Report On
AICTE Training and Learning (ATAL) Academy Sponsored
One Week Online FDP on Photonics
(03.11.2020 to 07.11.2020)

Application Number	**:**	**1584340167**
Workshop ID	**:**	**180**
Thrust Area	**:**	**Engineering**
Title/Sub Thrust Area:		**Photonics**

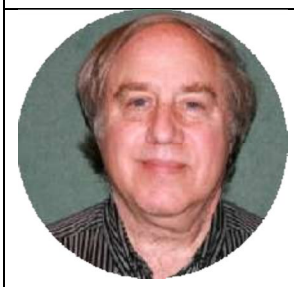
Organized by

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
(03.11.2020 to 07.11.2020)

AICTE Training and Learning (ATAL) Academy Sponsored One Week Online FDP on Photonics was conducted through online mode via Microsoft Teams Platform from 3rd November, 2020 to 7th November, 2020. There were 156 participants registered for FDPfrom various universities, institutes and colleges representing 16 states of India. Out which around 110 participants from different parts of the country participated actively.There were 15 Technical sessions which included 3 foreign speakers, 06 IIT Professors, 01 Padma Shri, 02 Industry experts, 03 from Institutes doing teaching and research in Photonics and in addition with 1 session on Mindfulness and Stress Management.

The FDP was inaugurated by Honourable 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, Honourable Dr. Gopalraoji Patil, President Shiv Chhatrapati Shikshan Sanstha, Latur was the Chairperson for the inaugural function. Professor Souad Lahmar, Institut Préparatoire aux Etudes Scientifiques et Techniques, Tunisia was the guest of honour.

Tuesday, 03.11.2020 09:00 AM to 10:30 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)
Professor Sokoloff in his talk highlighted the importance of interactive lecture demonstrations; home adopted active learning, Light and optics conceptual evaluations, the various characteristics of curricula that make them effective etc. His talk helped a lot in updating our teachers in optics and photonics.	

Tuesday, 03.11.2020 10:30 AM to 12.00 AM	**Session II :**Introduction to Active Learning in Optics and 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,
Dr Yadav in his speech discussed about the passive learning environment and active learning environment, the importance of Active Learning in Optics and Photonics. He highlighted the precautions to be taken with Laser, minimizing the danger with laser, light intensity around a point source. He also highlighted the opportunities in photonics field.	

Tuesday, 03.11.2020 2:30 PM to 4.00 PM	**Session III :**Interface of Photonics and Health Approaches
	**Dr. Nanasaheb Thorat,** MSc., PhD., MRSC (UK), Marie Curie Fellow Researcher, Medical Science Division, University of OXFORD. Dr. Thorat has a strong record of collaborative research in science from UK,Japan, USA, Germany, Korea, Ireland, Poland, India, and Australia.
The talk focused on the treatment of various diseases through Photonics. He highlighted the use of lasers in cancer therapy, photodynamic therapy, two photon triggered photo therapy for treatment of brain cancer, photo/magnetic stimulated Nano cargos for superior cancer treatment, and light activated nano capsules for infectious disease therapy including breast cancer. He also highlighted the commercialization of photonics and nano medicine research.	

Tuesday, 04.11.2020 10:00 AM to 11:30 AM	**Session IV :**Fiber Optics Revolution
	**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.
Prof Ghatak highlighted the basics of electromagnetic theory, the benefits of laser in daily life, origin of photonics, theory and importance of optical tweezers, magneto optical trapping of neutral atoms, holography, the various scattering phenomena, and image transformation by aligned optical fibers etc. He illustrated the idea of solar fiber optic lightening and Fiber Bragg grating inside the bridges.	

Tuesday, 04.11.2020 12.00 PM to 1.30 PM	**Session V :**Mindfulness and Stress Management
	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
Dr Deshmukh started her talk from mindfulness and explained the importance of good communication skill, critical thinking, flexibility, positive mental health etc in daily life. She focused on the challenges to the psychological well beings, causes of stress among the teachers, self-compassion, mindfulness, taking a creative pause etc. She stressed on sharing happiness, peace and creativity with others.	

Tuesday, 04.11.2020 2:30 PM to 4.00 PM	**Session VI :**Commercial Manufacture of Optical Fibers
	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 then Brain pool Korea fellow.
He discussed the various methods used in manufacturing of industry utility optical fibers.He also discussed about the design and development of optical fibers, optical fiber cables, and process optimization.	

Wednesday 05.11.2020 10:00 AM to 11:30 AM	**Session VII :**Colours from Colourless
	Padma Shri Professor H C Verma, IIT Kanpur, He has published 139 research papers in reputed journals, written several books in Physics for School and College level, developed more than 600 physics experiments and produced a set of 45 video lectures in Hindi at school level.
He discussed the theory of infinite number of colors, light as combination of electric and magnetic fields, perception of colors in mind, total internal reflection, theory of radiation, super numarary rainbow, birefringence and polarization.	

Wednesday 05.11.2020 12.00 PM to 1.30 PM	**Session VIII :**Advancements in Optical Fiber Sensors
	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 then Brain pool Korea fellow.
In second session he explained the basics of optical fibers needed for sensing, propagation of light in optical fibers, modes of optical fibers, losses in optical fibers, catastrophic effect in optical fibers, optical fiber sensors including classification, various scattering phenomena, distributed sensing mechanism etc.	

Wednesday 05.11.2020 2:30 PM to 4.00 PM	**Session IX** :Optical Fiber Components and Devices
	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.
He delivered a talk on "Optical Fiber Components and Devices". He emphasized on the characteristics of optical fibers, fibers used in daily lives including medicine, smart structures, mux, demux, telecommunication etc. The fiber modes and need for modal analysis, microwave communication, scattering loss, pulse broadening, chromatic dispersion, principle and working of directional couplers, Fiber Bragg grating applications, distributed sensing and applications of long period gratings are the highlights of his session.	

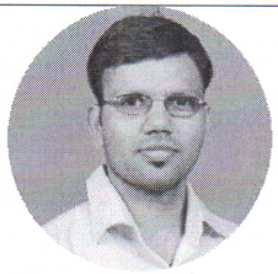
Friday 06.11.2020 10:00 AM to 11:30 AM	**Session X** :Optical Sources and Detectors in Optical Fiber Communication
	M. R. Shenoy, Professor of Physics, IIT Delhi, M.Sc. Physics in 1979 from Mysore University and the PhD from IIT Delhi in 1987. He joined the faculty of IIT Delhi in 1988. Visiting Scientist with University of Glasgow, Glasgow, U.K., (1990) visits at the University of Nice – Sophia Antipolis, Nice, France (1992, 1997, 2006 and 2008).
He discussed about semiconductor optoelectronics, light waves for communication, optical fiber communication, modes in optical fibers, fiber optic communication system, scheme of WDM communication, communication requirements of sources, direct and external modulation, laser diodes, longitudinal and multi longitudinal modes in resonators, Diode pumped Nd:YAG lasers, detectors, quantum efficiency etc.	

Friday 06.11.2020 12.00 PM to 1.30 PM	**Session XI :**Design and Analysis of Specialty Optical Fibers and Waveguides for High Power Laser
	Dr Ajeet Kumar, Delhi Technological University, Delhi, India Dr. Kumar has 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 "Design and Analysis of Specialty Optical Fibers and Waveguides for High Power Laser". His focus was mainly on light matter interaction, LASER developments, optical fiber requirement for high power applications, single mode propagation in optical fiber and waveguide, Large mode area designs, leaky fiber design, guided modes, leaky structures, dual core leaky fiber etc.	

Friday 06.11.2020 2:30 PM to 4.00 PM	**Session XII :**Teaching Optics in an Active Learning Way
	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.
Through her illustrative ideas and informative talk, she explained lot of ways of teaching optics in an active learning way. Interactive learning demonstrations, passive versus active learning, Interactive learning demonstrations with magic tricks, the designing of various experiments with homemade cheap materials, optical voice communication, geometrical optics were the focus points of her talk. Her talk was concentrated on main goal of UNESCO that is active learning.	

Saturday 07.11.2020 10:00 AM to 11:30 AM	**Session XIII :**Polymer fiber optic micro lasers 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 fabricationtransferred toSterlite Optical Technologies Ltd,Aurangabad
Porfessor Kailasnath explained a lot things related to Optical Fibre Sensors, luminescent probes, fluorescence microscopy, optical microcavities, optical resonators, whispering gallery modes, Fabry Perot resonators, micro resonators, etc. At the end he detailed about the fabrication of graded index polymer optical fiber.	

Saturday 07.11.2020 12.00 PM to 1.30 PM	**Session XIV :**Blue Sky and Red Sunset
	Dr Suwarna Datar, Department of Applied Physics, DIAT, Pune.More than 50 publications in international journals, conference proceedings and book chapter, invited speaker at several international conferences and workshops. Guided around 30 masters thesis and 6 PhD students.
She highlighted Scattering, mathematical theory of blue Sky and red sunset based on Maxwell's equation. Dr Datar through the live experimentation showed the formation of cloud on milky liquid.	

Saturday 07.11.2020 2:30 PM to 4.00 PM	**Session XV** :Emerging Photonic Materials and their application in Optoelectronic Devices
	Dr Dinesh Kabra, IIT Bombay, Associate Professor of Physics, Department of Physics, Indian Institute of Technology Bombay, Powai, Mumbai, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru, OE Group, Cavendish Laboratory, Cambridge, UK.
He highlighted the research in the field of Photonic Materials and their application in Optoelectronic Devices. Perovskite, inorganic sub lattice in disordered organic sub lattice, HOT Perovskites and beyond it, bandgap tunability: Halide ion exchange, Halide Perovskite band gaps excitonic versus free carriers, multicolor pre LED, Band gap engineering for Blue electroluminescence, Vegard's law and bowing parameter in HOIP, multijunction solar cells, optical properties of semiconductors, etc.	

The last session of this FDP is the valedictory. We have Chairperson Principal Aniruddha Jadhav, Secretary, Shiv Chhatrapati Shikshan Sanstha, Latur; and very distinguished personality as chief guest Dr Ganesh Chandra Shinde, Former Pro-Vice Chancellor, SRTMU Nanded, Principal, Yashwant Mahavidyalaya, Nanded for this valedictory function.

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) for kind and timely support. We also express our sincere thanks to all the participants representing 16 states for their active participation in the FDP.

Dr Abhijit Yadav
Coordinator-FDP

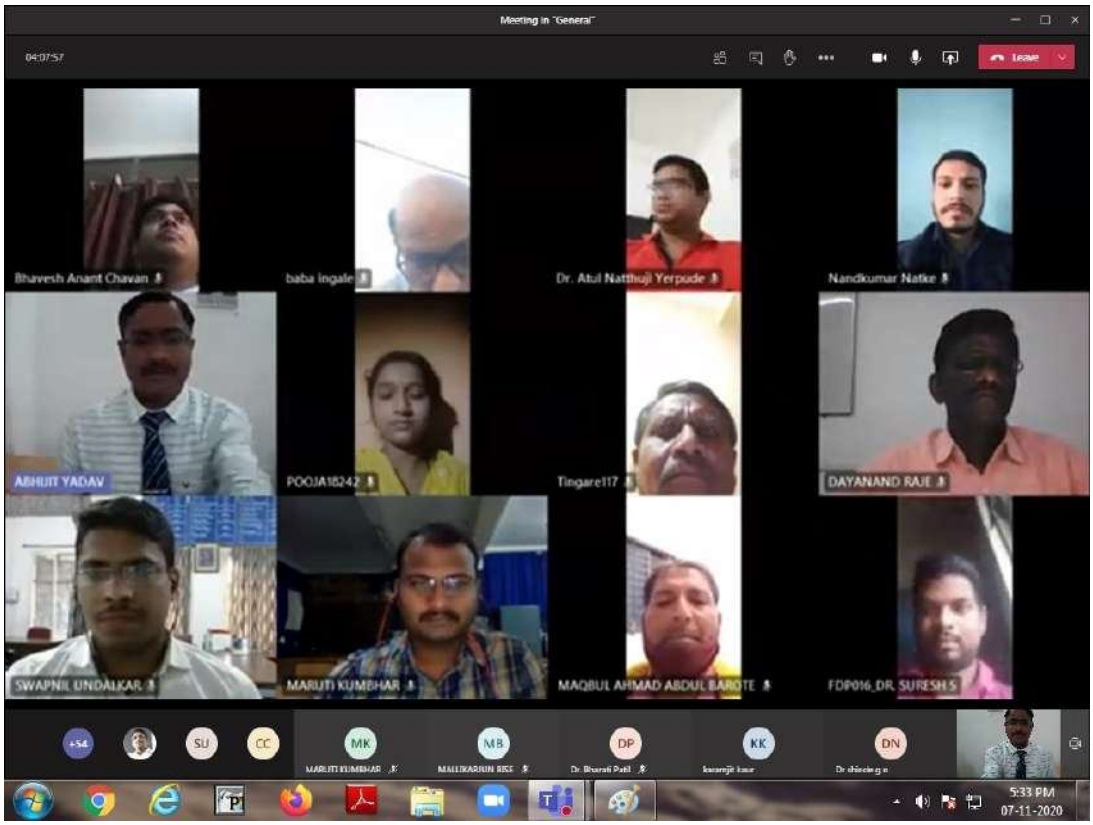
HEAD
epartment of Physics & Electronics
ajarshi Shahu Mahavidyalaya,Latur
(Autonomous)

Dr Mahadev Gavhane
Principal and Director-FDP

PRINCIPAL
Rajarshi Shahu Mahavidyalaya
(Autonomous), Latur

RAJARSHI SHAHU MAHAVIDYALAYA (AUTONOMOUS)

The screenshots of the participants taken on the closing are:-



Daily Lokmat Times dated 04.11.2020

Lokmat Times
4-11-2020

REGION

Faculty devp prog begins in Shahu College

Prof David Sokoloff of USA inaugurates

LOKMAT NEWS NETWORK
LATUR, NOV 3

The department of physics in Rajarshi Shahu Mahavidyalaya Latur and AICTE Training and Learning (ATAL) Academy have jointly organized a five-day online faculty development programme (FDP) On photonics (active learning in optics and photonics) for professors from 03 to 7, November.

Prof David Sokoloff of Oregon University, USA delivered his online keynote address active learning of introductory optics to inaugurate the programme. Dr Gopalrao Patil presided over the programme.

A total of 160 professors, research scholars from different places across the country have enrolled their names for the programme. Prof Souad Lahmar from Tunisia, Dr Nanasaheb Thorat from the University of Oxford, Prof Ajoy Ghatak and M R Shenoy from Delhi IIT, H C Varma from Kanpur IIT, Prof Dr Vipul Rastogi, from Roorkee IIT, Prof Kailasnath Madanan, from the International School of Photonics, CUSAT, Kerala, Dr Suwarna Datar from the department of applied physics, DIAT, Dr Juhi Deshmukh from the Savitribai Phule University of Pune, Prof Keshav Rajpure from the Shivaji University of Kolhapur, Pramod Watekar from Aurangabad and Dr Ajeet Kumar from Delhi will address the participants during the five days programme.

Programme includes three sessions in a day. The director of FDP Principal Dr Mahadev Gavhane said, "ATAL academy is an AICTE's initiative to plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas."

Principal Dr Mahadev Gavhane, vice-Principal Dr AJ Raju and Prof Sadashiv Shinde, Dr Abhijit Yadav, Dr Dayanand Raje, Prof Dhananjay Palke, Prof Mahesh Wavare, Dr Renuka Londhe,. Swapnil Undalkar, MB Kumbhar, Mr Mallikarjun Bhise are working hard for the success of the programme.

Daily Ekmat dated 03.11.2020

शाहूत आजपासून फोटॉनिक्स विषयी एका आठवड्याचे प्रशिक्षण शिबिर

लातूर : येथील राजर्षी शाहू महाविद्यालय (स्वायत्त) आणि एआयसीटीई यांच्या संयुक्त विद्यमाने दि. ०३ नोव्हेंबर ते ०७ नोव्हेंबरदरम्यान फोटॉनिक्स या विषयावर प्राध्यापकांसाठीच्या प्रशिक्षण शिबिराचे आयोजन ऑनलाईन पध्दतीद्वारे करण्यात आले आहे.

या अंतर्गत उद्या दि.नोव्हेंबर रोजी सकाळी ८.३० वा. उद्घाटन सत्र होणार असुन यासाठी आंतरराष्ट्रीय ख्यातीचे प्राध्यापक डेव्हीड शेकोलॉफ (ऑरिगॉन युनिवर्सिटी अमेरिका) हे ऑनलाईन पध्दतीने मार्गदर्शन आणि उद्घाटन प्रसंगी ॲक्टीव लर्निंग ऑफ इंट्रॉडक्टरी ऑप्टीक्स या विषयावर आपले विचार मांडणार आहेत. तर कार्यक्रमाच्या अध्यक्षस्थानी शिव छत्रपती शिक्षण संस्थेचे अध्यक्ष डॉ. गोपाळराव पाटील हे असणार आहेत.

सदर प्रशिक्षण शिबिरात देशभरातल्या १६० प्राध्यापकांनी नोंदणी केली असून त्यांना डॉ. सुवाद लेहमर, ट्युनिशिया, डॉ. नानासाहेब थोरात युनिवर्सिटी ऑफ ऑक्सफोर्ड, एच. सी. वर्मा आयआयटी कानपूर, कैलासनाथ मदनान कोची, डॉ. सुवर्णा दातार पुणे, डॉ. अजॉय घटक नवी दिल्ली, डॉ. जुही देशमुख पुणे विद्यापीठ पुणे, प्रमोद रामदासराव वाटेकर औरंगाबाद, एम. आर. शनॉय आयआयटी दिल्ली, डॉ. विपुल रस्तोगी आयआयटी रुरकी, प्रा. के. वाय. राजपुरे शिवाजी विद्यापीठ कोल्हापूर, डॉ. अजित कुमार तांत्रिक विद्यापीठ दिल्ली हे वेगवेगळ्या विषयावर मार्गदर्शन करणार आहेत.

या सात दिवसीय प्रशिक्षण शिबिरात भौतिकशास्त्र विषयातील प्राध्यापक, विद्यार्थी, अभियांत्रीकीमधील ईलेक्ट्रॉनिक्स टेलिकम्युनिकेशन विषयातील तज्ज्ञ व्यक्ती सहभागी होत आहेत. सदर शिबिराच्या यशस्वीतेसाठी महाविद्यालयाचे प्राचार्य डॉ. महादेव गव्हाणे, उपप्राचार्य डॉ. ए. जे. राजु, उपप्राचार्य प्रा. सदाशिव शिंदे यांच्या मार्गदर्शनाखाली 'भौतिकशास्त्र, ईलेक्ट्रॉनिक्स आणि फोटॉनिक्स' विभागाचे विभागप्रमुख डॉ. अभिजीत यादव, डॉ. दयानंद राजे, प्रा. धनंजय पालके, प्रा. महेश वावरे, डॉ. रेणुका लोंढे, प्रा. स्वप्नील उंडाळकर, प्रा. मारोती कुंभार, प्रा. मल्लिकार्जुन बिसे हे परिश्रम घेत आहेत. Ekmat 3-11-20

Daily Lokmat dated 05.11.2020

कृतीयुक्त अध्ययन पद्धती आगामी काळातील गरज

राजर्षी शाहू महाविद्यालयात प्रशिक्षण शिबीर

■ लोकमत न्यूज नेटवर्क

लातूर : विद्यार्थीकेंद्री शिक्षण पद्धतीत आजपर्यंत व्याख्यान पद्धती मोठ्या प्रमाणात अवलंबिली जात होती. मात्र आता विद्यार्थ्यांमधील वैचारिकतेत वाढ करण्यासाठी कृतीयुक्त अध्ययन पद्धती अवलंबवावी लागेल, असे मत डेव्हिड सोकोलॉफ यांनी येथे व्यक्त केले.

राजर्षी शाहू महाविद्यालय आणि एआयसीटीई यांच्या संयुक्त विद्यमाने आयोजित सात दिवसीय प्राध्यापकांच्या प्रशिक्षण शिबीर उद्घाटनप्रसंगी ते बोलत होते. अध्यक्षस्थानी शिवछत्रपती शिक्षण संस्थेचे अध्यक्ष डॉ. गोपाळराव पाटील, डॉ. सुवेद लहेमर यांची उपस्थिती होती.

डेव्हिड सोकोलॉफ यांनी ॲक्टिव्ह लर्निंग ॲण्ड इन्ट्रॉडॉक्टरिक ऑप्टिक्स या विषयावर मार्गदर्शन केले. ऑनलाईन कार्यक्रमास कार्यक्रमास प्राचार्य डॉ. महादेव गव्हाणे, उपप्राचार्य डॉ.ए.जे. राजू, प्रा. सदाशिव शिंदे, डॉ. अभिजीत यादव, डॉ. दयानंद राजे उपस्थित होते. शिबिरात १६ राज्यांतील १६० प्राध्यापकांनी सहभाग नोंदविला.

लॉकडाऊनमुळे ऑनलाईन अभ्यासक्रमाची संकल्पना प्रभावी ठरत असल्याचेही डेव्हिड सोकोलॉफ यांनी यावेळी सांगितले.

शिक्षणातील बदलत्या प्रवाहांचा विचार करून विद्यार्थ्यांच्या गुणवत्ता वाढीसाठी प्रयत्न करण्याची गरज असल्याचेही ते म्हणाले.

Abhijit 5-11-20

Dr Abhijit Yadav
Coordinator-FDP

Dr Mahadev Gavhane
Principal and Director-FDP

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Application Number	1584340167
Workshop ID	180
Thrust Area	Engineering
Title/Sub Thrust Area	Photonics

Participant ID provided for FDP	Name of the participant	Score
FDP002	Dr. PIYUSH VISHWAKARMA	92 / 100
FDP003	MIJANUR RAHIM	90 / 100
FDP005	Dr. Payal Sharma	94 / 100
FDP006	Dr.T.Sabapathi	92 / 100
FDP007	S YOGANAND	68 / 100
FDP010	C MADHU	58 / 100
FDP011	Dr. Satish Abhanga Lendave	92 / 100
FDP013	Pankaj Keshari	92 / 100
FDP014	Hareesh Sasi	90 / 100
FDP016	Dr. S. Suresh	96 / 100
FDP019	Natke Nandkumar Namdev	90 / 100
FDP020	Dr Ravindra Udayrao Mene	92 / 100
FDP021	Dr. Anil Ramdas Bari	80 / 100
FDP022	Dr. Achole Balaji Devidasrao	90 / 100
FDP023	SANDEEP	78 / 100
FDP024	Dr. Shaikh Rais Nayeem	88 / 100
FDP025	SALUNKE VAISHALI TANAJI	76 / 100
FDP026	Dr. Shahzad Ateeque Ah	94 / 100
FDP027	Mansing V Takale	88 / 100
FDP028	Dr. Bharati Balasaheb Patil	100 / 100
FDP029	Dr Mitkari Shivshankar ramling	78 / 100
FDP031	Anil Narayanrao Kalyankar	94 / 100
FDP033	Dr. Vanita Shivaji Raut	94 / 100
FDP035	Kendre Trambak Uttamrao	92 / 100
FDP036	Sambhaji Shivaji Pawar	74 / 100
FDP037	Dr. Parvin Arif Shaikh	60 / 100
FDP038	Dr. Archana Uttamrao Chavan	60 / 100
FDP039	Subhash Shahane	76 / 100
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FDP046	Dr. Ganesh Eknath Patil	92 / 100
FDP047	Vijay Zadke	72 / 100
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FDP049	Aparna Rahul Pimple Nadgowda	92 / 100

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FDP052	Mallikarjun Bise	98 / 100
FDP055	Dr. Nana N Shejwal	88 / 100
FDP056	Bhavesh Anant Chavan	94 / 100
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FDP131	ABHIJIT YADAV	98 / 100
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Dr Abhijit Yadav
Coordinator-FDP

HEAD
Department of Physics & Electronics
Rajarshi Shahu Mahavidyalaya,Latur
(Autonomous)

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Dr Mahadev Gavhane
Principal and Director-FDP

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Registration

- No Registration Fee
- Registration Link: https://atalacademy.aicte-india.org/signup

Or https://www.aicte-india.org/atal

- For portal guide about registration process click https://atalacademy.aicte-india.org/assets/data/portalFlowParticipant.pdf

Join telegram group

https://t.me/joinchat/Ihj5Jxq7kPzNzVJ1gNUrdQ

Targeted Participants

The faculty members from Physics, Electronics, Chemistry, Electronics Engineering, Communication Engineering and other branches of Engineering of the AICTE /UGC approved institutions, research scholars, PG, Scholars, participants from Government, Industry and staff of host institutions.

Registration Details

The number of participants is limited to 200 and the selection is based on first come - first served basis

Important Dates

Last Date for Registration: 20.10.2020

Intimation of Acceptance: 22.10.2020
(Via e-mail)

Shiv Chhatrapati Shikshan Sanstha's

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Organizes

AICTE Training and Learning (ATAL) Academy Sponsored One Week Online Faculty Development Program (FDP) On

Photonics (Active Learning in Optics and Photonics)

03rd to 07th November 2020

Organized by

Department of Physics, Electronics and Photonics and IQAC
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur (M.S.)
www.shahucollegelatur.org.in/

About the College

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, with 'Pursuit of Excellence' as its mission established in 1970 by Shiv Chhatrapati Shikshan Sanstha, being a multi faculty college is affiliated to Swami Ramanand Teerth Marathwada University, Nanded. The Govt. of Maharashtra honoured us with 'Ideal Educational Institute' award in 2000. The college is accredited by NAAC for III cycle and received B++ Grade with CGPA 2.99. College has bagged rank in rank band 101 to 150 in NIRF-2017 ranking. College is certified with ISO 9001:2015 (QMS). Also college has bagged Best College Award from Parent University. The college has UGC-CPE-status, DST-FIST support.

About the Department

Department of Physics was established in the academic year 1971-72. The Department is running B.Sc. with Physics and Electronics as one of the optional subjects and M.Sc. Physics with specialization Photonics. From 2006-07 the department was recognized as star department under UGC's CPE scheme and DST-FIST sponsored department from the year 2014-15. From the year 2017-18 CBCS pattern has been implemented. At PG level the department is offering courses related with Optics, Laser, Fiber Optics, Photonic Devices and Sensors, Thin Film and Nanotechnology, Industrial Phonic Engineering. The department recognized as research centre in Physics by Parent University. One faculty from the department has been awarded DST-FAST Track Scheme for Young Scientist with a project worth Rs. 24.55 Lakh. The faculties of the department have completed 01 Major and 05 Minor Research projects sponsored by UGC, 01 Major Research project sponsored by DST. The research output has been reflected in terms of 160 papers in highly reputed international journals.

About the FDP

The AICTE sponsored FDP on Photonics (Active Learning in Optics and Photonics) aims to better equip college teachers to teach optics in the introductory physics course. The FDP will be conducted online through Zoom or other similar platform.

- **Time 10.00 A.M to 4.00 P.M.**
- **Participants will receive an e-Certificate after attending all Five days of Programme, submission of Feedback form and attending examination on the final day of the programme.**

Objectives of the FDP

This FDP is designed especially for the faculty members, research Scholars and PG Scholars to acquire their skills in the field of Geometrical Optics, Atmospheric Optics, optical fibres, Optical Data Transmission, Wavelength Division Multiplexing etc.

Address for correspondence

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FDP Coordinator, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur (Maharashtra)

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Important Note:

This FDP is applicable for CAS promotions as per the gazette.

AICTE Training and Learning (ATAL) Academy Sponsored

One Week Online Faculty Development Program (FDP) on Photonics (Active Learning in Optics and Photonics)

(03.11.2020 to 07.11.2020)

Organized by

Department of Physics, Electronics and Photonics, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Programme Schedule

Tuesday, 03 November 2020					
8.30 AM to 9.00 AM	*09:00 AM to 10:30 AM*	*10:30 AM to 12.00 AM*		*2:30 PM to 4.00 PM*	
Tuesday, 03.11.2020 Inauguration	***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 Active Learning in Optics and Photonics Dr Abhijit Yadav FDP Coordinator***	*LUNCH BREAK*	***Session 3 Interface of Photonics and Health Approaches, Dr. Nanasaheb Thorat, University of Oxford, United Kingdom***	
04.11.2020 to 07.11.2020					
Dates	*10:00 AM to 11:30 AM*	*12.00 PM to 1.30 PM*		*2:30 PM to 4.00 PM*	*4.00 PM to 5.00 PM*
Wednesday 04.11. 2020	***Session 4 Fiber Optics Revolution Ajoy Ghatak Former Professor at IIT Delhi, NASI Meghnad Saha Distinguished Professor.***	***Session 5 Mindfulness and Stress Management Dr Juhi Deshmukh Savitribai Phule Pune University***		***Session 6 Commercial Manufacture of Optical Fibers Dr Pramod Watekar Sterlite Technologies Limited***	

Thursday *05.11. 2020*	***Session 7*** ***Colours from Colourless*** ***H C Verma, Ex-Professor of Physics, IIT Kanpur***	***Session 8*** ***Advancements in Optical Fiber Sensors*** ***Dr Pramod Watekar*** ***Sterlite Technologies Limited***		***Session 9*** ***Optical Fiber Components and Devices*** ***Dr. Vipul Rastogi,*** ***Professor of Physics,*** ***IIT, Roorkee***	
Friday *06.11. 2020*	***Session 10*** ***Optical Sources and Detectors in Optical Fiber Communication*** ***M. R. Shenoy*** ***Professor of Physics,*** ***IIT Delhi***	***Session 11*** ***Design and Analysis of Specialty Optical Fibers and Waveguides for High Power Laser*** ***Dr Ajeet Kumar*** ***Delhi Technological University, Delhi, India***		***Session 12*** ***Teaching Optics in an Active Learning Way*** ***Professor, Souad Lahmar*** ***Institut Préparatoire aux Etudes Scientifiques et Techniques, Tunisia***	
Saturday *07.11. 2020*	***Session 13*** ***Optical Fibre Sensors*** ***Prof Kailasnath Madanan*** ***International School of Photonics, CUSAT, Kerala***	***Session 14*** ***Blue Sky and Red Sunset*** ***Dr Suwarna Datar,*** ***Department of Applied Physics, DIAT, Pune-25***		***Session 15*** ***Emerging Photonic Materials and their application in Optoelectronic Devices*** ***Dr Dinesh Kabra,*** ***IIT Bombay***	***Valedictory Function***

Dr Abhijit Yadav
Coordinator-FDP

Dr Mahadev Gavhane
Principal and Director-FDP