICSPCCR-16),held on 18<sup>th</sup> and 19<sup>th</sup> May 2016 at Vidya Vikas Institute of Engineering & Technology, Mysore,India.
- General Chair–International Conference On Applied Science Engineering and Technology(ICASET-2016), Organized by Sai Ram College of Engineering and Technology, Anekal, Bangalore, India
- General Chair–International Conference On Research Challenges in Engineering and Technology (ICRCET-2016) held on 18<sup>th</sup> & 19<sup>th</sup> August . 2016, Organized by Siddharth Institute of Engineering and Technology, Puttur,Chittoor District,Andra Pradesh.
- Publicity Chair–Conference On Recent Advances in Lightwave Technology (CRALT-2016) held during 21<sup>st</sup> & 23<sup>rd</sup> September . 2016, Organized by IEEE Photonic Society, Bangalore chapter in association with Messe München India Pvt. Ltd, held at Bangalore International Exhibition Centre, Bangalore.
- Session Chair–Conference On Recent Advances in Lightwave Technology (CRALT-2016) held during 21<sup>st</sup> & 23<sup>rd</sup> September . 2016, Organized by IEEE Photonic Society, Bangalore chapter in association with Messe München India Pvt. Ltd, held at Bangalore International Exhibition Centre, Bangalore.
- General Chair–2<sup>nd</sup> International Conference On Applied Science Engineering and Technology(ICASET-2016),held on 18<sup>th</sup> & 19<sup>th</sup> October . 2016, Organized by Sweatha Institute of Technology and Science, Tirupati, Andra Pradesh, India
- General Chair–InternationalConference on Chip, Circuitry, Current, Coding, Combustion and Composites(i7C-2016),held on 10<sup>th</sup> & 11<sup>th</sup> November. 2016, Organized by Sai Ram College of Engineering and Technology, Anekal, Bangalore, India.
- Session Chair–International Conference On Photonics (Photonics 2016) held during 4<sup>th</sup> & 8<sup>th</sup> December, 2016, Organized by IIT,Kanpur , held at IIT Kanpur, India.
- General Chair– InternationalConference on Technological Innovations in Engineering(ICTIE-2016), held on 15<sup>th</sup> & 16<sup>th</sup> December, 2016 Organized by MIT Polytechnic, Pune, Maharashtra, India
- General Chair– InternationalConference on Recent Challenges in Engineering Technology (ICRCE-2017), held during 23<sup>rd</sup> & 24<sup>th</sup> Feb, 2017 Organized by , Sharad Institute of Technology college of engineering , Yadrav , Ichalkaranji ,Maharashtra, India.

- Program Chair –One day workshop on MOEMS and Applications conducted by E&C Dept. Malnad college of Engineering, Hassan on 18<sup>th</sup> March 2017 (Sponsored by TEQIP-II).
- Program Chair –One day workshop on High Speed Optical Networks conducted by E&C Dept. Malnad college of Engineering, Hassan on 21<sup>st</sup> March 2017 (Sponsored by TEQIP-II).
- Session Chair IEEE CYBERIA 17 conducted on 1st April 2017 at JSS Science and Technology University, Mysore, India.
- General Chair–InternationalConference on Current Research on Embedded , Information and Computer Technologies (ICEICT-2017),held during 2<sup>nd</sup> and 3<sup>rd</sup> June 2017 Organized by R R Institute of Technology , Bangalore, India.
- General Chair–International Conference on Internet of Things for Future Smart Cities (ICIOTSC-2017), held during 21<sup>st</sup> and 22<sup>nd</sup> July 2017, Organized by Geethanjali Institute of Science and Technology, Nellore District, Andhra Pradesh.
- Member Doctoral committee Dayanand Sagar University Bangalore
- Vice Chair IEEE Photonic Society Bangalore Chapter
- Secretary ,IEEE Photonic Society All India Counsel.
- General Chair– International Conference on Applied Science Engineering and Technology(ICASET-2018), held during 16<sup>th</sup> and 17<sup>th</sup> March 2018, Organized by Sengunthar College of Engineering, Tituchengod, Tamil Nadu, India.
- Session Chair - International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-2018) 23<sup>th</sup> August 2018 at PES College of Engineering, Mandya, Karnataka, India
- Chief Convener-One week Faculty Development on Recent Advances in Photonics(3<sup>rd</sup> to 8<sup>th</sup> Dec, 2018) , Sponsored by TEQIP-III and technically cosponsored by IEEE Photonic society (USA), India Chapter. Conducted at Jorhat Engineering College, Jorhat, Assam, A Twinning program with MCE ,Hassan.

### **Research and Development/Consultancy**

- R&D Report on “AC Power Control Of Resistive Loads Using TRIAC” submitted to CESC, Hassan on 12<sup>th</sup> May 2017
- Assisting BSNL, Hassan in resolving problems associated with C-DOT CM(Central Module) and other issues regarding optical networks and components(22.10.15) since 2011.
- DST- Fellowship 2021 of Rs 20,000 per month for my PhD Scholar Yashaswini P. R for her thesis topic “Analysis of Photonic sensors for various applications”.

### **Publications**

#### **International conferences**

- P.C.Srikanth, Pradip Sircar “Subcarrier multiplexed coherent lightwave systems using combined amplitude and frequency modulation scheme” Proceedings of IEEE TENCON 98, pp356-359



- P.C.Srikanth,M.V.Sathyanarayana,T.Srinivas,“Computing Approximate Survivability and blocking probabilities in Wavelength Routed All-Optical Networks”,pp349-345,International conference on advances in information and communication technology([ICICOT07](#)) held at MIT Manipal during 28<sup>th</sup>-30<sup>th</sup> December
- P.C.Srikanth,M.V.Sathyanarayana ,T.Srinivas,“Fault management in survivable WDM optical networks using an adaptive hybrid algorithm”, pp50, International conference on computing communication and networking (ICCCN08) held during 18-20 December 2008 at Chettinadu college of engineering & technology,Karur,TN.
- P.C.Srikanth,M.V.Sathyanarayana ,T.Srinivas,“Fault management in survivable WDM optical networks :An hybrid algorithm approach”, pp1472-1474, International conference “World congress on science, engineering and technology(WCSET 2009) 25-27 February 2009 at Penang,Malaysia.
- P.C.Srikanth,M.V.Sathyanarayana ,Balaraju DT.Srinivas” Fault tolerance in survivable WDM optical networks using hybrid scheme”IEEE TENCON 2009 held at Singapore during 23-26 November 2009.
- Kempegowda.K, P.C.Srikanth “Incentive oriented protocol for delay tolerant networks”, pp 17-22 International conference on Control,Communication and Computer Technology(CCCT-2011) held during 19<sup>th</sup> November 2011 at Bangalore, India
- Chiranthana.H.R, P.C.Srikanth “Detecting and effective routing of time critical events using congestion and delay aware routing in WSNs” pp 9-16 , International conference on Electronics and Communication Engineering(ICECE) held during 24<sup>th</sup> June 2012 at Ahmedabad, India
- Mahabaleshwara Bhat P, P.C.Srikanth “Modeling route handoff in MANET using channel aware routing protocol” pp 91-96, International conference on Electrical and Electronics Engineering(ICEEE) held during 30<sup>th</sup> June 2012 at Mysore, India.
- Divya G.S, P.C.Srikanth “VoIP based Embedded System Design for Communication Applications”, pp 80-85 International conference on Information Technology, Electronics and Communications(ICITEC-2013) held during March 30<sup>th</sup> &31<sup>st</sup> 2013 at Bangalore, India.
- Madhurya B Eshwar, P.C.Srikanth “A New Co-operative Nodes Based Route Discovery and Game Theory Based Routing Algorithm for WSN” pp 179-183, International Conference on Electronics and Communication Engineering(ICECE 2013) held during 24<sup>th</sup> April 2013 at Bangalore, India.
- Indira Bahaddur, Triveni C L, P.C.Srikanth “Novel Defense Mechanism Against Data Flooding Attacks in Ad Hoc Network” pp31 - 35, IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT 2013) held during 4<sup>th</sup> & 6<sup>th</sup> July 2013 in Vivekanandha College of Engineering for Women, Tiruchengode, Namakkal District, Tamil Nadu, INDIA.
- Indira Bahaddur, Triveni C L, P.C.Srikanth “OFDM Transceiver Design using C” pp 38 -41, IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT 2013) held during

4<sup>th</sup> & 6<sup>th</sup> July 2013 in Vivekanandha College of Engineering for Women, Tiruchengode, Namakkal District, Tamil Nadu, INDIA.

- Indira Bahaddur, Triveni C L, P.C.Srikanth “AN IP TRACEBACK SYSTEM TO FIND THE REAL SOURCE OF ATTACK USING FDPM” pp 22-26, IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT 2013) held during 4<sup>th</sup> & 6<sup>th</sup> July 2013 in Vivekanandha College of Engineering for Women, Tiruchengode, Namakkal District, Tamil Nadu, INDIA
- Divya G.S, P.C.Srikanth “Embedded VoIP Communication System with Graphical User Interface” pp28 -33, IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT 2013) held during 4<sup>th</sup> & 6<sup>th</sup> July 2013 in Vivekanandha College of Engineering for Women, Tiruchengode, Namakkal District, Tamil Nadu, INDIA
- Rajeshwari S, Indira Bahaddur, Preeta Sharan, P C Srikanth “A Design and Simulation of Optical Pressure Sensor based on photonic crystal in Sub-MicronRange” pp18-21, International Conference on Emerging Trends in Engineering and Technology (ICET-2014) held on 6<sup>th</sup> April 2014 at Bangalore,India.
- Shruthimala N S, Indira Bahaddur, Preeta Sharan, P C Srikanth “MEMS Based Optical Sensor for Salinity Measurement”, pp22-24, International Conference on Emerging Trends in Engineering and Technology (ICET-2014) held on 6<sup>th</sup> April 2014 at Bangalore,India.
- H.S.Mohana, Navya. K,P.C.Srikanth,G.Shivakumar “Stone In-scripted Kannada characters Matching using SIFT” , pp,126-131, ASAR-International Conference on Electrical, Electronics and Computer Engineering(ASAR-ICEECE-2014), held on 6<sup>th</sup> April 2014 at Mysore,India.
- Mallika C S, P C Srikanth, Preeta Sharan “ Modeling of Photonic Crystal Ring Resonator Temperature Sensor”,pp 59-62, International Conference on Electronics, Communication, Computer Science and Information Technology held on on 27<sup>th</sup> April 2014 at Bangalore
- Niranjana Dasar, Triveni C L, P.C.Srikanth “A study on Link Weight Performance Analysis in an Intra-Domain Networks”,pp 20-24, International Conference on Electronics, Communication, Computer Science and Information Technology held on on 27<sup>th</sup> April 2014 at Bangalore
- Rashmi T.S ,Triveni C L, P.C.Srikanth “Design and Analysis of Combined Gradient Descent and Genetic Algorithm for Wireless Sensor Networks”pp 25-29, International Conference on Electronics, Communication, Computer Science and Information Technology held on on 27<sup>th</sup> April 2014 at Bangalore.
- Shashank S Bhagwat,Triveni C L, P.C.Srikanth “Implementation and Analysis of Multiple Criteria Decision Routing Algorithm for Wireless Sensor Network”pp34-37, International Conference on Electronics, Communication, Computer Science and Information Technology held on on 27<sup>th</sup> April 2014 at Bangalore.
- Lavanya K. S , M.N.Ravikumar , P.C.Srikanth, “Color Image Compression and Encryption Using SPHIT and STREAM CIPHER Algorithm” pp 84-88,

Proceedings of ASAR International conference, held on 14<sup>th</sup> May 2014 at Mysore, India.

- Shravan.S.K , Triveni C L, P.C.Srikanth, Taresh B.M “Minimum resource Consumption Routing for Optical Networks” pp 36-40, International Conference on Emerging Trends in Engineering Technology (ICET-2014) held on 8<sup>th</sup> June 2014 at Bangalore, India.
- Taresh B.M, P.C.Srikanth, , Shravan.S.K “Detection of Human Bladder Cancer Cells Using Image Processing” pp 26-30, International Conference on Emerging Trends in Engineering Technology (ICET-2014) held on 8<sup>th</sup> June 2014 at Bangalore, India
- Adarsh D, Indira Bahaddur, Triveni.C L, P.C.Srikanth “Cross-Layer Design of Transport Protocol For Reliable Data Transfer in WSN” pp 15-20, International Conference on Emerging Trends in Engineering Technology (ICET-2014) held on 8<sup>th</sup> June 2014 at Bangalore, India
- Nandini Rao, Preeta Shran , P.C.Srikanth “A Novel Quantum-Dot Cellular Automata for Parity Bit Generator And Parity Checker” pp 34, International Conference on Emerging Trends in Engineering Sciences (ICETES-2015) held on 25<sup>th</sup> April 2015 at Jain college of engineering , Belgaum, India
- Girijamba D L , Preeta Shran , P.C.Srikanth “Analysis of Fluoride Detection in Water Using Photonics Based Biosensors” pp 63, International Conference on Emerging Trends in Engineering Sciences (ICETES-2015) held on 25<sup>th</sup> April 2015 at Jain college of engineering , Belgaum, India
- Bharath. P, Dharshan C.B, Syed Sabeer Hussaini, P.C.Srikanth, “The Design of a Wideband Circular Micro strip Patch Antenna for Wireless Application at 9GHz” pp 18-21, International Conference on Emerging Trends in Engineering and Technology (ICET-2015) held on 17<sup>th</sup> May 2015 at Bangalore, India
- Nandini Rao, Preeta Shran , P.C.Srikanth, “A Novel Quantum-Dot Cellular Automata Based Design for Multiplexers” **pp 21-24**, International Conference on Emerging Trends in Engineering and Technology (ICET-2015) held on 7<sup>th</sup> June 2015 at Bangalore, India, (ISBN9788192958066)
- Girijamba D L , Preeta Shran , P.C.Srikanth, “Detection of Fluoride Contaminated Water in Dental Applications” **pp 78-83**, International Conference on Emerging Trends in Engineering and Technology (ICET-2015) held on 9<sup>th</sup> August 2015 at Bangalore, India (ISBN9788192958066)
- Adithya B A, Thrimurthi M, Thandavamurthi H R, Yogesh H G, Gururaj H L , P C Srikanth, “Comparative Analysis of Different Deployment Techniques in Wireless Sensor Network” pp 3715-3719, International Conference on Electronics and Communication Systems (ICECS-2016) held on 25<sup>th</sup> and 26<sup>th</sup> February 2016 at Karpagam College of Engineering Coimbatore, Tamilnadu, India, (978-4673-1-16/\$31.00©2016 IEEE).
- Indira Bahaddur, P C Srikanth , Preeta Sharan, “A Photonic Crystal Based Pressure Sensor” pp 3902-3905, International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016 held on 3<sup>rd</sup> and 5<sup>th</sup> March 2016 at DMI College of Engineering, Palanchur, Kancheepuram, Tamilnadu, India, ( 978-1-4673-9939-5/16/\$31.00 ©2016 IEEE).

- Adarsh D, P C Srikanth , M.V.Sathyanarayana , “GPS Free Localization based on Relative Velocity in MANETs” pp 3892-3895, International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016 held on 3<sup>rd</sup> and 5<sup>th</sup> March 2016 at, DMI College of Engineering, Palanchur,Kancheepuram, Tamilnadu, India,(978-1-4673-9939-5/16/\$31.00 ©2016 IEEE).
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