



Goa University

School of Physical and Applied Sciences

University Science and Instrumentation Centre

B.Voc in Electronics, Instrumentation and Computer Networking

Report on

“ATAL FDP on IMAGING SPECTROSCOPY AND MACHINE LEARNING”

1. Title of the Event/Activity/program	ATAL FDP on IMAGING SPECTROSCOPY AND MACHINE LEARNING
2. Date and Time	9 th to 14 th Jan 2023: 7pm-9pm (online) 16 th to 20 th Jan 2023 : 9am-5pm (offline)
3. Mode of conduct (Physical/Online)	Hybrid
4. School/ Directorate/ Section	University Science and Instrumentation Centre, SPAS, Goa University
5. Collaborating Agency/School/Directorate	AICTE TRAINING AND LEARNING (ATAL) ACADEMY
6. Detail of the Resource Person (Brief biodata)	Prof. Raghavendra Ramachandra , Professor, Department of Information Security and Communication Technology Faculty of Information Technology and Electrical Engineering, Gjøvik, Norway 2. Prof. G. M. Naik , Professor of High Academic Grade in Electronics, Former Dean of Natural Sciences, Goa University 3. Dr. Lokesh C. Tribedi , (Group Leader), Full Professor (H), Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai, India 4. Dr. Rajesh Kushawaha , Assistant Professor, Scientist, Physical Research Laboratory

	Ahmedabad 5. Prof. Vithal Tilvi, Professor, Research, Development & Innovation Goa State Higher Education Council, DHE, Goa 6. Dr. Kiran Raja, Associate Professor, Department of Computer Science, Faculty of Information Technology and Electrical Engineering, Gjøvik, Norway 7. Dr. Pankaj Wasnik, Principal Research Scientist, Sony Research India Pvt. Ltd., Bengaluru, India 8. Dr. Anil Rane, Assistant Professor, Institute of Psychiatry & Human Behaviour, Government of Goa 9. Prof. Rajendra Gad, Vice-Dean, School of Physical and Applied Sciences, Goa University 10. Dr. Narayan Vetrekar, Assistant Professor, School of Physical and Applied Sciences, Goa University
7. Number of Faculty attended/participated	22
8. Number of Student attended / participated	20
9. No. of external students/faculty/other participants	-
10. The objectives of the Program/activity/event	This Two-week Faculty Development Program (FDP) focuses on Fundamentals of Imaging Spectroscopy and machine learning. The objective is to enrich enthusiasts in the field with recent trends and research in the Imaging Spectroscopy in modern applications. Further, the major focus would be to provide conceptual and training of various machine learning algorithms such as Deep Learning, Tensor Flow, etc., along with hands-on training implementation to deliver the practical skills to the participants. Finally, FDP would be focused on using machine learning algorithms in imaging spectroscopy for different applications.
11. Description of the Program/activity/event	The Faculty Development Programme was organized from 09th to 20st January 2022 by University Science Instrumentation Centre under the School of Physical and Applied Sciences, Goa University. In these two weeks of Faculty Development Programme various related topics based on Imaging Spectroscopy and Machine learning were discussed and deliberated by renowned resource persons in these areas. The FDP was financially supported by AICTE Training and learning academy. A total of 45

	Participants registered for the programme from the electronics and computer science background. They comprised of faculties, Ph.D student and post graduate students from Goa and other states such as Kerala, Tamil Nadu, Karnataka, Andhra Pradesh, Puducherry and Delhi. The two weeks of FDP were conducted in two phases. The phase I of this programme was conducted in an on-line mode from 9th to 14th January 2023 and the lectures of these session were scheduled from 7:00pm to 9:30pm as per IST. While the phase II of this programme was conducted in in offline mode from 16th to 20th January 2023. The offline week was manly based explaining the theory and practical hand-on using Matlab and Python.
12. Benefit/Key outcomes of the Program/activity/event	Participants were able to gain the comprehensive knowledge and training in the Imaging Spectroscopy and Machine Learning, Emerging research areas in imaging spectroscopy and Machine learning algorithms. Further, participants were benefitted by key highlights of NEP 2020, Best teaching learning practices, Time and stress management and Research methodology concepts.
13. Enclosures with report	URL OF THE EVENT : https://drive.google.com/drive/folders/1Ju8bC19Lusaf5Ye5FITTrjJlJBtTcxu?usp=sharing (online) BROCHURE PHOTOS: https://drive.google.com/drive/folders/1HGV6ovMAGWfu7RWEU7S5nLAZWppmOUWq https://drive.google.com/drive/folders/1H35yhS6mbZofhqPiglqz-RFXqIOjtyfb https://drive.google.com/drive/folders/1cZ5OjFWHq94CRWeNzApreF8f3HaXMkF https://drive.google.com/drive/folders/1V-J7lMujDok0qAVXXytkqPelSoyLrhgk

Signature:



Name of coordinator: Prof. Rajendra Gad

Designation: Dean

Signature



Dean/Director/Head

Seal of the School/Directorate/University



Following are the list of participants approved for FDP.

Name

1. Dr. Koteswara Rao kodepogu
2. Mr. LOKESH GOPINATH
3. Mr. ANIL KUMAR PALLIKONDA
4. Mr. CHETLA CHANDRA MOHAN
5. Mrs. Ranjana Battur
6. Dr. ASHISH KUMAR MOURYA
7. Dr. MUTTINENI SASIDHAR
8. Mr. MUTTINENI PRAPUL
9. Dr. PUJA SHASHI
10. Dr. Sandeep Babu Gawali
11. Miss Marissa Lourdes de Ataide
12. Mrs. Shreya Sanket Prabhudesai
13. Mr. RAJESHKUMAR.M
14. Mrs. yogini prabhu
15. Mrs. Avani Anil Kharde
16. Dr. VADIVEL
17. Dr. Sabeena Beevi K
18. Mr. Mrunal Vishwanath Sawant
19. Mr. pramil kumar sinha
20. Mr. Ashok kumar
21. Mr. Chandra Mohan Mahto
22. Mr. Anil Kumar mishra
23. Mr. Alexander R
24. Mr. mayur sanjay gaonkar
25. Miss Sanjivani Deelip Palekar
26. Mrs. MUTTINENI SRIVIDYA
27. Mr. Sunny Rathee
28. Mr. Daryl Gonsalves
29. Miss Sanjana Palyekar
30. Mr. Rutik Shrirang Shanbhag
31. Mr. Rohit kumar mahato
32. Mr. Shivnath alias Hrutvik Suryakant Sangodkar
33. Mr. Kunal Kishor Vaze
34. Mr. Prajyot Sangodkar
35. Miss Ankita Ajit Nigalye
36. Mr. Narayan Shankar Gaonkar
37. Mr. Tukaram Ulhas Rane
38. Mr. Vijaykumar Anand Salunke
39. Mr. Shaileshkumar Laluram Nishad
40. Dr. Marlon Darius Sequeira
41. Mr. Vaman Govekar
42. Mr. Satyam Satyawan Asolkar
43. Mr. Shubham Otavanekar
44. Mr. Sanchai S.Mhamal
45. Miss Krishna Patel
46. Dr. Aniketh Gaonkar
47. Mr. Abhijeet Dattatray Borkar

PHOTOS:

Week 1:

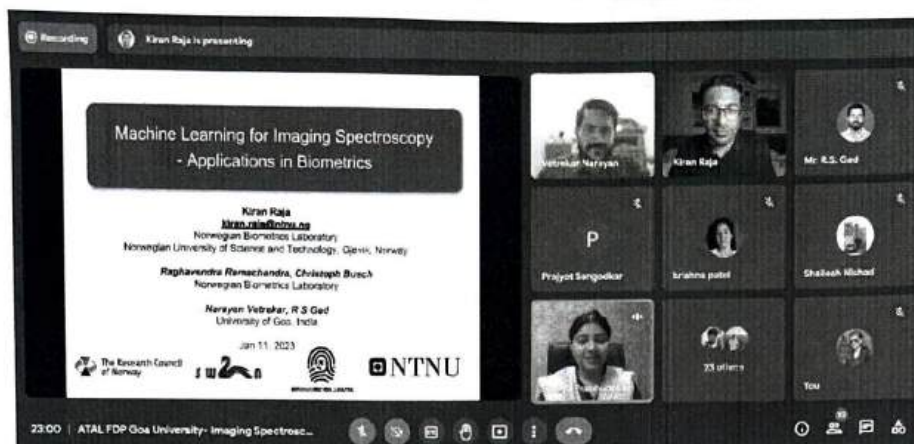
The FDP started on 09th January 2022 with the Day 1 session on Accelerator based atomic molecular sciences: Some basics and applications by Dr Lokesh C Tribedi, Tata Institute of Fundamental Research, Mumbai.



On the 2nd day of the ATAL FDP, 10th January 2022 Dr. Rajesh Kushawaha, Physical Research Laboratory, ISRO, Ahmedabad, delivered a lecture on various areas where spectroscopy is used and presented with case studies.



On the 3rd day of the online, Dr. kiran Raja, NTNU Norway; gave a talk on basics and applications of biometrics where he focused mainly on spectral face detection and challenges involved in it. He also focused on estimating gender using machine learning.



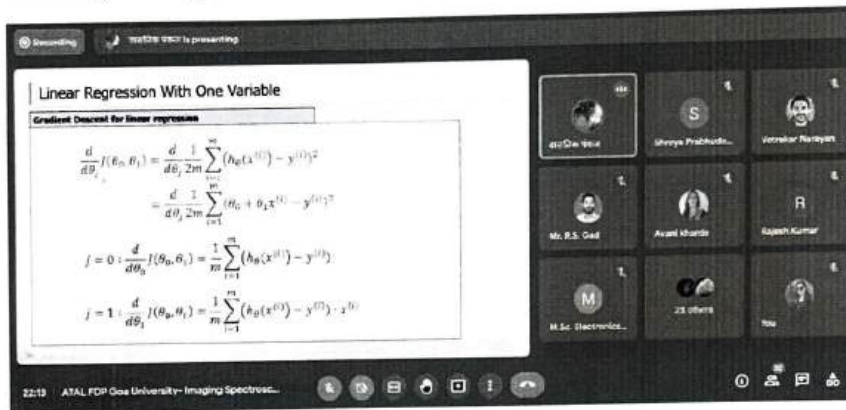
On the 4th day of the ATAL-FDP, Prof. Gaurish Naik, Former Dean of Natural Sciences, Goa University; delivered the lecture on National education policy 2020 where he spoke about importance and evolution of NEP. Prof Gaurish also guided the participants on the guidelines of programmes like dual degree programme, twinning programme and joint degree programme under NEP 2020.



On day 5 of this FDP, Prof. Raghavendra Ramachandra, NTNU, Norway; gave a comprehensive introduction to deep learning and its applications. In his session 1, he spoke about the popular cnn networks like AlexNet, Resnet etc. In session 2, he spoke about numerical and categorical features, Recurrent neural network and text data processing.



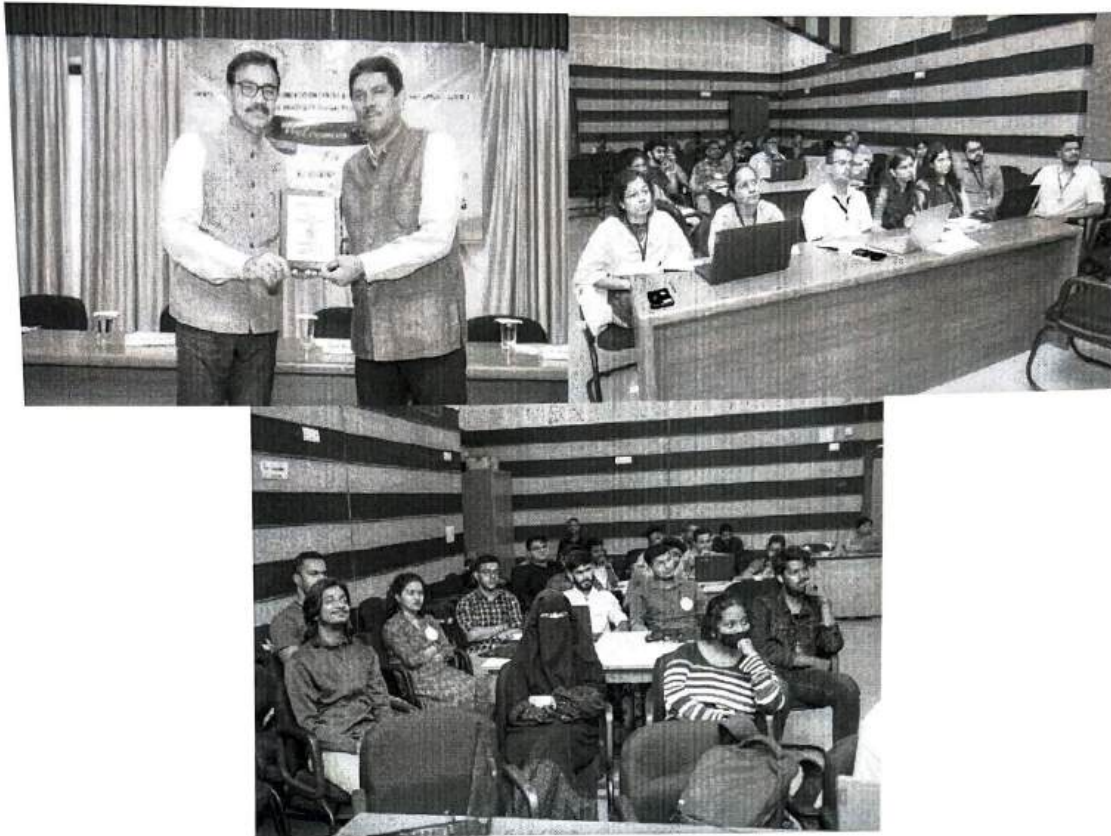
On the last day of the online session, Dr. Pankaj Wasnik, Principal research Scientist, at Sony research India pvt ltd, Bangalore spoke about bias and variance, linear regression, regularization, structured and unstructured data processing and their relation in learning the algorithm.



Week 2:

The inaugural function was conducted in offline mode in the second week of the ATAL-FDP where Prof. Gad, Vice dean SPAS, welcomed the guest and gave brief introduction about the FDP programme. There were total 14 technical sessions conducted during the two week FDP. Six session were conducted in Online mode and 8 sessions were in Offline mode.





On the first day of the offline session, two sessions were conducted and both were delivered by Dr. Pankaj Wasnik who continued his lecture with introduction to neural networks and deep learning where the topics covered included CNN basics, various padding operations, 3D convolution and image classification. In session 2 of, we had a session on introduction to tensorflow by Dr. Pankaj Wasnik followed by a hands on session with it. Both these lectures were hands-on with the Python programming.



On Day 2 of offline session, the participants were divided into five groups and they were told to present their understanding of a research article 1. Each group was given 5

minutes of duration to present the article. This session was based on the group activity, presentation and organizing skills and on the understanding level of the article, and this was evaluated by Prof. Rajendra S. Gad. Later, we gave a hands on session on MATLAB based data acquisition, data preprocessing and its various techniques for classification using classical algorithms on Goa University multispectral facial biometrics. As a part of the ATAL FDP, all the participants had an opportunity to visit the national institute of Oceanography at Dona Paula in the evening session. The functioning of the NIO and its research areas were inaugurated by Dr. Narsinh Thakur, Senior principal scientist at NIO, and Dr. Supriya Shet Tilvi, Principal scientist at NIO and their team.



Day 3 of the offline session commenced with article 2 presentation by all five groups, followed by a hands on session on different feature extraction techniques such as wavelets, HOG, LBP and two class classification problem using MATLAB by Dr.

Narayan Vetrekar. In the evening session, Dr. Kiran Raja continued his lecture on spectral face biometrics where he provided us a practical session on data normalization, multiclass classification, discriminant functions, and metrics using MATLAB



Day 4 of the offline session, Dr. Digamber Porob presented the application of artificial intelligence in lighting with many examples and a group activity where each group gave presented different ideas on usage of light and AI. Followed by this, a session 13 was addressed by Dr. Anil Rane, Institute of Psychiatry & Human Behaviour (IPHB), Govt. of Goa on stress and time management where he provided various tips to handle stress.



Day 5, the session was delivered by Prof. Raghavendra Ramachandra, Professor, Department of Information Security and Communication Technology, Norwegian University of Science and Technology (NTNU), Gjøvik, Norway. Major focus of this talk

was to demonstrate the advancement and how to address the challenges using imaging spectroscopy in different application. FDP concluded with the valedictory session.



This is the brief summary of all the sessions conducted on two week FDP on Imaging Spectroscopy and Machine Learning. Following are some social media/ print media publicity images



Goa University
Image_6487327 (1)
University Science and Instrumentation Centre (USIC), SPAS organized a Two-week national level AICTE Training and Learning (ATAL) Academy Faculty Development Programme on "Imaging Spectroscopy and Machine Learning" from 09-20 Jan 2023



D D KOSAMBI SCHOOL OF SOCIAL SCIENCES AND BEHAVIOURAL STUDIES (DOKSSBS)



Like by samruddhi_sg and 204 others
goauniversityofficial AICTE Training & Learning ATAL Academy: sponsored two-week national level Faculty Development Programme. Inauguration by BITS Pilani, Goa Campus Director Prof. Suman Kandi. The first session was conducted by Dr. Pankaj Wadark, Principal Research Scientist, Sony Research India Pvt Ltd.
20 January

PATRON

Prof. Harilal B. Menon

Honourable Vice-Chancellor, Goa University

ORGANISING COMMITTEE

Prof. Kaustubh Priolkar- Convener

Dr. Jivan Parab- Member

Mrs. Shreya Prabhudesai- Member

Dr. Sandeep Gawali- Member

Dr. Aniketh Gaonkar- Member

Dr. Marlon Darius Sequeira- Member

COORDINATOR

Prof. Rajendra Gad

Vice-Dean, School of Physical and Applied Science
Goa University

CO-COORDINATOR

Dr. Narayan Vetrekar

Asst. Professor, School of Physical and
Applied Sciences, Goa University

INDUSTRY PARTNER



D-Link
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About the University

Goa University was established under the Goa University Act of 1984 (Act No. 7 of 1984) and commenced operations on 1 June 1985. The University took over the enhanced role of Centre of Post-Graduate Instruction and Research (CPIR) which was set after the liberation of Goa by India in December 1961, by the University of Bombay (now Mumbai), in June 1962. Since 1985 Goa University offers graduate and post-graduate studies and research programmes. It is currently (2014-19) accredited to the National Assessment and Accreditation Council (NAAC) in India with A Grade. The National Institutional Ranking Framework (NIRF) has currently (2021) ranked the University at 96 among the Indian Universities. Among the QS World University Rankings for 'BRICS countries 2019', Goa University is among the group of 241-250 universities. QS University rankings has ranked Goa University in the range of 61-65 among Indian Universities for the year 2022 and among the QS World University Rankings for 'QS Asia University Rankings 2022', Goa University is among the group of 501-550 universities.

About the Department

University Science Instrumentation Centre (USIC) is a central instrumentation facility of the university consisting of Electronics, Mechanical and Glass Blowing workshops managed by faculties, officers and trained technicians. The work undertaken by USIC can be broadly classified as Analytical services for sophisticated instruments, Maintenance of equipment of Language and Science Laboratory, Fabrication of teaching aids, Development of new instruments, thus covering entire objective of USIC.



**AICTE Training and
Learning (ATAL) Academy ATAL**

**Faculty development Programme
(FDP)**

On

**IMAGING SPECTROSCOPY
AND MACHINE LEARNING**

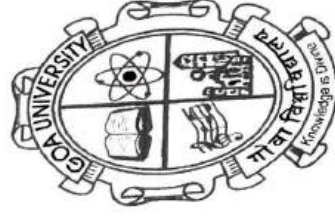
From

9th to 20th January 2023

Organised by

**University Science and Instrumentation
Centre**

School of Physical and Applied Science



Goa University

Taleigao Plateau, Goa, India, 403206

FDP TIMETABLE (OFFLINE)

Time	Day 1 (16/01/2023)	Day 2 (17/01/2023)	Day 3 (18/01/2023)	Day 4 (19/01/2023)	Day 5 (20/01/2023)	
09:00- 09:30am	Breakfast					
09:30-10:00am	Inauguration	Research Methodology	Article 1 & 2 Discussion	National Education Policy (NEP) 2020	Demonstrating the Case Study	
10:00-10:30am						Tea Break
10:30-11:00am	Deep Learning	Teaching Practice	Machine Learning for Imaging Spectroscopy- I	MCQ	Visit Report (Team)	
11:00-11:30am						
11:30-12:00 noon		Lunch				
12:00-12:30pm						
12:30-01:00pm	Lunch		Lunch			
01:00-1:30pm						
01:30-02:00pm						
02:00-02:30pm	Tensor Flow		Machine Learning for Imaging Spectroscopy- I	Time and stress management	Reflection Journal	
02:30-03:00pm						Machine Learning for Imaging Spectroscopy- II
03:00-04:00pm						
04:00-04:30pm						
04:30-05:00pm						
5:00-5:30pm	Lunch					

About the FDP

This Two-week Faculty Development Program (FDP) focuses on Fundamentals of Imaging Spectroscopy and machine learning. The objective is to enrich enthusiasts in the field with recent trends and research in the Imaging Spectroscopy in modern applications. Further, the major focus would be to provide conceptual and training of various machine learning algorithms such as Deep Learning, Tensor Flow, etc., along with hands-on training implementation to deliver the practical skills to the participants. Finally, FDP would be focused on using machine learning algorithms in imaging spectroscopy for different applications.

Guidelines for participation

1. The FDP is open for faculty members of the AICTE approved institutions, Research Scholars, PG Scholars, participants from Govt., Industry and staff of host Institution.
2. Follow the guidelines declared in the FDP to submit your daily attendance.
3. An assessment test will be conducted on the last day of the programme for all the participants.
4. Certificate shall be issued to the participants who are registered on ATAL Portal and having 80% attendance and more than overall 70% marks in assessment test.

Contact Details

Mrs. Shreya Prabhudesai : 9763385618

Dr. Narayan Vetrekar : 9423211264

Important Information

- **Week 1:** 9th – 14th January 2023
- **Time:** 7 PM to 9:30 PM (Monday – Saturday)
- **Week 2:** 16th – 20th January 2023
- **Time:** 09:30 AM to 04:00 PM (Monday – Friday)
- **Target Audience:** Assistant Professors/Associate Professors/Ph.D. scholars/PG students
- **Capacity:** Min/Max Limit- 30/60 participants from the HEIs from the same city/within 100 km of host institute.
- **Mode of Conduction:** Blended/Hybrid
- **Learning Platform:** Zoom/ Google Meet
- **Venue:** Goa University, Taleigao Plateau, Goa
- **Coordinator:** Prof. Rajendra Gad, Vice-Dean, SPAS, Goa University
- **Co-Coordinator:** Dr. Narayan Vetrekar, Asst. Professor, SPAS, Goa University
- **Registration fees:** Free (First come-first-serve-bases)
- **Participants can register for the FDP in the AICTE ATAL portal:** <https://www.aicte-india.org/atal>
- **Last date of Registration:** 31st December 2022
- **Confirmation of Registration:** 2nd January 2023

Highlights

- Insight on recent trends in Imaging Spectroscopy and Machine Learning
- Industrial visits.
- Visit to nearby Institute of National Importance.
- Focus on Emerging research areas in Imaging Spectroscopy and Machine Learning
- Hands on sessions in demonstrating the cases study in the thematic area.
- Analysis & reflection of quality research journal articles in the proposed field.
- Session on National Education Policy (NEP) 2020 Implementation.
- Session on Indian values & ethos, Classroom conduct & behaviour (teaching learning psychology)
- Sessions on Life Skills such as time and stress management
- Sessions on Research Methodology for upcoming researchers

Resource Persons:

1. **Prof. Raghavendra Ramachandra**, Professor, Department of Information Security and Communication Technology Faculty of Information Technology and Electrical Engineering, Gjøvik, Norway
2. **Prof. G. M. Naik**, Professor of High Academic Grade in Electronics, Former Dean of Natural Sciences, Goa University
3. **Dr. Lokesh C. Tribedi**, (Group Leader), Full Professor (H), Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai, India
4. **Dr. Rajesh Kushawaha**, Assistant Professor, Scientist, Physical Research Laboratory Ahmedabad
5. **Prof. Vithal Tilvi**, Professor, Research, Development & Innovation Goa State Higher Education Council, DHE, Goa
6. **Dr. Kiran Raja**, Associate Professor, Department of Computer Science, Faculty of Information Technology and Electrical Engineering, Gjøvik, Norway
7. **Dr. Pankaj Wasnik**, Principal Research Scientist, Sony Research India Pvt. Ltd., Bengaluru, India
8. **Dr. Anil Rane**, Assistant Professor, Institute of Psychiatry & Human Behaviour, Government of Goa
9. **Prof. Rajendra Gad**, Vice- Dean, School of Physical and Applied Sciences, Goa University
10. **Dr. Narayan Vetrekar**, Assistant Professor, School of Physical and Applied Sciences, Goa University

FDP TIMETABLE (ONLINE)

Time	Day 1 (9/01/2023)	Day 2 (10/01/2023)	Day 3 (11/01/2023)	Day 4 (12/01/2023)	Day 5 (13/01/2023)	Day 6 (14/01/2023)
07:00- 07:50pm	Imaging Spectroscopy-I	Imaging Spectroscopy-II	Hyperspectral & Multispectral Imaging	Application of Imaging Spectroscopy	Machine Learning I	Machine Learning II
07:50- 08:00pm	Break					
08:00- 08:50pm	Imaging Spectroscopy-I	Imaging Spectroscopy-II	Hyperspectral & Multispectral Imaging	Application of Imaging Spectroscopy	Machine Learning I	Machine Learning II
08:50- 09:00pm	Break					
09:00-09:30pm	Interaction	Interaction	Interaction	Interaction	Interaction	Interaction

Course Outcome

Participants will be able to gain the comprehensive knowledge and training in the Imaging Spectroscopy and Machine Learning, Emerging research areas in imaging spectroscopy and Machine learning algorithms. Further, participants understand key highlights of NEP 2020, Best teaching learning practices, Time and stress management and Research methodology concepts.

How to Apply?

Registration:Link: - <https://www.aicte-india.org/atal>

- After clicking on this link, please login yourself with your username and password.
- After successful login, Please click on Workshops
- After clicking on Workshop link, On the dashboard:
 - Select state as Goa
 - Select Month as January
 - Select Thrust area as Engineering
- After doing this you can apply for the Faculty Development Programme on "Imaging Spectroscopy And Machine Learning" Organised by University Science and Instrumentation Centre, School of Physical and Applied Science- Goa University"
- Just click on + button to apply for workshops.
- FDP Application Number: 1650625059

Accommodation

With limited rooms available, accommodation shall be provided to outstation participants on first-come-first-serve basis.

We are very much delighted to conduct this Two-week FDP and expect your co-operation throughout the programme.

ATTENDANCE 16/01/2023

Sr.No	Name	Contact Number	Sign (Session 1)	Sign (Session 2)
1	Dr. Koteswara Rao kodepogu	8341379396		
2	Mr. LOKESH GOPINATH	9042240010		
3	Mr. ANIL KUMAR PALLIKONDA	9985084300		
4	Mr. CHETLA CHANDRA MOHAN	9963754234		
5	Mrs. Ranjana Battur	9886535592		
6	Dr. ASHISH KUMAR MOURYA	9997072797		
7	Dr. MUTTINENI SASIDHAR	9440229597		
8	Mr. MUTTINENI PRAPUL	8639838850		
9	Dr. PUJA SHASHI	8197315047		
10	Dr. Sandeep Babu Gawali	9423425981		
11	Miss Marissa Lourdes de Ataide	9881663441		
12	Mrs. Shreya Sanket Prabhudesai	9763385618		
13	Mr. RAJESHKUMAR.M	9597664802		
14	Mrs. yogini prabhu	9637559368		
15	Mrs. Avani Anil Kharde	8805417029		
16	Dr. VADIVEL	9092675093		
17	Dr. Sabeena Beevi K	9995412107		
18	Mr. Mrunal Vishwanath Sawant	9823279750		
19	Mr. pramil kumar sinha	9980301932		
20	Mr. Ashok kumar	6376094055		
21	Mr. Chandra Mohan Mahto	9709480056		
22	Mr. Anil Kumar mishra	7406032809		
23	Mr. Alexander R	9500024638		
24	Mr. mayur sanjay gaonkar	9765837837		
25	Miss Sanjivani Deelip Palekar	7066936921		
26	Mrs. MUTTINENI SRIVIDYA	8333825673		
27	Mr. Sunny Rathee	7678684159		
28	Mr. Daryl Gonsalves	8308430704		
29	Miss Sanjana Palyekar	7020423815		
30	Mr. Rutik Shrirang Shanbhag	8208072219		
31	Mr. Rohit kumar mahato	9764145856		
32	Mr. Shivrath alias Hruthvik Suryakant Sa	8788570129		
33	Mr. Kunal Kishor Vaze	8007652454		
34	Mr. Prajyot Sangodkar	8007793318		
35	Miss Ankita Ajit Nigalye	9309406619		
36	Mr. Narayan Shankar Gaonkar	9423050813		
37	Mr. Tukaram Ulhas Rane	9158724257		
38	Mr. Vijaykumar Anand Salunke	8788017631		
39	Mr. Shaileshkumar Laluram Nishad	7083609866		
40	Dr. Marlon Darius Sequeira	9823887840		
41	Mr. Vaman Govekar	8788171724		
42	Mr. Satyam Satyawan Asolkar	9689845481		
43	Mr. Shubham Otavanekar	7972306807		
44	Mr. Sanchai S.Mhamal	7038103480		
45	Miss Krishna Patel	7609014478		
46	Dr. Aniketh Gaonkar	9637889619		
47	Mr. Abhijeet Dattatray Borkar	9764124852		

16/01/2023.

Name.

sign (session 1).

(session 2)

1] Ganita N. Nagarkar

Nagarkar

2] Delinka Rosa

Rosa

3] Tejas Gaonkar

Gaonkar

4] ATUL Gaonkar

Gaonkar

5] Nisha Matoske

Matoske

6] Shara Aga

Aga

7] Viola Fernandes

Fernandes

8] Xavier Coelho

Coelho

Shara

ATTENDANCE

17/01/2023

Sr.No	Name	Contact Number	Sign (Session 1)	Sign (Session 2)
1	Dr. Koteswara Rao kodepogu	8341379396		
2	Mr. LOKESH GOPINATH	9042240010		
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5	Mrs. Ranjana Battur	9886535592		
6	Dr. ASHISH KUMAR MOURYA	9997072797		
7	Dr. MUTTINENI SASIDHAR	9440229597	<i>A. Sasidhar</i>	<i>A. Sasidhar</i>
8	Mr. MUTTINENI PRAPUL	8639838850	<i>M. Prapuli</i>	<i>M. Prapuli</i>
9	Dr. PUJA SHASHI	8197315047		
10	Dr. Sandeep Babu Gawali	9423425981	<i>S. Gawali</i>	<i>S. Gawali</i>
11	Miss Marissa Lourdes de Ataide	9881663441	<i>M. Marissa</i>	<i>M. Marissa</i>
12	Mrs. Shreya Sanket Prabhudesai	9763385618		
13	Mr. RAJESHKUMAR.M	9597664802	<i>R. Rajesh</i>	<i>R. Rajesh</i>
14	Mrs. yogini prabhu	9637559388		
15	Mrs. Avani Anil Kharde	8805417029	<i>A. Kharde</i>	<i>A. Kharde</i>
16	Dr. VADIVEL	9092675093	<i>V. Vadivel</i>	<i>V. Vadivel</i>
17	Dr. Sabeena Beevi K	9995412107		
18	Mr. Mrunal Vishwanath Sawant	9823279750		
19	Mr. pramil kumar sinha	9980301932		
20	Mr. Ashok kumar	6376094055	<i>Ashok</i>	<i>Ashok</i>
21	Mr. Chandra Mohan Mahto	9709480056		
22	Mr. Anil Kumar mishra	7406032809	<i>A. Mishra</i>	<i>A. Mishra</i>
23	Mr. Alexander R	9500024638		
24	Mr. mayur sanjay gaonkar	9765837837		
25	Miss Sanjivani Deelip Palekar	7066936921	<i>S. Palekar</i>	<i>S. Palekar</i>
26	Mrs. MUTTINENI SRIVIDYA	8333825673	<i>M. Sridhara</i>	<i>M. Sridhara</i>
27	Mr. Sunny Rathee	7678684159		
28	Mr. Daryl Gonsalves	8308430704		
29	Miss Sanjana Palyekar	7020423815		
30	Mr. Rutik Shrirang Shanbhag	8208072219	<i>R. Shanbhag</i>	<i>R. Shanbhag</i>
31	Mr. Rohit kumar mahato	9764145856	<i>R. Mahato</i>	<i>R. Mahato</i>
32	Mr. Shivnath alias Hrutvik Suryakant Sa	8788570129	<i>S. Suryakant</i>	<i>S. Suryakant</i>
33	Mr. Kunal Kishor Vaze	8007652454	<i>K. Vaze</i>	<i>K. Vaze</i>
34	Mr. Prajyot Sangodkar	8007793318	<i>P. Sangodkar</i>	<i>P. Sangodkar</i>
35	Miss Ankita Ajit Nigalye	9309406619	<i>A. Nigalye</i>	<i>A. Nigalye</i>
36	Mr. Narayan Shankar Gaonkar	9423050813	<i>N. Gaonkar</i>	<i>N. Gaonkar</i>
37	Mr. Tukaram Ulhas Rane	9158724257	<i>T. Rane</i>	<i>T. Rane</i>
38	Mr. Vijaykumar Anand Salunke	8788017631	<i>V. Salunke</i>	<i>V. Salunke</i>
39	Mr. Shaileshkumar Laluram Nishad	7083609866	<i>S. Nishad</i>	<i>S. Nishad</i>
40	Dr. Marlon Darius Sequeira	9823887840	<i>M. Sequeira</i>	<i>M. Sequeira</i>
41	Mr. Vaman Govekar	8788171724	<i>V. Govekar</i>	<i>V. Govekar</i>
42	Mr. Satyam Satyawan Asolkar	9689845481	<i>S. Asolkar</i>	<i>S. Asolkar</i>
43	Mr. Shubham Otavaneekar	7972306807	<i>S. Otavaneekar</i>	<i>S. Otavaneekar</i>
44	Mr. Sanchai S.Mhamal	7038103480		
45	Miss Krishna Patel	7609014478	<i>K. Patel</i>	<i>K. Patel</i>
46	Dr. Aniketh Gaonkar	9637889619	<i>A. Gaonkar</i>	<i>A. Gaonkar</i>
47	Mr. Abhijeet Dattatray Borkar	9764124852	<i>A. Borkar</i>	<i>A. Borkar</i>

MSc. Part-I (Students).

Session 1

- 1] Sanita N. Nageshker
- 2] Delinka Rosa
- 3] Atul Gaonkar.
- 4] Tejas Gaonkar
- 5] Shavira Aga
- 6] Muskan Khan
- 7] Shahana Sayed

Nageshker

Nageshker

Rosa

Rosa

Gaonkar

Gaonkar

Gaonkar

Gaonkar

Shavira

Shavira

Khan

Khan

Sayed

Sayed

18/01/2023

ATTENDANCE

Sr.No	Name	Contact Number	Sign (Session 1)	Sign (Session 2)
1	Dr. Koteswara Rao kodepogu	8341379396		
2	Mr. LOKESH GOPINATH	9042240010		
3	Mr. ANIL KUMAR PALLIKONDA	9985084300		
4	Mr. CHETLA CHANDRA MOHAN	9963754234		
5	Mrs. Ranjana Battur	9886535592		
6	Dr. ASHISH KUMAR MOURYA	9997072797		
7	Dr. MUTTINENI SASIDHAR	9440229597		
8	Mr. MUTTINENI PRAPUL	8639838850		
9	Dr. PUJA SHASHI	8197315047		
10	Dr. Sandeep Babu Gawali	9423425981		
11	Miss Marissa Lourdes de Ataide	9881663441		
12	Mrs. Shreya Sanket Prabhudesai	9763385618		
13	Mr. RAJESHKUMAR.M	9597664802		
14	Mrs. yogini prabhu	9637559368		
15	Mrs. Avani Anil Kharde	8805417029		
16	Dr. VADIVEL	9092675093		
17	Dr. Sabeena Beevi K	9995412107		
18	Mr. Mrunal Vishwanath Sawant	9823279750		
19	Mr. pramil kumar sinha	9980301932		
20	Mr. Ashok kumar	6376094055		
21	Mr. Chandra Mohan Mahto	9709480056		
22	Mr. Anil Kumar mishra	7406032809		
23	Mr. Alexander R	9500024638		
24	Mr. mayur sanjay gaonkar	9765837837		
25	Miss Sanjivani Deelip Palekar	7066936921		
26	Mrs. MUTTINENI SRIVIDYA	8333825673		
27	Mr. Sunny Rathee	7678684159		
28	Mr. Daryl Gonsalves	8308430704		
29	Miss Sanjana Palyekar	7020423815		
30	Mr. Rutik Shrirang Shanbhag	8208072219		
31	Mr. Rohit kumar mahato	9764145856		
32	Mr. Shivnath alias Hrutvik Suryakant Sa	8788570129		
33	Mr. Kunal Kishor Vaze	8007652454		
34	Mr. Prajyot Sangodkar	8007793318		
35	Miss Ankita Ajit Nigalye	9309406619		
36	Mr. Narayan Shankar Gaonkar	9423050813		
37	Mr. Tukaram Uthas Rane	9158724257		
38	Mr. Vijaykumar Anand Salunke	8788017631		
39	Mr. Shaileshkumar Laluram Nishad	7083609866		
40	Dr. Marlon Darius Sequeira	9823887840		
41	Mr. Vaman Govekar	8788171724		
42	Mr. Satyam Satyawan Asolkar	9689845481		
43	Mr. Shubham Otavanekar	7972306807		
44	Mr. Sanchai S.Mhamal	7038103480		
45	Miss Krishna Patel	7609014478		
46	Dr. Aniketh Gaonkar	9637889619		
47	Mr. Abhijeet Dattatray Borkar	9764124852		

48. Shara Aga
49. Viola Fernandes
50. Naini Matankar
51. Gautish Naik

~~Shara~~
Fernandes

~~Naini~~
Naik

~~Naini~~
Naik

19/01/2023.

ATTENDANCE

Sr.No	Name	Contact Number	Sign (Session 1)	Sign (Session 2)
1	Dr. Koteswara Rao kodepogu	8341379396		
2	Mr. LOKESH GOPINATH	9042240010		
3	Mr. ANIL KUMAR PALLIKONDA	9985084300		
4	Mr. CHETLA CHANDRA MOHAN	9963754234		
5	Mrs. Ranjana Battur	9886535592		
6	Dr. ASHISH KUMAR MOURYA	9997072797		
7	Dr. MUTTINENI SASIDHAR	9440229597	<i>N. S.</i>	
8	Mr. MUTTINENI PRAPUL	8639838850	<i>M. Prapul</i>	
9	Dr. PUJA SHASHI	8197315047	<i>P. Shashi</i>	<i>P. Shashi</i>
10	Dr. Sandeep Babu Gawali	9423425981	<i>S. Gawali</i>	<i>S. Gawali</i>
11	Miss Marissa Lourdes de Ataide	9881663441	<i>M. Lourdes</i>	<i>M. Lourdes</i>
12	Mrs. Shreya Sanket Prabhudesai	9763385618		
13	Mr. RAJESHKUMAR.M	9597664802	<i>N. P. R.</i>	<i>N. P. R.</i>
14	Mrs. yogini prabhu	9637559368		
15	Mrs. Avani Anil Kharde	8805417029	<i>A. Kharde</i>	<i>A. Kharde</i>
16	Dr. VADIVEL	9092675093	<i>V. Vadivel</i>	<i>V. Vadivel</i>
17	Dr. Sabeena Beevi K	9995412107		
18	Mr. Mrunal Vishwanath Sawant	9823279750		
19	Mr. pramil kumar sinha	9980301932		
20	Mr. Ashok kumar	6376094055	<i>Ashok</i>	<i>Ashok</i>
21	Mr. Chandra Mohan Mahto	9709480056		
22	Mr. Anil Kumar mishra	7406032809	<i>A. K. Mishra</i>	<i>A. K. Mishra</i>
23	Mr. Alexander R	9500024638		
24	Mr. mayur sanjay gaonkar	9765837837		
25	Miss Sanjivani Deelip Palekar	7066936921	<i>S. Palekar</i>	<i>S. Palekar</i>
26	Mrs. MUTTINENI SRIVIDYA	8333825673	<i>M. S. R.</i>	
27	Mr. Sunny Rathee	7678684159	<i>S. Rathee</i>	
28	Mr. Daryl Gonsalves	8308430704	<i>D. Gonsalves</i>	
29	Miss Sanjana Palyekar	7020423815	<i>S. Palyekar</i>	
30	Mr. Rutik Shrirang Shanbhag	8208072219	<i>R. Shanbhag</i>	<i>R. Shanbhag</i>
31	Mr. Rohit kumar mahato	9764145856	<i>R. Mahato</i>	<i>R. Mahato</i>
32	Mr. Shivnath alias Hrutvik Suryakant Sa	8788570129	<i>S. Suryakant</i>	<i>S. Suryakant</i>
33	Mr. Kunal Kishor Vaze	8007652454	<i>K. Vaze</i>	<i>K. Vaze</i>
34	Mr. Prajyot Sangodkar	8007793318	<i>P. Sangodkar</i>	<i>P. Sangodkar</i>
35	Miss Ankita Ajit Nigalye	9309406619	<i>A. Nigalye</i>	<i>A. Nigalye</i>
36	Mr. Narayan Shankar Gaonkar	9423050813	<i>N. Gaonkar</i>	<i>N. Gaonkar</i>
37	Mr. Tukaram Ulhas Rane	9158724257	<i>T. Rane</i>	<i>T. Rane</i>
38	Mr. Vijaykumar Anand Salunke	8788017631	<i>V. Salunke</i>	<i>V. Salunke</i>
39	Mr. Shaileshkumar Laluram Nishad	7083609866	<i>S. Nishad</i>	<i>S. Nishad</i>
40	Dr. Marlon Darius Sequeira	9823887840	<i>M. Sequeira</i>	<i>M. Sequeira</i>
41	Mr. Vaman Govekar	8788171724	<i>V. Govekar</i>	<i>V. Govekar</i>
42	Mr. Satyam Satyawan Asolkar	9689845481	<i>S. Asolkar</i>	<i>S. Asolkar</i>
43	Mr. Shubham Otavaneekar	7972306807	<i>S. Otavaneekar</i>	<i>S. Otavaneekar</i>
44	Mr. Sanchai S.Mhamal	7038103480	<i>S. Mhamal</i>	<i>S. Mhamal</i>
45	Miss Krishna Patel	7609014478	<i>K. Patel</i>	<i>K. Patel</i>
46	Dr. Aniketh Gaonkar	9637889619	<i>A. Gaonkar</i>	<i>A. Gaonkar</i>
47	Mr. Abhijeet Dattatray Borkar	9764124852	<i>A. Borkar</i>	<i>A. Borkar</i>

Name.

Session 1

Session 2.

- | | | |
|------------------------------------|------------------|---------------------|
| 1] Saneta N. Nageshker | <u>Nageshker</u> | <u>Nageshker</u> |
| 2] Atul Gaonkar | <u>Gaonkar</u> | <u>Gaonkar</u> |
| 3] Shama Aga | <u>Aga</u> | <u>Aga</u> |
| 4] Muskan Khan | <u>Khan</u> | <u>Khan</u> |
| 5] Viola Fernandes | <u>Fernandes</u> | <u>Fernandes</u> |
| 6] Navin Matosker | <u>Matosker</u> | <u>Matosker</u> |
| 7] Laximan D. Mantre | <u>Mantre</u> | <u>Mantre</u> |
| 8] Priti Laxmanvelip Talpikar | --- | <u>Talpikar</u> |
| 9] Prajita Pagi | --- | <u>Pagi</u> |
| 10] Neha Pagi | --- | <u>Pagi</u> |
| 11] Ashalata Navalkar | --- | <u>Navalkar</u> |
| 12] Akanksha Bichalkar | --- | <u>Bichalkar</u> |
| 13] Mayola Fernandes | --- | <u>Fernandes</u> |
| 14] Sabhinataj Angadi | --- | <u>Angadi</u> |
| 15] Natasha Dinesh Toraskar | <u>Toraskar</u> | <u>Toraskar</u> |
| 16] Palash Dattaprasad Atinai Agre | --- | <u>Agre</u> |
| 17] Venisha Costa | --- | <u>Costa</u> |
| 18] Shreya Nagresh Shirwadkar | --- | <u>Shirwadkar</u> |
| 19] Daniksha Danodan Pednekar | --- | <u>Pednekar</u> |
| 20] Shifali Salgaonkar | --- | <u>Salgaonkar</u> |
| 21] Shradha V. N. Gaonkar | --- | <u>Gaonkar</u> |
| 22] Prasad K. Gaonkar | --- | <u>Gaonkar</u> |
| 23] Vaibhav Vinod Majalikar | --- | <u>Majalikar</u> |
| 24] Sharad Chavhan | --- | <u>Chavhan</u> |
| 25] Mahima Kawlekar | --- | <u>Kawlekar</u> |
| 26] NEEL DICKOLKAR | --- | <u>Dickolkar</u> |
| 27] Sami Kheudeparkar | --- | <u>Kheudeparkar</u> |
| 28] Veibhavi Bhandarkar | --- | <u>Bhandarkar</u> |

20/01/2023

ATTENDANCE

Sr.No	Name	Contact Number	Sign (Session 1)	Sign (Session 2)
1	Dr. Koteswara Rao kodepogu	8341379396		
2	Mr. LOKESH GOPINATH	9042240010		
3	Mr. ANIL KUMAR PALLIKONDA	9985084300		
4	Mr. CHETLA CHANDRA MOHAN	9963754234		
5	Mrs. Ranjana Battur	9886535592		
6	Dr. ASHISH KUMAR MOURYA	9997072797		
7	Dr. MUTTINENI SASIDHAR	9440229597	9.1.23	9.1.23
8	Mr. MUTTINENI PRAPUL	8639838850	M. Prapul	M. Prapul
9	Dr. PUJA SHASHI	8197315047	P. Shashi	P. Shashi
10	Dr. Sandeep Babu Gawali	9423425981	S. Babu	S. Babu
11	Miss Marissa Lourdes de Ataide	9881663441	M. Marissa	M. Marissa
12	Mrs. Shreya Sanket Prabhudesai	9763385618	S. Shreya	S. Shreya
13	Mr. RAJESHKUMAR.M	9597664802	R. Rajesh	R. Rajesh
14	Mrs. yogini prabhu	9637559368	Y. Prabhu	Y. Prabhu
15	Mrs. Avani Anil Kharde	8805417029	A. Kharde	A. Kharde
16	Dr. VADIVEL	9092675093	V. Vadivel	V. Vadivel
17	Dr. Sabeena Beevi K	9995412107	S. Beevi	S. Beevi
18	Mr. Mrunal Vishwanath Sawant	9823279750	M. Sawant	M. Sawant
19	Mr. pramil kumar sinha	9980301932	P. Sinha	P. Sinha
20	Mr. Ashok kumar	6376094055	A. Ashok	A. Ashok
21	Mr. Chandra Mohan Mahto	9709480056	C. Mahto	C. Mahto
22	Mr. Anil Kumar mishra	7406032809	A. Mishra	A. Mishra
23	Mr. Alexander R	9500024638	A. Alexander	A. Alexander
24	Mr. mayur sanjay gaonkar	9765837837	M. Gaonkar	M. Gaonkar
25	Miss Sanjivani Deelip Palekar	7066936921	S. Palekar	S. Palekar
26	Mrs. MUTTINENI SRIVIDYA	8333825673	M. Srividya	M. Srividya
27	Mr. Sunny Rathee	7678684159	S. Rathee	S. Rathee
28	Mr. Daryl Gonsalves	8308430704	D. Gonsalves	D. Gonsalves
29	Miss Sanjana Palyekar	7020423815	S. Palyekar	S. Palyekar
30	Mr. Rutik Shrirang Shanbhag	8208072219	R. Shanbhag	R. Shanbhag
31	Mr. Rohit kumar mahato	9764145856	R. Mahato	R. Mahato
32	Mr. Shivnath alias Hrutvik Suryakant Sa	8788570129	S. Suryakant	S. Suryakant
33	Mr. Kunal Kishor Vaze	8007652454	K. Vaze	K. Vaze
34	Mr. Prajyot Sangodkar	8007793318	P. Sangodkar	P. Sangodkar
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37	Mr. Tukaram Ulhas Rane	9158724257	T. Rane	T. Rane
38	Mr. Vijaykumar Anand Salunke	8788017631	V. Salunke	V. Salunke
39	Mr. Shaileshkumar Laluram Nishad	7083609866	S. Nishad	S. Nishad
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42	Mr. Satyam Satyawan Asolkar	9689845481	S. Asolkar	S. Asolkar
43	Mr. Shubham Otavanekar	7972306807	S. Otavanekar	S. Otavanekar
44	Mr. Sanchai S.Mhamal	7038103480	S. Mhamal	S. Mhamal
45	Miss Krishna Patel	7609014478	K. Patel	K. Patel
46	Dr. Aniketh Gaonkar	9637889619	A. Gaonkar	A. Gaonkar
47	Mr. Abhijeet Dattatray Borkar	9764124852	A. Borkar	A. Borkar

Participant name.
MCA:

Session 1
(Sign)

Session 2

Smita Dike

Smita

Smilee Lopes

Smilee

Ranjana Rajeev

Ranjana

Sheetal Raghunade.

Sheetal

Avinraj K S

Avinraj

Gautami Samant

Gautami

Adroo Fernandes

Adroo

Manasi Athalye

Manasi

Siddhan Chaitan

Siddhan

Babbar Ganas

Babbar

Nishad Lokure

Nishad

Nagesh Chari

Nagesh

Shriyansh Ganes

Shriyansh

Sneharsh Kerkar

Sneharsh

Rutvik Sawant

Rutvik

Joel Oliveira

Oliveira

Charlton Dias

Dias

Shaun Barreto

Barreto

Floyd Fernandes

Fernandes

Saish Sawant

Sawant

Varesh Anekar

Anekar

Sauri Sharma

Sharma

Mayurak Choudhary

Choudhary

Umang H. Acodkar

Acodkar

Delinka Rosa

Rosa

Harita Raghunath

Raghunath

Atul Gaonkar

Gaonkar

Tejas Gaonkar

Gaonkar

Muskan Khan

Khan

Shahana Sayed

Sayed

Viola Fernandes

Fernandes

Lynessa Lynette Linson

Linson

Narvin Matonkar

Matonkar

Sanket Naik

Naik

Gaurav Naik

Naik

Rosa

Raghunath

Gaonkar

Gaonkar

Khan

Sayed

Fernandes

ADD

Naik

No: ATAL/2022/1668410613



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that **Sandeep Babu Gawali**, Assistant Professor of **Goa University** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Blended/Hybrid** FDP on "**IMAGING SPECTROSCOPY AND MACHINE LEARNING**" from **2023-01-09-2023-01-14** to **2023-01-16-2023-01-20** at **Goa University**.

Advisor-I, ATAL Academy
Mamta Rani Agarwal



Coordinator

No: ATAL/2022/1668583377



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that **Shreya Sanket Prabhudesai, Assistant Professor** of **Goa University** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Blended/Hybrid FDP** on "**IMAGING SPECTROSCOPY AND MACHINE LEARNING**" from **2023-01-09-2023-01-14** to **2023-01-16-2023-01-20** at **Goa University**.

Advisor-I, ATAL Academy
Mamta Rani Agarwal



Coordinator