



**Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
Presents**

AICTE ATAL Academy

Faculty Development Programme

on

**“BIOMEDICAL ENGINEERING SYSTEMS AND
TECHNOLOGIES” (Biosimilar Technologies)**

[Application No.: 1584111017, Workshop ID: 277]

23rd to 27th November, 2020

Organised by

**Electronics and Telecommunication Department
Sardar Patel Institute Of Technology
Munshi Nagar, Andheri (W), Mumbai 400 058**

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Introduction

About the Institute



In 1995, Sardar Patel Institute of Technology was established with Electronics Engineering, Electronics and Telecommunication Engineering, Computer Engineering and Information Technology branches affiliated to University of Mumbai. These branches have earned a great reputation in the field of engineering education, as well as industry. Post Graduate & PhD in Electronics and Telecommunication was started in 2010 and 2012 respectively. University of Mumbai has conferred Autonomous Status to S.P.I.T. for a period of five years from the academic year 2017-18 to 2021-22.

S.P.I.T. Highlights :

- NBA Accredited Programmes
- Became an Autonomous Institute affiliated to University of Mumbai in 2017.
- Securing an NIRF ranking of 125 in India for 2020. For 2019 & 2018 secured NIRF rank in the band of 100-125.
- New and updated curriculum under autonomy provides flexibility for Semester long internships.
- Consistently achieving 100% placements since few years.

About the Course:

Why the course on Biomedical Engineering ?

There is tremendous scope of research and project work to be carried out in the field of Biomedical and Biosimilar technologies, which has direct impact on human mankind. The multidisciplinary and diverse applications demand the study of current research scenario and upcoming challenges and opportunities in this field. The topics covered through this programme are as following:

- Overview of technology and recent trends
- Signal and Image Processing
- Informatics, Algorithms in Biomedical
- Machine Learning and Artificial Intelligence in Biomedical

FDP Objectives:

- To give overview of recent trends in several aspects of Biomedical systems and technologies.
- Identification of challenges in Biomedical systems and technologies.
- To acquire insights about technological details of different research areas under Bioengineering and Biomedical systems.
- To motivate research scholars/researchers to pursue research in the field of biomedical engineering.

Expected Outcomes

- Identification different research domains under Biomedical engineering.
- Overview of recent trends in engineering applications in biomedical systems and technologies.
- Being introduced with technologies, systems, devices etc. associated with biomedical requirements.

Significance of the Course:

This course will provide more insight to the participants for using/developing/researching Biomedical engineering systems, devices, methodologies through several actual case studies and recent trends.

Who should attend the course:

This course is useful for engineers of different disciplines aspiring towards research & development in the field of Biomedical Engineering and its applications. The course will be most beneficial for:

- Engineering post-graduates (M.E./M. Tech. in Electronics, Electronics and Telecommunication, Instrumentation, Biomedical Engineering)
- Aspiring researcher in the multidisciplinary streams under Biosimilar technologies and allied fields.
- Faculty members from academic and research institutions
- PhD scholars

Core Team



Dr. Amol S. Deshpande
Coordinator, AICTE ATAL FDP
Assistant Professor, EXTC Dept., S.P.I.T,
Mumbai

Organizing Committee



Prof. Milind Paraye
Co-coordinator, ATAL FDP
Assistant Professor, Dept. of Electronics
& Telecomm. Engg., S.P.I.T, Mumbai



Prof. Sneha Weakey
Assistant Professor, Dept. of
Electronics & Telecomm. Engg.,
S.P.I.T, Mumbai

Prof. Dayanand Ambawade

Assistant Professor, Dept. of
Electronics & Telecomm. Engg.,
S.P.I.T, Mumbai



Mr. Shrikant Goswami

System Analyst
S.P.I.T, Mumbai



Details of Resource Persons

Expert Speakers

Academicians

- Dr. Amit Sethi
- Dr. Hari Varma
- Dr. Tushar Kanti Bera
- Dr. Shiladitya Mitra
- Dr. G. Veda Prakash
- Mr. Deepak Berwal
- Dr. Rahul Ingle
- Prof. D. Ambawade

Doctors

- Dr. Lancelot Pinto
- Dr. Santoshi Nagaonkar
- Dr. Samyak Mulkutkar
- Dr. Swapnil Rane

Industry Experts

- Dr. Aniruddha Joshi
- Dr. Shivraj Rathod
- Dr. Abhijit Pednekar
- Mr. Chandrakant Deoda

Biography of Experts / Speakers

Chief Guest of Inauguration: Dr. Alka Sharma

Dr Alka Sharma, Scientist G, Medical Biotechnology Division, Department of Biotechnology, Ministry of Science & Technology, Government of India,



Dr. Alka Sharma is currently Adviser in the Department of Biotechnology, Ministry of Science & Technology, Government of India. She is dealing with research and policy issues in the emerging areas of medical biotechnology. She has made significant contributions in med-tech innovation with national and international partners; early and late translational research on stem cells & regenerative engineering; setting up bioclusters across the country for innovation driven research and technology development. She has been instrumental in commercialization of indigenous and affordable technologies for a large number of patients in urban/rural settings. Her efforts have resulted in creation of

several start-ups; functional biomedical device prototypes; transfer of technologies; creation of a pool of med-tech innovators. She is actively involved in formulating various legislations in Biotech sector. She is also Nodal Officer for Management of COVID-19 related activities in DBT/BIRAC and also contributing towards AtmaNirbhar Bharat by establishing National Biotech Resource Indigenization Consortium (NBRIC). She has received training at the Department of Microbiology & Infectious Diseases, NIH, USA for the management of extramural programmes. She has received “CSIR Technology Award for Innovation” for her work.

Dr Amit Sethi, Associate Professor, Dept. of Electrical Engineering, IIT Bombay



Dr. Amit Sethi is currently faculty member in EE department, IITB and Adjunct Faculty, Dept. of Pathology, UIC

M.S. and PhD from University of Illinois at Urbana-Champaign.

Served in capacity of Assistant Prof with IIT Guwahati and as a Consultant with ZS Associates Chicago.

Research Interests : Computational Pathology, Medical Image Analysis, machine learning etc.

Recent Research: Metrics in Breast Cancer; Open source algorithm to color normalize histopathology slides; Image

super-resolution; Detecting subclonal mutation

Among 5 finalists for NVIDIA Global Impact Award in 2017.

Mr. Deepak Berwal, Research Scholar, Dept. of Electrical Engineering, IIT Bombay



Deepak Berwal received the B.Tech. degree in Electronics and Communication Engineering and the M.Tech. degree in VLSI Design from Galgotias University, Greater Noida, U.P. in 2015. He received Gold Medal in the M.Tech. degree.

He is currently pursuing the Ph.D. degree with the Department of Electrical Engineering, IIT Bombay, Mumbai, India. His current research interests include signal processing and system design for biomedical applications. He has won the DST & Texas Instruments Inc. India Innovation Challenge Design Contest, 2018. Now he is also the director of the start-up company “iSmoke Solutions Pvt. Ltd.”.

Dr. Aniruddha Joshi, Founder & CEO, Atreya Innovations Pvt. Ltd., Pune



Dr. Aniruddha Joshi

He is a First generation entrepreneur, has received Ph.D. from IIT Bombay with a specialization in data analysis and machine learning. He was a CSIR research fellow for 5 years. He is the founder and CEO of Atreya Innovations Pvt Ltd, which is a pioneer in combining the ancient science of Ayurveda with modern advanced technologies. He has 3 patents and his team has published

more than 35 papers in peer-reviewed international journals and conferences.

Prof (Dr) Hari M Varma, Assistant Professor, Department of Biosciences & Bioengineering, IIT B



Dr. Hari Varma

Completed MSc Engineering and PhD from IISC Bangalore.
Post-Doctoral Fellow: Inverse Problem Research Group, Dept. of Mathematics, Aalto University, Helsinki, Finland. (2010-2011)
Post-Doctoral Fellow: Medical Optics Group, Institute of Photonic Sciences (ICFO), Barcelona, Spain. (2012-2015)

Research Interests:

Developing novel optical tools for medical imaging applications.
Laser speckle contrast imaging and diffuse correlation spectroscopy/tomography for blood flow measurements.

Inverse problems in medical imaging: Theoretical and computational aspects of diffuse optical tomography.

Earlier Career Research Award by DST in 2016

Ramalinga Swamy Re Entry Fellowship by DBT in 2014

Dr Lancelot Pinto, Consultant Pulmonologist, P D Hinduja Hospital & Medical Research Centre, Mumbai



Dr. Lancelot Pinto is a consultant respirologist at the P.D.Hinduja National Hospital and Medical Research Centre, Mumbai. He was a gold medal recipient at the DNB examinations in respiratory diseases in 2009, and trained at the McGill University, Montreal, Canada from 2010-2014, during which he completed a Masters degree in Epidemiology, and clinical fellowships in Sleep Medicine and COPD rehabilitation. He has a keen interest in research, and has over 60 peer-reviewed publications, and is a peer-reviewer for a number of leading journals in the field. He has also collaborated with the University of Cape Town, consulted for the World Health Organization and USAID, and continues to collaborate with McGill University. His main areas of interest include

management of severe COPD, drug-resistant TB, smoking cessation therapy, and the management of sleep disorders.

Dr. Santoshi Nagaonkar, Consultant Urologist, P D Hinduja Hospital & Medical Research Centre, Mumbai



Dr. Santoshi Nagaonkar graduated from Shivaji University in 1995 and did masters in Surgery from Dharwad university, Karnatak. Thereafter he pursued my interest in Genitourinary surgery at P D Hinduja National hospital in 2003. He secured prestigious “H S Bhat Gold Medal”, for securing highest marks in the “Diplomate National Board” exit examination.

In 2004, acquired Fellowship of European Urology FEBU.

In 2003, joined the Australian health system and completed two fellowships in “Minimally Invasive Surgery and Endourology”.

In 2008, awarded the prestigious qualification of “FRACS- Fellowship of Royal Australian College of Surgeons” in Genito- urinary surgery.

Special interests remain in Technology, LASERS in Surgery and Robotics in surgery. Between 2005-2014, He worked as consultant urologist at Manning Referral, Mayo private and Newcastle private hospital.

He received basic Robotic training at Peter MacCallum Cancer centre, Melbourne and advanced training at Keck Institute, University of Southern California.

Current issue of the largest subscribed “The Week” magazine (health supplement) published cover page article on Robotic surgery.

Dr Shivraj Rathod, Assistant Manager at Defence R&D- KCTI, Bharat Forge Ltd., Pune



Dr S. M. Rathod has received the B.E degree in Electronics & Telecommunication Engineering from University of Pune, India in 2012. He received both M. Tech and PhD degree in Electronics Engineering from Veermata Jijabai Technological Institute (VJTI), in 2015 and 2019, respectively. He has carried out his PhD research work jointly under the guidance of Dr K P Ray from SAMEER-Mumbai and Prof R N Awale from VJTI-Mumbai. He has completed his Ph.D coursework credential under the mentorship of Prof. Girish Kumar from Antenna Lab, IIT-Bombay. His thesis was in the field of Compact Wideband Microstrip antennas. He has authored and co-authored more than 25 research papers in peer-reviewed journals and conferences. Currently, he

is an Assistant Manager in Defence R & D Division of Kalyani Centre for Technology and Innovation (KCTI), Bharat Forge Limited (BFL)-Pune. Now, he holds the position of coordinator for “Centre of Excellence in RF & Microwave Technology” at Defence R&D Division of BFL. Prior to this he was an Assistant Professor in Electrical Engineering Department of VJTI, Mumbai. His research interests include Advanced Planar Microstrip Antennas, Helical Antennas, Microwave components and Radar System Design. He is an active member of IEEE Antenna and Propagation Society.

Dr Tushar Kanti Bera, Assistant Professor, Department of Electrical Engineering, NIT, Durgapur



Dr. Tushar Kanti Bera

B.E. in Electrical Engineering from University of North Bengal, India

M.Tech. in Electrical Engineering from the and the University of Calcutta, India.

Ph.D. in “Biomedical Engineering” from Indian Institute of Science (IISc) Bangalore, India.

After completing his postdoctoral research works from the Yonsei University, South Korea;

KAUST, Saudi Arabia, and

University of Arizona, USA,

Dr. Bera is working as an Assistant Professor, in the Dept. of Electrical Engineering, National Institute of Technology Durgapur (NITD).

Research Interests:

Instrumentation, Sensing, Signal Processing, Data Acquisition, and Image Reconstruction for Electrical, Mechanical, Biomedical, Aerospace and Material Engineering Applications, Ultrasound-based NDT.

Dr. Bera has obtained a number of research publications including

5 book chapters, 34 peer-reviewed journal papers, 36 conference papers,

3 theses and a number of abstracts and technical reports.

In his academic career, Dr. Bera has got more than 25 academic awards, achievements, and honors including DST Fast Track Young Scientist Project Award from the Govt. of India.

Prof. Dayanand Ambawade, Associate Professor, Sardar Patel Institute of Technology, Mumbai



Prof. Dayanand D. Ambawade

is Associate Professor in Electronics and Telecommunication

Engineering Department, Sardar Patel Institute of Technology, Mumbai. Working as IEEE SB Counselor and Head of Network Infrastructure Team of Institute. Received M.Tech in Communication Engineering from Indian Institute of Technology Bombay(IIT-B). More than 20+ years teaching experience in areas of Computer Networking, Network Security & Management, Open Source Software (OSS). Authored two books- Linux Lab and Advanced Computer Networks. Published 25+ technical papers in International Conferences. Trained 1500+ students on

Linux OS/Server/Network and Security Administration. Conducted Hands-on Workshop in the domain of Networking and Security using Open Source Tools at various Institutes and Industry. Successfully completed funded project on “Security Visualization” of DST, Govt. of India. Received incentive award for excellence in teaching. Recipient of 1st “Pradnyavant-2006” award of Swa. Dadasaheb Undalkar Smarak Samitee, Karad, Maharashtra, conferred upon me by former Hon. Chief Justice of Supreme Court, Justice P.B. Sawant . Member of IEEE, Fellow of IETE, Life Member of ISTE.

Dr Samyak Mulkutkar, Consultant, Vitreo Retinal Surgeon, P D Hinduja Hospital & Medical Research Centre, Mumbai



Dr Samyak Mulkutkar is Consultant Vitreo-Retinal Surgeon & Uveitis Specialist at P.D. Hinduja Hospital & Medical Research Centre, Mumbai.

M.B.B.S : Maharashtra University of Health Sciences Masters in Ophthalmology.

Post Graduate Institute of Medical Education & Research, (PGIMER) Chandigarh.

Senior Resident at Vitreo-Retina & Uveitis Services, Post Graduate Institute of Medical Education & Research, (PGIMER) Chandigarh.

Certifications :

Medical & Surgical Retina, European School for Advanced Studies in Ophthalmology, (ESASO), Singapore, Retinopathy of Prematurity, Post Graduate Institute of Medical Education & Research, (PGIMER) Chandigarh, Ocular Immunology & Moorfields Uveitis Course Post Graduate Institute of Medical Education & Research, (PGIMER) Chandigarh.

Post Graduate Teacher in Ophthalmology At Teaching Institutes & Faculty at CME/ Academic Lectures.

Publishes in peer-reviewed journals, Chapters in Text Books, Reviewer of National & International Journals, Academic Presentations & Faculty at National & International Conferences at Asia Pacific Ophthalmology Congress, Asia Pacific Glaucoma Congress, Vitreo-Retinal Society India, Uveitis Society India, Bombay Ophthalmologists Association, Maharashtra Ophthalmological Society, Eye Advance, Mumbai., North Zone Ophthalmology Society, National Post-Graduate Educational Programmes.

Memberships: All India Ophthalmological Society, Bombay Ophthalmologists Association, Uveitis Society of India, Vitreo-Retinal Society India, European Society of Retina Specialists

Dr Swapnil Rane, Consultant Pathologist, Tata Memorial Hospital, Parel, Mumbai



Dr. Swapnil Rane is a pathologist at Tata Memorial Centre, Mumbai, having obtained his M.D. & D.N.B. during his residency program from PGIMER, Chandigarh. Dr. Rane obtained his post-doctoral specialist training in renal and transplant pathology from PGIMER, Chandigarh upto 2012 and in Oncopathology from Tata Memorial Centre, Mumbai from 2012 onwards. He also obtained a MRes degree from King's College, London in 2014, after which he rejoined Tata Memorial Centre and is a faculty since 2015.

Dr. Rane is well versed in molecular pathology and has been a signatory authority on molecular pathology reports since 2015. He has keen interest in bioinformatics and computational pathology in addition to conventional anatomic pathology and molecular pathology. He has advanced understanding of statistics and modelling techniques and has been using machine

learning to make sense of biological and clinical information. Dr. Rane is an advanced user of softwares such as SPSS and Excel, in addition to possessing basic coding skills in python.

Dr. Rane has initiated collaborative projects in the field of histopathology image analysis with many collaborators from academia as well as industry. He is keen on transdisciplinary approaches to find answers to medical questions.

Positions and Employment

2006 : Medical Officer, Saifee Hospital, Mumbai.

2007 : Research Fellow, Dept of Medical Oncology, Tata Memorial Centre, Mumbai.

2007-2010: Junior Resident, Dept. of Pathology, PGIMER, Chandigarh

2010-2012 : Senior Resident, Dept. of Pathology, PGIMER, Chandigarh

2012-2015 : Fellow, Dept. of Pathology, Tata Memorial Centre, Mumbai.

2015-2019 : Assistant Professor, Dept. of Pathology, Tata Memorial Centre, Mumbai.

2019-present : Associate Professor, Dept. of Pathology, Tata Memorial Centre, Mumbai.

Other Experience and Professional Membership

2010- Indian Association of Pathologists and Microbiologists.

2010-2015 - American Society of Clinical Pathology

2012- Indian Society of Renal and Transplant Pathology

2012- Indian College of Pathologists

Dr. Abhijit Pednekar, Associate Director Medical Affairs, Abbott Healthcare Pvt. Ltd., Mumbai.



Presently working as **Associate Director - Medical Affairs**, Abbott Primary Care

- Leading a team of 10 young, dynamic, diverse and highly qualified Medical Affairs professionals.
- Building a thought leader network of 2000+ top health care specialists across the therapy areas of Orthopedics, Rheumatology, Otorhinolaryngology, Pulmonology, Gynecology & Internal Medicine
- Has more than 20+ years of rich experience across diverse fields like Pharmaceuticals, Public Health, Healthcare Strategy and Thought leadership working with top organizations like the World Health Organization, Pfizer, Bristol-Myers Squibb and Abbott.

- Awards & Recognition:
 - Won the award for the #Best Medical Affairs Professional in 2006
 - Won the high impact award for the Pfizer Education and Research League - PEARL Project - in 2007
 - Led the project – Partnerships for Health – a physician collaboration initiative to improve patient outcomes.
 - Won the BMS Star Awards for driving excellence in Critical Care Infection Management (SYMBIOS Initiative) in 2010 and Post-Operative Pain Management (2012)
- Education: MBBS from GSMC/KEMH, MD [PSM] from TNMC/BYL Nair , IIM Ahmedabad General Management Development Program, Summer Program @ Yale on Clinical Research Fundamentals and Strategic Value of Customer Relationships @ Wharton Executive Education, Driving Growth Through Innovation @ Harvard Business School Executive Education
- Areas of Special Interest & Expertise: Medical Affairs, Clinical Leadership, Strategic Thinking, Neuroscience of Influence, Healthcare Innovation and Change Management.

Dr. Shiladitya Mitra, Senior Postdoctoral Researcher, Stress Neurobiology and Neurogenetics, Max Planck Institute of Psychiatry, Munich, Germany



Biology is both fundamentally simple like the genetic code and organizationally complex like our brain. It has always intrigued me as studying it gives an opportunity to delve in the excitement of discovery and also may have translational application for the betterment of human life. I pursued my B.Tech in Biotechnology from VIT University in India and then got enrolled for PhD in CSIR-Centre for Cellular and Molecular Biology (CCMB) in Hyderabad, India. It was here that I was exposed to the different aspects to study biology and understand how interdisciplinary the field is. I finished my PhD in the area of neuroscience by uncovering the mechanisms of action of an understudied gene called Wdr13 in brain. One of the important findings of my research was the importance of this gene in homeostasis and in regulating depression like symptoms. I went on to do my first postdoctoral research at Braincity-EMBL, Nencki Institute of Experimental Biology with Prof Leszek Kaczmarek who had discovered the role of immediate early gene like c-fos in neural plasticity, which is the basis of multiple present researches in neuroscience. During this time I studied the importance of a gene called MMP-9 in schizophrenia and the effect of early life stress in motivational behavior. I was exposed during my tenure at Nencki to state-of-art technologies like light sheet and two-photon microscopies and optogenetics. I worked in collaboration with physicists, optical engineers and people from the background of informatics. This made me understand how tremendously divergent the field of biology is, and the dependency on technology and informatics. Currently I am working as a senior postdoctoral researcher at the Max Planck Institute of Psychiatry where I shall be employing a multi-disciplinary approach towards understanding effects of stress including fibre photometry, informatics (omics and data processing) and machine learning to score rodent behaviors. My talk shall be comprised of my experiences with few of these interesting and emerging cutting edge technologies and how they are driving neurobiological research. Hopefully this shall also present an idea about the opportunities that are there in biological research for people coming in from other backgrounds, particularly engineering and technology.

Dr. G. Veda Prakash, Postdoctoral fellow, Center for Energy Studies, IIT Delhi



Veda Prakash received the B.Tech degree in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University (JNTU), Hyderabad, Telangana in 2007. M. Tech degree in Power Electronics and Drives (EEE) from National Institute of Technology Warangal (NITW), Warangal, Telangana in 2010. Post-masters he got selected for prestigious DGFS fellowship offered by Department of Atomic Energy (DAE), Govt. of India to pursue his Doctoral studies at Institute for Plasma Research (IPR) Gandhinagar, Gujarat /BARC, Trombay, Mumbai, from 2011-2015. Post Ph.D. he was a postdoctoral fellow with IPR till 2018 and currently he is a postdoctoral researcher at the centre for energy studies, Indian Institute of Technology Delhi (IIT Delhi). From his research work, he has contributed to several international reputed peer-reviewed journals and international conference proceedings. He has received the MHRD, Govt. of India fellowship in 2008-2010 and also received an award for industrial problem solving from the Institution of Engineers India (IEI) students chapter NIT Warangal in 2010. He was awarded the DST-SERB Govt. of India National postdoctoral fellowship for young researchers in 2019 and also received DST-SERB financial support for young researchers for presenting research work in the international community. His current research interests include the development of atmospheric pressure plasma discharges for biomedical, water purification, and industrial applications, development of high voltage pulse sources, understanding the discharge behaviour in energy storage devices for high voltage storage applications, etc.

Mr. Chandrakant Deoda, Sahajyoga Trust



private sector companies.

Chandrakant Deoda working as Senior Technical Delivery Manager (DevOps) - with Visteon Corporation Pvt Ltd based out of Pune, He completed Electronic & Instrumentation science post graduate from University of Pune (Pune) in the year 2004. With a brief stint in Technical sales markets, Chandrakant has been largely associated with software & IT industry in India, USA and Japan for last 15+ years and have worked with various Indian and Foreign companies including Wipro Technology, Johnson control, Toshiba, etc. Chandrakant has been associated with, and voluntarily conducting the Sahaja Yoga Meditation programs and classes free of cost, with various government organizations, colleges, schools, and

FDP Schedule

The detail schedule of the five day FDP is shown below:

| Date | Time | Speaker (Institute/Industry) | Topic/Activity |
|---------------------------------|---------------------|--|---|
| 23.11.2020 Monday | 10:00 am-11:00 am | Inaugural Function : Chief Guest: Dr. Alka Sharma, Scientist G, Ministry of Science & Technology | |
| | 11:30 am- 1:00 pm | Dr. Amit Sethi (IIT Bombay) | Machine Learning Applications in Biomedical |
| | 1:45 pm -3:15 pm | Mr. Deepak Berwal (IIT Bombay) | Biomedical Signals: Opportunities and Challenges |
| | 3:30 pm -5:00 pm | Dr. Aniruddha Joshi (Atreya Innovations Pvt. Ltd., Pune) | Data Science – driven Ayurveda |
| 24.11.2020 Tuesday | 10:00 am-11:30 am | Dr. Hari Varma (IIT Bombay) | Biomedical Image Reconstruction |
| | 11:45 am - 12:30 pm | Dr. Lancelot Pinto (Hinduja Hospital, Mumbai) | Technology in Medicine |
| | 12:30 pm - 01:15 pm | Dr. Santoshi Nagaonkar (Hinduja Hospital, Mumbai) | Robotics in Surgery |
| | 2:00 pm -3:30 pm | Dr. Shivraj Rathod (Bharat Forge, Pune) | UWB Radio Tomography Synthesis |
| 25.11.2020 Wednesday | 10:00 am-11:30 am | Dr. Tushar Kanti Bera (NIT Durgapur) | Electrical Impedance Tomography for Bio-Medical Imaging: Looking into the Human Body with Electricity |
| | 11:45 am-01:15pm | Prof. Dayanand Ambawade (S.P.I.T, Mumbai) | Hands-on Session |
| | 2:00 pm - 2:45 pm | Dr. Samyak Mulkutkar (Hinduja Hospital, Mumbai) | Imaging and A.I. in Ophthalmology |
| | 2.45 pm - 3:30 pm | Dr. Swapnil Rane (Tata Memorial Hospital, Mumbai) | A.I. in Onco-Pathology |
| 26.11.2020 Thursday | 10:00 am-11:30 am | Dr. Abhijit Pednekar (Abbott Healthcare Pvt. Ltd., Mumbai) | Innovations in Healthcare |
| | 11:45 am-01:15pm | Dr. Tushar Kanti Bera (NIT Durgapur) | Electrical Impedance Tomography: Hardware-Software Perspective |
| | 2:00 pm -3:30 pm | Dr. Shiladitya Mitra (Max Planck Institute of Psychiatry, Germany) | Emerging Technologies in Preclinical and Basic Neuroscience – Scope for Engineers |
| 27.11.2020 Friday | 10:00 am-11:30 am | Dr. G Veda Prakash (IIT Delhi) | Plasma Applications in Biomedical |
| | 11:45 am-01:15pm | Mr. Chandrakant Deoda (Sahajyoga Trust) | Stress Management |
| | 2:00 pm -3:30 pm | Valedictory + Feedback + Quiz | |

Inauguration Schedule

| | Inaugural Schedule |
|----------------------|--|
| 10.00 am to 10.10 am | Preamble of the event by coordinator |
| 10.10 am to 10.15 am | Address by Dr. Y. S. Rao, Dean R&D |
| 10.15 am to 10.20 am | Welcome by Dr. Reena Sonkusare, Head of Department |
| 10.20 am to 10.30 am | Welcome address by Dr. B. N. Chaudhari, Principal |
| 10.30 am to 10.45 am | Inaugural address by Chief Guest Dr. Alka Sharma |
| 10.45 am to 10.50 am | Vote of thanks |

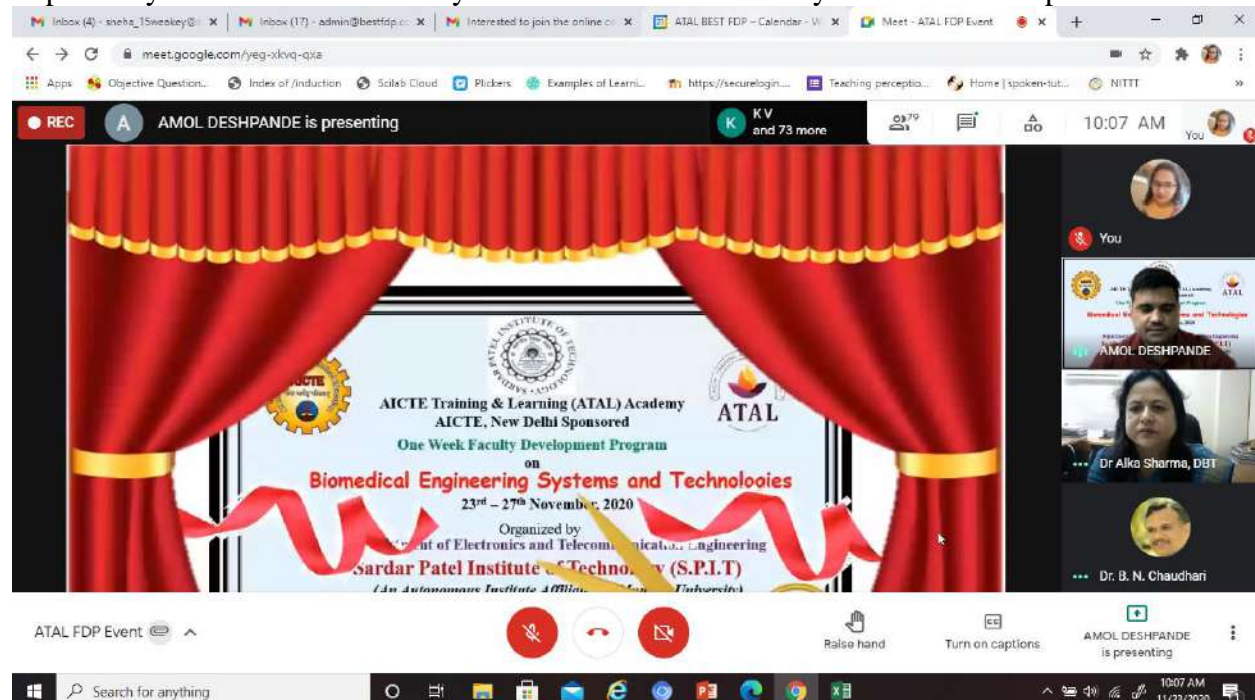
Valedictory Schedule

| | Valedictory Session |
|--------------------|--|
| 2.00 pm to 2.20pm | Oral (spontaneous) feedback by participants. |
| 2.20 pm to 2.30 pm | Address by Dr. B. N. Chaudhari, Principal. |
| 2.30 pm to 2.35 pm | Vote of thanks |

Session-wise Photos

Day 1: Inauguration

The organizers, participants and attendees of inauguration were fortunate to have Dr. Alka Sharma, Scientist G, Ministry of Science & Technology as Chief Guest. Her presence took the FDP to the next level and made this FDP ‘complete’ in actual sense. Because as shown above, the FDP experienced the presence of expert speakers from Industry, Academician and most importantly from medical fraternity and someone from ministry has made it complete.



REC A AMOL DESHPANDE is presenting Ram KanhePatil and 76 more 10:10 AM You

One Week ATAL Faculty Development Program on
Biomedical Engineering Systems and Technologies
23rd - 27th November, 2020

All India Council for Technical Education
AICTE Training & Learning (ATAL) Academy

Chief Guest
Inaugural Ceremony of
46 Online ATAL Faculty Development Programmes
23rd November, 2020 | 11:00 AM

Shri Ramnath Pokhriyal Nishank
Hon'ble Union Minister of Education

ATAL FDP Event

Search for anything

10:10 AM 11/23/2020

Day 1 Session 1: Dr. Amit Sethi

The screenshot shows a Google Meet interface during a presentation. The main window displays a slide titled "We could also automatically highlight regions of interesting morphology" with a UIC logo. The slide content includes a grid of histopathology images comparing H&E, Attention (with Negative, Neutral, and Positive heatmaps), and BRAF IHC (registered) for both Metastatic and Wildtype samples. Zoomed-in insets of the images are shown on the right. A footer note states: "Unpublished work by Deepak Arand, Kumar Talwar, Neelil Bora, and Amit Sethi".

On the right side of the screen, a Q&A panel is visible with the following questions:

- Meenakshi Pawar (23 Nov - 12:54): how did you identified patches?
- Meenakshi Pawar (23 Nov - 12:58): how you labeled images? it look
- Digambar Puri (Nov 23 - 11:49 AM): How to define the size of cancer images?
- Aayesha S. Haldim (Nov 23 - 11:53 AM): Sir, how were the heat maps generated? And which tool was used to visualize clusters in 50 D space?

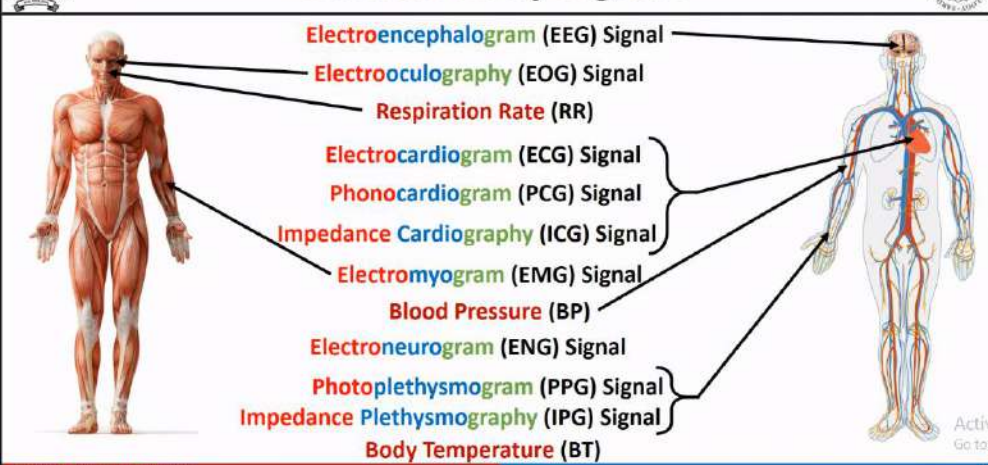
The bottom of the screen shows the Windows taskbar with various open applications and the system clock indicating 12:20 PM on 11/23/2020.

Day 1 Session 2: Mr. Deepak Berwal

Deepak Berwal is presenting

Biomedical Signals: Opportunities and Challenges

Human Body Signals

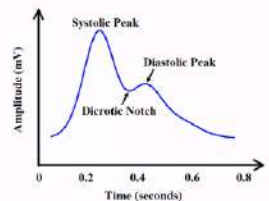


The diagram shows a human figure with various physiological signals labeled. On the left, a muscular figure is labeled with: Electroencephalogram (EEG) Signal, Electrooculography (EOG) Signal, Respiration Rate (RR), Electrocardiogram (ECG) Signal, Phonocardiogram (PCG) Signal, Impedance Cardiography (ICG) Signal, Electromyogram (EMG) Signal, Blood Pressure (BP), Electroencephalogram (ENG) Signal, Photoplethysmogram (PPG) Signal, Impedance Plethysmography (IPG) Signal, and Body Temperature (BT). On the right, a circulatory system diagram is labeled with: Electroencephalogram (EEG) Signal, Electrooculography (EOG) Signal, Respiration Rate (RR), Electrocardiogram (ECG) Signal, Phonocardiogram (PCG) Signal, Impedance Cardiography (ICG) Signal, Electromyogram (EMG) Signal, Blood Pressure (BP), Electroencephalogram (ENG) Signal, Photoplethysmogram (PPG) Signal, Impedance Plethysmography (IPG) Signal, and Body Temperature (BT).

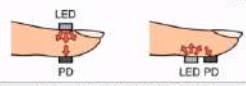
Deepak Berwal, IIT Bombay

Photoplethysmogram Signal

- Photoplethysmogram (PPG) is an optical measurement technique that can be used to detect blood volume changes in the microvascular bed of tissue.
- The basic form of PPG consists of: A light source (Red (R) and Infrared (IR) wavelengths) to illuminate the skin, and a photodetector (PD) to measure the small variations in the light intensity.



The graph shows the amplitude (mV) of a PPG signal over time (seconds). The waveform has a Systolic Peak, a Diastolic Peak, and a Dicrotic Notch. The x-axis is labeled 'Time (seconds)' with values 0, 0.2, 0.4, 0.6, and 0.8. The y-axis is labeled 'Amplitude (mV)'.



The diagram shows a hand with an LED light source and a PD (photodetector) sensor. The LED is labeled 'LED' and the PD is labeled 'PD'.

Reference: J.G. Webster, "Medical Instrumentation: Application and Design", 4th Edition, Wiley Publications, 2016

Deepak Berwal, IIT Bombay

Q&A

Allow questions

All questions

Oldest first

that meaningful signals do not get removed ? any particular approach towards this ?

Deepak Narkhede 23 Nov - 14:40

sir how an oximeter will measure the blood oxygen.

Digambar Puri 23 Nov - 14:41

Sir how to remove noise from EEG signals?

Activate Windows

Go to Settings to activate Windows.

Ask a question

ATAL FDP Event

Deepak Berwal is presenting

2:54 PM 11/23/2020

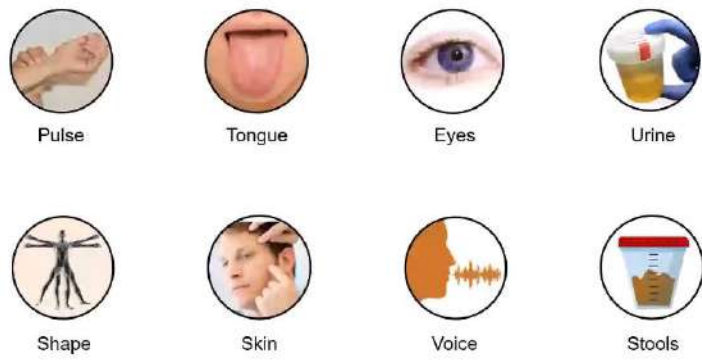
Day 1 Session 3: Dr. Aniruddha Joshi

inbox (19) - admin@bestfop.com x Meet - ATAL FDP Event x +

https://meet.google.com/yeg-xkvq-qxa

REC Aniruddha Joshi is presenting vimal singh and 66 more 73 15:40 You

8-fold Ayurvedic Method: अष्टविध परीक्षा



Pulse Tongue Eyes Urine

Shape Skin Voice Stools

TURYA Your Inner Metrics

Activate Windows Go to Settings to activate Windows.

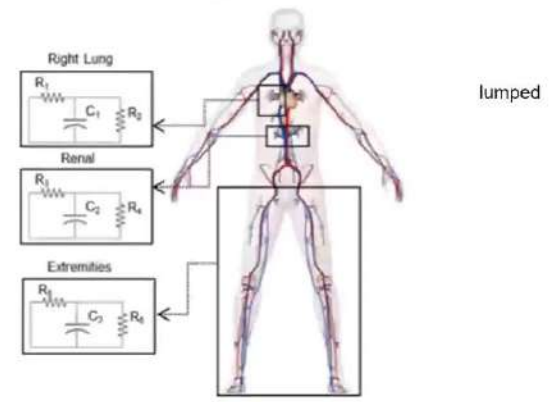
Search for anything

inbox (19) - admin@bestfop.com x Meet - ATAL FDP Event x +

https://meet.google.com/yeg-xkvq-qxa

REC Aniruddha Joshi is presenting Minu Ann Jacob and 73 more 80 15:48 You

Formation / Importance of the Pulse



Right Lung

Renal

Extremities

lumped

TURYA Your Inner Metrics

Activate Windows Go to Settings to activate Windows.

Search for anything

Day 2 Session 1: Dr. Hari Varma

The screenshot shows a Google Meet interface during a presentation by Hari Maliakal Varma. The presentation is titled "Quantitative methods in Medical Imaging" and is part of a series of slides. The main slide displayed is the title slide, which includes the TEBILab logo and contact information for Hari M Varma, Assistant Professor at the Department of Biosciences and Bioengineering, Indian Institute of Technology Bombay. The slide also mentions "Theoretical and Experimental Bio-Imaging".

Below the title slide, there are several smaller slides showing various images and diagrams. The bottom part of the screen shows a slide with handwritten mathematical formulas and diagrams related to image reconstruction. The formulas include:

- Convolution:
$$u_b(x, y) = u(x, y) \otimes \frac{1}{f}$$

blurred version of original
- Frequency domain:
$$u_b = \tilde{u} \cdot \frac{1}{|w|} \text{ freq domain}$$
- Filtered back projection:
$$p_0(t) \xrightarrow{\text{FFT}} S_0(w) \xrightarrow{|w|} S_0(w)|w| \xrightarrow{\text{IFFT}} Q_0(t) \xrightarrow{\text{back project}} H(u, v) \text{ all } u, v$$

The presentation is being viewed on a Windows 10 desktop. The taskbar shows various applications, including the Windows Start menu, Search bar, and several open windows. The system clock indicates the time is 10:00 AM on 11/24/2020.

Day 2 Session 2: Dr.Lancelot Pinto & Dr. Santoshi Nagaonkar

inbox (29) - admin@bettefop.com x Meet - ATAL FDP Event x

https://meet.google.com/yeg-xkvq-qxa

REC L Lancelot Pinto is presenting

Diganta Nagpal and 74 more


12:13 You

Diagnose Sleep Apnea

effortlessly & accurately

Sleep Test Based on Peripheral Arterial Tonometry

FDA-cleared HSAT device based on PAT according to AASM guidelines and CPT 95800.



meet.google.com is sharing your screen. Stop sharing Hide

Activate Windows
Go to Settings to activate Windows.

Search for anything

REC Santoshi Nagaonkar is presenting

S Mishra and 71 more

Haptic Feedback

A

B

actuator for axial torque
actuator for grasping force
wire gear
forceps
wire gear
belt gear

actuation unit

camera channel
end effectors
working channel

C

Activate Windows
Go to Settings to activate Windows.

Santoshi Nagaonkar

Satish Gupta

Milind Paraye

Abhinav Parkhi

Deepak Narkhede

Day 2 Session 3: Dr. Shivraj Rathod

Google Meet interface showing a presentation by Dr. Shivraj Rathod.

Top Bar: Shivraj Rathod is presenting. RANGARAJ BHATTACHA... and 67 more. 14:56. You.

Slide 1: Body Wearable Antennas (BHARAT FORGE KALYANI)

On Body (5.4 GHz) and inter body (2.5 GHz) communication

Frequency : 0 - 6 GHz
600 Million cells
Memory usage ~ 20 GB
time: ~ 3h

Slide 2: Parameter Affecting Imaging System (BHARAT FORGE KALYANI)

Frequency

- Lower the frequency stronger the penetration depth.

Dielectric Property

- Higher the dielectric constant lower the penetration depth.

Conductivity

- Higher the conductivity lower the penetration depth.

Other parameters

- Linear Dynamic range
- Bandwidth
- Range Resolution
- Acquisition Time
- Power Budget
- Unambiguous Range

Participants: Milind Paraye, Satish Gupta, Shivraj Rathod, Nilesh Kulkarni, Jyoti Yadav and 65 more, meenakshi chauhan.

Windows Taskbar: Search for anything. 2:56 PM 11/24/2020.

Day 3 Session 1: Dr. Tushar Kanti Bera

Invitation to Conduct: X Sent Mail - admin@bera X (12) WhatsApp X Unit test III & ESE Time X ESE-time-table.pdf X Meet - ATAL FDP X

meet.google.com/yeg-xkxq-qxa?pli=1&authuser=1

REC Tushar Kanti Bera is presenting Ude Singh and 54 more 10:27

Modal Diagnosis

Blood Pressure Monitor ECG ECG ECG Planner Radiography

X-Ray CT MRI PET

Dr. Tushar Kanti Bera, Assistant Professor, NIT Durgapur, WB, India Fluoroscopy Endoscopy

Search for anything

Invitation to Conduct: X Sent Mail - admin@bera X (15) WhatsApp X Unit test III & ESE Time X ESE-time-table.pdf X Meet - ATAL FDP X

meet.google.com/yeg-xkxq-qxa?pli=1&authuser=1

REC Tushar Kanti Bera is presenting Balasubramania... and 64 more 10:59

Impedance Characterization

Bioelectrical Impedance Analysis (BIA)

- Impedance of a body segment is measured to evaluate the body composition.
- Used to measure the body fat, fat free mass, total body water etc.

Impedance Plethysmography (IPG)

- Impedance of a body segment is measured to evaluate the limb blood volume changes.
- Used to detect deep vein thrombosis.

Impedance Cardiography (ICG)

- Impedance of a body segment is measured to evaluate the stroke volume.
- Detect Cardiac Output (CO) & other hemodynamic parameters.

Impedance Spectroscopy (EIS)

- Impedance of a body segment is measured to evaluate the transthoracic blood volume.
- Provides frequency response of the bioimpedance

Current source

Voltmeter

Body part

Voltage electrodes

Current electrodes

Ring electrode Impedance

dZ/dt Signal compared with ΔZ & ECG signal

Sramek Formula [Sramek et al. 1983]

Stroke Volume = $\frac{V}{2\pi} \frac{dZ}{dt} \frac{dt}{dVET}$

Object under test

Activate Windows Go to Settings to activate Windows.

Search for anything

Invitation to Conduct: X Sent Mail - admin@bera X (15) WhatsApp X Unit test III & ESE Time X ESE-time-table.pdf X Meet - ATAL FDP X

meet.google.com/yeg-xkxq-qxa?pli=1&authuser=1

REC Tushar Kanti Bera is presenting Balasubramania... and 64 more 10:59 AM 11/25/2020

Day 3 Session 2: Prof. Dayanand Ambawade, Hands on session

The screenshot shows a Google Meet session with Prof. Dayanand Ambawade presenting. The main window displays a Jupyter Notebook titled "Session_1_AICTE_FDP_ML_approach_for_Medical_Diagnosis_Part_1.ipynb".

Top Screenshot (12:39 PM):

- The notebook shows a pandas DataFrame with columns: ID, CT, USize, UCShape, MA, SECSIZE, BN, BC, NN, Mitoses, and Diagnosis.
- The DataFrame has 5 rows of data.
- Below the DataFrame, there is a code cell with the following Python code:


```
# ML X,y --> ML model =f()
# y=f(X)
X=df.drop(["ID","Diagnosis"],axis=1)
y=df.Diagnosis
```

Bottom Screenshot (1:11 PM):

- The notebook shows a confusion matrix table:

| | | p' | n' | |
|--------|---|-----------------|-----------------|---------------|
| actual | p | true positives | false negatives | Type II error |
| | n | false positives | true negatives | |
| | | | | Type I error |

Below the table, the text "Build the Supervised Machine Learning Models" is visible.

Day 3 Session 3: Dr. Samyak Mulkutkar & Dr. Swapnil Rane

The screenshot shows a Google Meet window with a presentation titled "Scheimpflug imaging - topography". The presentation content includes:

- A diagram of an eye with a Scheimpflug camera setup.
- A screenshot of the OCULUS - PENTACAM software interface showing a 3D topographic map of the cornea.
- A text box stating: "Anterior corneal curvature, posterior curvature, thickness, algorithmic mapping, etc..."

The right sidebar shows participants: Dr. Samyak Mulkutkar (presenting), Swapnil Rane, Satish Gupta, Sneha Wadgaonkar, Vimal Singh, and V.A. Joshi.

The screenshot shows a Google Meet window with a presentation titled "Oncopathology & Personalized Medicine". The presentation content includes:

- A central orange circle labeled "Onco-Pathology" surrounded by various examination types: Naked Eye Examination, Microscopic Examination, Protein expression, Genetic and -OMICS, and Clinical Information.
- A table summarizing the applications of Onco-Pathology:

| Application | Details |
|--------------|--|
| Diagnostic | Tumor type, Stage |
| Theragnostic | Detecting Targetable Mutations, Targetable Protein receptors, Predicting response to drugs |
| Predictive | |
| Prognostic | Probability of Cure, Progression, Death due to disease |

The right sidebar shows participants: Swapnil Rane (presenting), Satish Gupta, Sneha Wadgaonkar, Vimal Singh, and V.A. Joshi.

Day 4 Session 1: Dr. Abhijit Pednekar

The screenshot shows a Google Meet interface during a presentation. The main window displays a slide titled "ATAL FACULTY DEVELOPMENT PROGRAM Innovation in Healthcare" with the date "Thursday | November 26 | 2020". The slide features a background image of a person in a blue lab coat and mask, with a glowing molecular structure overlay. On the right side of the screen, a vertical list of participants is visible, including Satish Gupta, ABHIJIT pednekar, Milind Paraye, Dayansand Ambwade, and Parni Goyal. Below the main window, a taskbar shows several open files: "BEST_FDP_Resourc...pptx", "BEST_FDP_Resourc...pdf", "Media Coverage o...pdf", "Recognition letter...pdf", and "Recognition letter...pdf". The bottom of the screen shows a Windows taskbar with the search bar and various application icons. The time displayed is 10:10 AM on 11/26/2020.

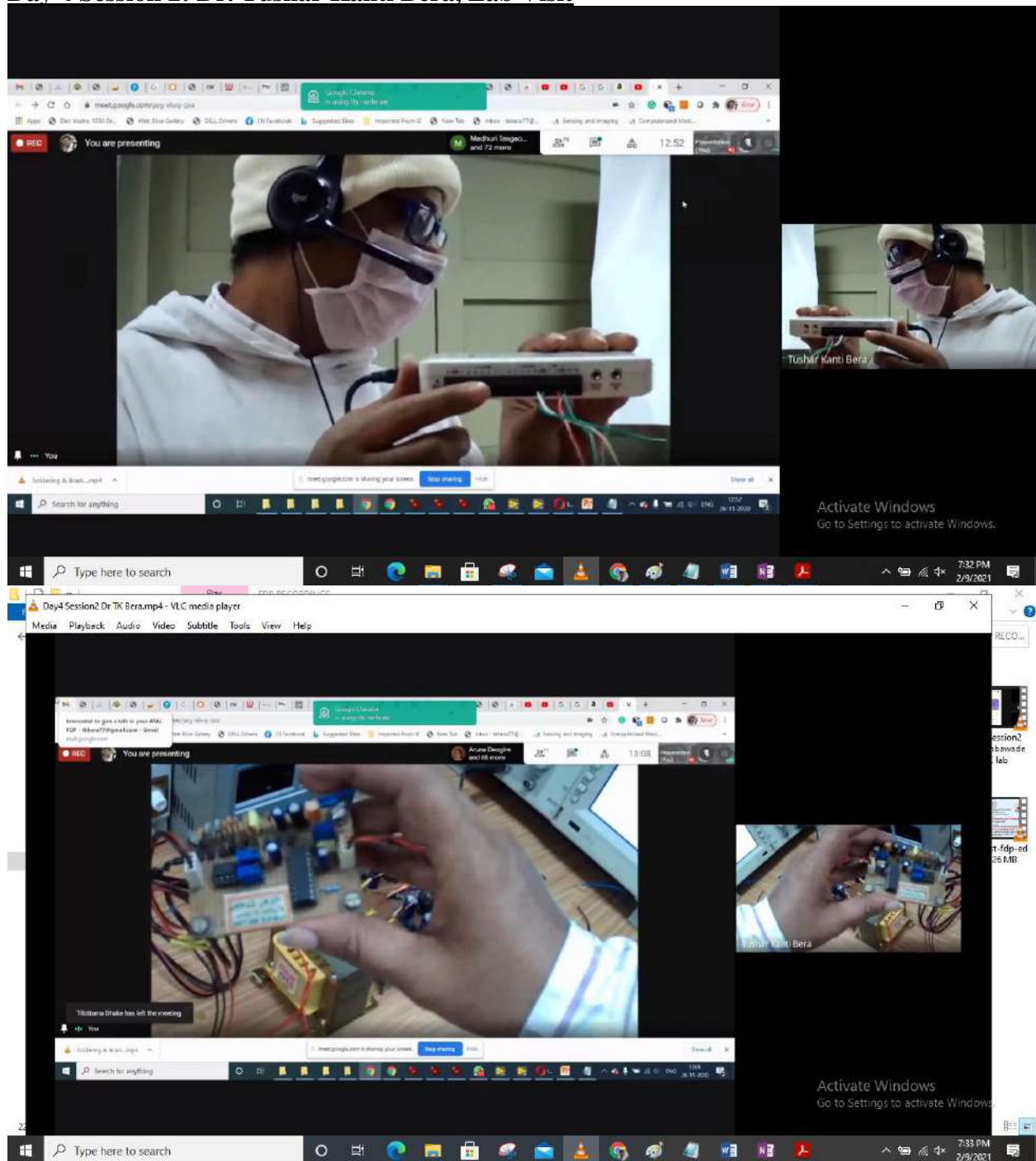
ATAL FACULTY DEVELOPMENT PROGRAM
Innovation in Healthcare
Thursday | November 26 | 2020

Participants: Satish Gupta, ABHIJIT pednekar, Milind Paraye, Dayansand Ambwade, Parni Goyal

Files: BEST_FDP_Resourc...pptx, BEST_FDP_Resourc...pdf, Media Coverage o...pdf, Recognition letter...pdf, Recognition letter...pdf

Windows Taskbar: Search for anything, 10:10 AM 11/26/2020

Day 4 Session 2: Dr. Tushar Kanti Bera, Lab Visit



28


Day 5 Session 1: Dr. G VedaPrakash

meet.google.com/yeg-xkvq-qxa?pli=1&authuser=1

REC Veda Prakash Gajula is presenting


Plasma devices developed and widely used in plasma medicine

Direct discharge




FE/DBD Insulated Electrode

Indirect discharge



Plasma Jet



Ref: 10.7395 / 2014 / HaertelMaler1 Ref: Veda et al., Physics Letters A 384 (2020) 126497

ATAL FDP Event

You 10:44
We have sent you a pdf document consisting of Admit numbers allotted to each participant. Plz take a not of it as you will have to mention the 'Admit number' while appearing for quiz.

Pravin Jaronde 10:45
Noted Sir

Vinni Sharma BIT 10:45
Yes sir noted

Thanks

Dr. Prachi Mukherji 10:45
OK sir

Satish Gupta 10:48
please share admit number sir.satish@gmail.com

Priya Hunkare 10:49
ok noted sir

Mina Ann Jacob 10:51
Noted sir

Send a message to everyone

Activate Windows
Go to Settings to activate Windows.

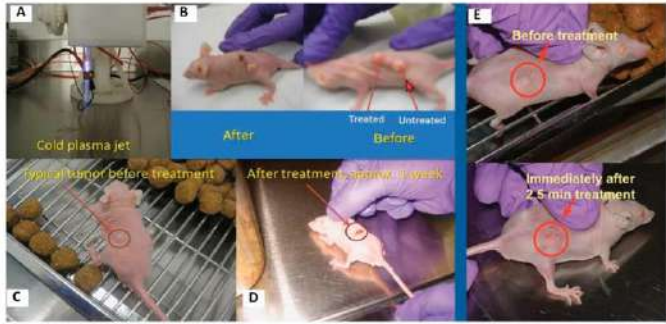
Class List (2020-11....csv) Class List (2020-11....html) Class List (2020-11....csv) Class List (2020-11....html) Class List (2020-11....csv)

Search for anything

meet.google.com/yeg-xkvq-qxa?pli=1&authuser=1

REC Veda Prakash Gajula is presenting

Plasma Jet for cancer treatment: in-vitro



(A) Cold plasma device; (B) typical image of mice with three tumours before and after treatment (shown after 24 h); (C and D) typical image of mice with a single tumour before and approximately 1 week after treatment; (E) tumour before and immediately after the 2.5-min treatment with cold plasma jet.

Keider et al., British Journal of Cancer (2011) 105, 1295-1301

Activate Windows
Go to Settings to activate Windows.

Class List (2020-11....csv) Class List (2020-11....html) Class List (2020-11....csv) Class List (2020-11....html) Class List (2020-11....csv)

Search for anything

Day 5 Session 2: Stress Management Session by Mr. Chandrakant Deoda, Sahajyoga Trust

Google Meet interface showing a session titled "Day 5 Session 2: Stress Management Session by Mr. Chandrakant Deoda, Sahajyoga Trust". The session is presented by Chandrakant Deoda. The main content area displays "Step 2" with an illustration of a person in a meditative pose, accompanied by the text: "Mother, I'm the pure spirit I!" (12 times).

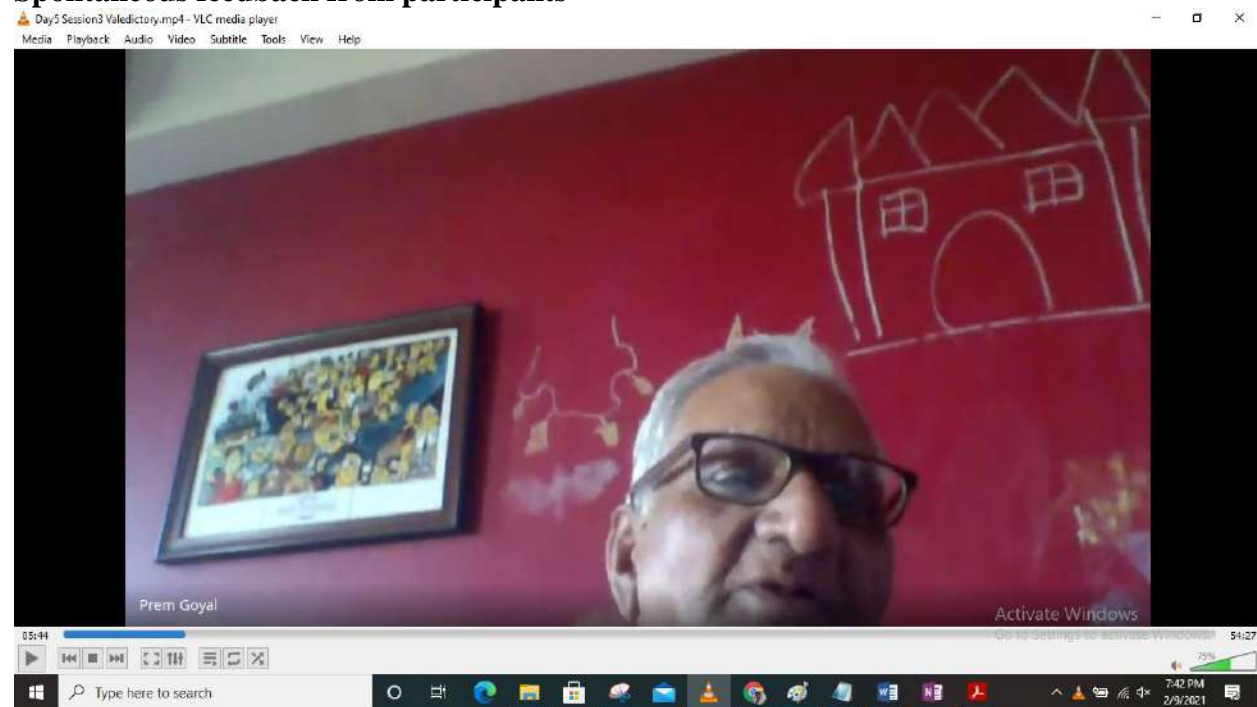
The interface includes a sidebar with participant thumbnails and a taskbar at the bottom showing various open applications, including VLC media player. The VLC media player window displays a video of a person in a meditative pose with a glowing aura, and a small inset window shows a video of Mr. Chandrakant Deoda.

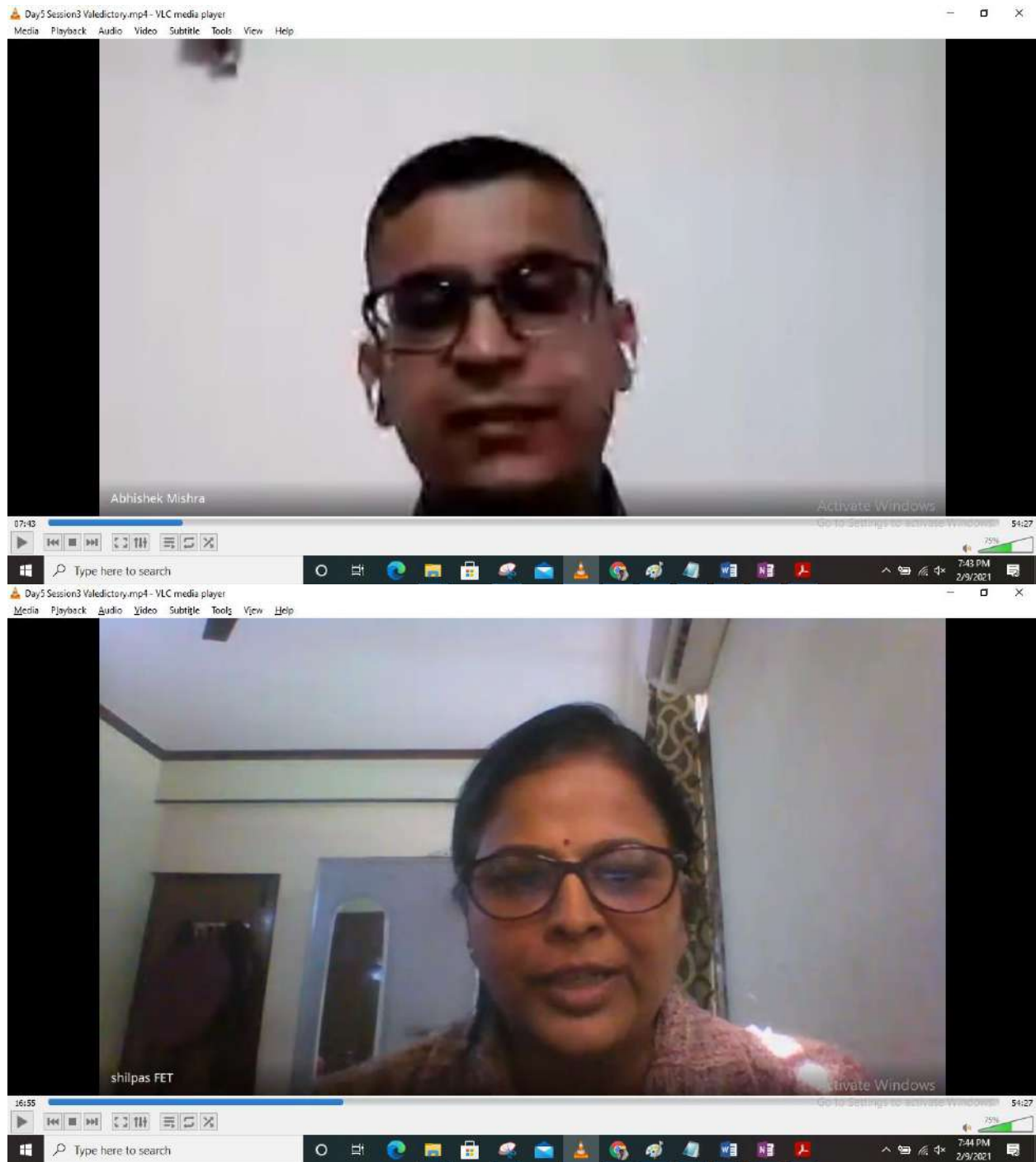
Windows taskbar and system tray information:

- Search bar: Search for anything
- Taskbar icons: Various applications including VLC media player, Google Meet, and others.
- System tray: 12:23 PM, 11/27/2020, 75% battery.

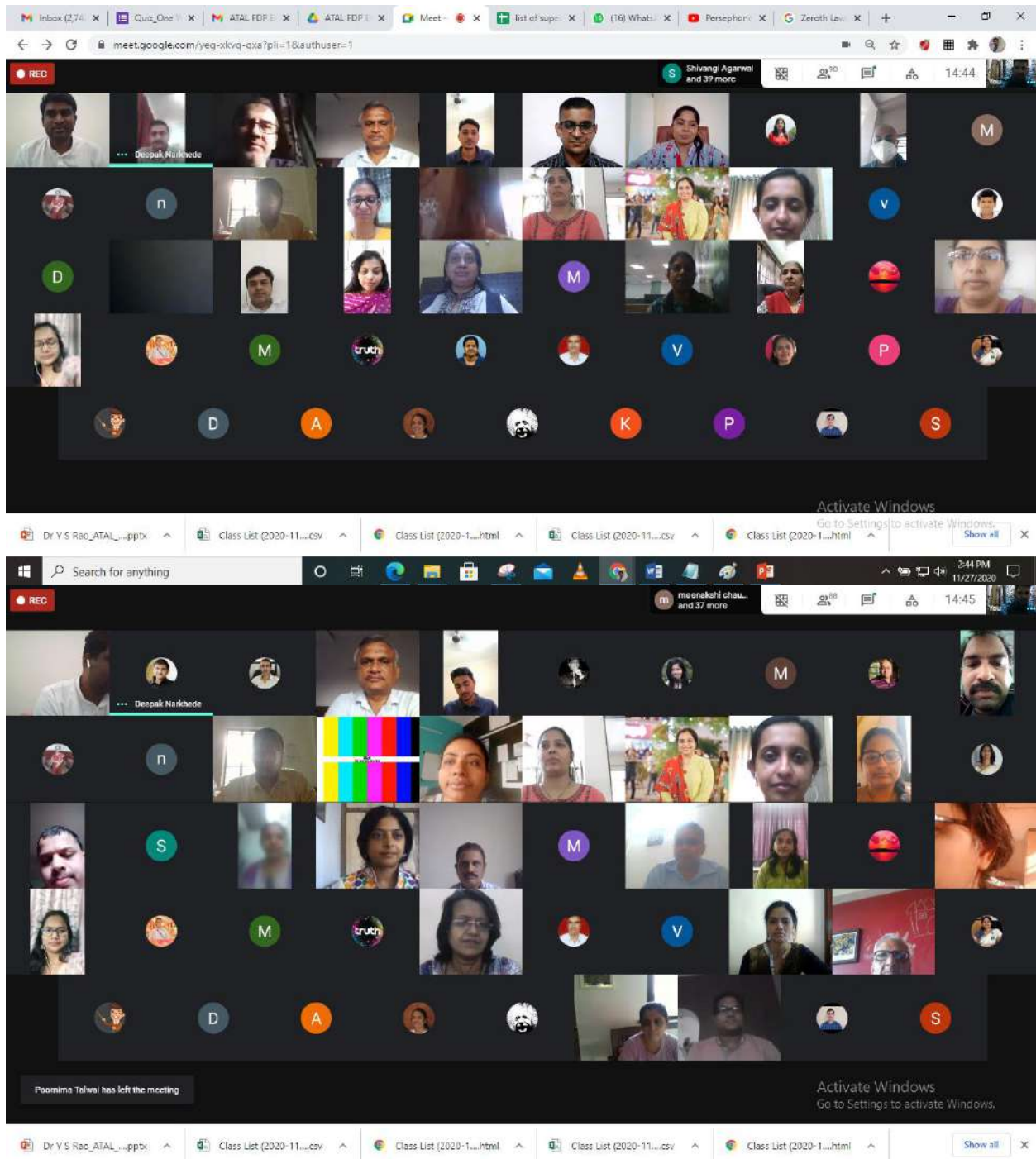


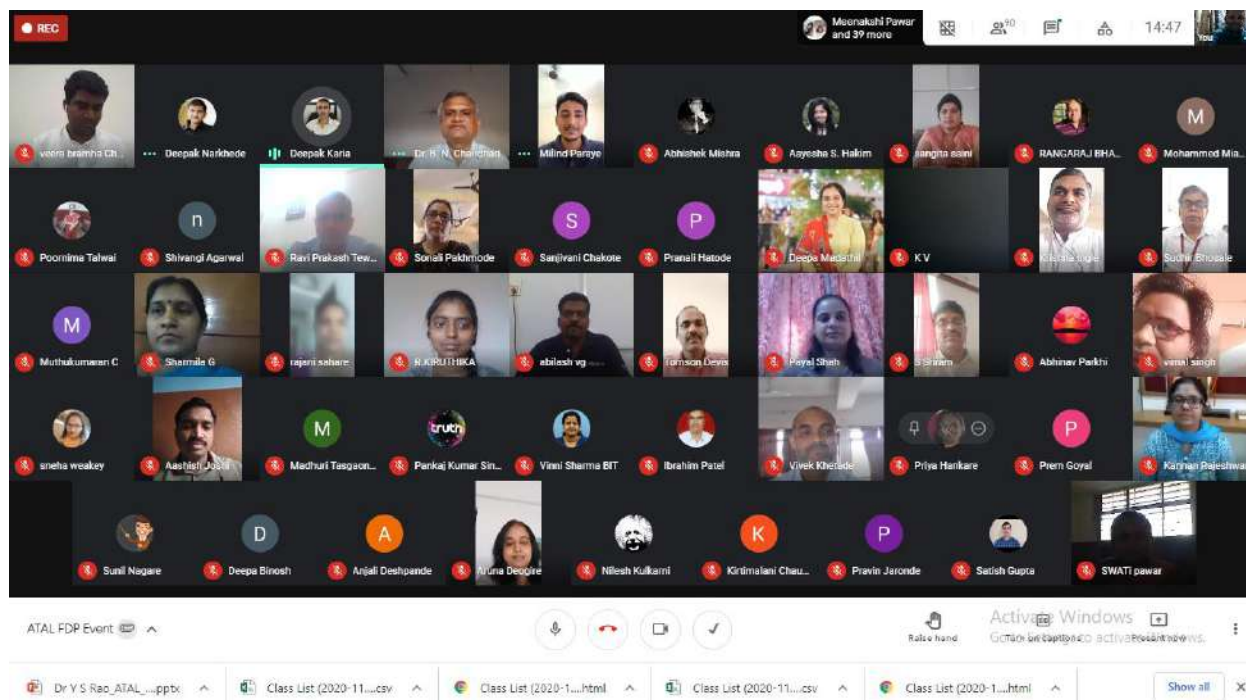
Day 5 Session 3: Valedictory & Feedback **Spontaneous feedback from participants**





Group photo (online) after Valedictory Session





List of Participants

The list of participants is given below:

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| 64 | Dr. Meenakshi M. Pawar | SVERI'S COLLEGE OF ENGINEERING PANDHARPUR | 9518930034 | minakshee2000@gmail.com |
| 65 | Dr. Ibrahim Patel | B V RajU Institute of Technology, Narsapur | 9966109986 | ibrahim.patel@bvrit.ac.in |
| 66 | Mr. A.MOHAMMED MIAN | C.ABDUL HAKEEM COLLEGE OF ENGG AND TECH | 9942448934 | ammian.ece@cahcet.edu.in |
| 67 | Mr. Deven ketkar | Finolex academy of management and technology ratnagiri | 8806575907 | deven.ketkar@famt.ac.in |
| 68 | Mrs. Ashwini V. Kulkarni | Govt. College of Engineering & Research, Awasari(Kh). , Pune | 7972191578 | ashwinitalegoankar@gmail.com |
| 69 | Dr. Dr.Dipti Sakhare | MITAOE | 8149205941 | dysakhare@etx.maepune.ac.in |

| | | | | |
|----|----------------------------------|---|------------|-------------------------------|
| 70 | Miss T Ramya | Vemu institute of technology | 9951473317 | ramyathenepalli@gmail.com |
| 71 | Dr. Deepa Madathil | VIT, Vellore | 9629865043 | deepa.m@vit.ac.in |
| 72 | Mr. Amol Vitthalrao Zade | SIPNA College of Engineering & Technology, Amravati | 9860384745 | amolsipna@gmail.com |
| 73 | Mr. Jadhav Dhananjay Krishna | FSMS | 7264822823 | Dj.dj2411@gmail.com |
| 74 | Mrs. Usha Verma | MIT Academy of Engineering | 8530147211 | uyverma@etx.maepune.ac.in |
| 75 | Mrs. Sanjivani Channappa Chakote | Ramrao Adik Institute of Technology | 7506120113 | sanjivani.chakote@rait.ac.in |
| 76 | Mrs. Tanuja Sanjay Patankar | Pimpri Chinchwad College of Engineering | 9922845016 | salitanuja@gmail.com |
| 77 | Mr. Saumitra Chandrakant Lalsare | Indian Institute of Technology Mumbai | 8655102352 | sclalsare_m16@et.vjti.ac.in |
| 78 | Mrs. Manisha Jayant Sagade | Smt. Kashibai Navale College of Engineering | 9545743810 | manishasagade821973@gmail.com |
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| 80 | Mr. Raj Jayantilal Jaiswal | R C Patel Institute of Technology, Shirpur | 9096339751 | jaiswalraj01@gmail.com |
| 81 | Dr. Pravin Onkar Patil | H R Patel Institute of Pharmaceutical Education an | 9923484915 | rxpatilpravin@gmail.com |
| 82 | Mrs. Anjali Deshpande | MIT Aoe | 8411063300 | anjudeshpande12@gmail.com |
| 83 | Dr. Pramod Gadad | KLE College of Pharmacy Hubli | 9035049022 | gadadpramod@gmail.com |
| 84 | Miss Teena Rani | Government Polytechnic Lisana | 9518625134 | teenaverma37@gmail.com |
| 85 | Mrs. Sangita saini | Government polytechnic lisana Rewari | 9728913549 | sangitasaini9@gmail.com |
| 86 | Mrs. Sonali Yugesh Pakhmode | pvp | 9869478529 | pakhmodesy@gmail.com |
| 87 | Mrs. Payal H. Shah | Sardar Patel Institute of Technology | 9867368965 | payal_shah@spit.ac.in |

| | | | | |
|-----|----------------------------|---|------------|---------------------------------------|
| 88 | Mr. Sumit Manikrao Pande | College of Engineering, Pune | 7741988719 | pandes2510@gmail.com |
| 89 | Dr. K.Rajeswai | Pimpri Chinchwad College of Engineering | 7066892206 | raji.pccoe@gmail.com |
| 90 | Dr. vivek Ekaji khetade | Shri Ramdeobaba College of Engineering & Managment Nagpur-13 | 9822221334 | khetadev@rk nec.edu |
| 91 | Miss Chandragade A.A | PCCOE Nigdi | 9970286609 | chandragade.shree1106@gmail.com |
| 92 | Mr. Ketan Sanjay Desale | Pimpri Chinchwad College of Engineering (PCCoE) | 9960859064 | ketan.desale@pccoe pune.org |
| 93 | Miss anju gupta | RCOEM,NAGPUR | 9960180001 | guptaam@rk nec.edu |
| 94 | Mr. Jitendra B. Zalke | Shri Ramdeobaba College of Engineering and Management | 9326982837 | zalkej@rk nec.edu |
| 95 | Dr. Syed Mohammed Shoaib | Maulana Azad National Urdu University Gachibowli, Hyderabad-32, T. S, India | 9494729917 | smdshoaib@gmail.com |
| 96 | Mr. Milind Paraye | Sardar Patel Institute of Tech. | 8767138757 | milind_paraye@spit.ac.in |
| 97 | Miss Rajani Maniram Sahare | Government College of Engineering Amravati | 9860090083 | saharerajani29@gmail.com |
| 98 | Mr. SUDHIR BHOSALE | AISSMS COE, PUNE | 9423001612 | spbhosale@aissmscoe.com |
| 99 | Mrs. Subha Lakshmi | Gfgc, Thenkanidiyur | 7892251068 | subhala08@gmail.com |
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| 101 | Miss Dimple Nagpal | Chitkara University | 9355580981 | dimplenagpal009@gmail.com |
| 102 | Miss Aysha Khan | Rolla Computer and Management Trainee | 9045843184 | aisha.khan9413@gmail.com |

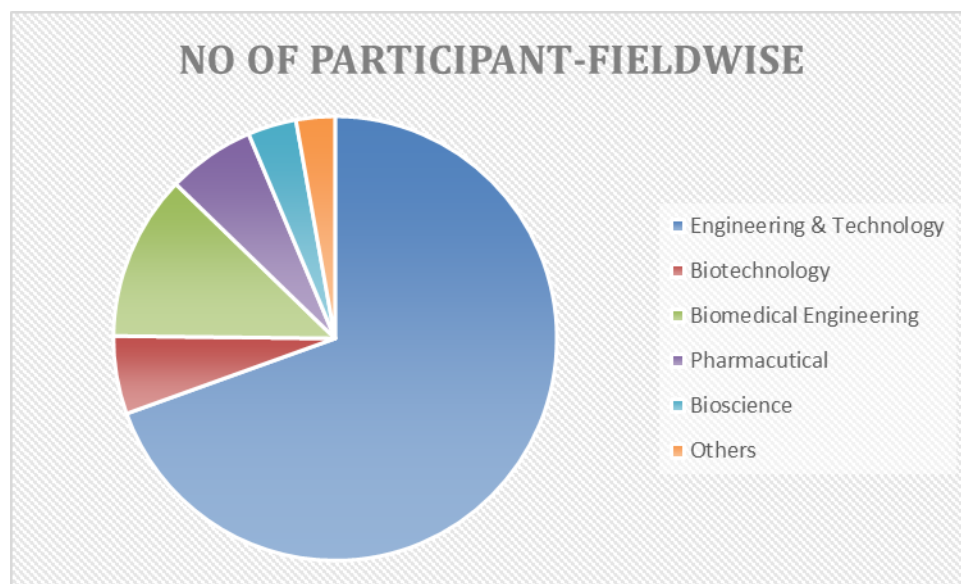
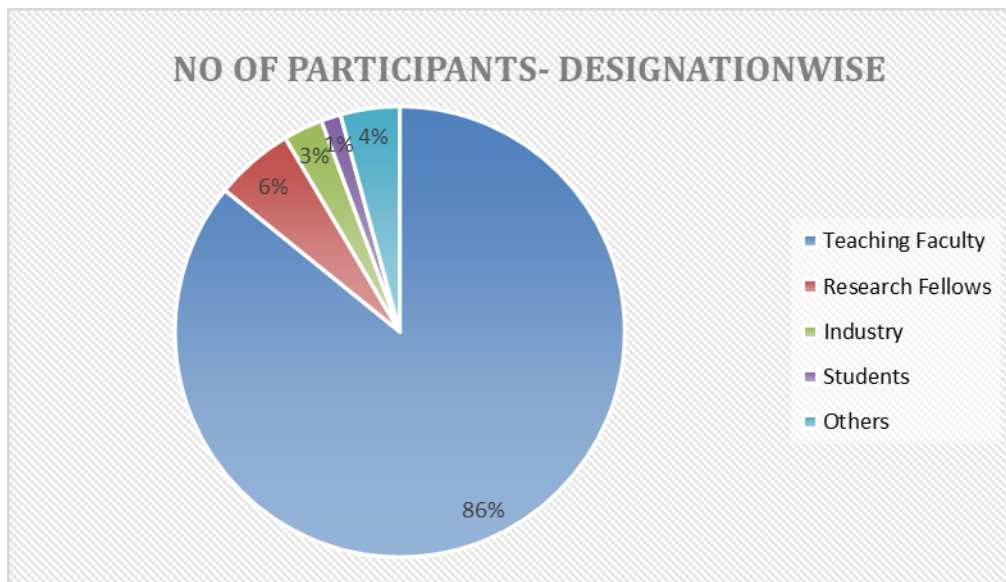
| | | | | |
|-----|----------------------------------|---|------------|--------------------------------------|
| 103 | Dr. Arvind Kumar | Noida Institute of Engineering and Technology | 9761143975 | aka.biotech@gmail.com |
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| 105 | Miss Pradnya Narayan Gokhale | SPCE | 7798764690 | gokhaleprad@gmail.com |
| 106 | Dr. Deepak Karia | Sardar Patel Institute of Technology | 9820436099 | deepak_karia@spit.ac.in |
| 107 | Dr. C. Muthukumaran | Government College of Technology | 9894595995 | muthukumaran.c@gct.ac.in |
| 108 | Dr. G. Sharmila | Government College of Technology | 9940596128 | sharmila.g@gct.ac.in |
| 109 | Dr. VIMAL KISHOR Singh | AMITY UNIVERSITY HARYANA | 1242733150 | vk Singh@ggn.amity.edu |
| 110 | Dr. Dr. Neha R. Deshpande | Abasaheb Garware College | 9529364136 | neha.d68@gmail.com |
| 111 | Mr. Sankar Kandasamy | Saveetha engineering college | 9884611055 | kssankar10@gmail.com |
| 112 | Dr. Aruna Dinesh Deogire | NA | 9423080128 | arunadeogire@gmail.com |
| 113 | Mr. TOMSON DEVIS | St. Joseph's College of Engineering and Technology, Palai | 9446126652 | tomsondevis@gmail.com |
| 114 | Mr. Madhanlal | Saveetha Engineering College | 9790753481 | madhanlal@saveetha.ac.in |
| 115 | Mr. AASHISH AINATH JOSHI | Karmayogi Engineering College | 9511858397 | ashu.joshi05@gmail.com |
| 116 | Mrs. Vaishali Anupam Joshi | VPM's Polytechnic, Thane | 9821263821 | vajoshi@vpmthane.org |
| 117 | Mrs. Madhuri Tasgaonkar | Cummins College of Engineering for Women | 9850811664 | madhuri.tasgaonkar@cumminscollege.in |
| 118 | Mr. dipak ravindra narkhede | Sanjivani KBP Polytechnic Kopergaon | 9823399763 | deepaknarkhede@gmail.com |
| 119 | Mr. Pritish Mahendra Vibhute | Sanjivani college of Engineering Kopergaon | 9004030338 | vibhutepm@gmail.com |

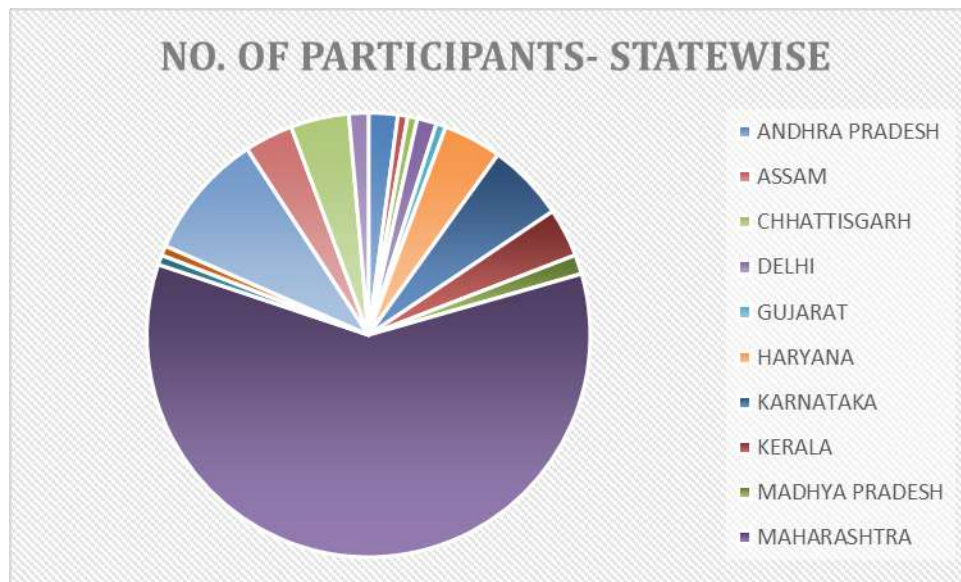
| | | | | |
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| 12 0 | Dr. Dr. Deepali Shelke | Shri Ramdeobaba College of Engineering and Management | 98817131 76 | shelkedt@rknc.edu |
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| 12 2 | Mr. Pandurang Uttamrao Avte | Government Polytechnic Ambad | 91584958 88 | shiva.awate@gmail.com |
| 12 3 | Mr. INGLE KRISHNA SUDHAKAR | DEOGIRI INSTITUTE OF ENGINEERING AND MANAGEMENT STUDIES, AURANGABAD. | 99235355 90 | krishnaingle@dietms.org |
| 12 4 | Dr. Pankaj Kumar Singh | Indian Institute of Technology (Banaras Hindu University) | 83184179 94 | pksiitbhu@gmail.com |
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| 12 6 | Dr. SINTHIA.P | SAVEETHA ENGINEERING COLLEGE | 99405217 04 | sinthiappanneerselvam@gmail.com |
| 12 7 | Mr. Srinivas Ramacharya | Government College (Autonomous) Kalaburagi | 80733927 50 | srcharyamalgi@gmail.com |
| 12 8 | Mr. JAYKUMAR KARNEWAR | Sipna College of Engineering and Technology Amravati | 97669268 89 | jay.skumar9@gmail.com |
| 12 9 | Miss T. DHARANI | PERIYAR UNIVERSITY | 90034868 24 | dharanimca28@gmail.com |
| 13 0 | Miss Shelke Rutuja Govindrao | Deogiri Institute of Engineering and Management Studies, Aurangabad | 94044270 75 | rutujashelke@dietms.org |
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| | | | | |
|---------|-------------------------------|---|----------------|-------------------------------------|
| 13 2 | Miss Arathy M | Sahrdaya College of Engineering & Technology | 75609469 62 | arathym95@gmail.com |
| 13 3 | Miss Vandana suryavanshi | Shetty institute of Technology | 95387002 60 | vandana3334@gmail.com |
| 13 4 | Mr. BALASUBRAMA NIAN K | Erode Sengunthar Engineering College | 95665976 76 | mailtobalasubramanian@gmail. com |
| 13 5 | Mr. Amit Raosaheb Pathare | Prof. Ram Meghe Institute of Technology and Research, Badnera | 90283780 72 | pathare.amit2909@gmail.com |
| 13 6 | Dr. RAVI PRAKASH TEWARI | MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD | 99366194 85 | rptewari68@yahoo.com |
| 13 7 | Mr. Dayanand Ambawade | Sardar Patel Institute of Technology | 98210076 80 | ddambawade1@gmail.com |
| 13 8 | Mr. Divyesh Prafulla Ubale | Sardar Patel College of Engineering Mumbai | 79770531 99 | divyeshubale1904@gmail.com |
| 13 9 | Miss Deepa B Prabhu | Sri Ramakrishna Engineering College | 87540019 93 | deepa.b@srec.ac.in |

Participant's Related Statistics

The participants were from various fraternity, various fields, various designations and from various parts of the country. The charts displayed below show this variation in graphical manner.






Feedback from Participants

Some of the spontaneous feedback received for the workshop are as below

Congratulations Inbox x ✕ 🖨

 **P. S. Goyal** <psgoyal@mes.ac.in> Sat, Nov 28, 2020, 1:17 PM ☆ ↩
to me, ysrao ▾

Dear Dr Amol Deshpande
Hello!
I am writing this to formally congratulate you and your team for conducting excellent FDP. The choice of speakers and the subject area was good and everything went smoothly for five days as per schedule.

As research activity is almost at stand still in our college, I could attend all the lectures. I enjoyed the lectures and have learnt new things.

I might add that I have submitted Quiz and feedback for SIPT and ATAL.

I hope we shall meet some time.

Regards Best wishes
—

Dr. PS Goyal
Professor of Electronics and Dean R&D
Pillai College of Engineering (PCE) (NAAC A+), New Panvel-410206
(Ex Scientist at BARC and Center Director at UGC DAE CSR, Mumbai)
[Google Scholar](#) | [Pillai College](#)



Dr. Amol Deshpande <amol_deshpande@spit.ac.in>

FDP Feedback

1 message

Aayesha S. Hakim <aayesha.hakim@gmail.com>
To: amol_deshpande@spit.ac.in

Mon, Nov 30, 2020 at 9:34 PM

"Enormous and most sincere thanks for the FDP. There was something for everyone. The lectures conducted were by renowned people in their respective fields with a great amount of work as their badge of honor. This online FDP was the gold standard and very well-tailored. Informative, comprehensive & great variation of sessions. Really appreciate the wealth of knowledge and insight shared with us. Amazing sessions kept our attention till the end of the day. I really enjoyed the journey we were led on to try different ways of thinking and approaching data visualisations. I gained so much – a structured process to analyse and debug, tools shared, tons of tips and strategies to improve my Ph.D work and thoughtful answers of speakers to my questions. I was looking forward to this workshop for weeks, and it exceeded my expectations! Great job, team!"

- Aayesha Hakim

Feedback on BEST FDP

1 message

Deepa Binosh <deepa.b@srec.ac.in>
To: "S.P.I.T. FDP B.E.S.T." <bestfdp2020@spit.ac.in>

Sun, Dec 6, 2020 at 10:38 PM

Hello Dr. Deshpande,

I am an electronics engineer working in the Biomedical engg department at my institute. I am glad to inform you that I found the FDP on Biomedical technology organised by SPIT to be very up-to-date on the topics, with the best resource persons in each field. The sessions were the right mix of theoretical discussions and practical information from the medical professionals. Afterall, the whole concept of Biomedical Engineering is to bridge the engineering technology with the medical field, and I must say that your team did a great job in achieving this. What's more, I am impressed and surprised at how the Electronics Dept has succeeded in striking this balance in a topic such as Biomedical Engineering by choosing the right topics for the sessions. I should also mention the good planning of the sessions and the time management throughout the sessions.

The lab session on machine learning was very useful, and though I am totally new to the topic, I found the subject very interesting. So much so, that I have enrolled in an online program to start learning ML. Thank you so much for helping me take that step.

I look forward to attending more sessions organised by your team, and look forward to visiting your institute during one of the future sessions.

Thanks and best regards

--

Deepa B. Prabhu,
Assistant Professor (Sr. Gr.),
Department of Biomedical Engineering,
Sri Ramakrishna Engineering College,
Coimbatore- 641 022
Mob: +91-8754001993

FDP - reg

1 message

kiruthikar@nitt.edu <kiruthikar@nitt.edu>
To: "S.P.I.T. FDP B.E.S.T." <bestfdp2020@spit.ac.in>

Mon, Nov 30, 2020 at 2:19 PM

Respected Sir/Madam

I am very glad to give my personal feedback about the enlightening FDP conducted by your team, and feel really delighted to be a part of it as a participant. The flow of the FDP was very well defined, the contents were very apt and precise. It was not like an ordinary online FDP session, because it was such an interactive platform where actually we have been given space to clear our doubts. I am really new to this area but have gained so much knowledge and new insights for my interdisciplinary research.

Everything about the change in schedule, session contents and updates were promptly posted in WhatsApp group. I hope to get all the recordings of the FDP soon and thanks for the contents shared in drive till now.

I really wish to thank and congratulate the coordinating team for conducting this amazing, thought provoking and innovative sessions. Looking forward for more events to be organized by you all.

Thank you once again!

With regards
R.Kiruthika
Research Scholar, NITT

Feedback for FDP

1 message

SAUMITRA LALSARE <sclalsare_m16@et.vjti.ac.in>
To: amol_deshpande@spit.ac.in
Cc: saumitra.l@iitb.ac.in

Wed, Dec 9, 2020 at 1:51 PM

Dear sir,

As per our conversation, please take this as a feedback to the **AICTE ATAL FDP on "Biomedical Engineering Systems and Technologies"** during 23rd to 27th Nov. 2020 conducted in online mode.

The FDP was well planned and nicely structured. We could see a combination of academicians and industrialists in the program. We had Doctors, Surgeons, Professors, Industry leaders as the guest speakers. Importantly, all the sessions we had were focussed to the topic of the program. We also had a couple of talks from successful researchers cum entrepreneurs and one even from Defence. It was great to know that the speakers were available from much time before their actual schedule, which was indicating their interest in delivering the talks. Despite being an online program, the participants were making it interactive. I appreciate the efforts of the coordinating committee for organizing and running the FDP smoothly. We got many insights from the program and this has increased the expectations from SPIT for further such sessions. Many thanks to AICTE, SPIT, speakers and the coordinators.

Thanks and regards,
Saumitra Lalsare
Technical Superintendent,
Department of Biosciences and Bioengineering,
Indian Institute of Technology Bombay, Mumbai- 76

Feedback Form for Participants

The participant's feedback form was exclusively designed for SPIT records. The feedback questionnaire & form is given below:

FEEDBACK FORM_1 Week Faculty Development Program on "Biomedical Engg. System and Technology" 23rd -27th Nov. 2020

Form description

Email address *

Valid email address

This form is collecting email addresses. [Change settings](#)

"Biomedical Engg. System and Technology"



Admit Number *

Short answer text

Email address *

Short answer text

Email address(as mentioned in ATAL Portal) *

Short answer text

Full Name *

Short answer text

Contact No.(Whatsapp Contact Number) *

Short answer text

Qualification *

Short answer text

Area of Interest *

Short answer text

Institution *

Short answer text

Department *

Short answer text

Designation *

Short answer text

State *

Short answer text

Regarding_Resource Person(Speakers) *

| | Excellent | Good | Average | Dissatisfied |
|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Delivered Efficiently | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Knowledgeable | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Responsive to Parti... | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Contents of Session | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Regarding_ Organizing Team *

| | Excellent | Good | Average | Dissatisfied |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Contents of FDP | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Sequencing of Sess... | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Conduct & Coordin... | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Google Meet Conne... | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Overall Coordination | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

My interest in the thrust area of FDP before the FDP is (Please score, 1=not at all, 2=hardly, 3=a little bit, 4=very much) *

☐ 1

☐ 2

☐ 3

☐ 4

Knowledge gained from the FDP is (Please score 1=not at all, 2=hardly, 3=a little bit, 4=very much) *

☐ 1

☐ 2

☐ 3

☐ 4

Have you received Material (PPT / Video) of all sessions ? *

☐ Yes

☐ No

☐ Maybe

Would you like to attend such Programs organized by SP-IT in future. *

☐ Yes

☐ No

☐ Maybe

My Key takeaways from this Faculty Development Program *

Long answer text

Which session you like the most.... *

Short answer text

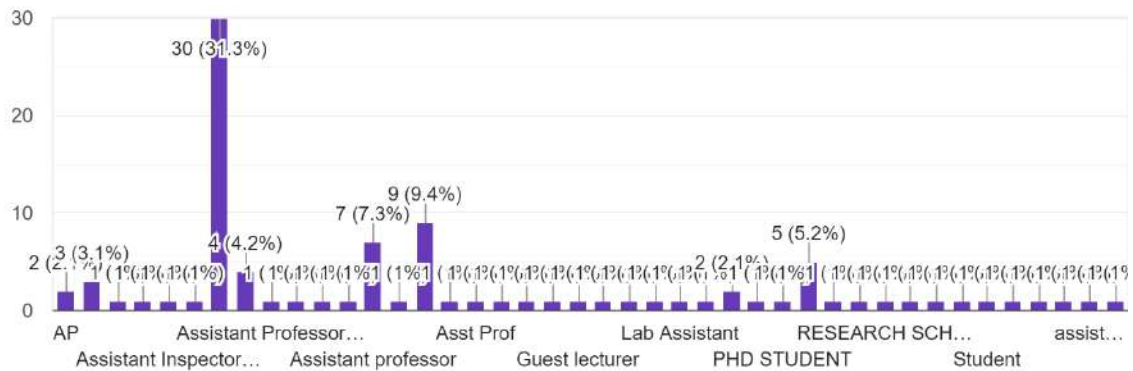
Any Specific Remark/Suggestion/Feedback you want to give.... *

Long answer text

The responses obtained through this feedback form in the form of chart are listed below:

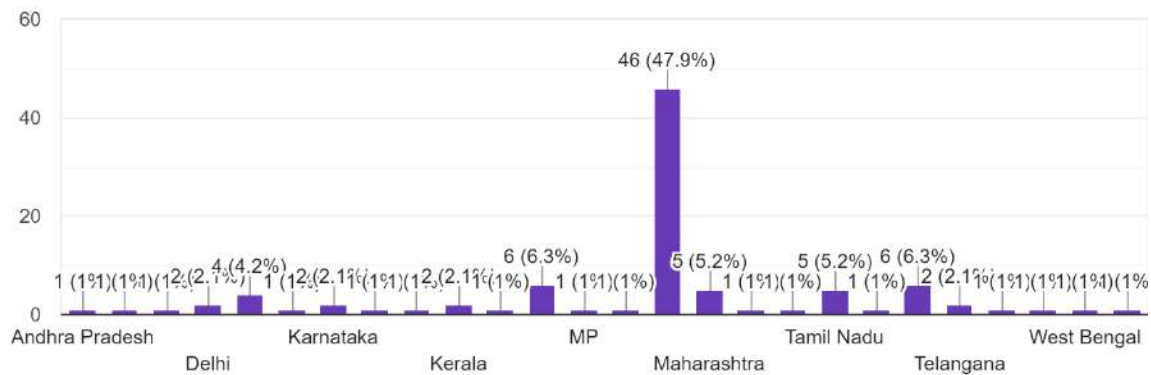
Designation

96 responses

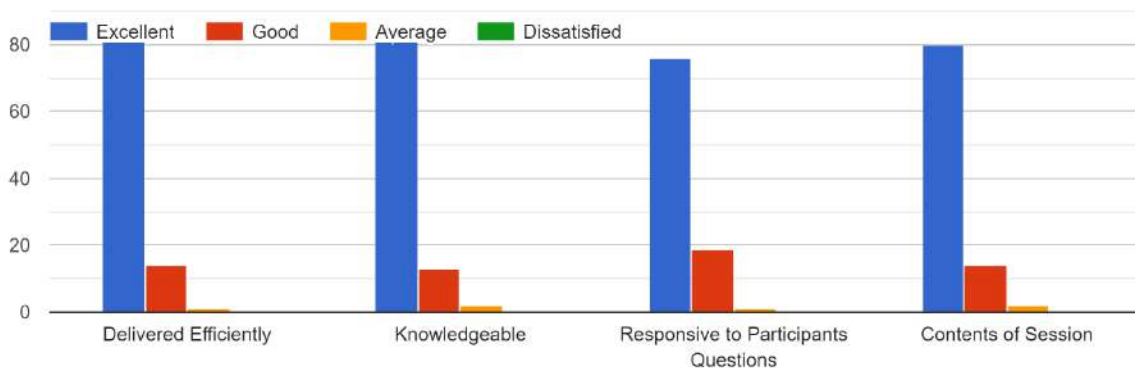


State

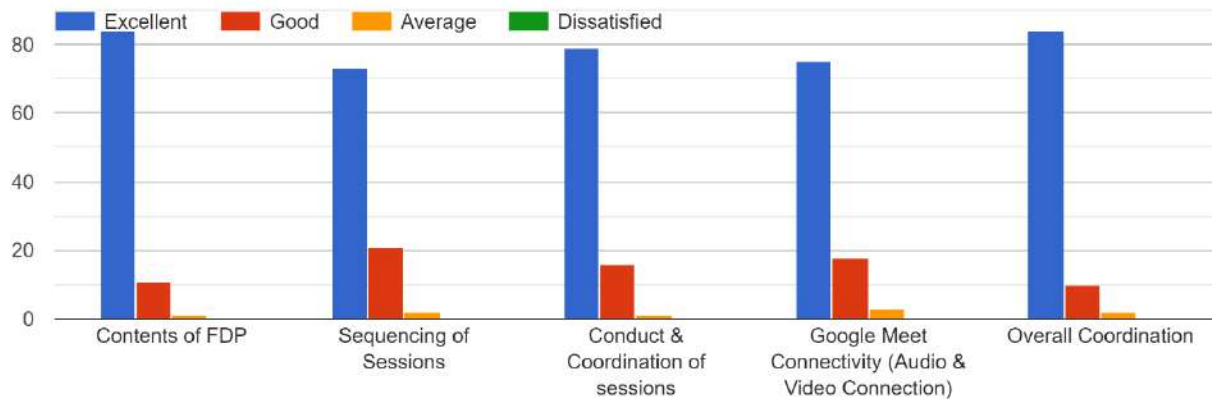
96 responses



Regarding_Resource Person(Speakers)

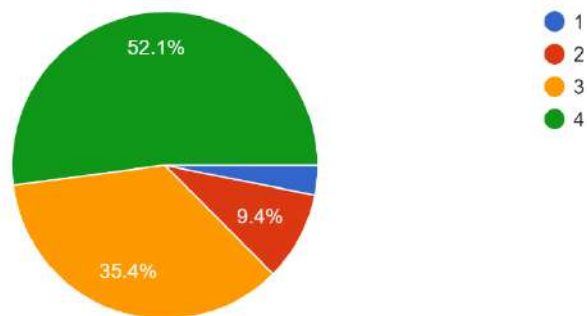


Regarding_ Organizing Team



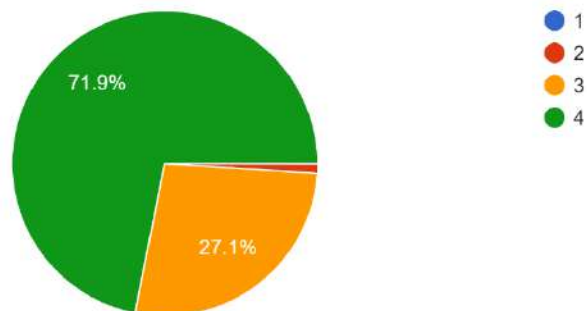
My interest in the thrust area of FDP before the FDP is (Please score, 1=not at all, 2=hardly, 3=a little bit, 4=very much)

96 responses



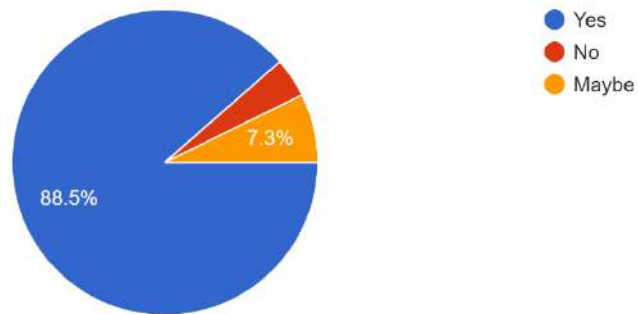
Knowledge gained from the FDP is (Please score 1=not at all, 2=hardly, 3=a little bit, 4=very much)

96 responses



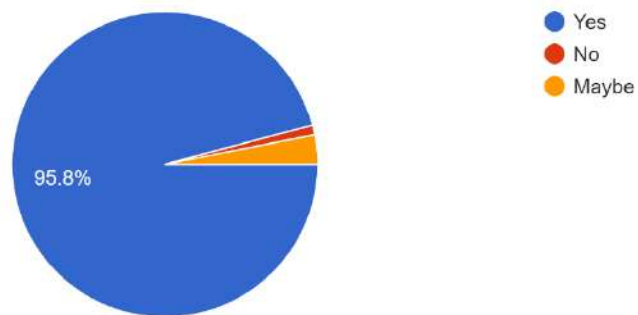
Have you received Material (PPT / Video) of all sessions ?

96 responses



Would you like to attend such Programs organized by SP-IT in future.

96 responses



My Key takeaways from this Faculty Development Program

96 responses

| |
|--|
| Good |
| Robotics in Surgery |
| I can see a lot of areas open for potential research, came across a lot of areas which were completely new to me, overall an enriching experience. |
| Confidence |
| Knowledge about machine learning and how technology can be applied in Pharmacy |
| Engineers have to come out of compartments and learn about other branches of engineering and also basic sciences (Physics, Chemistry, Biology) Multi-disciplinary knowledge would be required for employment or research. |
| New areas of research are explored |
| Bio Signal Processing |
| A brighter view for research in this domain |
| excellent session on biomedical devices and techniques |
| Biomedical |
| To improve teaching effectiveness |
| Biomedical Engineering is an very interesting field. It is having many applications in medical field. I came to know many research area and how medical and engineering field can be clubed together for research and development. |
| Biomedical Information |
| I like the session organized and the flow of contents of FDO. Its will be add on if there would be lab session showing the masurement devices used for conducting biomedical experiments |
| Recent developments in biomedical engineering, use of AI in medical field, Ayurveda |
| Huge scope for biomedical engineering in medical field and the need for collaborative research |
| Doctors talk on use of AI |
| have developed deep interest in biotechnology |
| It is very useful to me and all my Research Students |

New technologies and Research avenues

Learn application of analog engineering in medical applications

Applications of Machine learning in medical field and how to manage the stress.

Right path to explore

Technology in Medicine

Lot of Opportunity in the biomedical engineering field

I really got exposure to the topics which I have never heard off such as EIT, Cold Plasma, Fiber Photometry and so on. All the sessions has given me a hint to gain more knowledge with the topics I have perceived here.

This scanning technology can be used with AI to detect Mines

Interaction /Lectures of renowned Medical Doctors in the emerging areas

Which session you like the most....

96 responses

All

Machine Learning Applications in Biomedical

Data science driven Ayurveda

all

The one by Dr Samyak Mulkutkar

1st Session 24/11/2020, Biomedical Image Reconstruction

Difficult to choose.

Dr Amith Sethi

Hand-On

Each

Technology in Medicine

Tushar Kanti Bera Sirs session

Dr. Santoshi Naogaokar session on robotics

Session of Prof.Amit Sethi, Prof. Hari Verma and First session of Prof.KantiBera

Electrical impedance tomography by Dr Bera

Dr. Nagaon kar

all were remarkably impactful

Robotic operation

Dr. Abhijit Pednekar's session

basic neuroscience and scope for engineers

By Dr. Amit Sethi

maximum all

Pinto sor

Hands on session using google colab

Robotics in surgery, innovations in healthcare, stress management

The speaker Dr. Amit Sethi

Any Specific Remark/Suggestion/Feedback you want to give....

96 responses

| |
|--|
| Excellent FDP |
| Great learning |
| A lecture on manufacturing (hardware) of Medical Instruments could be useful |
| It was one of the excellent FDP I have attended so far. Choice of Speakers was extraordinary and topics as well |
| This FDP was very well organised and successfully conducted. |
| More Hands-on Lab |
| Great work by Organising team SPIT, and to Dr. Amol Deshpande sir who helped with each n every query during the session. |
| Presentation and interaction with the resource person were excellent. |
| I would like to attend such FDPs in future. |
| Excellent Sessions |
| Thank you organizing team for such a wonderful FDP. |
| Excellent FDP |
| Very good session, excellent choice of resource persons from academia, industry and medicine |
| It was a flawless event. Great efforts taken by the coordinator to gather really good speakers. All of them were worth listening to. |
| Thank You for providing this opportunity... |
| More hands on session are expected |
| Good Efforts |
| Excellent! |
| please conduct such session in future |
| It was well organised. |
| Very good cordination among all |
| Nil |

It's superb experience and special thanks to organising teams who are really supportive. If get chance in future wanted to attend more sessions.

All sessions were good and excellent management by team of coordinators

na

Very well organised.. good efforts by team..congratulations to all for successful conduction of FDP

PPTS of some speakers weren't visible. The Font was too small and readability was less.

Very well organized by host organization.

It is really a nice STTP, Please conduct such programs in future. Thanks to organization team.

Try to skip basics to save time

Session was so good. I really thank the coordinators and the speakers. My remark which could be considered is like at times the conversations are in Hindi and I know the language only to certain extent. Kindly make sure that the conversations are in "English" alone. Especially during the last session on "Stress Management"

The FDP was scheduled perfectly. To trace each and every moment, to follow up the speakers, being in touch with them, asking if they have any technical or timing issue is not an easy job. I appreciate you all for your efforts.

I have seen spit students, their hard work and research interests. It could be better if we could share the material with them with prior permission from the speakers.

Mementoes were designed nice.

Overall experience was good.

Excellent organization

ARRANGE FDP ON ENERGY HARVESTING FROM BODY MOTION

last session was awesome

Feedback form for Resource Person

The feedback form for resource persons / expert speakers was also exclusively designed for SPIT records. The feedback questionnaire & form is displayed below:

Feedback Form: AICTE ATAL One Week FDP on "Biomedical Engg. Systems and Technologies" 23rd -27th Nov. 2020; at S.P.I.T, Mumbai

* Required

Email address *

Your email

Full Name *

Your answer

Were all the details regarding session and the FDP conveyed to you ? *

- ☐ Yes
- ☐ No
- ☐ Partially

If 'No', what were you expecting to be communicated regarding the event ?

Your answer

Was the session duration of 90 mins comfortable to you ?

- ☐ Yes
- ☐ No
- ☐ Maybe

Were the participants interactive ? *

- ☐ Yes
- ☐ No
- ☐ Maybe

Did you face any issues/glitches while using the Google meet as video conferencing and content sharing tool ? *

- ☐ Yes
- ☐ No
- ☐ Maybe

If 'Yes', what were the issues you experienced ?

Your answer

Any other topic according to you could have been more relevant according to you ?

Your answer

Any other way of interaction/delivery or any other type of session according to you could have been more effective according to you ?

Your answer

Would you agree to conduct session/s in similar Programs organized by S.P.I.T in future ? *

- ☐ Yes
- ☐ No
- ☐ Maybe

Would you agree to conduct Hands on session/s in similar Programs organized by S.P.I.T in future ? *

- ☐ Yes
- ☐ No
- ☐ Maybe

Is "Lab Visit" (of your lab/organization/setup) possible if we plan so in future ? *

- ☐ Yes
- ☐ No
- ☐ Not Applicable

Overall, how satisfied you are with the experience of conducting session in the event organized by S.P.I.T ? *

- ☐ Very well
- ☐ Moderately
- ☐ Below average
- ☐ Poorly

Any aspect (related to this FDP) on which you were not satisfied ?

Your answer _____

Any aspect (related to this FDP) which you liked or would like to highlight as good practice ?

Your answer _____

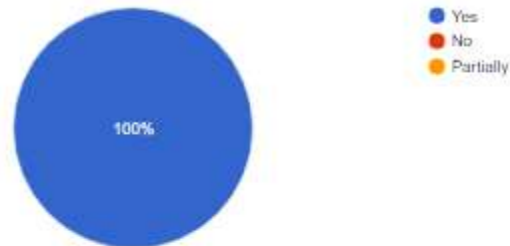
Any Specific Remark/Suggestion/Feedback you want to give.... *

Your answer _____

The responses obtained through this feedback form in the form of chart are listed below:

Were all the details regarding session and the FDP conveyed to you ?

7 responses



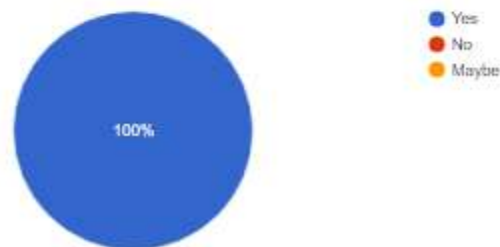
If 'No', what were you expecting to be communicated regarding the event ?

0 responses

No responses yet for this question.

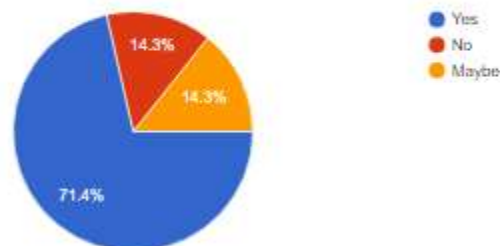
Was the session duration of 90 mins comfortable to you ?

7 responses



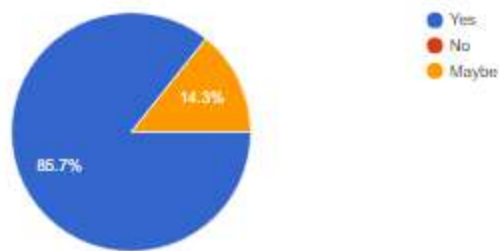
Were the participants interactive ?

7 responses



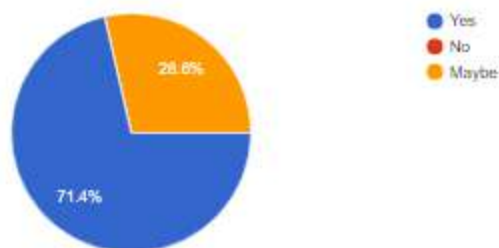
Would you agree to conduct session/s in similar Programs organized by S.P.I.T in future ?

7 responses



Would you agree to conduct Hands on session/s in similar Programs organized by S.P.I.T in future ?

7 responses



Concluding Remarks by Coordinator

The coordinator on behalf of organizing team and S.P.I.T would like to express gratitude towards ATAL Officials Dr. Ravindra Kumar Soni, Dr. Girdhari Lal Garg for approving the FDP and all the support at every stage.

Annexure I Video Recording Links of each session

| Date | Time | Speaker (Institute/Industry) | Topic/Activity | Google Drive Recording Link | YouTube Links |
|-------------------------------|------------------------|---|---|---|---|
| 23.11.2020 Monday | 10:00 am- 11:00 am | Inaugural Function : Chief Guest: Dr. Alka Sharma, Scientist G, Ministry of Science & Technology | | https://drive.google.com/file/d/1l-79CIqd9JTRZeo4VevopUMpkVt1RsCU/view?usp=sharing | https://youtu.be/wHeNC894zSc |
| | 11:30 am- 1:00 pm | Dr. Amit Sethi (IIT Bombay) | Machine Learning Applications in Biomedical | https://drive.google.com/file/d/15tTwJ6kHZlvBSNd2_zcPO463erOfBGa/view?usp=sharing | https://youtu.be/HEcYYDeIv8w |
| | 1:45 pm - 3:15 pm | Mr. Deepak Berwal (IIT Bombay) | Biomedical Signals: Opportunities and Challenges | https://drive.google.com/file/d/1xu5cO38VJvKIlyOnsk3oWOIRCHU19_aR/view?usp=sharing | https://youtu.be/ENHa_sU-Rp4 |
| | 3:30 pm - 5:00 pm | Dr. Aniruddha Joshi (Atreya Innovations Pvt. Ltd., Pune) | Data Science – driven Ayurveda | https://drive.google.com/file/d/1XH0fMwDcmBNbp8AKtGM3yDrKIS3FXfRL/view?usp=sharing | https://youtu.be/9fsLHJLIYS8 |
| 24.11.2020 Tuesday | 10:00 am- 11:30 am | Dr. Hari Varma (IIT Bombay) | Biomedical Image Reconstruction | https://drive.google.com/file/d/1Exq6Yd2FjBg2_YMtUc1nW2b5Uob61hrt/view?usp=sharing | https://youtu.be/j0VLpCFM72g |
| | 11:45 am - 12:30 pm | Dr. Lancelot Pinto (Hinduja Hospital, Mumbai) | Technology in Medicine | https://drive.google.com/file/d/1omFVNxDi8WDcBmV7XV7vI-LK-Nx8fNMk/view?usp=sharing | https://youtu.be/goaXpbygF5s |
| | 12.30 pm - 01:15 pm | Dr. Santoshi Nagaonkar (Hinduja Hospital, Mumbai) | Robotics in Surgery | | |

| | | | | | |
|---------------------------------------|--------------------|--|---|--|--|
| | 2:00 pm - 3:30 pm | Dr. Shivraj Rathod (Bharat Forge, Pune) | UWB Radio Tomography Synthesis | https://drive.google.com/file/d/1ktrfcH1qaEJoWotdrFHKRgr9V0yr4ef3/view?usp=sharing | https://youtu.be/guaoz0wSj2Q |
| 25.11.2020 Wednesday | 10:00 am- 11:30 am | Dr. Tushar Kanti Bera (NIT Durgapur) | Electrical Impedance Tomography for Bio-Medical Imaging: Looking into the Human Body with Electricity | https://drive.google.com/file/d/1J-oWnvI9EFUc8hA8w9nQrlPzKWwYJbEL/view?usp=sharing | https://youtu.be/OlamSqZD3Z8 |
| | 11:45 am- 01:15pm | Prof. Dayanand Ambawade (S.P.I.T, Mumbai) | Hands-on Session | https://drive.google.com/file/d/1Q_qDv_8LkcZ7_RmcyfepHGD1eA6A4j0/view?usp=sharing https://drive.google.com/file/d/1NAq2QJ0HqW_3lNybnHFTI9NMAQWsQuA/view?usp=sharing | https://youtu.be/PWuR8sz1pDw https://youtu.be/WwIXjzOAXNw |
| | 2:00 pm - 2:45 pm | Dr. Samyak Mulkutkar (Hinduja Hospital, Mumbai) | Imaging and A.I. in Ophthalmology | https://drive.google.com/file/d/1kls4R0GuPKzueljJVb25cUw7vvrSxxr/view?usp=sharing | https://youtu.be/hpjs_VdeZu0 |
| | 2.45 pm - 3:30 pm | Dr. Swapnil Rane (Tata Memorial Hospital, Mumbai) | A.I. in Onco-Pathology | | |
| 26.11.2020 Thursday | 10:00 am- 11:30 am | Dr. Abhijit Pednekar (Abbott Healthcare Pvt. Ltd., Mumbai) | Innovations in Healthcare | https://drive.google.com/file/d/1NN1hFGR7L7Eq8fHCWxMOPh91NpqqBjzq/view?usp=sharing | https://youtu.be/aHwZtoBE4Nc |
| | 11:45 am- 01:15pm | Dr. Tushar Kanti Bera (NIT Durgapur) | Lab Visit | https://drive.google.com/file/d/1G84Ky-ez5mjb5-6QOqjk6qJzMWE3dbZn/view?usp=sharing | https://youtu.be/gpd9ZMr3L9c |

| | | | | | |
|------------------------------|--------------------|--|---|---|---|
| | 2:00 pm - 3:30 pm | Dr. Shiladitya Mitra (Max Planck Institute of Psychiatry, Germany) | Emerging Technologies in Preclinical and Basic Neuroscience – Scope for Engineers | https://drive.google.com/file/d/1PJI_KBnGdW0ylAQcBENUVEDgp3jmyccd/view?usp=sharing | https://youtu.be/J9E3rXLWN-0 |
| 27.11.2020 Friday | 10:00 am- 11:30 am | Dr. G Veda Prakash (IIT Delhi) | Plasma Applications in Biomedical | https://drive.google.com/file/d/17abihBg2V7r8XQn0Tgk13dOVhZJq92q7/view?usp=sharing | https://youtu.be/QRtem0ZssxI |
| | 11:45 am- 01:15pm | Mr. Chandrakant Deoda (Sahajyoga Trust) | Stress Management | https://drive.google.com/file/d/1AHIjKklEPQ8dqvXl4izhAsmF6j2STOis/view?usp=sharing | https://youtu.be/i6YtmJcUixo |
| | 2:00 pm - 3:30 pm | Valedictory + Feedback + Quiz | | https://drive.google.com/file/d/1haHflqnUJH_bPvTLeOZS3-tczCVfn2fb/view?usp=sharing | https://youtu.be/Cuws3tYkGZw |

Link for youtube playlist

<https://www.youtube.com/playlist?list=PL2ZNNOWy04EBCT502laLC0wlh4mBwlclu>

An interesting compilation video of FDP sessions starting from Inauguration to valedictory has been created and made available on youtube. The youtube link is given below:

<https://youtu.be/awjNKavEiBw>

Annexure II Sanction Letter

Annexure-I



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
Website: www.aicte-india.org



AICTE Training and Learning (ATAL) Academy (Online FDP)

To,

The Director / Principal,
Sardar Patel Institute of Technology
Bhavans Campus, Old D N Nagar, Munshi Nagar,
Andheri West, Mumbai, Maharashtra 400058

Sub: Release of a sum of Rs 93,000/- for AICTE Training and Learning (ATAL) Academy programme-reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. 93,000/- (Rupees Ninety -Three Thousand Only) for conduct of online AICTE Training And Learning (ATAL) Academy Programme (Biosimilar Technology) to Sardar Patel Institute of Technology Bhavans Campus, Old D N Nagar, Munshi Nagar, Andheri West, Mumbai, Maharashtra 400058, during November 23-11-2020 TO 27-11-2020 under AICTE Training And Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The cost for conducting per programme will be Rs.93,000/- as per detail given as under:

| | | |
|----|---|--------------------|
| 1. | Honorarium for Director | Rs. 10,000/- |
| 2. | Honorarium to Co-ordinator Rs.2000/- per day x 5 days | Rs. 10,000/- |
| 3. | Honorarium for experts (Rs.3000 per session for total 14 session) | Rs. 42,000/- |
| 4. | Provision for payment to Lab Attendant engaged during lab practices | Rs. 1000/- |
| 5. | Institutional charges | Rs. 15,000/- |
| 6. | Miscellaneous charges | Rs. 15,000/- |
| | TOTAL = | Rs.93,000/- |

- The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.
- The head of account mentioned above may be interchanged with over all ceiling to Rs 93000/-

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form.

III. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.

- The certificates shall be issued to those participants who have attended the program with minimum 80% of attendance and scored minimum 60% marks in the test.

IV. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program:-
 - (i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
 - (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of AICTE Training and Learning (ATAL) Academy programme.
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be adjusted.

V. General Instructions

- a. Maximum 200 participants may be allowed to attend online FDP on a first come first serve basis however AICTE officials may be allowed to attend over and above 200 number. Coordinators are free to admit less or depending on the feasibility.
- b. You are requested to allow new participants and discourage participants who have already done one online ATAL FDP earlier. In this regard you may contact coordinators for sharing participants list. You may also ask a question to participants during registration that whether they have done any online ATAL FDP earlier. You may visit ATAL webpage for list of participants already completed the online ATAL FDP.
- c. A test has to be conducted (may be online) on the last day and those who score more than 60% will be termed as successful candidates. Those who have attendance 80% or more and also score more than 60% in the test will be issued a digital certificate.
- d. These online sessions are to be recorded as the facility is available on the software which is being used for online delivery of FDP. You are also requested to share recording of sessions with AICTE.
- e. Eligibility for Participants:
 - (i) The faculty members of the AICTE approved institutions, research scholars, PG, Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.) and staff of host institutions.
 - (ii) Not more than 30% from Host institution
- f. If programme is not conducted in the year 2020 only, the released amount, along with interest accrued thereon, has to be returned back to AICTE.
- g. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.

Page 2

- h. Any, unavoidable circumstantial change in the Program with respect to name of Project Coordinator, and date for organizing online AICTE Training and Learning (ATAL) Programme would mandatorily require prior approval of the Council. All such requests should be addressed to ATAL Academy, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.

This Sanction Order may be treated as Offer Letter for all purposes.

Yours sincerely,


(Regional Officer & Member Secretary)
WRO, Mumbai, AICTE

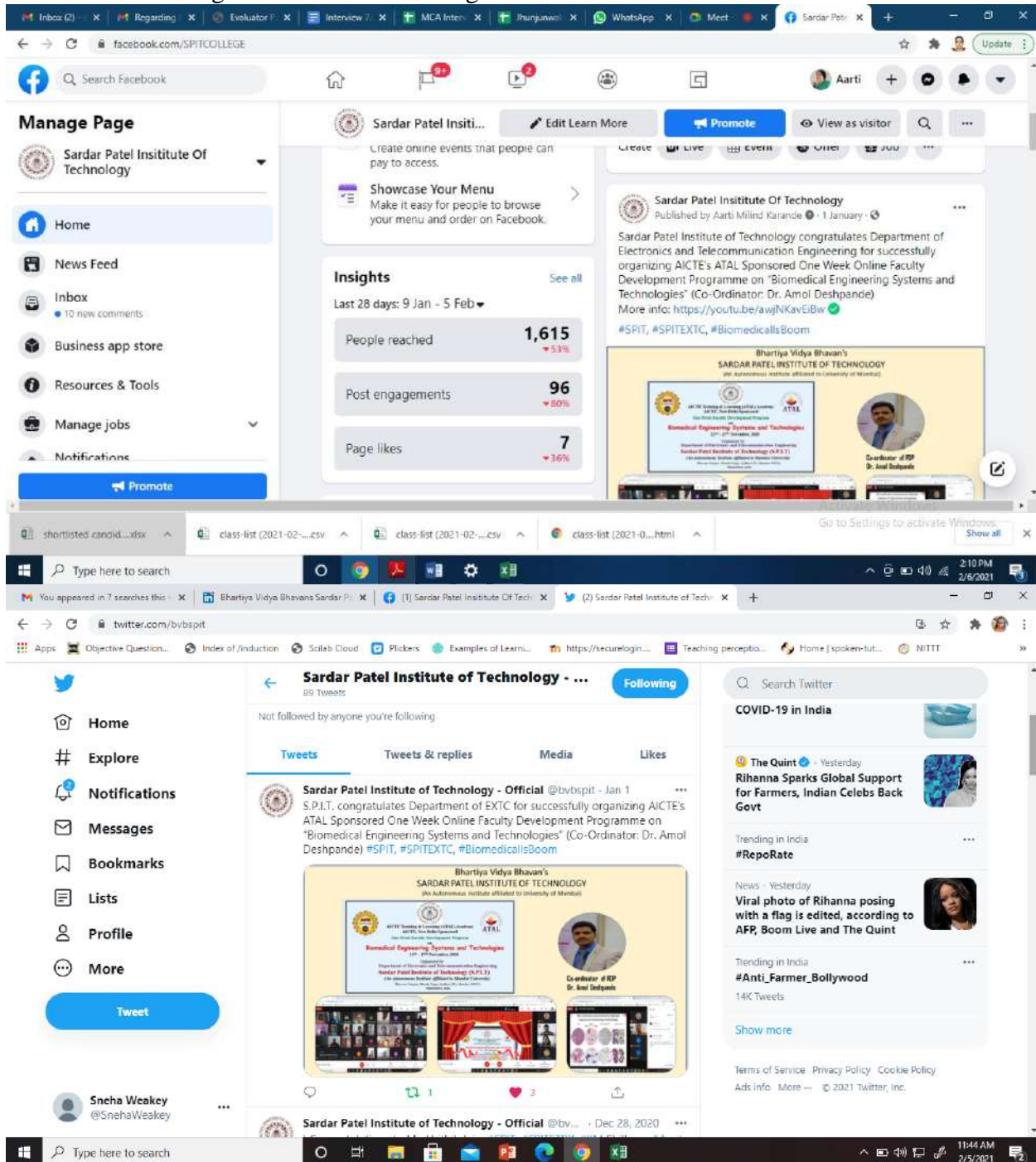
Copy forwarded for information and necessary action to:-

1. Coordinator ATAL Programme, Amol S Deshpande
2. ATAL Academy Cell AICTE HQ
3. Guard File

Annexure III Media Coverage Screenshots

Media Coverage Screenshots

The FDP event details were posted on social media like Facebook, Twitter, LinkedIn for post-event media coverage. The screenshots are given below.



You appeared in 7 searches this week

Bhartiya Vidya Bhavans Sardar Patel Institute of Technology

LinkedIn

Search

Home My Network Jobs Messaging Notifications Life Work Try Premium Free for 1 Month

Bhartiya Vidya Bhavans Sardar Patel Institute of Technology Munshi Nagar Andheri Mumbai

More Visit website

Home About **Posts** Jobs Alumni

Bhartiya Vidya Bhavans Sardar Patel Institute of Technology Mun...
4,236 followers
1mo •

Sardar Patel Institute of Technology congratulates Department of Electronics and Telecommunication Engineering for successfully organizing AICTE's ATAL Sponsored One Week Online Faculty Development Programme on "Biomedical Engineering Systems and Technologies" (Co-Ordinator: Dr. Amol Deshpande)
#SPIT, #SPITEXTC, #BiomedicalsBBoom

Bhartiya Vidya Bhavans's SARDAR PATEL INSTITUTE OF TECHNOLOGY
(An Autonomous Institute affiliated to University of Mumbai)

AICTE Training & Learning (ATAL) Funding
ATL 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 151st, 152nd, 153rd, 154th, 155th, 156th, 157th, 158th, 159th, 160th, 161st, 162nd, 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Annexure IV UC & SoE

Utilization Certificate & Statement of Expenditure

Annexure-III

AICTE Training And Learning(ATAL) Academy Programme

STATEMENT OF EXPENDITURE

AICTE File No.(As in Sanction Order/Letter) : Application Number 1584111017, Workshop id 277, Sanction order through email dated 15th October 2020.

Title of the Programme : Biosimilar Technology (Biomedical Engineering Systems and Technologies)

Name of the Coordinator : Dr. Amol S Deshpande

| <u>Sanction No. and Date</u> | <u>Grant Sanctioned (Rs)</u> | <u>Details of expenditure Incurred Itemwise</u> | <u>Amount Rs. (in each head)</u> | <u>No. of Participants</u> | <u>Duration of the Programme (with dates)</u> |
|--|------------------------------|---|---|----------------------------|--|
| Application Number 1584111017, Workshop id 277, Sanction order through email dated 15 th October 2020 | 93000 | 1. Honorarium for Director/Vice-chancellor/Head of Institution. 2. Honorarium to Coordinator Rs.2000/- per day × 5 days 3. Honorarium for experts (Rs.3000 per session for total 14session). 4. Institutional charges 5. Miscellaneous charges 6. Payment to lab attendant | 10000 10000 42000 15000 15000 1000 | 139 | 23/11/2020, 24/11/2020, 25/11/2020, 26/11/2020, and 27/11/2020 |
| | | Total | 93000 | | |
| | | Grant Received | 93000 | | |
| | | Balance to be Received | 0 | | |

(1) Dr. Amol S Deshpande
Name and Signature of Coordinator with Seal



(2) Dr. B. N. Chaudhary
Name and Signature Head of Institution
Seal Principal
Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W),
Mumbai-400 058.

(3) Signature (with Seal) of the Finance Officer
Registrar.
Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W),
Mumbai - 400 058..

Mumbai
Date: February 1, 2021
UDIN : 21111396AAAABE1303

For Gandhi & Lakhani
Chartered Accountants
F.R. No. 102969W

J. L. Lakhani
Jagdish P Lakhani
Partner
M. No. 111396



SARDAR PATEL INSTITUTE OF TECHNOLOGY, ANDHERI (WEST), MUMBAI-400058
UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR 2020-21

Name of the Scheme under which Grant was sanctioned "AICTE's
Training and Learning (ATAL) Academy Sponsored Faculty
Development Program"

AICTE File No. : Application Number 1584111017, Workshop id 277, Sanction order through email dated 15th October 2020.
Name of Co-ordinator : Dr. Amol S Deshpande
Dates of the Programme : 23rd November 2020 to 27th November 2020
Title of the ATAL Programme : Biosimilar Technology (Biomedical Engineering Systems and Technologies)

| Sl. No. | AICTE Sanction Order/Letter No. & Date under which grant was sanctioned | Amount (Rs.) | |
|---------|--|--------------|---|
| 1. | Sanction order through email dated 15 th October 2020. Application Number 1584111017, Workshop id 277 | 93,000/- | Certified that out of the grant-in-aid of Rs.93000 (Rs Ninety Three Thousand only) sanctioned by the AICTE during the financial year 2020-21 favour of SARDAR PATEL INSTITUTE OF TECHNOLOGY, MUMBAI as per letter mentioned in the margin, Rs. 0 (zero) on account of unspent balance of previous year, Rs. 0 (zero) on account of other income / receipts, a sum of Rs. 93000 (Rs Ninety Three Thousand only) has been utilized for the purpose for which it was sanctioned and the balance of Rs. 0 (Rs Zero) remained unutilized at the end of the year. |

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: -
Periodical Progress Reports.

Name, Signature & Address of the Claimant/Awardee/Coordinator with seal: Dr. Amol S Deshpande



Signature of Head of the Institute
Dr. B. N. Chaudhari
Rubber stamp:

Principal
Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W),
Mumbai-400 058.

For Gandhi & Lakhani
Chartered Accountants
F.R. No. 102969W

Jagdish P Lakhani
 Partner
 M. No. 111396



Signature (with Seal) of the Finance Officer

Mumbai
 Date: February 1, 2021
 UDIN 21111396AAAABE1303

Registrar.
Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W),
Mumbai - 400 058..