



Report On
AICTE Training and Learning (ATAL) Academy
Sponsored
One Week Online FDP on Photonics
(20.09.2021 to 24.09.2021)


Application Number : 1613643530
Workshop ID : 1442
Thrust Area : Engineering
Title/Sub Thrust Area: Photonics


Organized by
Department of Physics, Electronics and Photonics,
Rajarshi Shahu Mahavidyalaya (Autonomous),
Latur-413512 Maharashtra


**AICTE Training and Learning (ATAL) Academy Sponsored
One Week Online FDP on Photonics
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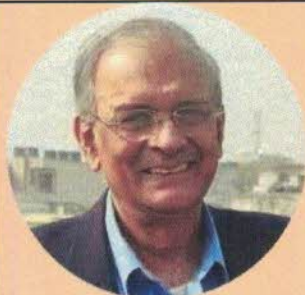
AICTE Training and Learning (ATAL) Academy Sponsored One Week Online FDP on Photonics was conducted online via Microsoft Teams Platform from 20th September to 24th September 2021. There were 161 participants registered for FDP from various universities, institutes and colleges representing 16 states of India. Out of which around 117 participants from different parts of the country participated actively. There were 14 Technical sessions which included 02 foreign speakers, 02 IIT Professors, 01 IIIT Professor, 01 NIT Professor, 01 Industry Expert, 01 Expert from CUSAT, 04 Experts from Institutes doing teaching and research in Photonics.

The inauguration was held online on 20th September 2021 at 8:30 am. Principal Anirudh Jadhav, Secretary, Shiv Chhatrapati Shikshan Sanstha, Latur was the Chairperson for the inaugural function. The FDP was inaugurated by Dr David R. Sokoloff, Professor of Physics, University of Oregon, USA and Member of UNESCO international team of resource persons who facilitate the workshops on Active Learning in Optics and Photonics. Chief Organizer Dr Mahadev Gavhane, Principal-Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, Dr A J Raju, Vice-Principal-Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, Prof S.N. Shinde, Vice-Principal-Rajarshi Shahu Mahavidyalaya (Autonomous), Latur were also present for the inaugural function. The session wise summary of the AICTE Training and Learning (ATAL) Academy Sponsored One Week Online FDP on Photonics is provided below.


Monday, 20.09.2021 09:00 AM to 11:00 AM	Session I : Active Learning of Introductory Optics: Strategies for the U.S. and the Developing World
	David R. Sokoloff Professor of Physics, Emeritus at the University of Oregon. He earned his B.A. at Queens College of the City University of New York and his Ph.D. in AMO Physics at the Massachusetts Institute of Technology. He served as AAPT President in 2011 (in the Presidential Chain 2009-2012)
Based on the widespread physics education research, Professor Sokoloff highlighted that most introductory physics students have difficulty in learning essential optics concepts even in the best of traditional courses, and that a well-designed active learning approach can be the remedy for this. The talk described strategies for promoting active involvement of students in their learning. The talk was focused on Interactive Lecture Demonstrations (ILDs) a learning strategy for large and small lectures. He also highlighted on the importance of online education.	


Monday, 20.09.2021 12:00 PM to 02:00 PM	Session II : Introduction to Photonics
	Dr Abhijit Yadav , M.Sc., SET, Ph. D. HoD, Physics, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur. Membership: International Solar Energy Society (ISES), International Frequency Sensor Association (IFSA), American Nano-society,
The talk focused on the elementary Photonics including science behind the generation, detection and manipulation of light. The differences and similarities between Optics and Photonics were explained with examples. The talk also highlighted that optical computer will compute thousand times faster than any electronic computer can ever achieve due to the physical limitation differences between light and electricity. The photonics processes including Ray optics, Wave optics, Electromagnetic optics, Quantum Optics/Photonics were elaborated in detail. The importance of Photonics with some real-world photonic applications was centre theme of the talk. The talk concluded with the biological effects of electromagnetic radiation.	


Monday, 20.09.2021 02:30 PM to 04:30 PM	Session III : Introduction to Optical Fiber Manufacturing
	Dr Pramod Watekar, PhD (IIT, Kharagpur 2004), Chief Manager, R&D, Sterlite Technologies Limited, Aurangabad. Indo-French IFCPAR fellow, Dept. of Atomic Energy fellow, Brain Korea fellow and Brain pool Korea fellow.
<p>The session started with basics of optical fiber and fundamental things required in designing optical fiber. The overview of fiber manufacturing methods including glass to fiber, Chemical Vapor deposition, Modified Chemical Vapor deposition, Outside Vapor Deposition, Vapour-Phase Axial deposition (VAD), Sol gel, molten glass and extrusion was taken during the talk. The talk also introduced the participants with cabling. The session was concluded with fiber to the home concept.</p>	


Tuesday, 21.09.2021 10:00 AM to 12.00 PM	Session IV: What is light and evolution of quantum theory?
	Dr Ajoy Ghatak , Former Professor at IIT Delhi, NASI Meghnad Saha Distinguished Professor. B.Sc. Agra University (1957), MSc., Delhi University (1959). Doctor of Philosophy, Cornell University, 1963. Membership: Fellow Optical Society of America, Optical Society of India, Institution of Electronics and Telecommunication Engineers.
<p>Prof Ajoy Ghatak elaborated the 'Brief History of light and evolution of quantum theory'. The Einstein's five papers that changed the face of physics were discussed at length. Photoelectric effect, de Broglie hypothesis, wave particle duality of electrons, the single slit diffraction experiment, the probabilistic interpretation of matter waves, an understanding of interference experiment, polarization of photon, the Dirac delta function and Fourier transforms were explained in depth.</p>	


Tuesday, 21.09.2021 12.00 PM to 2.00 PM	Session V : Application of Specialty Optical Fibers and Waveguides
	Dr Ajeet Kumar, Delhi Technological University, Delhi, India Dr. Kumar is recipient of Young Scientist Award by Uttarakhand Government, India. He is a Life member of Optical Society of India (OSI), Indian Laser association (ILA) and The Indian Science Congress Association (ISCA) and member of Optical Society of America (OSA).
He discussed the specialty optical fibers and extended it to large mode area fiber designs, dispersion compensating fiber designs; gain flattened optical fibers, main components of Laser action, the necessity of fiber laser, leaky structure with graded index cladding, simplified waveguide design, dual core fiber design, etc. He also elaborated on rectangular core large mode area photonic crystal fiber for high power applications. The session definitely helped the participants in developing ideas about the simulation of optical fibers based applications.	


Tuesday, 21.09.2021 02.30 PM to 4.30 PM	Session VI : Optical Fibers for Sensing Applications
	Dr Pramod Watekar, PhD (IIT, Kharagpur 2004), Chief Manager, R&D, Sterlite Technologies Limited, Aurangabad. Indo-French IFCPAR fellow, Dept. of Atomic Energy fellow, Brain Korea fellow and Brain pool Korea fellow.
The session was planned for the beginners in the field of optical fibers and sensors. The basics of optical fibers needed for sensing applications, concepts of refractive index, propagation of light in optical fiber, modes in optical fibers, losses in optical fiber including micro bending loss, polarization, nonlinearity in optical fibers, advantages of optical fibers, phase modulation sensors, temperature sensing with FBG, coherent OTDR and distributed acoustic sensing, installed cable health monitoring using BOTDR, surface Plasmon resonance, faraday effect and optical AC current transformer, Test Bed, etc were discussed at length. The talk helped in creating interest among the participants about optical fiber based sensors.	


Wednesday, 22.09.2021 10:00 AM to 12.00 PM	Session VII: Materials for Advanced Devices based on Photonics
	Dr Nishad Deshpande, Dean, Indian Institute of Information Technology, Surat, Former Research Professor in School of Advanced Materials Science and Engineering, Sungkyunkwan University, South Korea, DST INSPIRE Faculty (2013-2018)
<p>The talk has taken the overview of emerging technologies in Photonics and Photonic crystals. The concept of spin photonic crystal was elaborated in detail. The 1D Photonic crystals and influence of the semiconductor layer on the Photonic band-gap (PBGs) spectra of photonic crystals were discussed. The 1D Co₂MnSi spin photonic crystals and their magnetic optic effects, 2D Co spin photonic crystals and their magnetic and magnetic optic effects, influence of the defect sub layer on the 2D Co spin photonic crystals were the highlights of his talk. The talk has created research interest about spin photonic crystals.</p>	


Wednesday, 22.09.2021 12:00 PM to 02.00 PM	Session VIII: Photoluminescence Spectroscopy
	Dr D Haranath, Associate Professor, National Institute of Technology, Warangal. Earlier he served as Principal Scientist at CSIR-National Physical Laboratory, New Delhi for 20 years.
<p>The theory, measurement and applications of Photoluminescence Spectroscopy were discussed in detail. Luminescence, fluorescence and phosphorescence, luminescent materials and devices, design of luminescent materials for device applications, methods of Phosphor preparation, Luminescence spectrophotometry, fluorescence spectrometer, obtaining fluorescence spectra, common fluorophores, time resolved spectroscopy, nanophosphor for white LED, special nanophosphor for security ink and invisible codes, sunlight sensitized energy storage nanophosphor, etc were the some of the highlights of his lecture.</p>	


Wednesday, 22.09.2021 02:30 PM to 04.30 PM	Session IX: Lasers, Holography and LIGO
	Dr Anchal Srivastava, Professor of Physics, University of Lucknow. ISCAS -2015 Gold Medal.
<p>She started her lecture with Basics of Laser, construction and operation of laser, properties of laser, etc. The Free electron laser was also deliberated. The various applications of laser including spectroscopy, chemistry, electronics, medicine, holography, nanotechnology, nuclear fusion, defence, welding, cutting, drilling, isotope separation, range finder, range designator, warming system, altitude switch, seeker, proximity sensor, sensors, Gyroscope, Ellipsometry, laser cooling, optical scanner, laser printer, compact discs, optical computer, etc were discussed. The second part of her lecture was devoted to the holography and LIGO. The session was concluded with the research opportunities for students in LIGO.</p>	

Thursday, 23.09.2021 10.00 AM to 12.00 PM	Session X : Photonics: Fundamentals and Applications
	Dr. Vipul Rastogi, Professor of Physics, IIT, Roorkee. Fellow of Optical Society of India, Member of IEEE Photonics society, Life Member of Indian Laser Association, Life Member of Indian Association of Physics Teachers, and Life Member of Indian Physics Association. He mentors IIT Roorkee Student Chapter of Optical Society of America.
<p>He explained photonics in respect with generation, manipulation, transmission, detection and frequency conversion/exotic effects of light. Ruby laser, He-Ne laser, laser characteristics spontaneous emission, stimulated emission, interaction of radiation with matter, band theory of semiconductors, types of semiconductors, injection electroluminescence, Laser diode, DBR and DFB Lasers, External modulation : electro optic effect, optical fiber, photoelectric effect, p-n junction photodiode, avalanche photodiode, optical parametric amplification and difference frequency generation are the some of the highlights of his talk.</p>	

Thursday, 23.09.2021 12.00 PM to 02.30 PM	Session XI : Cognizance of Mental Health
	Dr. Juhi Deshmukh, Department of Psychology, S. P. Pune University, Pune, NET, PhD. (Clinical Psychology), P.G. Diploma in Counselling, M.A. Psychology, Clinical Psychology
<p>She started the session with cognizance of mental health in current times. Importance of holistic health, causes of stress among teachers, taking care, validation of emotions, coping effectively, be thankful for what you have, self-compassion, compassion for others, resilience, etc were the focus points of her talk. She explained permalicious as vaccine for mental wellbeing. She focused on sharing happiness, peace and creativity with others.</p>	

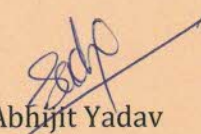
Thursday, 23.09.2021 02.30 PM to 04.30 PM	Session XII : Active Learning in Developing Countries : Some Examples in Teaching Optics
	Dr Souad Lahmar, Professor, Institut Préparatoire aux Etudes Scientifiques et Techniques, Tunisia, Coordinator of the ALOP project in Africa, Referee at Scientific Journals, Invited speaker, Organizer of National and International workshops, colloquies and Training Schools, Founder member of Tunisian Society of Optics.
<p>She through her illustrative ideas and examples explained lot of ways of teaching optics in an active learning way. The importance of active learning over passive learning, spectroscopy, atmospheric optics, absorption and dispersion, polarization by scattering, polarization by the sky, emission of colors, multiplexing, optical voice communication system, use of diffraction grating to receive the information were some of the focus points of her talk. She recommended introduction of innovative, active learning approaches to faculty in developing countries.</p>	

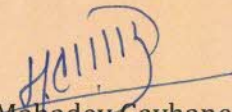
Friday, 24.09.2021 10:00 AM to 12:00 PM	Session XIII : Microlasers for Sensing Applications
	Prof Kailasnath Madanan, Professor, International School of Photonics, CUSAT, Kerala. M.Tech. (Optoelectronics and Laser Technology), PhD (Photonics), Technology transfer : Polymer optical fibre fabrication transferred to Sterlite Optical Technologies Ltd, Aurangabad
<p>Professor Kailasnath explained Optical Fibre Sensors, waveguides, Mach Zender and Sagnac interferometer, fiber optic gyroscope, fiber grating based sensor, whispering gallery mode micro cavity sensor, luminescent probes, fluorescence microscopy, optical resonators, micro resonator as dynamic filter in optical communication, WGM resonators, micro cavities, silica based and polymer WGM resonators, Benefits of optical fiber sensors, energy transfer in dye mixtures in liquid and matrices, possibility of multiwavelength amplification, photonic crystal fibers to hollow fibers, passive and active WGM sensor, micro cavity embedded hollow polymer fiber as WGM sensor, refractive index sensing using dye doped micro ring embedded hollow polymer optical fiber, tuning of WGM's using hollow optical fiber strain sensor etc.</p>	

Friday, 24.09.2021 12:00 PM to 02:00 PM	Session XIV : Photonic Research : Preparation of Project Proposal and Funding Opportunities
	Dr Abhijit Yadav , M.Sc., SET, Ph. D. HoD, Physics, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur. Membership: International Solar Energy Society (ISES), International Frequency Sensor Association (IFSA), American Nano-society,
<p>The talk focused on need of research, areas and institutes of research in photonics, timing for applying research project, preplanning, types of research and projects, targeting funding agencies, writing title, abstract, summary, introduction, literature review, origin of the idea/background/ rationale, aim and objectives, methodology, action plan, time line, budget with justification, expected outcome, benefit to the society and impact, funding agencies available for photonic research. The talk created interest about the photonic research and writing project proposals.</p>	

The last session of FDP was the valedictory. Dr Ajay Jadhav, Member, Shiv Chhatrapati Shikshan Sanstha, Latur was the Chairperson; and distinguished personality Dr Rajaram Mane, Professor and Director, Innovation, Incubation and Linkages, SRTM, University, Nanded, India as chief guest.

The organization of this Faculty Development Programme on Photonics is possible because of financial support from AICTE Training and Learning (ATAL) Academy. Thanks to Prof. Anil Sahasrabudhe (Chairman, AICTE), Prof. Rajive Kumar (Member Secretary, AICTE) and Prof Ravindra Kumar Soni (Director ATAL), Smt. Mamta Rani Agarwal, Adviser-I, Dr. Amit Dutta, Deputy Director, Dr. Girdhari Lal Garg, Assistant Director for kind and timely support.


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Principal and Director-FDP
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**AICTE Training and Learning (ATAL) Academy Sponsored
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Programme Schedule

Monday, 20.09.2021			
8.30 AM to 9.00 AM	09:00 AM to 11:00 AM	12.00 Noon to 2.00 PM	2:30 PM to 4.30 PM
Monday 20.09.2021 Inaugural Programme	Session 1 Active Learning of Introductory Optics: Strategies for the U.S and the Developing World Dr David R. Sokoloff Professor of Physics, University of Oregon, USA	Session 2 Introduction to Photonics Dr Abhijit Yadav FDP Coordinator	Session 3 Introduction to Optical Fiber Manufacturing Dr Pramod Watekar Sterlite Technologies Limited
		LUNCH BREAK	
21.09.2021 to 24.09.2021			
Date	10:00 AM to 12:00 Noon	12.00 Noon to 2.00 PM	2:30 PM to 4.30 PM
Tuesday 21.09.2021	Session 4 What is light and evolution of quantum theory? Ajoy Ghatak, Former Professor at IIT Delhi, NASI Meghnad Saha Distinguished Professor	Session 5 Application of Specialty Optical Fibers and Waveguides Dr Ajeet Kumar Delhi Technological University, Delhi, India	Session 6 Optical Fibers for Sensing Applications Dr Pramod Watekar Sterlite Technologies Limited

Wednesday 22.09.2021	Session 7 Materials for Advanced Devices based on Photonics Dr Nishad Deshpande Indian Institute of Information Technology, Surat	Session 8 Photoluminescence Spectroscopy Dr D Haranath National Institute of Technology, Warangal	Session 9 Lasers, Holography and LIGO Anchal Srivastava University of Lucknow
Thursday 23.09.2021	Session 10 Photonics: Fundamentals and Applications Dr Vipul Rastogi Professor of Physics, IIT, Roorkee	Session 11 Cognizance of Mental Health Dr Juhi Deshmukh Savitribai Phule Pune University, Pune	Session 12 Active Learning in Developing Countries : Some Examples in Teaching Optics Professor, Souad Lahmar Institut Préparatoire aux Etudes Scientifiques et Techniques, Tunisia
Friday 24.09.2021	Session 13 Microlasers for Sensing Applications Prof Kailasnath Madanan International School of Photonics, CUSAT, Kerala	Session 14 Photonic Research : Preparation of Project Proposal and Funding Opportunities Dr Abhijit Yadav FDP Coordinator	Session 15 Valedictory Programme


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Coordinator-FDP




Dr Mahadev Gavhane
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Application Number : 1613643530
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