

FACULTY PROFILE



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|-----------|-----------------------------------|---|--|-------------------|-------------------------|
| 1. | Name | : | Dr. Dada Pandurang Nade | | |
| 2. | Educational Qualifications | : | M.Sc. Ph.D. (Physics) | | |
| 3. | Designation | : | Head and Assistant Professor | | |
| 4. | Address for Communication | : | At Post: Kumbhoj (Indira Nagar), Tal: Hatkanangale, Dist: Kolhapur Pin: 416111, Maharashtra, India | | |
| 5. | E-mail Id | : | dpnade@gmail.com | | |
| 6. | Mobile No. | : | 9552678563 | | |
| 7. | Experience | : | 12 Years | | |
| | a) | Teaching - | UG | : | 05 Years |
| | | | PG | : | 03 Years |
| | b) | Research- | | : | 04 Years |
| 8. | Details of Qualifications | : | | | |
| | Sr. | Exam. | Board / University | Year | Specialization |
| | 1 | Ph. D. | Shivaji University, Kolhapur | May, 2014 | Space Science (Physics) |
| | 2 | M. Sc. | Shivaji University, Kolhapur | April, 2010 | Physics |
| | 3 | B. Sc. | Shivaji University, Kolhapur | April, 2005 | Physics |
| 9. | CAREER PROFILE | : | | | |
| | Sr. | College | Duration | Experience | |
| | A] | Under Graduate Level: | | | |
| | i. | Department of Physics, Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli | Since 28 th August, 2020 | 01 Year | |
| | ii | Sanjay Ghodawat Group of Institutions, Atigre | June 2014 to June 2017 | 03 Years | |
| | iii | Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji | June 2010 to May 2011 | 01 Year | |

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| Total Teaching Experience (UG): | | | 05 Years |
| B] | Post Graduate Level: | | |
| i. | Department of Physics at School of Science, Sanjay Ghodawat University, Kolhapur | July, 2017 to 27 August, 2020 | 03 Years |
| Total Teaching Experience (PG): | | | 03 Years |

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| 10. | RESEARCH CONTRIBUTION | : | |
| | a) | Research Guidance | : 01 JRF |
| | b) | Research Papers Published | : 32 |

| Sr . | Title of the Paper | Journal, ISSN& IF | Vol. No., Year, Page No. | Author/ Co-author |
|-------------|--|--|---|---|
| 1 | Impact of Lockdown created by COVID-19 pandemic on ground-based Airglow Image observations in India | Remote Sensing Letters, Print ISSN: 2150-704X Online ISSN: 2150-7058 IF: 2.29 | 12:5, March 2021, 488-498, | Rupesh N. Ghodpage, Alok Taori, D. P. Nade , M. K. Madhav Haridas, O. B. Gurav, Sanat K. Das and P. T. Patil |
| 2 | Intra-annual variations of regional total column ozone, aerosol optical depth, and water vapor from ground-based, satellite-based and model-based observations | Atmospheric Research ISSN: 0169-8095 IF: 4.67 | 237, June 2020, 1-16 | Nade D.P. , Potdar S. S., Pawar R.P., Taori A., Kulkarni G., Siingh D., Pawar S. D. |
| 3 | Total Column Ozone, Precipitable Water Content and Aerosol Optical Thickness Over Atigre Village, a Tropical Station: First Observations, | MAPAN-Journal of Metrology Society of India, Print-0970-3950 Online- 0974-9853 IF: 1.03 | DOI: 10.1007/s12647-019-00314-y. | D. P. Nade , S. S. Potdar, R. P. Pawar, S. T. Mane, S. Chandra, A. Taori, Devendraa Siingh |
| 4 | The long-term trend analysis of rainfall data from 1901 to 2015 for Maharashtra and Goa region from India, | International Journal of Water Online 1741-5322 Print 1465-6620 IF: | IJW_245835 | Swapnil S. Potdar, Shreyas Kulkarni, Priyanka Patil, Rani P. Pawar, Vineet V. Jakhalekar, Dada P. Nade |
| 5 | Seasonal, annual and inter-annual variability in MLT Quasi Two-Day Waves over low latitude region Kolhapur (16.8° N; 74.2° E), | Advances in Space Research. ISSN: 0273-1177 IF: 2.17 | Accepted 2019, ASR-D-18-00527R2, | H. P. Gaikwad, A. K. Sharma, O. B. Gurav, D. P. Nade , G. A. Chavan, and P. T. Patil |
| 6 | Zonal drift velocity of Equatorial Plasma Bubbles during ascending phase of 24th solar cycle using All Sky Imager over Kolhapur, India, | Journal of Geophysical Research: Space Physics, ISSN:2169-9402 IF: 2.8 | 123, 10, 266-10,282, https://doi.org/10.1029/2018JA025810 . | O. B. Gurav, A. K. Sharma, R. N. Ghodpage, D. P. Nade , G. A. Chavan, H. P. Gaikwad and P. T. Patil |
| 7 | Statistical analysis of total column ozone during three recent solar cycles over India, | Journal of Atmospheric and Solar-Terrestrial Physics, ISSN: 1364-6826 | 181, A, 44-54. 2018 | S. S. Potdar, D. P. Nade , R. P. Pawar, N. Jeni Victor, S. S. Nikte, G. A. Chavan, A. Taori, |

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| | | IF: 1.5 | | Devendraa Siingh |
| 8 | Study of equatorial plasma bubbles using all sky imager and scintillation technique from Kolhapur station: a case study, | Astrophysics and Space Science, ISSN 1572-946X Print ISSN 0004-640X IF: 1.43 | (2018) 363:8, https://doi.org/10.1007/s10509-018-3303-4 . | Sharma A. K., O. B. Gurav, H. P. Gaikwad, G. A. Chavan, D. P. Nade , S. S. Nikte, R. N. Ghodpage, P. T. Patil |
| 9 | Recent State Wise Statistical Review of Renewable Energy in India, | International Journal for Research in Engineering Application & Management (IJREAM), ISSN : 2454-9150 IF: 6.46 | 98-106, DOI : 10.18231/2454-9150.2018.0219. | D. P. Nade , Swapnil S. Potdar, R. P. Pawar, S. T. Mane, S. B. Wategaonkar, S. C. Janrao (2018), |
| 10 | Dynamics of ionospheric irregularities in increasing phase of 24th solar cycle at Kolhapur [16.4°N, 74.2°E], | Advances in Space Research. ISSN: 0273-1177 IF: 2.17 | , 60, 10/15, 2195-2205 | Sharma A. K., G. A. Chavan, O. B. Gurav, H. P. Gaikwad, R. N. Ghodpage, D. P. Nade |
| 11 | Structural and magnetic properties of (Sr _{0.6} Ca _{0.4}) (CoyMn _{1-y}) O ₃ (0.2<y<1.0) ceramic synthesized by chemical co-precipitation, | Journal of Alloys and Compounds, ISSN 0925-8388 IF : 4.6 | 741 (2018) 861e868. | R.P. Pawar, S.S. Gaikwad, S.Y. Wu, Vijaya Puri, D.P. Nade , |
| 12 | Study of ionospheric irregularities from Kolhapur (16.4°N, 74.2°E), | Journal of Atmospheric and Solar-Terrestrial Physics, ISSN: 1364-6826 IF: 1.5 | 169 (2018) 16–22. | Sharma A. K., Chavan, G. A., Gaikwad, H. P., Gurav, O. B., Nade, D. P. , Nikte, S. S., Ghodpage, R. N., Patil, P. T., |
| 13 | Dependence of Coherence Scales of Ionospheric Scintillation Patterns on Magnetic Activity, | MAPAN-Journal of Metrology Society of India, Print-0970-3950 Online- 0974-9853 IF: 1.03 | DOI 10.1007/s12647-016-0191-3. | G. A. Chavan, A. K. Sharma, O. B. Gurav, H. P. Gaikwad, D. P. Nade , S. S. Nikte, R. N. Ghodpage and P. T. Patil |
| 14 | The study of equatorial plasma bubble during January to April 2012 over Kolhapur (India), | Annales Geophysicae, ISSN 0992-7689 eISSN 1432-0576 IF: 1.49 | 59, 2, 2016, A0214; doi:10.4401/ag-6868. | P. T. Patil, R. N. Ghodpage, A. K. Taori, R. P. Patil, S. Gurubaran, S. S. Nikte, D. P. Nade , A. K. Sharma, S. Banola, V. L. Narayanan, D. Siingh, |
| 15 | Observations in quiet day pattern of cosmic radio noise using riometers | Canadian Journal of Basic and Applied Sciences, ISSN 2292-3381 IF: 0.199 | 1 (03), 145-154, 2016 | S. S. Nikte, D. P. Nade , A. K. Sharma, G. A. Chavan, O. B. Gurav, M. V. Rokade, M. P. Yadav, P. T. Patil, and R. N. Ghodpage, |
| 16 | Geographical analysis of equatorial plasma bubbles by GPS and nightglow measurements, | Advances in Space Research. ISSN: 0273-1177 IF: 2.17 | , doi: http://dx.doi.org/10.1016/j.asr.2015.03.030 . | D. P. Nade , D. J. Shetti, A. K. Sharma, A. Taori, G. A. Chavan, P. T. Patil, R. N. Ghodpage, O. B. Gurav, S. S. Nikte, |
| 17 | Field of View Determination and Spatial Calibration of Night Airglow All-Sky Images, | IJSRD - International Journal for Scientific Research & | 03 (02), 2015. | P. T. Patil, R. P. Patil, R. N. Ghodpage, S. B. Patil, D. P. Nade , |

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| | | Development, ISSN 2321-0613 IF: 4.39 | | |
| 18 | Observations of Plasma Blobs by OI 630 nm using ASI and Photometer over Kolhapur, India, | Earth Moon Planets ISSN: 0167-9295 (print); 1573-0794 (web) IF: 0.60 | (2014) 112:89- 101, DOI 10.1007/s1 1038-014- 9440-z. | D. P. Nade , A. K. Sharma, S. S. Nikte, G. A. Chavan, P. T. Patil, R. N. Ghodpage, S. Gurubaran, |
| 19 | Airglow measurements of gravity wave propagation and damping over Kolhapur (16.5° N, 74.2° E), | International Journal of Geophysics, ISSN. 16878868, 1687885X IF: | Article ID 514937, 9 pages http://dx.doi.org/10.1155/2014/514937 , 2014. | R. N. Ghodpage, A. Taori, P. T. Patil, S. Gurubaran, A. K. Sharma and D. P. Nade , |
| 20 | Development of Fast Image Analysis Technique for All Sky Images, | Current Science, ISSN 0011-3891 IF:075 | 106 (08), 1085-1093, 2014. | A K. Sharma, D. P. Nade , S. S. Nikte, R. N. Ghodpage, P. T. Patil and M. V. Rokade, R. S. Vhatkar and S. Gurubaran, |
| 21 | Zonal Velocity of the Equatorial Plasma Bubble over Kolhapur, | Annales Geophysicae, ISSN 0992-7689 eISSN 1432-0576 IF: 1.49 | 31, 2077- 2084, 2013. | D. P. Nade , A. K. Sharma, S. S. Nikte, P. T. Patil, R. N. Ghodpage, S. Gurubaran, A. Taori, and Y. Sahai, |
| 22 | Occurrence of Plasma Bubbles Over Kolhapur, | Advances in Space Research. ISSN: 0273-1177 IF: 2.17 | 54 (03), 435-442, 2013. | A K. Sharma, D. P. Nade , S. S. Nikte, R. N. Ghodpage, P. T. Patil and M. V. Rokade, R. S. Vhatkar and S. Gurubaran, |
| 23 | Difficulties in the study of cosmic radio noise absorption at 30 MHz using riometer at low latitude station, Kolhapur (Lat-16.8°N, Long-74.25°E). | Advances in Space Research. ISSN: 0273-1177 IF: 2.17 | 53, 237- 242, 2013. | S. S. Nikte, A. K. Sharma, M. V. Rokade, D. P. Nade , R. N. Ghodpage, P. T. Patil, and R. V. Bhonsle, |
| 24 | Study of Diurnal, Seasonal and Annual Variations in the Cosmic Radio Noise Absorption at 30 MHz in the Australian Antarctic Research Stations, | Canadian Journal of Basic and Applied Sciences, ISSN 2292-3381 IF: 0.199 | 1 (03), 145- 154, 2013. | S. S. Nikte, A. K. Sharma, M. V. Rokade, D. P. Nade , R. N. Ghodpage, P. T. Patil, and R. V. Bhonsle, |
| 25 | Study of variations in the absorption of cosmic radio noise using Riometer at Casey station, | Scholars Research Library, Archives of Physics Research, ISSN: 0976-0970 IF:1.35 | 3 (2), 149- 155, 2012. | A K. Sharma, S. S. Nikte, M. V. Rokade, D. P. Nade , R. N. Ghodpage and R. V. Bhonsle, |
| 26 | Ground level enhancement occurred during the SPE period on 28 October 2003: A | International Journal of Environmental Sciences, | 3 (3) 1161- 1168, 2012. | A K. Sharma, D. P. Nade , R. P. Pawar, R. S. Vhatkar, S. S. Nikte, R. N. |

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| | case study, | ISSN 0976 – 4402 IF: | | Ghodpage, P. T. Patil, M. V. Rokade, |
| 27 | Analysis of Plasma Bubbles Observed in Night Airglow Emission line OI 630.0 nm from Kolhapur Using All Sky Imager, | International Journal of Engineering Sciences Research-IJESR, ISSN: 2230-8504 e-ISSN: 2230-8512 IF: 4.5 | 3 (2), 746-750, 2012. | A K. Sharma, D. P. Nade , S. S. Nikte, R. N. Ghodpage, P. T. Patil, M. V. Rokade and R. S. Vhatkar, |
| 28 | Observation of Cosmic Radio Noise using Riometer at low latitude station, Kolhapur, | Asian Journal of Chemical and Environmental Research, ISSN 0974-3049 IF:1.46 | 4 (3-4), 105-107, 2011. | A K. Sharma, S. S. Nikte, M. V. Rokade, R. N. Ghodpage, D. P. Nade , P. T. Patil and R. V. Bhonsle, |
| 29 | Occurrence of F-Region Plasma Bubble Over Low Latitude Station: Kolhapur, | Proceedings of the National Symposium on Current trends in Atmospheric Research including Communication and Navigation aspects (CARCAN-2012), | December 21 - 22, 94-99, 2012 (ISBN: 978-93-82570-04-2) | D. P. Nade , A. K. Sharma, S. S. Nikte, R. N. Ghodpage, P. T. Patil, M. V. Rokade and R. S. Vhatkar, |
| 30 | Study of Solar Proton Event Observed using Riometers, | Proceedings of the National Symposium on Current trends in Atmospheric Research including Communication and Navigation aspects (CARCAN-2012), | December 21 - 22, 94-99, 2012 (ISBN: 978-93-82570-04-2) | S. S. Nikte, A. K. Sharma, R. S. Vhatkar, D. P. Nade , R. N. Ghodpage, M. V. Rokade, P. T. Patil and R. V. Bhonsle, |
| 31 | Designing of High gain antenna array for Riometer at low latitude station, Kolhapur, | Role of Radars in atmospheric and Ionospheric Studies, (ISBN: 978 14276-5344-4). | Paper 041, Theme 2, 137-139, 2012 | Sharma A. K., S. S. Nikte, S. V. Amargol, R. V. Bhonsle and D. P. Nade , |
| 32 | Variation In Zonal Drift Velocity Of Equatorial Plasma Bubbles (EPBs) Over Kolhapur (Lat-16.8°N, Long-74.25°E; 10.6°N dip lat), | Emerging Trends in Basic And Applied Sciences, (ISBN: 978-93-5212-826-6). | 2015 | Sharma A. K., O. B. Gurav, S. Gurubaran, G. A. Chavan, D. P. Nade , H. P. Gaikwad, R. N. Ghodpage, P. T. Patil and S. S. Nikte, |

c) Books/Souvenirs Published : 02

| Sr. | Title of the Book | ISBN | Name of the Publisher | Year |
|-----|---|--------------------|--------------------------------------|-----------|
| 1 | The NCSAS-2019 A Book of Abstract having | 978-93-5361-341-9. | Sanjay Ghodawat University, Kolhapur | May, 2019 |
| 2 | Global Positioning System (Study of equatorial plasma bubbles using GPS system) | 978-1-78984-715-4. | Infotech | 2018 |

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| d) | Research Projects | : | 03 |
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| Sr. | Title of the Project | Major/Minor | Funding Agency | Duration |
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| 1 | To investigate the aerosol distributions and ozone depletion using the TPM over Atigre Village at Kolhapur region (File No. EEQ/2016/000275) | Major (Rs. 21,00,000/-) | Department of Science and Technology (DST) by Science and Engineering Research Board (SERB) | 03 Years March-2017 to February-2020 |
| 2 | First National Conference on Space and Atmospheric Science (NCSAS-2019) (File No.SSY/2019/000157) | Minor (Rs. 1,50,000/-) | DST-SERB | 10-11 May, 2019 |
| 3 | To Study the Latitudinal Variations in Intensity of OI 630.0 nm Emission Using Images of Nightglow OI 630.0 nm Over India (File No.ITS/0364/2015-2016) | Minor (Rs. 2,50,000/-) | International Travel Grand through DST-SERB | April-2015 |

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| e) | Research Papers Presented | : | 26 |
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| Sr. | Title of the Paper | Name of the Conference | Date |
|-----|--|---|------------------------------|
| 1 | The latitudinal trend variation in TCO over India | Third National Conference on Recent Trends in Pure and Applied Sciences held at Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalay, Sangli | 13 March, 2021 |
| 2 | Investigation on relation between TCO and AOD using MicrotopsII Ozonometer | (TROPMET-2020) National Symposium on Weather and Climate Services over Mountainous Regions Umiam, Shillong, Meghalaya | 14-17 December, 2020, |
| 3 | Intra-annual variations of regional total column ozone, aerosol optical depth, and water vapor from ground-based, satellite-based and model-based observations | TROPMET-2019, National Symposium on Land, Ocean and Atmosphere Interactive Processes in the Context of Weather and Climate held at Andhra University, Visakhapatnam, Andhra Pradesh | 11 - 14 December, 2019 |
| 4 | The trend variation in total column ozone with respect to solar cycle over Indian region | Multidisciplinary International Conference on 'World Sustainable Development: Vision 2030' held at Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalay, Sangli | 19 th March, 2019 |
| 5 | Total Column Ozone, Precipitable Water Content and Aerosol Optical Thickness over Atigre Village, a Tropical Station: First Observations | The 20 th National Space Science Symposium (NSSS-2019) to be held at the Savitribai Phule Pune University, Pune | 29 - 31, January, 2019. |
| 6 | Observations of ozone, water vapor and aerosol over Atigre village | International conference on Material and Environmental Science (ICMES-2018) organized by Shri Yashavantrao Patil Science College, Solankur and The New College, Kolhapur | 07 - 08, December, 2018 |
| 7 | Enhancement in intensity of nightglow OI 630 nm | International conference on "Exploring the Universe: Near Earth Space Science to | 14 - 17, November, |

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| | emission due to the Milky Way Galaxy | Extragalactic Astronomy” held at the Department of Astrophysics and Cosmology of S. N. Bose National Centre for Basic Sciences, Kolkata, INDIA, | 2018 |
| 8 | Study of equatorial plasma blobs observed at 630.0 nm over Kolhapur, India | 15th International Symposium on Equatorial Aeronomy (ISEA-2018) held at Physical Research Laboratory, Ahmedabad, India, | 22 – 26, October 2018. |
| 9 | Recent state wise statistical review of renewable energy in India | International Conference on Sustainable Growth through Universal Practices in Science, Technology and Management (ICSGUPSTM-2018), held at Goa, organized by the Sanjay Ghodawat University, Kolhapur | 8-10 June 2018 |
| 10 | First observations of total column ozone, aerosol optical depth and precipitable water content at Village Atigre | The 10th International Workshop on “Long-Term Changes and Trends in the Atmosphere” hosted by the University of Science and Technology of China, held in Hefei, China | 14 -18 May, 2018. |
| 11 | First observation of total column ozone, aerosol optical depth and water vapor at Village Atigre | International Tropical Meteorology Symposium (ITROMET-2017) on Advancement in Space-based Earth Observations and Services for Weather and Climate organized at Space Application Center, Ahmedabad (ISRO Center) | 07 – 10, November, 2017. |
| 12 | Latitudinal variations in total column ozone over Indian region | Three days International conference on understanding, predicting and projecting climate change over Asian region (UPCAR-2017) organized by Shri. Venkateswara University, Tirupati and National Atmospheric Research Laboratory, Gadanki, Andhra Pradesh | 26 - 28 June, 2017. |
| 13 | New hypothesis for generation mechanism of equatorial plasma bubbles and blobs | 3 rd URSI-Regional Conference on Radio Science organized National Atmospheric Research Laboratory, Gadanki, Andhra Pradesh | 01 – 04, March 2017. |
| 14 | First observations of total column ozone, aerosol optical depth and precipitable water content at Village Atigre | A state level seminar on recent trends in Physical, Mathematical, Chemical and life Sciences for Make in India organized by Amruteswar Arts, Commerce and Science College, Vinzar (Pune), | 01 - 02, February, 2017. |
| 15 | Equatorial plasma bubbles zonal and meridional drifts over the low latitude region: a study using images of nightglow OI 630 nm emission | The 19th National Space Science Symposium (NSSS-2016) to be held at The Space Physics Laboratory (SPL) of Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram, Kerala | 09 – 12, February, 2016. |
| 16 | Investigate the mechanism of equatorial plasma bubbles and blobs | 2 nd URSI-Regional Conference on Radioscience organized by School of Environmental Science, Jawaharlal Nehru University, New Delhi | 16 – 19, November, 2015. |
| 17 | Influence of the Milky Way Galaxy on nightglow OI 630 nm emission | The 33 rd Meeting of the Astronomical Society of India (ASI) was hosted by the National Centre for Radio Astrophysics (NCRA) of the Tata Institute of Fundamental Research (TIFR), Pune | 17-20, February, 2015 |
| 18 | The zonal and meridional drift velocity of equatorial plasma bubbles | Two-day national conference on “Recent Advances in Astrophysics and Space Science” held at Department of Physics, KLE Society G. I. Bagewadi College, Nipani | 19 – 20, December, 2014 |

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| 19 | Study of Plasma blobs Using Intensity of OI 630.0 nm Emissions over Kolhapur | Raman Memorial Conference 2014 (RMC-14) held at Department of Physics, University of Pune | 07 – 08, February, 2014. |
| 20 | Appearance of the Milky Way Galaxy in images of OI 630 nm causes Enhancement in Intensity | One day National Level Seminar on Explore Physics (ODNLSEP-2013) held at Department of Physics, Changu Kana Thakur, ACS College, New Panvel, Mumbai. | 29 th December, 2013 |
| 21 | The Nocturnal Monthly and Latitudinal Variation in Characteristics of the Zonal Velocities of the Plasma Bubble over the Low Latitude (Kolhapur 16.42°N, 74.2°E, And 10.6°N dip Lat) Region | Six-Day workshop on Advanced Dynamical Core Modeling for Atmospheric and Oceanic Circulations scheduled (ADCM-AOC-2013) at the National Atmospheric Research Laboratory (NARL), Gadanki, Chittoor District Andhra Pradesh, India. | 18– 23, February, 2013 |
| 22 | To Study the Characteristics of Plasma Bubble over Low Latitude Station: Kolhapur | Two-day national seminar on COSMOS, Recent Developments and Measurement Techniques in Astronomy and Astrophysics (RDMTAA-2013) held at Shahajiraje Mahavidyalaya Khatav, Maharashtra | 16 - 17, January, 2013 |
| 23 | Development of Fast Image Analysis Technique for All Sky Images | National symposium Current trends in Atmospheric Research including Communication & Navigation Aspects (CARCAN-2012) held at Vignana Bharathi Institute of Technology (VBIT), Hyderabad | 21 – 22, December, 2012. |
| 24 | Concentration of Surface Ozone Decreases during Major Solar Proton Events Study of ionospheric plasma depletion using all sky imager over Kolhapur region, India | The 17 th National Space Science Symposium (NSSS-2012) to be held at Sri Venkateswara University, Tirupati | 14 - 17, February, 2012. |
| 25 | Effect of major solar proton events during the 23rd solar cycle on concentration of tropospheric ozone over station Payerne, Switzerland | National Conference on Advances in Atmospheric Remote Sensing, Weather Prediction & Climate Change (Department of Physics Sri Venkateswara University, Tirupati). | 10-11 March 2011 |
| 26 | Effect of major solar proton events during the 23th solar cycle on production of NO _x and corresponding ozone depletion over station Payerne, Switzerland | International conference on Climate Change Perspectives and Projections (ICCC-2010) –A system approach held at Osmania University, Hyderabad | 9 – 11, December, 2010. |
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| 11. | PARTICIPATION IN KNOWLEDGE EVENTS | : | |
| | a) | International Conferences/ Seminars | : 20 |
| Sr. | Theme of the Conference | Organizer | Date(s) |
| 1 | Fourth International Conference on Advances in Materials Science (ICAMS-2020) | Postgraduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath | 20 – 21 January, 2020 |
| 2 | Multidisciplinary International | Bharati Vidyapeeth's Dr. Patangrao | 19 March, |

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| | Conference on 'World Sustainable Development: Vision 2030' | Kadam Mahavidyalay, Sangli | 2019. |
| 3 | International conference on Material and Environmental Science (ICMES-2018) | Shri Yashavantrao Patil Science College, Solankur and The New College, Kolhapur | 7-9 December, 2018. |
| 4 | International conference on "Exploring the Universe: Near Earth Space Science to Extragalactic Astronomy | Department of Astrophysics and Cosmology of S. N. Bose National Centre for Basic Sciences, Kolkata, | 14-17 November, 2018. |
| 5 | The 10 th International Workshop on "Long-Term Changes and Trends in the Atmosphere" | University of Science and Technology of China, held in Hefei, China | 14-18 May, 2018. |
| 6 | 15 th International Symposium on Equatorial Aeronomy (ISEA-2018) | Physical Research Laboratory, Ahmedabad, India, | 22-26 October, 2018. |
| 7 | International Conference on Sustainable Growth through Universal Practices in Science, Technology and Management (ICSGUPSTM-2018), | Goa, organized by the Sanjay Ghodawat University, Kolhapur | 8-10 June 2018. |
| 8 | International Conference on Advanced semiconductor materials and devices (ICASMD-2018) | C-MET, Hyderabad | 8-10 March, 2018. |
| 9 | International Conference on "Applied Nanotechnology and Nanoscience" (ICANN 2017) | Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati Pune | 7-9 December, 2017. |
| 10 | International Tropical Meteorology Symposium (NTROMET-2017) on Advancement in Space-based Earth Observations and Services for Weather and Climate | Space Application Center, Ahmedabad (ISRO Center) | 7-10 November, 2017. |
| 11 | Three days International conference on understanding, predicting and projecting climate change over Asian region (UPCAR-2017) | Shri. Venkateswara University, Tirupati and National Atmospheric Research Laboratory, Gadanki, Andhra Pradesh | 26-28 June, 2017. |
| 12 | 3 rd URSI-Regional Conference on Radio Science | National Atmospheric Research Laboratory, Gadanki, Andhra Pradesh | 01-04 March 2017. |
| 13 | 2 nd URSI-Regional Conference on Radioscience | School of Environmental Science, Jawaharlal Nehru University, New Delhi | 16-19 November, 2015. |
| 14 | The 33 rd Meeting of the Astronomical Society of India (ASI) | National Centre for Radio Astrophysics (NCRA) of the Tata Institute of Fundamental Research (TIFR), Pune | 17-20 February, 2015. |
| 15 | International Conference on Advanced and Applied Material Science | Gopal Krishna Gokhale College, Kolhapur (MS) India | 15-16 January, 2014. |
| 16 | Second International Conference on Physics of Materials and Materials based Device Fabrication | Department of Physics Shivaji University, Kolhapur (ICPM-MDF-2014) | 13-15 January, 2014. |
| 17 | Six-Day workshop on Advanced Dynamical Core Modeling for Atmospheric and Oceanic Circulations scheduled (ADCM-AOC-2012) | National Atmospheric Research Laboratory (NARL), Gadanki, Chittoor District Andhra Pradesh, India. | 18-23 February, 2013 |
| 18 | International conference on Multidisciplinary Approaches in Applied Geology (MAAG-2012) | Gopal Krishna Gokhale College, Kolhapur | 20-21 February, 2012. |
| 19 | The First international conference on Physics of Materials and Materials based | Department of Physics Shivaji University, Kolhapur (ICPM-MDF- | 17-19 January, 2012 |

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| | Device Fabrication | 2012) | |
| 20 | International conference on Climate Change Perspectives and Projections (ICCC-2010) –A system approach | Osmania University, Hyderabad | 9-11 December, 2010. |

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| b) | National Conferences/Seminars | : | 20 |
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| Sr. | Theme of the Conference | Organizer | Date(s) |
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| 1 | Third National Conference on Recent Trends in Pure and Applied Sciences | Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalay, Sangli | 13 March, 2021. |
| 2 | Virtual National Symposium on Weather and Climate Services Over Mountainous Regions Shillong, Meghalaya | North Eastern Space Applications Centre and Indian Meteorological Society – Shillong Chapter, at NESAC, Umiam, Shillong, Meghalaya | 14-17 December 2020 |
| 3 | Second National Conference on Recent Trends in Pure and Applied Sciences | Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalay, Sangli | 11 January, 2020. |
| 4 | TROPMET-2019, National Symposium on Land, Ocean and Atmosphere Interactive Processes in the Context of Weather and Climate | Andhra University, Visakhapatnam, Andhra Pradesh | 11-14 December, 2019. |
| 5 | The 20 th National Space Science Symposium (NSSS-2012) | Savityribai Phule Pune University, Pune | 29-30 January, 2019. |
| 6 | The 53 rd All India Marathi Vidnyan Parishad organized by Marathi Vidnyan Parishad Chalisgaon | Chalisgaon | 22-24 December, 2018. |
| 7 | A state level seminar on recent trends in Physical, Mathematical, Chemical and life Sciences for Make in India | Amruteswar Arts, Commerce and Science College, Vinzar (Pune), | 1-2 February, 2017. |
| 8 | Fifth Techno Societal Theme Meeting on Advanced Technologies in Service of Rural India | SVERI College of Engineering, Pandharpur | 4-5 November, 2017. |
| 9 | National Conference on Material and Environmental Science | Shri. Y. Patil College of Science, Solankur | 15 February, 2017. |
| 10 | The 19 th National Space Science Symposium (NSSS-2012) | The Space Physics Laboratory (SPL) of Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram, Kerala | 9-12 February, 2016. |
| 11 | National Seminar on outcome-based education and accreditation (NBA, Tier-II Institute, June 2015 Format) | Sanjay Ghodawat Group of Institutions, Atigre under Lead College Activity, Shivaji University, Kolhapur | 30-31 March, 2016, |
| 12 | Two Days National Seminar on Role of research in Improvement of quality of teaching and learning in higher education, | Miraj Mahavidyalay, Miraj | 09-10 October, 2015. |
| 13 | Two-day national conference on "Recent Advances in Astrophysics and Space Science" | Department of Physics, KLE Society G. I. Bagewadi College, Nipani | 19-20 December 2014. |
| 14 | Raman Memorial Conference 2014 (RMC-14) | Department of Physics, University | 07-08 |

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| | | of Pune | February, 2014. |
| 15 | One day National Level Seminar on Explore Physics (ODNLSEP-2013) | Department of Physics, Changu Kana Thakur, ACS College, New Panvel, Mumbai. | 29 December, 2013 |
| 16 | Two-day national seminar on COSMOS, Recent Developments and Measurement Techniques in Astronomy and Astrophysics (RDMTAA-2013) | Shahajiraje Mahavidyalaya Khatav, Maharashtra. | 16-17 January 2013 |
| 17 | Second national seminar on Physics of Materials and Materials based Device Fabrication (NSPM-MDF-2013) | Department of Physics Shivaji University Kolhapur. | 04-05 January, 2013 |
| 18 | National symposium Current trends in Atmospheric Research including Communication & Navigation Aspects (CARCAN-2012) | Vignana Bharathi Institute of Technology (VBIT), Hyderabad | 21-22 December, 2012. |
| 19 | The 17 th National Space Science Symposium (NSSS-2012) | Sri Venkateswara University, Tirupati | 14-17 February, 2012. |
| 20 | The National seminar on Physics of Materials and Materials based Device Fabrication (NSPM-MDF2011) | Department of Physics Shivaji University Kolhapur. | 17-18 February, 2011 |
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| c) | Other (State/University) Conferences/Seminars | : | 17 |
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| Sr. | Theme of the Conference | Organizer | Date(s) |
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| 1 | Two Day National Level Workshop on LaTax | Annasaheb Dange College of Engineering and Technology Ashta | 5-6 July, 2019. |
| 2 | Two Day Faculty Conclave 2019 on Effective Student Engagement in Learning through Active Learning Techniques | Sanjay Ghodawat University, Kolhapur | 11-12 January, 2019. |
| 3 | One day workshop on AICTE schemes for students Faculty and Institutional Development | All India Council for Technical Education at DKTE Society's Textile and Engineering Institute Inchalkaranji | 03 November, 2018. |
| 4 | One day workshop on Intellectual Property Rights | Sanjay Ghodawat Group of Institutions, Atigre | 18 February, 2017. |
| 5 | First User Scientist Workshop on applications of stratospheric and tropospheric wind profile radar | Advanced Center for Atmospheric Radar Research, Cochin University of Science and Technology Cochin | 09-10 February, 2017. |
| 6 | One Day workshop on Aviskar, | Gokhale College, Kolhapur, | 29 October, 2015 |
| 7 | One Day workshop on Innovation Flow the science of flowing ideas into innovation | Venture Center, NCL, Pune, | 17 October, 2015. |
| 8 | Five days Faculty development workshop on Developing Generation conducted | Sanjay Ghodawat Group of Institutions, Atigre | 23-27 June 2015. |
| 9 | One day workshop on The Multiwavelength Astronomical Data, Analysis, | Visualization and the Virtual Observatory at IUCAA Pune | 16 February, 2015. |
| 10 | Two-day workshop on Institutionalizing a Culture of Excellence, | Sanjay Ghodawat Group of Institutions, Atigre | 24-25 June, 2014. |
| 11 | Two-day workshop on for Teaching Staff on | Sanjay Ghodawat Group of | 13-14 June, |

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| | Need for Quality in The System of Higher Education, | Institutions, Atigre | 2014. |
| 12 | National workshop on Advanced Data Mining Techniques (ADMT-2013) | Department of Computer Science, Shivaji University, Kolhapur. | 17-18 December, 2013 at |
| 13 | One day workshop on “Organic Electronic Devices” (OED-2013) | Department of Physics Shivaji University Kolhapur. | 24 September, 2013 |
| 14 | Two-Day workshop on Research Writing, Ethics, Plagiarism and Publishability (RWEPP-2012) | Shivaji University Kolhapur | 26-27 July, 2012. |
| 15 | One-Day workshop on Transit of Venus | Department of Physics, Shivaji University, Kolhapur | 27 April, 2012. |
| 16 | One-Day workshop on Research Writing, Ethics, Plagiarism and Publishability (RWEPP-2012) | New College, Kolhapur, and Shivaji University Kolhapur | 28 March, 2012. |
| 17 | One-Day workshop on Nano Technology-Preparation of Material and Its Application (NTPMA-2011) | D.K.A.S.C. College, Ichalkaranji | 6 January, 2011. |

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| 12. | WEBINARS ATTENDED | : | 13 |
| | a) International Webinars Attended | : | 01 |

| Sr. | Theme of the Webinar | Organizer | Date(s) |
|------------|---|------------------|-----------------|
| 1 | World Space week on Remote Sensing Satellite's and Achievements | Space India | 10 October 2020 |

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| | b) National Webinars Attended | : | 12 |
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| Sr. | Theme of the Webinar | Organizer | Date(s) |
|------------|---|---|-------------------|
| 1 | Online Lecture Series Program under UGC-STRIDE COMPONENT-I Scheme | Department of Physics, Shivaji University, Kolhapur | 07-10 April, 2021 |
| 2 | One Day National Workshop on Prototype/Process Design and Development-Prototyping | Institutions Innovation Council (IIC) and PD3P4 committee of Rayat Shikshan Sanstha's Dahiwadi College, Dahiwadi | 24 February, 2021 |
| 3 | Online Teachers' Workshop on New Changed Syllabus of (CBCS) B.Sc. III Physics Paper-X DSE-E2 Quantum Mechanics & Paper-XVI DSE-F4 Energy Studies and Materials Science” | Department of Physics & IQAC in collaboration with Shivaji University, Kolhapur. | 24 February, 2021 |
| 4 | One-Day Online Teachers' Training Workshop on New Changed Syllabus of B.Sc.-III Physics (CBCS Pattern)” | Department of Physics and IQAC, Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli and sponsored by Shivaji University, Kolhapur. | 12 February, 2021 |
| 5 | One Day Online Workshop on Changed Syllabus in Physics at B.Sc.-III Sem-VI for Courses DSE-F1 & F3 | Department of Physics, Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji | 09 February, 2021 |
| 6 | One-Day Online Teachers' Training Workshop on New Changed Syllabus of B.Sc.-III Physics (CBCS Pattern) | Department of Physics and IQAC, Balwant College, Vita and Shivaji University, Kolhapur | 01 February, 2021 |

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| | Laboratory Experiments GP- I to VI | | |
| 7 | E Workshop on SWAYAM MOOC and Academic Writing | HNB Garhwal University Srinagar Garhwal Uttarakhand | 06 January, 2021 |
| 8 | Faculty Development Program (FDP) on Photonics | Rajarshi Shahu Mahavidyalaya, Latur, Maharashtra and sponsored by AICTE Training And Learning (ATAL) Academy. | 03 -07 November, 2021 |
| 9 | Faculty Development Program (FDP) | Internal Quality Assurance Cell, Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli | 12 - 16 October 2020 |
| 10 | Webinar On Space Weather: Ionosphere and Technological Impact | Department of Physics, Doon University, Dehradun in Association with University Faculty Association (UFA) | 6 October, 2020 |
| 11 | National Webinar on New Education Policy-2020 | Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli | 17 September, 2020 |
| 12 | Online Webinar on Ozone for Life - 35 Years of Ozone Layer Protection | Department of Physics, Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli | 16 September, 2020 |

13. ORIENTATION/REFRESHER COURSES : 07

| Sr. | Name of the Course | Name of the University/ASC | Duration |
|-----|--|---|---------------------------------|
| 1 | Faculty Development Program (FDP) on Photonics | Rajarshi Shahu Mahavidyalaya, Latur, Maharashtra and sponsored by AICTE Training and Learning (ATAL) Academy. | 03 -07 November, 2021 |
| 2 | Online two-week Faculty Development Programme on Managing Online Classes and Co-Creating MOOCs | Teaching Learning Centre, Ramanujan College (University of Delhi) | 20 April - 6 May 2020. |
| 3 | AICTE approved Faculty Development Programme (FDP 101x) on "Foundation Program in ICT for Education" | Indian Institute of Technology Bombay | 03 August to 07 September, 2017 |
| 4 | Two Week ISTE STTP workshop on Engineering Physics, | Indian Institute of Technology at Sanjay Ghodawat Group of Institutions, Atigre | 08-18 December 2015 |
| 5 | ISTE STTP workshop on Technical Communication conducted | Indian Institute of Technology at Sanjay Ghodawat Group of Institutions, Atigre | 08 Oct to 05 December, 2015. |
| 6 | ISTE STTP One-week Coordinators workshop on Engineering Physics | Indian Institute of Technology Bombay at Mumbai | 07-11 September 2015. |
| 7 | WHS79IX: Technical Communication for Scientist and Engineers | Indian Institute of Technology Bombay | 8 - 10 October, 2015 |

14. ADMINISTRATIVE ASSIGNMENTS : 09

| Sr. | Position | Institution | Duration |
|-----|----------------------|--|--------------------------|
| 1 | HOD, Physics | Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalay, Sangli | From January, 2021 |
| 2 | Member, BoS, Physics | Sanjay Ghodawat University, Kolhapur | June 2017 to till date |
| 3 | Coordinator | Center for Space and Atmospheric Science, Sanjay Ghodawat University, Kolhapur | July 2017 to August 2020 |

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| 4 | Internal Senior Supervisor | Shivaji University, Kolhapur at Sanjay Ghodawat Group of Institution, Atigre | 24 -31 December, 2015 |
| 5 | Internal Senior Supervisor | Shivaji University, Kolhapur at Sanjay Ghodawat Group of Institution, Atigre | 01 -08 January, 2016 |
| 6 | Coordinator | Facility Center for DTE Admission Cell, at Sanjay Ghodawat Group of Institution, Atigre | June 2014 to August 2017 |
| 7 | Member | Central Marketing Committee, Sanjay Ghodawat University, Kolhapur | June 2017 to August 2020 |
| 8 | Coordinator | R & D Cell, Sanjay Ghodawat University, Kolhapur | June 2017 to August 2020 |
| 9 | Academic Coordinator | Department of Physics, Sanjay Ghodawat University, Kolhapur | June 2017 to August 2020 |

15. **INVITED LECTURES/KEYNOTE ADDRESSES/SESSION CHAIRS** : **31**

| Sr. | Invited as | Conference /Event | Organization | Date(s) |
|-----|---------------------|---|---|-----------------------|
| 1 | Session Chairperson | Fourth International Conference on Advances in Materials Science (ICAMS-2020) | Postgraduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath | 20 - 21 January, 2020 |
| 2 | Invited Talk | Space Exploration | Sharad Institute of Technology College of Engineering, Ichalkaranji (Kolhapur) | 27 March, 2021 |
| 3 | Invited Talk | Indian Space Missions in Student Induction Program | D. Y. Patil College of Engineering & Technology (An Autonomous Institute), Kasba Bawada, Kolhapur | 08 February, 2021 |
| 4 | Invited Talk | ISRO Space Missions | Shahid Shikshan Prasarak Mandals Shahid Virpatni Laxmi Mahavidyalaya, Kolhapur | 09 January, 2021 |
| 5 | Invited Talk | Effective Research Proposal Writing and Fund Generation Schemes | R&D cell Indira College of Engineering and Management (ICEM), Pune | 29 September, 2020. |
| 6 | Resource Person | One Day Workshop on "Progress of Indian Space Program" | PDVP College, Tasgoan under Lead College Scheme, Shivaji University, Kolhapur | 09 January, 2020. |
| 7 | Guest Lecture | Indian Space Program and Dr. Vikram Sarabhai | at Balwant College Vita | 18 December, 2019. |
| 8 | Invited Talk | Chandrayaan-2 | Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji | 10 October, 2019. |
| 9 | Invited Talk | Stratospheric Ozone Depletion and our Responsibility | at Dr. J. J. Magdum College of Engineering, Jaysingpur | 01 October, 2019 |
| 10 | Invited Talk | India in Space. | Miraj College, Miraj | 21 September, 2019 |
| 11 | Invited Talk | Mission Chandrayan | Y.C. College of Science, Karad | 18 September, 2019. |
| 12 | Invited Talk | Global Warming: A Role of Ozone' in One Day Workshop on Ozone Day | Department of Physics, SGU, Kolhapur | 16 September, 2019 |
| 13 | Invited Talk | Program Monitoring | Department of Physics, Shivaji | 27 August, |

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|----|--------------|--|--|------------------------|
| | | Committee for promotion of Space Science Research | University, Kolhapur | 2019. |
| 14 | Invited Talk | Fundamental Research in Physics | Department of Physics, Lal Bahadur Shastri College, Satara | 19 August, 2019 |
| 15 | Invited Talk | Funding Agencies and Funding Proposals” in Faculty Orientation Programme | Sanjay Ghodawat University, Kolhapur | 20 July, 2019 |
| 16 | Chief Guest | The Scientific Approach” celebration of National Science Day | Srimant Gangamai Girls High School and Junior College, Ichalkaranji | 28 February, 2019 |
| 17 | Invited Talk | Modern Physics | Sanjay Ghodawat Polytechnique Atigre | 09 February, 2019 |
| 18 | Invited Talk | The writing a research story: A great tool for teaching and learning process” in Faculty Conclave 2019 | Sanjay Ghodawat University, Kolhapur | 11 - 12 January, 2019. |
| 19 | Invited Talk | Ozone and its Effects on the occasion of World Ozone Day | Department of Mathematics, Willingdon College, Sangli | 15 September, 2018. |
| 20 | Invited Talk | Women Contribution in Space Science” | Rani Sarswati Kanyashala, Sangli | 18 August, 2018 |
| 21 | Invited Talk | General Introduction to Quantum Mechanics” | Raje Ramrao Mahavidyalaya, Jath | 08 August, 2018 |
| 22 | Invited Talk | Eclipse: Myths and Superstitions | Abhinav Balak Mandir, Sangli | 12 July, 2018 |
| 23 | Invited Talk | Eclipse: Myths and Superstitions | Pradnya Prabodhini Prashala, Sangli | 12 July, 2018 |
| 24 | Invited Talk | Quantum Mechanics | Raje Ramrao Mahavidyalaya, Jath | 18 February, 2018 |
| 25 | Invited Talk | Global Warming and its Effect on Climate | Sanjay Ghodawat Polytechnique Atigre | 24 January, 2018 |
| 26 | Invited Talk | Asteroids, Comets and Meteoroids | Rajaram College Kolhapur | 04 October 2017 |
| 27 | Invited Talk | Effect of Ozone Loss on Human Life” on occasion of the International Ozone Day | Dattatray Chavan Kanya Vidhyalay Sangliwadi | 25 September, 2017 |
| 28 | Invited Talk | Stratospheric Ozone depletion and our responsibility” on the occasion of International Ozone Day Ceremony, | Department of Physics, School of Science at Sanjay Ghodawat University Kolhapur. | 16 September, 2017 |
| 29 | Invited Talk | Career opportunity in Space Science | Rajaram College Kolhapur | 15 July, 2017 |
| 30 | Invited Talk | Sun and its Activities” on occasion of the Astronomical Day | Miraj College Miraj | 07 October, 2016 |
| 31 | Invited Talk | Introduction of Ozone Layer | Kanya Vidya Mandir, Shirdwad on 13-01-2017. | 13 January, 2016 |

16. ASSOCIATION WITH PROFESSIONAL BODIES : 06

| Sr. | Position | Name of the Professional Body |
|-----|----------|---|
| 1 | Member | Board of Studies (BOS) of Physics, Sanjay Ghodawat University, Kolhapur |

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| 2 | Lifetime Member | International Union of Radio Science (URSI) |
| 3 | Lifetime Member | International Society for Research and Development (ISRDR), |
| 4 | Lifetime Member | Marathi Vidnyan Parishad (MVP) |
| 5 | Member | The Indian Radio Science Society (InRaSS). |
| 6 | Lifetime Member | Indian Meteorology Society (IMS) |

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| 17. | KNOWLEDGE EVENTS ORGANISED | : | 19 |
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| Sr. | Title of the Event | Level | Date(s) | Position |
|-----|--|----------|------------------------|-------------|
| 1 | One-Day Online Teachers' Training Workshop on New Changed Syllabus of B.Sc.-III Physics (CBCS Pattern) organised by Department of Physics and IQAC, Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli and sponsored by Shivaji University, Kolhapur. | State | 12 February, 2021 | Coordinator |
| 2 | National Webinar on Ozone for Life -35 Years of Ozone Layer Protection organized by Department of Physics and Internal Quality Assurance Cell, Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli in association with ISHRAE Kolhapur-Sangli Sub-Chapter on | National | 16 September, 2020 | Coordinator |
| 3 | Dr. Vikram Sarabhai 100 th Birth Anniversary at Department of Physics, the Sanjay Ghodawat University, Kolhapur in association with the Indian Space Research Organization (ISRO) | National | 22 - 23 January, 2020. | Coordinator |
| 4 | Live demonstration of the Solar Eclipse at the Sanjay Ghodawat, University, Kolhapur (Atigre). Dr. Aviraj Jatratkar was Resource Person. | State | 26 December, 2019 | Coordinator |
| 5 | One Day Workshop on Ozone Day organized at Department of Physics, Sanjay Ghodawat University, Kolhapur | National | 16 September, 2019. | Coordinator |
| 6 | The First National Conference on Space and Atmospheric Science (NCSAS-2019) organized at Department of Physics, Sanjay Ghodawat University, Kolhapur in collaboration with the Indian Institute of Tropical Meteorology (IITM), Pune, Indian Institute of Geomagnetism (IIG), Mumbai | National | 10 -11 May, 2019 | Convener |
| 7 | One day workshop on "World Ozone Day" at Department of Physics, School of Science, Sanjay Ghodawat University, Kolhapur | National | 29 September, 2018. | Coordinator |
| 8 | A National workshop on "New Horizon in Physics-Joy of Learning" at Department of Physics, School of Science at our University Kolhapur | National | 23 January, 2018. | Coordinator |
| 9 | Reading Motivational Day (Vachan Prerana Din) on occasion of the birthday ceremony of Dr. A. P. J. Abdul Kalam at Department of Physics, School of Science at our University, Kolhapur | State | 15 October, 2017. | Coordinator |
| 10 | International Space week organized at Department of Physics, School of Science at our University Kolhapur. | National | 04 - 10 October, 2017 | Coordinator |

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| 11 | One Day workshop on "International Ozone Day" at Department of Physics, School of Science at our University, Kolhapur. | National | 16 September, 2017 | Coordinator |
| 12 | Solar Summit-2k17 organized at the Sanjay Ghodawat Group of Institute Atigre | National | 25 - 26 March, 2017. | Coordinator |
| 13 | Two Week ISTE STTP Workshop on "Engineering Physics" conducted by IIT Bombay, Mumbai at Department of Physics, Sanjay Ghodawat Group of Institute Atigre | National | 08 -18 December, 2015. | Coordinator |
| 14 | Guest lecture on Thunderstorm and Lightning by Dr. Devendraa Siingh from Indian Institute of tropical Meteorology (IITM), Pune for M.Sc. Physics students of Department of Physics, SGU, Kolhapur. | University | 09 August, 2019 | Coordinator |
| 15 | The 'Orientation Program' for first year students of School of Science, SGU, Kolhapur | University | 23 -24 July, 2018. | Coordinator |
| 16 | A meeting with eminent scientist Dr. Gourihar Kulkarni, Pacific Northwest National Laboratory, Richland, USA, for development in R&D and innovation work at Sanjay Ghodawat University, Kolhapur. | University | 17 July, 2018 | Coordinator |
| 17 | FE Parents Meet 2015 at the Sanjay Ghodawat Group of Institute Atigre | University | 14 March 2015. | Coordinator |
| 18 | Poster Presentation in VIBRANT-2015 at Sanjay Ghodawat Group of Institute Atigre | University | 23-24 February 2015. | Coordinator |
| 19 | Arranged a guest lecture on "India in Space" by Prof. Rajmal Jain, Hon. Scientist of PRL, Department of Space, Govt. of India, and Dean, Research and Sciences, Kadi Sarva Vishwavidyalaya, Gandhinagar. | University | 07 June 2016 | Coordinator |

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| 18. | ACADEMIC ODYSSEY | : | |
| | a) Foreign Countries | : | 01 |

| Sr. | Name of the City and Country | Date(s) |
|-----|--|----------------|
| 1 | University of Science and Technology of China 96 Jinzhai Road, Hefei, Anhui 230026, China | 14-19 May 2018 |
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| b) India | : | 12 |
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| 1 | Tamilnadu | 2 | Andra Pradesh | 3 | Kerala |
| 4 | West Bengal | 5 | Gujrat | 6 | Delhi |
| 7 | Uttarakhand | 8 | Karnataka | 9 | Uttar Pradesh |
| 10 | Odisha | 11 | Goa | 12 | Telangana |
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| 19. | CONTRIBUTION AS AN EXPERT | : | 09 |
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| Sr. | Position | Organization | Date(s) |
|-----|-----------|---|-----------|
| 1 | Evaluator | National Anveshika Network of India (NANI), | November- |

| | | | |
|----|---|---|----------------------|
| | | National Anveshika Experimental Skill Test (NAEST) 2020. | December, 2020 |
| 2 | Evaluator for Poster Presentation | Libral Arts, Sanjay Ghodawat University, Kolhapur | February 2019 |
| 3 | Evaluator for Poster Presentation | Sanjay Ghodawat International School, Atigre | June 2019 |
| 4 | Internal Examiner for Theory, Practical and Project | Department of Physics, Sanjay Ghodawat University, Kolhapur | June 2017-2020 |
| 5 | Expert for SRF Interview | For RESPOND Project, Department of Physics, Smt. Kasturbai Walchand College, Sangli. | |
| 6 | External Examiner for Practical and Project | Department of Physics, Sanjay Ghodawat University, Kolhapur | From November, 2020 |
| 7 | Expert | Program Monitoring Committee for promotion of Space Science Research at Department of Physics, Shivaji University, Kolhapur | From 27 August, 2019 |
| 8 | Interview Panel Member of MSBTE | Sanjay Ghodawat Polytechnic, Atigre | June 2016 |
| 9 | Subject Expert for Faculty Recruitment | Department of Physics, Sanjay Ghodawat University, Kolhapur | June 2017-2020 |
| 10 | Paper Setter | B.Sc. and M.Sc. Department of Physics, Sanjay Ghodawat University, Kolhapur | |

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| 20. | AWARDS AND HONOURS | : | 07 |
|------------|---------------------------|----------|-----------|

| Sr. | Title of the Award | Instituted by | Date |
|------------|---|--|------------------------------------|
| 1 | Best Researcher Award | ScienceFather | 03 November, 2020 |
| 2 | Best academic Performer Award-2019 | Sanjay Ghodawat University, Kolhapur for academic year 2017-2018, | 11 January, 2019 |
| 3 | Young Researcher | by hands of Eminent Scientist Prof. R. A. Mashelkar at Sanjay Ghodawat University, Kolhapur | 12 November, 2018. |
| 4 | Young Scientist, a Special Teacher Award-2018 | Devdan Bahuuddeshiy Sevabhavi Sanstha, Kupwad (Sangli) | 16 September, 2018 |
| 5 | Adarsh Yuva Purskar | by the Prashik Welfare Association, Kumbhoj, | 14 April, 2017 |
| 6 | Received International Travel Grant (ITG) | from Department of Science and Technology (DST) through Science and Engineering Research Board (SERB) Government of India to present research paper at Montereal, Canada for Joint Assemble 2015, was organized by the American Geophysical Union. | 2015 |
| 7 | Research Assistant | DST-PURSE in the Department of Physics, Shivaji University, Kolhapur | 03 September, 2011 to 05 May, 2014 |

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| 21. | OTHER ACTIVITIES | : | |
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I have established the **Center for Space and Atmospheric Science (CSAS)** at Sanjay Ghodawat University, Kolhapur in collaboration with **Indian Institute of Tropical Meteorology (IITM), Pune, Ministry of Earth Science, Government of India** to study the atmospheric dynamics, herein, we have installed **Lightning Detector** having capacity to detect lightning activity over 200 km radial distance, **Sodar System** to measure the wind profile in 3D form i.e. in vertical, zonal, and meridional up to 2km altitude, **Compact Weather Station** to measure the temperature, humidity, pressure, wind direction and speed and rainfall etc, **Super SID** to study the sudden ionospheric disturbances, specially D-region dynamics, **Microtop-II Ozonometer** to measure the ozone, water Vapor and aerosol of the atmosphere.

To inaugurate the CSAS, I have organized **First National Conference on Space and Atmospheric Science (NCSAS-2019)** at Sanjay Ghodawat University, Kolhapur in collaboration with the Indian Institute of Tropical Meteorology (IITM), Pune, Indian Institute of Geomagnetism (IIG), Mumbai, on **10th and 11th May, 2019**. More than 25 scientists, 100 research students' participants and 50 academicians were present.

During my M. Sc. (2009-2010) project work, I have successfully completed project work entitled "**Study of the production of NOX and corresponding ozone depletion during major solar proton events of the 23rd solar cycle over Payrre, Switzerland**". The present project work is published in Journal of Earth Moon and Planet, Springer Nature, 2015. After completion of M. Sc. degree, since 2010, I have devoted my time to do research and earned **Ph. D. degree** by entitled thesis "**Study of Ionospheric Dynamics Using Night Airglow Emission**" under the guidance of **Dr. A. K. Sharma** in Department of Physics, Shivaji University Kolhapur. While doing Ph.D. work I have studied in detail about characteristics of the equatorial plasma bubbles (EPBs) using images of nightglow OI 630.0 nm emission recorded by all sky imager (ASI). The ASI has installed by the Indian Institute of Geomagnetism, Navi Mumbai at Shivaji University, Kolhapur. **I have developed a new formula to convert the pixel distance of OI 630.0 nm images into the actual distance in ionosphere using geometry of airglow emission layer. This work is published in the journal of 'Current Science'**. One of processed image of this work is published on the **cover page of Current Science** in the same issue (**25 April 2014**). The member of Program Monitoring Committee for promotion of Space Science Research through the Department of Physics, Shivaji University, Kolhapur.

Article Published in Regional Language: 12

| Sr. | Title of Article | Publisher's | Date(s) |
|-----|--|-----------------------------|--------------------------|
| 1 | Mystery of the Universe (ब्रह्मांडांचे रहस्य) | Pudhari Newspaper | 01 January, 2021 |
| 2 | This is the Appreciation of Albert Einstein's Theory (हा तर अल्बर्ट आईन्स्टाईन यांच्या सिद्धांताचा सन्मान) | Lokmat Newspaper | 18 October, 2020 |
| 3 | Light Emitted From Thunderstorm: Lightning (वादळी ढगातून उत्सर्जित होणारी प्रकाशज्योत: वीज प्रताप) | Lokmat Newspaper | 02 June, 2020. |
| 4 | India's Deepest in Space Research (भारताची अंतराल संशोधनात भारती) | Pudhari Newspaper | 02 January, 2020. |
| 5 | Environment and Ozone (नयावरण आणि ओझोन) | Pudhari Newspaper | 16 September, 2019 |
| 6 | ISRO Sculptor Dr. Vikram Sarabhai (इस्रोचे शिल्पकार डॉ. विक्रम साराभाई) | Bahar, Pudhari Newspaper | 11 August, 2019 |
| 7 | The Heat Wave- A Scientific Approach (उष्णतेची लाट- एक वैज्ञानिक दृष्टीकोन) | Bahar, Pudhari Newspaper | 14 April, 2019. |
| 8 | Astro steps on the moon with indigenous satellite: Chandrayaan 2 (इस्रोचे पाऊल चंद्रावर स्वदेशी उपग्रहाने: चांद्रयान २) | Bahar, Pudhari Newspaper | 03 March, 2019 |
| 9 | Ozone Remedy and Damaging (ओझोन उपायकारक आणि अपायकारक) | Bahar, Pudhari Newspaper | 16 September, 2018 |

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| 10 | Symbol of Positivity (सकारात्मकतेचे प्रतीक) | Maharashtra Time | 05 September, 2018. |
| 11 | The eclipse and the secrets behind it (ग्रहण व त्यामागील रहस्य) | Lalkar Newspaper | 27 July, 2018 |
| 12 | A golden opportunity to become a Space Scientist after class XII (बारावीनंतर अवकाश वैज्ञानिक होण्याची सुवर्णसंधी) | Daily Punyanagari | 19 June, 2018. |
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