

Curriculum Vitae

Name Dr. Shilpa Pandey

Date of Birth 26.01.1983

Present Position Scientist-E

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Palaeosciences, 53 University Road, Lucknow-226007

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Academic Qualifications

Year	Examination Passed	Name of Board/ University	Name of Institution where studied	Class/ Division	Subjects
1998	High School	M.P. Board	Shantiniketan Montessori Higher Secondary School, Hoshangabad	1 st div. with 82%	Hindi, English, Maths, Science, Social Sciences, Sanskrit
2000	Intermediate	M.P. Board	Shantiniketan Mont. Higher Secondary School, Hoshangabad	1 st division with 76.4%	Biology, Physics, Chemistry, Hindi, English
2003	B.Sc.	Barkatullah University, Bhopal	Narmada Maha Vidyalaya, Hoshangabad	1 st division with 76%	Botany, Zoology, Chemistry, Foundation Courses (Hindi, English)
2005	M.Sc.	Barkatullah University, Bhopal	Narmada Maha Vidyalaya, Hoshangabad	1 st division with 77.5%	Botany
2008	P.G. Diploma in Petroleum Exploration (Correspondence course)	Annamalai University, Chidambaram	Annamalai University, Chidambaram	1 st division with 71.2%	Origin of Indian sedimentary basins, Geophysical Exploration, Geologging and well completion, Reservoir Modelling
2011	Ph.D.	University of Lucknow	BSIP, Lucknow	Awarded	Botany (Palaeoclimate) Mangrove ecology and evolution

Thesis Title- *“Late Quaternary evolution of mangrove vegetation in relation to palaeoclimate and sea-level changes at the Chilka Lake, Orissa, India.”*

Professional Experiences

Designation	Organization	Duration		Nature of job
		From	To	
Guest Lecturer	Govt. Narmada Mahavidyalaya., Hoshangabad (M.P.)	01/10/2005	15/02/2006	Teaching
Junior Research Fellow	Tropical Forest Research Institute, Jabalpur (M.P.)	18/09/2006	16/04/2007	Research
Junior Research Fellow	Birbal Sahni Institute of Palaeosciences, Lucknow	25/04/2007	24/04/2009	Research
Senior Research Fellow	Birbal Sahni Institute of Palaeosciences, Lucknow	25/04/2009	24/04/2011	Research
Research Associate (RA)	Birbal Sahni Institute of Palaeosciences, Lucknow	31/05/2011	18/09/2012	Research
Scientist-B	Birbal Sahni Institute of Palaeosciences, Lucknow	19/09/2012	31/12/2015	Research
Scientist-C	Birbal Sahni Institute of Palaeosciences, Lucknow	01/01/2016	31/12/2019	Research
Scientist-D	Birbal Sahni Institute of Palaeosciences, Lucknow	01/01/2020	31/12/2023	Research
Scientist-E	Birbal Sahni Institute of Palaeosciences, Lucknow	01/01/2024	continuing	Research

Research Interests

- Palaeoecology, Palaeoclimate
- Mangroves restoration and conservation and Ecotourism
- Peatlands and Climate Change
- Land use and land cover changes
- Coastal and Freshwater wetlands
- Land-Sea interactions
- Geoheritage and Geotourism
- Melissopalynology and Ethnobotany
- Fire history

Awards and Honours

- **Vice President of International Union of Quaternary Research (INQUA) Coastal and Marine Processes Commission (2023-2027).**
- **Chief Vigilance Officer (Part time), Birbal Sahni Institute of Palaeosciences, Lucknow w.e.f 01 July 2024.**
- Convener of **Centre for Promotion of Geoheritage and Geotourism (CPGG)** at the BSIP, Lucknow
- Empaneled as **Wetland expert by the Chhattisgarh Wetland State Authority (2023-2025).**

- **Member, Advisory Committee of People's World Commission on Drought and Flood**, Uttar Pradesh Commissionery including Bundelkhand.
- Awarded **High End Workshop (KARYASHALA) 2022 under Accelerate Vigyan Scheme** by SERB, New Delhi.
- **INSA Bilateral Exchange Award 2019**, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, China.
- **Regional Talent Award 2017** under Science Category by **Maharaja Jyotiraditya Madhavrao Scindia** during Madhav Jyoti Alankaran Event, May, 2017.
- **Best Poster Award** in National Hindi Scientific Seminar on Climate Change at INCOIS, Hyderabad in **2015**.
- Awarded **“Junior Scientist Award of the year 2014”** by National Environment Science Academy, New Delhi, 2014.
- **Best Poster Award** in Nat. Hindi Scientific Seminar on Climate Change Monsoon variability and Prediction: Scientific Approach, Pune, **2014**.
- **DST Fast Track Young Scientist Award-2013** in the Earth Sciences
- **Dr. B.S. Venkatachala's Memorial Gold Medal-2012** for outstanding piece of research work in Palaeobotany.
- **Dr. Pratul Chandra Bhandari Gold Medal -2009** for best piece of research work at Birbal Sahni Institute of Palaeobotany, Lucknow.

Recognitions

- Invited as **Mangrove Expert** on “International Mangrove Day 2023” by **AIR Akashvani under Yuvavani Lucknow** on Prasar Bharti's **NEWSonAIR 747khz** on 26th July, 2023
- Invited as an Expert on “World Earth Day 2023” by AIR Lucknow Radio-“**Shaam-E-Awadh**” on Prasar Bharti's **NEWSonAIR** on 22th April, 2023
- **External Examiner** of B. Sc Practical Viva Voce at Babasaheb Bhimrao Ambedkar University, Lucknow on 24th March, 2023.
- **Resource Person** on Short Term Course on “Coastal Tourism and Environment” from 08.03.2023 to 14.03.2023 (Online) organized by UGC-Human Resource Development Centre, Goa University.
- As a **Panel member** on National Science Day 2023 organized by IGNOU, Bhopal.
- **Guest Speaker on Climate Action Now Workshop** held at the IIT, Gandhinagar during 27-31 January, 2023.
- Event Organizer of the **High-End Workshop (KARYASHALA) 2022** on “*Disaster and Climate Resilient Pathways: Adaptation, Mitigation and Sustainable Development*” under **Accelerate Vigyan Scheme** by SERB, New Delhi

- **Associate Professor** in the Faculty of Biological Sciences, Academy of Science and Innovative Research (AcSIR)
- **Executive Committee Member** of Mangrove Society of India, Goa for period of 2021-2025.
- **Convener** of National webinar on “**Mangroves and Disaster Risk Reduction**” on 25th March, 2022 in collaboration with National Institute of Disaster Risk Management, New Delhi and Birbal Sahni Institute of Palaeosciences, Lucknow.
- Invited as **Expert Panel Member** in an International Conference on “Mangrove Research in Indian sub-continent: Recent advances, knowledge gaps and future perspectives” organized by the Centre for International Forestry Research (CIFOR), Indonesia and Wildlife Institute of India (WII), Dehradun during 8-10 December, 2021.
- **Convener** of National webinar on **International Mangrove Day 2021** (as Convener) on 26th July 2021 at the BSIP, Lucknow.
- **Councilor**, The Palaeobotanical Society, Lucknow, India
- **Chaired a session** Sea Level studies II on 4th IGCP 588:” Preparing for Coastal Change” held at Chennai (May 20- 24, 2013).
- Invited as **Mentor in Science camp** under INSPIRE Programme sponsored by DST at the Bundelkhand University, Jhansi, U.P. (January 20 -24, 2014).
- **Co-convener** of the special International scientific session title-“Understanding tropical climate change from geological perspective to multidimensional approach” in the **35th International Geological Congress, Capetown, South Africa** held during 27th August-4th September, 2016.
- **Co-convener** of the special International scientific session title-“IG25- Multi-dimensional Aspects of Climate Change Over South Asian Region” in an International conference **Asia Oceania Geosciences Society, Singapore** to be held 6-11th August, 2017.
- Invited as **Mentor in Science camp** under INSPIRE Programme sponsored by DST at the Arunachal University of Studies, Arunachal Pradesh (Feb. 01-05, 2018).
- Invited as **Visiting Professor** at the Earth and Environmental Sciences Department, Kachchh University, Bhuj, Gujarat. (January 07 -13, 2018).
- **Member of the National Advisory Committee** of the National Conference on “Recent studies on the Geology of the Kachchh Basin”, Kachchh University, Bhuj, Gujarat, December 30, 2018 to January, 01 2019.

Membership of the academic, scientific and professional bodies:

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|---|---------------|
| ➤ Association of Quaternary Researchers (AOQR) | - Life Member |
| ➤ The Palaeobotanical Society, Lucknow | - Life Member |
| ➤ The Indian Science Congress Association, Kolkata | - Life Member |
| ➤ The National Environment Science Academy, New Delhi | - Life Member |
| ➤ The Palaeontological Society of India, Lucknow | - Life Member |
| ➤ Indian Geophysical Union, Hyderabad | - Life Member |
| ➤ Mangrove Society of India, Goa | - Life Member |

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| ➤ Society for Conservation of Wildlife | - Life Member |
| ➤ Society for Environmental Sustainability | - Life Member |
| ➤ International Organization of Palaeobotany | - Annual Member |

Sponsored Projects

1. DST sponsored **Young Scientists Fast Track Project** entitled- *“Palynological investigations of mangroves from South Andaman Island, India- Implications in vegetation change, palaeoclimate and sea-level fluctuations during Late Quaternary”* from 17.7.13 to 31.07.17
Principal Investigator (Total cost- 23 lakhs)- Completed
2. SERB-DST, New Delhi under Extra Mural Scheme- *Land-sea interactions along coastal wetlands of Gujarat, western India: mangroves response to climate and sea-level changes during the Holocene.* - Principal Investigator (approx. Total cost- 50 lakhs)- Completed
3. MOES, New Delhi Sponsored Project entitled- *“Reconstruction of Holocene vegetation climate and sea-level fluctuation from the Mahanadi Delta, Odisha, East coast of India: A multi proxy approach”* (Project No. MoES/CCR/Paleo-2/2019)- Principal Investigator (Total cost- approx. 95 lakhs)- Completed

Publications

1. Sengupta, S., Gupta, A., Jaiswal, M., Kumar, P., Sanyal, P., **Pandey, S.**, Singh, D., Kaushik, A., Singh, A., Palar, B., Sharma, R., Singh, V. 2024. Paleomonsoon shifts in the Central Ganga Basin during the Middle to Late Holocene: Exploring the 4.2 ka arid event and its implications in Northern India. *Holocene*. doi 10.1177/09596836241247310.
2. Mudasiru, O.M., Ayodele, A. E., 3Rana, T.S., **Pandey, S.** 2023. Taxonomic Significance of the Pollen Morphology of family Combretaceae R.BR. (MYRTALES) from Nigeria. *Nigerian Journal of Botany* 36(2) 165-184. <https://dx.doi.org/10.4314/njbot.v36i2.6>.
3. Tripathi, S., Thakur, B., Sharma, A., Phartiyal, B., Basumatary, S.K., Ghosh, R., Kumar, K., M.C. M., Agrawal, S., Farooqui, A., Tiwari, P., Saikia, K., Tiwari, A., Pandey, A., Ali, N., Agnihotri, R., Prasanna K., P. Mortheikai, Ranhotra, P.S., **Pandey, S.**, Bose, T. 2023. Modern biotic and abiotic analogues from the surface soil of Ganga-Ghaghara-Gandak interfluves of the Central Ganga Plain (CGP), India: Implications for the palaeoecological reconstructions. *Catena* 224, 106975.
4. Tripathi, S., Srivastava, J., Garg, A., Khan, S., Farooqui, A., Quamar, M.F., Thakur, B., Ranhotra, P.S., Basumatary, S.K., Trivedi, A., **Pandey, S.**, Krishnamurthy, A., Reghu, N. 2022. Surface pollen quantification and floristic survey at Shaheed Chandra Shekhar Azad (SCSA) Bird Sanctuary, Central Ganga Plain, India: a pilot study for the palaeoecological implications. *Journal of Palaeosciences* 71, 159-176.

5. Sharma, S., Sati, S.P., Basaviaha, N., **Pandey, S.**, Sundriyal, Y.P., Rana, N., Singh, P., Pradhan, S., Shukla, A.D., Bhushan, R., Bhatt, R., Juyal, N. **2022**. Mid to late Holocene climate variability, forest fires and floods entwined with human occupation in the upper Ganga catchment, India. *Quaternary Science Reviews* 293, 107725.
6. **Pandey, S.**, Urrego, L.E., Eswaran, Y., Deori, D., Farooqui, A., Kumar, K. **2021**. Modern pollen–vegetation relationships in a mangrove tidal creek, South Andaman, Andaman and Nicobar Islands, India and their palaeoecological implications. *Catena* 200, 105130.
7. Sharma, S., Chauhan G., Shukla A.D., Nambiar, R., Bhushan R., Desai B.G., **Pandey S.**, Dabhi, M., Bhandari S., Bhosale, S., Lakhote, A., Juyal, N. **2020**. Causes and implications of Mid-to Late Holocene relative sea-level change in the Gulf of Kachchh, western India. *Quaternary Research* doi:10.1017/qua.2020.86.
8. Nageswara Rao, K., Saito, Y., Naga Kumar, K.Ch.V., Kubo, S., **Pandey, S.**, Li, Z., Demudu, G., Rajawat, A.S. **2020**. Holocene evolution and Anthropocene destruction of the Krishna Delta on the east coast of India: Delta lobe shifts, human impacts, and sea-level history. *Marine Geology* 427, <https://doi.org/10.1016/j.margeo.2020.106229>.
9. Nageswara Rao, K., **Pandey, S.**, Kubo, S., Saito, Y., Naga Kumar, K.Ch.V., Demudu, G., Malini, B.H., Nagumo, N., Nakashima, R., Sadakata, N. **2020**. Paleoclimate and Holocene relative sea-level history of the east coast of India. *Journal of Paleolimnology*. 64: 71-89.
10. Kumar, K., Agarwal, S., Sharma, A., **Pandey, S.** **2019**. Indian Summer Monsoon (ISM) variability and vegetation changes in Core Monsoon Zone (CMZ), India during the Holocene: a multiproxy study. *Holocene*. 29 (1), 110-119.
11. **Pandey, S.**, Minckley, T. **2019**. Modern pollen–vegetation studies from the Sajnekhali Island Wildlife Sanctuary, Sundarbans, Eastern India. *Palynology*. 43 (2), 213-222.
12. **Pandey, S.**, Holt, K. **2018**. Modern pollen: distribution and relationship to vegetation from the south-western part of Ganges-Brahmaputra Delta, India. *Palynology*. 42(1), 20-27.
13. Banerji, U., **Pandey, S.**, Bhushan, R., Juyal, N. **2015**. Mid-Holocene climate and land-sea interaction along the southern coast of Saurashtra, western India. *Journal of Asian Earth Sciences*. 111, 428-439.
14. **Pandey, S.**, Burkhard, W. Scharf., and Mohanti, M. **2014**. Palynological studies on mangrove ecosystem of the Chilka Lagoon, east coast of India during the last 4,165 yrs B.P. *Quaternary International*. 325, 126-135.

15. **Singh, S.** and Kar, R. **2011.** Melissopalynological studies on mangrove honeys from Sunderbans (Bangladesh) and Little Andaman (India). *Current Science* 100, 1290-1293.
16. **Singh, S.,** Burkhard, W. Scharf., Khandelwal, A., and Mohanti, M. **2011.** Modern pollen-vegetation relationship as an adjunct in the interpretation of fossil pollen records in the Chilka Lagoon, Odisha, India. *Palaeobotanist*, 60, 265-271.
17. **Singh, S.,** Kar, R. and Khandelwal, A. **2010.** Impact of modern pollen rain studies from South and Little Andaman Islands, India, to interpret present and past vegetation. *Current Science*, 99 (9), 1251-1256.
18. Islam S.N., **Singh S,** Shaheed, H. and Wei, S. **2010.** Settlement relocations in the char lands of Padma River Basin in Ganges Delta, Bangladesh. *Frontier of Earth Sciences in China* 4 (4), 393-402.
19. Khandelwal, A., **Singh, S.,** Chatterjee, S., Tewari, R., Misra, L., Saxena, R., Agarwal, P. and Srivastav, A. **2010.** Comparative Analysis of Aero spora at five different sites in Lucknow, India. *Advances in Pollen Spore Research*, 28, 39-49.
20. Khandelwal, A., Kohli, D. and **Singh, S.** **2009.** Holocene evolution of mangrove vegetation at Chandrapur, Chilka Lake, Orissa, India in relation to pollution and anthropogenic impact. *Advances in Pollen Spore Research*, 27, 195-204.

Articles Published

- **Singh, S.** and Khandelwal, A. 2008. Chilka Lake: an ideal spot for ecotourism *BSIP Newsletter*, 11: 14.
- **Singh, S.** and Khandelwal, A. 2007. Indian Mangroves: A holistic approach. *BSIP Newsletter*, 10: 21-23.
- **Pandey, S.** **2021.** Palaeobotany: Looking into the past for shaping the future. Vigyan Samvad, Vigyan Bharti (Awadh Prant), 1:2.

Conference Reports

- Bhandari, A., Ingle, P.A., Das, N., **Pandey, S.** 2022. National Training Programme on Biodiversity Conservation for Women Scientists and Technologists. Journal of Indian Geological Congress 14 (1&2), 85-86.
- **Pandey, S.** and Quamar, F. 2017. 2nd India International Science Festival (IISF)-2016, Delhi. *Current Science* 13 (5): 842-843.
- Khandelwal, A. and **Singh, S.** 2009. EMECS-8 International Conference on Harmonizing River Catchment and Estuary, Shanghai, China. *BSIP Newsletter* 12: 22-24.
- Khandelwal, A. and **Singh, S.** 2008. 4th International Conference on DELTAS. *BSIP Newsletter*, 11: 20.

Trainings Acquired

- Training in In-House-Lecture series '**Facets of Palaeobotany**' from 25th November to 23th January, 2009 at BSIP, Lucknow, Uttar Pradesh.
- Training in **Foraminiferal Studies** from 24th October to 12th November, 2008 at Wadia Institute of Himalayan Geology, Dehradun under the guidance of Prof. D. S.N. Raju.
- **Professional Geology Training** from 21st April to 11th July, 2009 (including field excursion to Solan, H.P. and adjoining sites) at Lucknow University, Lucknow, Uttar Pradesh.
- Training in **Environment Magnetic Analysis** from 9th to 24th August, 2009 under the guidance of Dr. R. Shankar, Professor of Marine Geology, Mangalore University, Mangalore, Karnataka.
- Training on "**Conservation and Management of Mangroves**" from April 1 to 5th, 2009 at Gujarat Ecological Education and Research (GEER) Foundation, Gandhinagar, Gujarat.
- Training on "**Late Cenozoic Dinoflagellate cysts**" from 14th to 19th February, 2011 at Birbal Sahni Institute of Palaeobotany, Lucknow, India under guidance of Prof. Martin James, Brock University, Canada.
- Training on "**Quaternary setup of Arid NW Himalaya: Main focus on Ladakh**" from 18th August to 6th September, 2012 sponsored by Department and Science and Technology, New Delhi.
- Training on "**Past anthropogenic land-use and land-cover change**" from 23-24th October, 2015 at the University of Chicago, Centre in Paris, France.
- Training on "**LandCover and LandUse**" at the Hebei Normal University, Shijiazhuang, China during March 06-11th, 2017.
- Training on "**Quantitative Pollen reconstructions**" at the Birbal Sahni Institute of Palaeobotany, Lucknow during January 22-24th, 2019.
- Training on "Science Communication and Film-making" at the National Botanical Research Institute, Lucknow during March 28-30th, 2019.

Conferences/ Seminars/ Workshops attended and papers presented

International

- *International Conference on DELTAS: Deltaic Gateways – Linking Source to Sink* held at Dhaka, Bangladesh during January, 6-13th, 2008. (Oral)
- *EMECS-8 International Conference "Harmonizing River Catchment and Estuary"* held at Shanghai, China during October, 26-30th, 2008. (Oral)
- *GEO India 2008* held at Greater Noida, New Delhi during September, 17th -19th, 2008.
- *EMECS-9: "Environmental Management for Enclosed Coastal Seas"* held at Baltimore, Maryland, USA during August 28-31st, 2011. (Oral)
- *PAGES 2nd Young Scientists Meeting and 4th Open Science Meeting* held at Goa during February, 11-16, 2013. (Poster)

- IGCP 588:” Preparing for Coastal Change” held at Anna University and National Centre for Sustainable Coastal Management, Chennai during May, 20- 24, 2013. (Oral)
- Workshop on- “*Land USE 6K- Putting History to work on climate change*” held at the University of Chicago, Centre in Paris, France during Oct. 22-23, 2015.
- *International workshop “Land 6K- land cover and land reconstructions”*, held at the University of Utrecht, Netherland during June,14-16, 2016.
- Participated in the *35th International Geological Congress Conference* held at Cape Town, South Africa during 24th August to 4th September, 2016.
- Participated in the *International workshop “Aquatic Transitions: South East Asia-Oceania workshop”* held at the University of Nottingham, Kuala Lumpur Teaching Centre, Malaysia during February, 14-17, 2017.
- Participated an International LandCover6K workshop and training course at the Hebei Normal University, Shijiazhuang, China during March 06-11th, 2017.
- Participated in the *International Workshop “Measuring components of Resilience in long term ecological datasets-EcoR3”* held at the Finse Alpine Research Station, Finse, Norway during March 27-31, 2017
- Participated an International Conference 3rd Young Science Meeting and 5th Open Science Meeting at the Zaragoza, Spain during May 07-13th, 2017.
- Participated an International Workshop “14th Annual Meeting of the Asia Oceania Geosciences Society Conference” (AOGS) held in Singapore during August 06-11, 2017.
- Participated in the *4th India International Science Festival* held at the Indira Gandhi Pratishthan, Lucknow during October, 05-8, 2018.
- Participated an International Conference 20th Congress INQUA 2019 at the Dublin, Ireland during July 25-31th, 2019.
- Participated an International LandCover6K workshop at the French Institute of Pondicherry, India during September 11-14th, 2019.
- Participated in the *International workshop SISAL* held at the Jiaotong University, Xian, China during October, 14-18, 2019.
- Participated in the *International workshop C-PEAT* held at the Pontianak, Indonesia from 08-11, May 2023.
- Participated in the *46th Session World Heritage Committee International Meet* held at the New Delhi from 21-31, July 2024.

National

- *Indian Science Congress Association Bhopal Chapter* held at Bhopal during March, 5-6th, 2005. (Oral)
- *Second Madhya Pradesh Science Congress-2005* held at Bhopal during December, 17-18th, 2005.
- *National Symposium on Tribal Health at Regional Medical Research Centre for Tribals (ICMR)* held at Jabalpur during October, 19th-20th, 2006.

- XXI Indian Colloquium on Micropalaeontology and Stratigraphy held at Lucknow during November, 16th -17th, 2007. (Poster)
- Plant Life Through Ages held at Lucknow during November, 16th –17th, 2008. (Poster)
- Conservation and Management of Mangroves held at GEER Foundation, Gandhinagar, Gujarat during April, 1st -5th, 2009. (Oral)
- Seminar on Environment Conservation and Management held at Itarsi (M.P.) during October, 30 -31st, 2012. (Oral).
- Colloquium on Micropalaeontology and Stratigraphy held at Dehradun (Uttarakhand) during November, 18-20th, 2013. (Poster)
- National Hindi Scientific Seminar on Climate Change Monsoon variability and Prediction: Scientific Approach held at Indian Institute of Tropical Meteorology (IITM) Pune during 30-31 July, 2014. (Poster)
- National Conference on “*Quaternary Climate Change: New Approaches and Emerging Challenges*” held at Birbal Sahni Institute of Palaeobotany, Lucknow during December, 2014.
- Hindi National Seminar on- “*Global Warming and Climate Change*” held at the INCOIS, Hyderabad during September 2015.
- Participated in the National Hindi Scientific Conference under *Environmental Sciences and Forestry* theme held at the Jiwaji University, Gwalior during December 11-12, 2015
- Participated in the 2nd International Science Festival held at the CSIR-National Physical Laboratory, New Delhi during December, 07-11, 2016.
- Participated in the *Brain storming session and workshop on “Quaternary environments and climates: Focus on Holocene and Anthropocene*” held at the BSIP, Lucknow during February, 21-23, 2017.
- Attended National Conference on “*Silver Jubilee Mangrove ecosystem*” held at National Institute of Oceanography (NIO), Dona Paula, Goa during July 26-27, 2017.
- Attended National Conference on “*Recent studies on the Geology of the Kachchh Basin*” held at the Kachchh University, Bhuj, Gujarat during December 30th 2018-January 1st, 2019.
- Attended National workshop on “*Science Communication and Film Making*” held at the CSIR-National Botanical Research Institute, Lucknow during March, 28-30, 2019.
- Attended National Conference on “*Bicentenary Commemoration of 1819 Intraplate Allah Band Earthquake of Kachchh Basin: Past Chronicle and Future Opportunities*” held at the Kachchh University, Bhuj, Gujarat during June 15th-16th, 2019.
- Participated in the 5th National Convention on Swadeshi Science Movement, AKTU, Lucknow, June 24-26, 2022.
- Participated in the the IODP-India Workshop, NCPOR, Goa, September 22-23, 2022.
- Participated in the “National Programme for Training of Women Scientists and Technologists working in the Government Sector on Biodiversity Conservation”, Wildlife Institute of India, Dehradun, 14th – 18th November, 2022.

- Participated in the India International Science Festival (IISF-2022)-“Artisans Technology Village-Vocal for Local” and Young Scientists and Young Scientist Conference-“Biodiversity, Environment and Climate Change” MANIT, Bhopal, 21-24 January, 2023.
- Participated in the National Climate Conclave 2023, Indira Gandhi Pratishthan, Gomti Nagar, Lucknow, April 10-11, 2023.

Lectures delivered

- *Medicinal plants and their household uses* at Study Hall, Lucknow in 2008.
- *Usage of Domestic plants to cure common diseases* at Kanya Purv Madhyamik Vidyalaya, Bargadi, Bakshi Ka Talab, Lucknow, 2010.
- *Facets of Palaeobotany* during Science camp under INSPIRE Programme sponsored by DST at the Bundelkhand University, Jhansi, U.P., 2014.
- *Chilika Lagoon ke Jevvidhita ka Astitiva: Prabandhan evam Bachav* during National Hindi Scientific Conference under Environmental Sciences and Forestry theme, Gwalior, December, 2015.
- *Palaeobotany and its significance* during science camp under INSPIRE Programme sponsored by DST at the Arunachal University of Studies, Arunachal Pradesh (Feb. 01-05, 2018).
- *Palaeoclimatic records from India: An Overview* during INSA Bilateral Exchange Programme at the Institute of Tibetan Plateau Research, Chinese Academy of Sciences (ITPCAS), Beijing, China (May 08- June 04, 2019).
- *Academic Networking for Early Career Researcher* during 20th Congress INQUA 2019, Dublin, Ireland (July 29, 2019)
- *“Driving factors for the degradation of mangroves in the past: A case study from the Chilika lagoon, Odisha”* presented in an International Mangrove Day workshop (online) at the BSIP, on 26th July, 2021.
- *“Career Prospects in Agriculture and Biotechnology”* delivered at the Sardar Vallabhbhai Patel University of Agricultural and Technology, Meerut on 12th September, 2022.
- *“Biotechnology and Microbiology: A Panacea to combat climate change”* delivered at the Sri Ram Swaroop Memorial University, Lucknow on 28th September, 2022.
- *“Wetlands of UP and Policy Gaps: Integrated Solutions for Climate Change Mitigation and Sustainable Development”* delivered in workshop on ‘Bridging the Climate Change Research and Policy Gap for Enhanced Local Climate Action’ in Uttar Pradesh’ at Department of Environment, Forest & Climate Change, Government of Uttar Pradesh on 29 December 2022.
- *“Relevance of Palaeosciences research in Climate Change Era”* at the Climate Action Now (CAN) workshop at IIT Gandhinagar, Gujarat On 29th January, 2023.
- *“Importance of Wetlands in Changing Climate”* at the Maharana Pratap Inter College, Asti, Lucknow on the World Wetland Day on 2nd February, 2023.
- *“Mangroves and Sustainable Coastal Tourism”* on Short Term Course on “Coastal Tourism and Environment” from 09.03.2023 (Online) organized by UGC-Human Resource Development Centre, Goa University.
- *“Mangroves and Sustainable Coastal Tourism”*, Short Term Course on “Coastal Tourism and Environment” organized (Online) by UGC-Human Resource Development Centre, Goa University, 09.03.2023.

- “*Mangroves and Peatlands in India: Opportunities and Challenges*”, International C-PEAT Workshop at Pontianak, Indonesia, 08-11 May, 2023.
- “*Mangroves as solution to Climate Crisis*” delivered International Mangrove Day on 26 July 2023 at University of Lucknow and BBAU Lucknow.

Overseas Visits

* May, 2023	Pontianak, Indonesia	C-PEAT Workshop
* October, 2019	Xian, China	SISAL Workshop
* July, 2019	Dublin, Ireland	20 th Congress INQUA 2019
* May-June, 2019	Beijing, China	INSA-Bilateral Exchange Programme
* August, 2017	Singapore	14 th Annual Meeting Asia Oceania Geosciences Society Conference (AOGS)
* May, 2017	Morillo de Tou and Zaragoza, Spain	3 rd YSM and 5 th OSM Conference
* March, 2017	Finse, Norway	EcoR ³ workshop
* March, 2017	Shijiazhuang, China	Land Cover 6K workshop
* February, 2017	Kuala Lumpur, Malaysia	Aquatic Transitions: South East Asia-Oceania workshop
* September, 2016	Cape Town, South Africa	35 th IGC
* June, 2016	Amsterdam and Utrecht, Netherland	Land 6K- land cover and land reconstructions workshop
* October, 2015	Paris, France	Land USE 6K- Putting History to work on climate change Workshop
* August, 2011	Baltimore, Maryland, USA	9 th Environmental Management on Enclosed Coastal Seas.
* October, 2008	Shanghai, China	8 th Environmental Management on Enclosed Coastal Seas.
* January 2008	Dhaka, Bangladesh	International Conference on DELTAS



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