

National & International Societal Impact of Scientific Outreach

159+ invited talks, research presentations and academic engagements in nanoscience, science education and societal innovation

From Bihar to national and international scientific platforms | 2005–2026

159	47	84	28
recorded entries	international	national	state-level

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Period covered: 6 August 2005 to 13 July 2026

A concise, evidence-oriented synthesis prepared from the supplied chronological record.

Executive Impact Brief

Central finding. The supplied record demonstrates sustained scientific communication over more than two decades—from school and teacher education in Bihar to national institutions and international scientific platforms. The engagements connect nanomaterials research with education, health, Ayurveda, agriculture, environment, clean energy, intellectual property and self-reliant development.

The compilation documents a long continuum of academic service: resource-person assignments, invited and public lectures, research presentations, session-chair and technical-committee roles, government and institutional programmes, teacher training, media outreach and representation of research activities. Its value lies not merely in the number of appearances, but in the repeated translation of specialized research into themes of public and national relevance.

Why the Record Has Societal Relevance

Knowledge dissemination. Research themes were communicated to school students, teachers, university learners, scientists, engineers, health professionals, government bodies, professional societies and public audiences.

Interdisciplinary translation. The subjects consistently bridge fundamental Science and nanoscience with agriculture, Ayurveda, nanomedicine, environment, energy, electronics and education.

Institutional visibility. Repeated invitations and representation across state, national and international platforms demonstrate the outward academic engagement of the Nanoscience and Nanotechnology programme at Aryabhata Knowledge University.

National-development alignment. Themes relating to scientific temper, sustainability, intellectual property, Atmanirbhar Bharat, Indian Knowledge Systems and Viksit Bharat connect scientific work with wider policy and societal priorities.

Impact Domains Evidenced by the Engagements as Resource Person

Impact domain	Representative evidence in the record	Societal relevance
Science education & scientific temper	IYP-2005 and IYA-2009 resource-person roles; low-cost/no-cost experiments; teacher orientation; programmes with HBCSE, IIT Kanpur, IIT Patna, SCERT and DIET.	Sustained dissemination of experiment-led science learning to teachers, students and public audiences, including outreach in Bihar.
Nanomaterials & frontier research	Ferrites, magnetic and multiferroic materials, nanoceramics, carbon nanotubes, photoluminescent materials and advanced characterization presented across technical platforms.	Connects laboratory research with engineering, electronics, biomedical and materials-development applications.
Ayurveda, nanomedicine & health	Ayurvedic Bhasma research presented at Stockholm (2016), National Institute of Ayurveda, AYUSH-linked CME programmes, pharmaceutical and health-science forums.	Builds a scientific dialogue between Indian Knowledge Systems, modern characterization, quality control and translational health research.
Agriculture, environment & circular economy	Talks on food and agriculture, water-hyacinth-derived materials, green synthesis, Jal-Jeevan-Hariyali, sustainable agriculture and waste-eggshell nanofertilizer.	Highlights low-cost pathways for resource recovery, sustainable agriculture, environmental protection and rural relevance.
Clean energy & sustainable technology	Hydroelectric cell, energy-and-environment nanomaterials, functional ceramics, optoelectronic and magnetic materials.	Disseminates research directions relevant to decentralized green energy, functional devices and sustainable development.
Innovation, intellectual property & self-reliance	IPR and startup policy, academic-industry linkages, innovation ecosystems, Atmanirbhar Bharat and Viksit Bharat @2047.	Links research output with intellectual-property awareness, entrepreneurship, human-capital development and national missions.
National visibility & international academic reach	Engagements with universities, IITs/NITs, government departments, professional bodies, public media and international conferences, including Sweden and international online platforms.	Demonstrates sustained institutional representation and knowledge exchange from Bihar to wider national and international audiences.

Interpretive and Evidentiary Note

Those records should be cited or annexed wherever formal proof of a particular engagement is required.

Chronological Record of Academic Engagements

Invited talks, lectures, research presentations, resource-person roles and other recorded academic engagements in different parts of country, world and state

Record note: The dates, engagement titles, platforms, institutions and classifications are reproduced from the supplied compilation, with whitespace normalized and repeated table columns consolidated for readability. Record numbers are newly assigned in sequence because the source serial numbering contains a blank row and repeated serial numbers.

2005–2010 | Foundations in Physics Education and Nanomaterials

No.	Date	Academic engagement / subject	Event, organizer & place	Level
1	6–9 Aug 2005	Master Resource Person – International Year of Physics (IYP-2005)	International Year of Physics Programme Institute of Physics (IOP), Bhubaneswar & Department of Atomic Energy, Govt. of India	International
2	5 Jun 2006	Produced a module on Appreciating Physics in Everyday Life and Physics for Consumer	National Workshop Guwahati	National
3	26 Jun 2006	Teachers Orientation Workshop on Physics Learning	Teachers Orientation Workshop Varanasi	National
4	8 Jul 2006	Learning Physics through Experiments	Orientation Programme for B.Sc. Students and Faculty M.D.D.M. College, Muzaffarpur	National
5	6 Oct 2006	Innovative Method of Physics Learning	Teachers Orientation Workshop Bokaro Steel City, Jharkhand	National
6	26–28 Feb 2007	Some Possible Technological Applications of Nanocrystalline Ferrites Synthesized through Chemical Route	2nd Bihar Vigyan Congress DST, Govt. of Bihar	National
7	28–29 Mar 2007	Synthesis of Ferrite Nanoparticles through Citrate Precursor Technique	National Conference on Condensed Matter Physics T.M. Bhagalpur University	National
8	10 Dec 2007	Ni–Zn Ferrite Nanoparticles: Synthesis and Characterization	National Conference on Nanomaterials and Nanotechnology University of Lucknow	National
9	26 Dec 2007	Nurturing and Identification of Talents in Science Education and Research	Science Express – A Journey into the Future of Scientific Discovery DST, Govt. of India & Max Planck Society, Germany	National
10	17 Apr 2008	Growth, Characterization and Applications of Ferrite Nanoparticles through Chemical Route	National Conference on Technical Discussion of Different Aspects of Physics L.S. College, Muzaffarpur	National
11	Apr 2008–2009	Science for Society and Humanity	Technical Science & Technology Based Research Festival BIT Patna	National
12	6–9 May 2008	Zinc Ferrite Nanoparticles: Synthesis and Characterization	1st Global Bihar Science Conference Patna University & Bihar Brain Development Society	International
13	27 Jun 2008	Growth, Characterization and Applications of Ferrite Nanoparticles	Invited Technical Talk NIT Patna	National
14	12 Sep 2008	Structural and Magnetic Behaviour of Cobalt Ferrite Nanoparticles Prepared Using Chemical Route	National Seminar on Applications of Nanoscience and Nanotechnology Patna Women's College, Patna University	National
15	30 Jan–1 Feb 2009	Photoluminescence Behaviour of Ferrite Nanoparticles	2nd Global Bihar Science Conference Magadh University & Bihar Brain Development Society	National

No.	Date	Academic engagement / subject	Event, organizer & place	Level
16	27–30 Jun 2009	Magnetic Nanoparticles in Biological Sciences	International Conference on Recent Trends in Life Sciences Research, Natural Resources Management, Sustainable Development and Human Welfare Vinoba Bhawe University, Hazaribagh	International
17	29 Jun–1 Jul 2009	Master Resource Person – International Year of Astronomy (IYA-2009)	International Year of Astronomy Programme Guru Gobind Singh University & DST, Govt. of India	International
18	15 Jul 2009	Role of Kepler and Galileo in Shaping Society	International Year of Astronomy Teachers' Workshop S.K. Science Centre, Patna	International
19	21–23 Oct 2009	Ni–Zn Ferrite Nanoparticles and Their Applications	International Conference on Magnetic Materials and Their Applications for the 21st Century National Physical Laboratory (NPL), New Delhi	International
20	24–27 Jan 2010	Winter School on Nanotechnology	Winter School on Nanotechnology Nanotechnology Application Centre, University of Allahabad	National
21	9 Feb 2010	Photoluminescent Properties of Ferrite Nanomaterials	Academic Staff College Programme Patna University	National
22	24–26 Dec 2010	Research Exposure on Carbon Nanotube Synthesis and Characterization	Research Exposure Programme University of Rajasthan, Jaipur	National

2011–2016 | Science Outreach and International Research Visibility

No.	Date	Academic engagement / subject	Event, organizer & place	Level
23	28 Feb 2011	Fingerprint of the Universe and National Science Day	National Science Day Celebration Simultala Residential School, MHRD, Govt. of Bihar	National
24	19 Dec 2011	Revitalization of Physics Education through Low-cost/No-cost Experiments	National Workshop Maharana Pratap College, Mohania, Kaimur	State
25	6–8 Jun 2012	Innovative Method of Teaching Physics	National Workshop Homi Bhabha Centre for Science Education (HBCSE), Mumbai	National
26	3–8 Oct 2012	Emotional Intelligence, Stress Management, Winning Negotiation and Teaching Ethics	Faculty Development Workshop Patna Women's College, Patna University	National
27	5 Aug 2013	Innovative Method of Teaching Physics and Growth in Higher Education in Science	Refresher Course for Physics Teachers IIT Patna	National
28	28 Sep 2013	Developing Scientific Temper through Low-cost/No-cost Experiments	DST-INSPIRE Programme A.N. College, Patna	National
29	16–18 Nov 2013	Magnetic and Dielectric Properties of Ni–Zn Ferrite Nanoparticles	5th Global Bihar Science Conference A.M. College, Patna & Bihar Brain Development Society	National
30	17 Dec 2013	Update of Intellectual Property Rights	Refresher Course DST, Govt. of Uttar Pradesh, Lucknow	National
31	12 Jan 2014	Development of Communication Skills, Computer Applications and Stress Management	Training-cum-Orientation Workshop Aryabhatta Knowledge University & Institution of Engineers (India), Patna	State
32	13–14 Mar 2014	Synthesis of NiFe ₂ O ₄ and MgFe ₂ O ₄ Nanoparticles through Citrate Precursor Method	National Conference on Quality Education and Excellence in Engineering & Research VVIT, Purnea	National
33	26 May 2014	Physics and Its Scope: From Nanoworld to Universe	National Workshop IIT Kanpur	National

No.	Date	Academic engagement / subject	Event, organizer & place	Level
34	7 Jul 2014	Magnetic Nanomaterials and Their Technological Applications	UGC Sponsored National Seminar Jai Prakash University	National
35	23–25 Dec 2014	Studies of Ferrite Magnetic Nanoparticles and Their Possible Applications	6th Global Bihar Science Conference M.M. College, Patna University & Bihar Brain Development Society	National
36	29–30 Mar 2015	Curriculum Transaction and Preparation of Study/Course Materials for P.G. Programme	Curriculum Development Workshop Nalanda Open University, Patna	State
37	13 Jun 2015	Luminescence Properties of Magnetic Nanoparticles and Their Applications	International Year of Light Programme Kanpur University	International
38	16 Oct 2015	Nanoscience and Its Applications	Academic Seminar Bihar Sharif, Nalanda	State
39	30 Jan–1 Feb 2016	Learning Science through Experiment and Inspire for Research	National Conference on Physics Education: Issues, Challenges and Prospects M.M. College, Patna University	National
40	12 Aug 2016	Science Education and Converging Technologies	UGC Sponsored National Workshop Patna University	National
41	23–25 Aug 2016	Study of Ayurvedic Nanocrystalline Tamra and Sankh Bhasma Physical Characteristics by Employing Modern Scientific Tools and Applications	European Advanced Materials Congress (EAMC-2016) International Association of Advanced Materials & Linköping University, Stockholm, Sweden	International

2017–2020 | Converging Technologies and Societal Applications

No.	Date	Academic engagement / subject	Event, organizer & place	Level
42	8 Feb 2017	Participation in Nobel Laureates and Science Icons Meet	India–European Union Ministerial Conference DST, Govt. of India	International
43	29 Mar 2017	Nanoscience and Nanotechnology: Frontier Area of Science of the 21st Century and Career Prospects for Engineering Graduates	Faculty Orientation Programme Chandi Engineering College, Nalanda	National
44	20 Jan 2018	Nanotechnology in Food and Agriculture and Possibilities for the Development of Bihar	National Seminar Jai Prakash University	National
45	Apr–May 2018	Rashtriya Avishkar Abhiyan and Unnat Bharat Abhiyan Activities	National Workshop Varanasi, Uttar Pradesh	National
46	21 May 2018	Nanoscience and Nanotechnology for the Development of Bihar	Public Science Lecture S.K. Science Centre, Ministry of Culture, Govt. of India	National
47	19–21 Jul & 6–9 Aug 2018	Rashtriya Avishkar Abhiyan Programme – Resource Person and Local Coordinator	Rashtriya Avishkar Abhiyan IIT Patna	National
48	31 Jul 2018	Innovation in Physics Learning for Technology Development and Research Culture	ATL Fest Delhi Public School, Patna	State
49	27 Nov 2018	Nano-Vigyan – Prarambhik Parichay	School Science Awareness Programme Mount Litera Public School, Begusarai	State
50	4–7 Dec 2018	Magnetic Nanomaterials and Their Applications in the 21st Century	7th Global Bihar Science Conference Patliputra University & Bihar Brain Development Society	National
51	18 Dec 2018	Nanotechnology as a Converging Technology of the 21st Century	Human Resource Development Centre Orientation Programme	National

No.	Date	Academic engagement / subject	Event, organizer & place	Level
			Patna University	
52	27 Jan 2019	Need for Research and Innovation in Teaching Methodology	National Conference Kanpur University	National
53	9 Feb 2019	Nanotechnology as a Frontier Subject for Self-Reliant Society	Human Resource Development Centre Patna University	National
54	28 Feb 2019	Science for the People and People for Science	National Science Day Celebration BCST, DST, Govt. of Bihar	National
55	27 Mar 2019	Nanotechnology as a Converging Technology for Engineering Graduates	Orientation Course Patna University	National
56	28 May 2019	Need for Research and Innovation in Teaching Methodology	POLLEX-T IV Science Workshop Asian Development Educational Research Foundation	National
57	20 Jul 2019	Health and Engineering	Seminar Mahavir Cancer Research Institute, Patna	National
58	14 Jul 2019	Effect of Annealing Temperature on the Structural and Magnetic Properties of Barium Hexaferrite Nanomaterials	International Conference on Nanotechnology, Renewable Materials Engineering & Environmental Engineering Industrial Electronics and Electrical Engineers Forum, Kolkata	International
59	20 Aug 2019	Converging Technology for Engineering Graduates	Academic Lecture NSIT, Patna	State
60	22 Aug 2019	Ayurvedic Bhasma as Nanomedicine	Academic Seminar Munger University	National
61	6 Dec 2020	A Novel Synthesis of Cobalt Ferrite Nanoparticles from Lemon Juice via Sol-Gel Route	8th Global Bihar Science Conference Bihar Brains & Patna University	International
62	15-17 Dec 2020	Studies of Structural, Electrical and Optical Properties of $\text{MgNb}_2\text{O}_6\text{-Mg}_4\text{Nb}_2\text{O}_9$ Nanocomposite	International Conference on Materials Processing and Characterization (ICMPC-2020) IIT Indore	International
63	15-17 Dec 2020	Structural, Magnetic and Multiferroic Properties of Sm^{3+} -Substituted Barium Hexaferrite Nanoceramics	ICMPC-2020 IIT Indore	International

2021 | Multidisciplinary Research Dissemination

No.	Date	Academic engagement / subject	Event, organizer & place	Level
64	11-13 Feb 2021	Effect of La^{3+} Substitution on Structural and Multiferroic Properties of $\text{Bi}_{1-x}\text{La}_x\text{FeO}_3$ Nanoceramics	ICCEMME-2021 GL Bajaj Institute of Technology & Management	International
65	11-13 Feb 2021	Effect of Gd^{3+} Substitution on Structural and Magnetic Properties of Barium Hexaferrite Nanomaterials	ICCEMME-2021 GL Bajaj Institute of Technology & Management	International
66	18-20 Feb 2021	Structural, Optical and Magnetic Properties of Cobalt Ferrite Nanomaterials Synthesized by Green Technology Using Lemon Juice	ICAMME-2021 MANIT, Bhopal	International
67	18-20 Feb 2021	Investigation of Optoelectronic Properties and Morphological Characterization of Magnesium Niobate Ceramics	ICAMME-2021 MANIT, Bhopal	International
68	19-21 Mar 2021	Structural, Elastic and Multiferroic Properties of Strontium Ferrite Nanoceramics	ICMMM-2021 VIT, Vellore	International

No.	Date	Academic engagement / subject	Event, organizer & place	Level
69	7–8 Apr 2021	Tailoring the Structural, Optical and Multiferroic Properties of Low-Temperature Synthesized Cobalt Ferrite Nanomaterials	ICFTMM-2021 Delhi Technological University	International
70	7–8 Apr 2021	Investigating Structural, Magnetic and Multiferroic Properties of Gd-Substituted Strontium Hexaferrite	ICFTMM-2021 Delhi Technological University	International
71	7–8 Apr 2021	Hydroelectric Cell: A Green Energy Source for Sustainable Development	ICFTMM-2021 Delhi Technological University	International
72	9–11 Apr 2021	Magnesium Ferrite Nanostructure Materials: Energy, Environment, Electronics and Biomedical Applications	International Conference on Nanomaterial (ICN-2021) Mahatma Gandhi University	International
73	10–11 May 2021	Sol–Gel Assisted Synthesis and Tuning of Structural, Photoluminescence, Magnetic and Multiferroic Properties of Zinc Ferrite	Technology Innovation in Mechanical Engineering-2021 Sagar Institute of Science & Technology, Bhopal	International
74	12–13 Jul 2021	National Intellectual Property Rights Policy and Startup Policy	National Seminar Chanakya National Law University, Patna	International
75	23 Jul 2021	Ethics and Scientific Temper for Scientific Society	Bihar Bihan Programme Prasar Bharati, Patna	International
76	29–30 Jul 2021	Low-Temperature Synthesis and Effect of Ce ³⁺ Substitution on Cobalt Ferrite Nanomaterials	Global Conference on Recent Advances in Sustainable Materials A.J. Institute of Engineering & Technology, Karnataka	International
77	29–30 Jul 2021	Structural Characterization and Magneto-Optic Properties of CoFe ₂ O ₄ Nanomaterials	Global Conference on Recent Advances in Sustainable Materials A.J. Institute of Engineering & Technology, Karnataka	International
78	2 Aug 2021	Continuing Medical Education Programme for Ayurvedic Medical Officers	CME Programme Ministry of AYUSH & Govt. Ayurvedic College Hospital, Patna	National
79	12–13 Aug 2021	Physical Properties of Water Hyacinth Bhasma as Functional Nanomaterial	ICAPSM-2021 KPR Institute of Engineering & Technology, Coimbatore	National
80	12–13 Aug 2021	Structural, Optical and Magnetic Properties of Yttrium Aluminium Borate Nanomaterials	ICAPSM-2021 KPR Institute of Engineering & Technology, Coimbatore	International
81	23 Sep 2021	Nanoscience and Nanotechnology for Sustainable Development	Academic Activity Nalanda University	International
82	25 Sep 2021	Ayurvedic Nanomedicine	World Pharmacist Day Indian Pharmaceutical Society, Bihar State Branch	International
83	29 Oct 2021	Science, Technology and Innovation Ecosystem for Atmanirbhar Bharat	Azadi Ka Amrit Mahotsav BCST, DST, Govt. of Bihar	National
84	30 Nov 2021	R&D Infrastructure for Sustainable Science	Azadi Ka Amrit Mahotsav BCST, DST, Govt. of Bihar	National
85	13 Dec 2021	Educational Visit for PG Nanotechnology Students	Academic Visit Dr. C.V. Raman University, Vaishali	National
86	17–19 Dec 2021	Science for Sustainable Living	State Level Children's Science Congress Science for Society & BCST	National

No.	Date	Academic engagement / subject	Event, organizer & place	Level
87	21–22 Dec 2021	Nanotechnology in Ancient Wisdom and Assets for Atmanirbhar Bharat	ICEBRUD-2021 Patna University	National
88	2 Aug 2021	Continuing Medical Education Programme for Ayurvedic Medical Officers and Private Practitioners	Continuing Medical Education (CME) Programme Ministry of AYUSH, Govt. of India & Govt. Ayurvedic College Hospital, Patna	International
89	12–13 Aug 2021	Effect of Radiation of Moon on the Physical Properties of Water Hyacinth (Jalkumbhi) Bhasma as a Functional Nanomaterial	2nd International Conference on Advances in Physical Sciences and Materials (ICAPSM-2021) KPR Institute of Engineering & Technology, Coimbatore	International
90	12–13 Aug 2021	Structural, Optical and Magnetic Properties of Yttrium Aluminum Borate (YAB) Nanomaterials	ICAPSM-2021 KPR Institute of Engineering & Technology, Coimbatore	International
91	23 Aug 2021	Converging Science and Emerging Technologies	Bihar Bihan Programme Doordarshan, Patna	National
92	26 Aug 2021	Future of Ayurveda in the Light of Nanoscience and Nanotechnology	Bihar State Ayurvedic Congress Govt. Ayurvedic College Hospital, Patna	National
93	13 Sep 2021	Innovations for Technological Advancement	Joint Webinar Nanoscience Centre & Atal Incubation Centre, Patna	National
94	23 Sep 2021	Nanoscience and Nanotechnology for Sustainable Development	Academic Activity Nalanda University	National
95	25 Sep 2021	Ayurvedic Nanomedicine	World Pharmacist Day Celebration Indian Pharmaceutical Society (Bihar State Branch) & Shree Baidyanath Ayurveda	National
96	29 Sep 2021	Human Resource Development	Azadi Ka Amrit Mahotsav: Science, Technology and Innovation Ecosystem for Atmanirbhar Bharat DST, Govt. of Bihar	National
97	29 Oct 2021	Science, Technology and Innovation Ecosystem for Atmanirbhar Bharat	Azadi Ka Amrit Mahotsav Bihar Council on Science and Technology (BCST), DST, Govt. of Bihar	National
98	30 Nov 2021	R&D Infrastructure for Sustainable Science	Azadi Ka Amrit Mahotsav BCST, DST, Govt. of Bihar	National
99	13 Dec 2021	Educational Visit of PG Students in Nanotechnology	Academic Programme Dr. C.V. Raman University, Vaishali	National
100	17–19 Dec 2021	Science for Sustainable Living	State Level Children's Science Congress Science for Society, SCERT Bihar & BCST	National
101	21–22 Dec 2021	Nanotechnology in Ancient Wisdom and Assets for Atmanirbhar Bharat and Development of Society	International Conference on Emerging Bioscience Research for Rural and Urban Development (ICEBRUD-2021) Department of Zoology, Patna University	International

2022–2023 | Public Engagement, Education and Nanoscience and Nanotechnology in Indian Knowledge Systems

No.	Date	Academic engagement / subject	Event, organizer & place	Level
102	28 Feb–1 Mar 2022	Structural Characterization and Physical Properties of Ash as a Functional Nanomaterial	International Conference on Role of Indian Science in Freedom Movement Jawaharlal Nehru University (JNU), New Delhi	International
103	6 Mar 2022	Science Education and Innovations for Global Recognition	Institutional Seminar Satyam Shivam Sundaram Group of Institutions	National
104	27 Mar 2022	Learning Science through Low-Cost Experiments and National Education Policy	Teachers' Training Programme T.N. Agrawal Teachers Training College, Arrah	State
105	29 Apr 2022	Consciousness through Prayer and Knowledge	Graduation Ceremony Holy Family College of Nursing, Kurji, Patna	State
106	5–7 May 2022	Session Chair (Nano-enabled Smart Technologies)	International Conference on Empowering Smart Future through Scientific Development and Technology MOL2NET (Switzerland), USEDAT (USA-Europe)	International
107	22 May 2022	Nanotechnology in Daily Life	Orientation Programme for Science Graduates B.D. College, Patliputra University	State
108	23 May 2022	National Education Policy and Role of Nanotechnology for Self-Reliant Society	Workshop for District Education Officers SCERT, Department of Education, Govt. of Bihar	National
109	21 Jun 2022	Exploring Scientific Innovations of Ancient Indian Wisdom for Academic–Industry Tie-up	Vigyan Utsav BCST, DST, Govt. of Bihar	National
110	4 Aug 2022	Innovations in Science and Research for Sustained Life	Bihar Bihan Programme Doordarshan Bihar	State
111	28 Aug 2022	Nanomedicine: Fundamentals and Applications	Bihar Optometry Conference (SIGHT 1.0) Bihar Optometry Association	National
112	13 Sep 2022	Sahitya and Science for Shaping Society	Felicitation Ceremony Patna	State
113	5 Nov 2022	Understanding Operation of Life Cycle and Physical World at Nanoscale for Nation Building	Rashtriya Ekta Diwas Celebration International School of Management, Patna	National
114	11 Nov 2022	Exploring Scientific Evidence for Peace, Harmony and Purity of Environment	International Webinar on Mental Health Bihar Vidyapeeth, Patna	International
115	9 Dec 2022	Public Understanding of Nanotechnology and Its Applications for Society	4th Faculty Induction Programme UGC-HRDC, Patna University	National
116	13 Dec 2022	Nanoscience and Nanotechnology for Agriculture and Learning Science through Low-Cost Experiments	National Seminar on Role of Nanotechnology in Agriculture M.P. College, Mohania, Kaimur	National
117	14 Dec 2022	Ceramic Engineering Nanomaterials and Their Applications	Energy Conservation Day Seminar Institution of Engineers (India), Bihar State Centre	National
118	25 Dec 2022	Consciousness through Prayer	Christmas Day Celebration St. Xavier's College of Management & Technology, Patna	State
119	16–20 Jan 2023	Understanding Nature and Nature-Assisted Science Teaching (Especially Physics) through Low-Cost Experiments	Revitalization of School Physics Education through Concept-Oriented Teaching in Bihar IIT Patna, Department of Education, Govt. of Bihar & National Anveshika Network	State

No.	Date	Academic engagement / subject	Event, organizer & place	Level
120	4 Feb 2023	Ethical Committee Member for MD Research Proposals	Research Committee Meeting Govt. Ayurvedic College, Patna	State
121	9–10 Feb 2023	Nanotechnology in Ancient Times and Recent Progress	International Seminar on Atomic Process, LASER, Nanomaterials and Terahertz Technology for Optical Fibre Communication MLS College, Madhubani, LNMU	International
122	23–25 Feb 2023	Physical Properties of Ayurvedic Bhasma as Nanomaterials by Employing Modern Scientific Tools and Their Applications	International Conference on Ayurvedic Pharmaceutical Sciences-2023 National Institute of Ayurveda, Jaipur	International
123	21 Mar 2023	Learning Science through Low-Cost/No-Cost Experiments	Teachers' Training Programme DIET Gaya, Department of Education, Govt. of Bihar	National
124	23 Mar 2023	Nanoscience and Nanotechnology for Jal-Jeevan and Hariyali	Bihar Diwas Programme Bihar State Disaster Management Authority, Govt. of Bihar	National
125	24 Mar 2023	Session Chair – NanoBiotechnology	International Conference on Emerging Trends in Multidisciplinary Research Patna Women's College (RUSA Sponsored)	International
126	26 Mar 2023	Understanding Science of Small Things	Public Science Awareness Programme Akhand Jyoti Eye Hospital, Chapra	State
127	1 Apr 2023	Operation of Physical World and Life Cycle at Nanoscale	National Seminar Vishwa Ayurved Parishad	National
128	20 Apr 2023	Various Techniques for Synthesis of Micron- to Nano-Sized Materials	National Workshop A.M. College, Gaya	National
129	29 Apr 2023	Nature-Assisted Science Learning through Low-Cost Experiments; Role of Nanotechnology, Artificial Intelligence and Natural Intelligence	Expert Lecture Atal Incubation Centre, Bihar Vidyapeeth	National
130	May–Jun 2023	Coordinator/Evaluator, National Anveshika Science Skill Test (NEAST)	National Anveshika Science Skill Test National Anveshika Network of India, IIT Kanpur	National
131	4 Jun 2023	Convergence of Basic and Applied Science	Bihar Bihan Live Doordarshan Bihar	State
132	Jun 2023	Nature-Assisted Science Teaching and Related Innovations	National Workshop on Innovative Physics Teaching National Anveshika Network of India, IIT Kanpur & Anand College, Agra	National
133	10 Jul 2023	Intellectual Property Rights and Human Capital Development	National Seminar DIPTI-IPR Chair, Ministry of Commerce & Industry & Chanakya National Law University	National
134	16 Jul 2023	Functional Engineering Nanomaterials and Their Applications from Engineering to Nanomedicine	Technical Seminar Sityog Institute of Technology, Aurangabad	National
135	19 Aug 2023	Nanotechnology in Stem Cell Science and Its Importance	Academic Lecture Bihar University of Health Sciences, Patna	State
136	30 Sep 2023	Multidisciplinary Science and Innovation	Academic Lecture B.N. College, Patna University	Invited Speaker
137	30 Oct 2023	Nanomaterials and Their Multifunctional Applications for an Atmanirbhar Society	Academic Seminar B.N. College, Patna University	State
138	2 Dec 2023	Interdisciplinary Research through Experiment and Learning	31st State Level National Children's Science Congress	National

No.	Date	Academic engagement / subject	Event, organizer & place	Level
			DST, Govt. of India	
139	14 Dec 2023	New Education Policy and Multidisciplinary Science	Bihar Bihan Live Doordarshan Bihar	State
140	19 Dec 2023	Nanotechnology in Ancient Wisdom: Gift of Nature and Brainchild of Scientists for Atmanirbhar Society	International Conference on Emerging Trends in Nanotechnology, Functional Materials and Optical Fibre Millat College, Darbhanga	International
141	2023	Technical Committee Member	International Conference on New Magnetic Machinery and Vehicle Engineering China	International
142	2023	Aryabhatta Knowledge University Representative – Presentation of Research Activities	SATHI Programme DST, Govt. of India, Bengaluru	National

2024–2026 | Sustainability, Translation and Viksit Bharat

No.	Date	Academic engagement / subject	Event, organizer & place	Level
143	5 Jan 2024	Nanomaterials for Energy and Environment Prepared Using Green Approach	International Conference on Emerging Trends in Humanities, Science and Technology Dr. C.V. Raman University, Vaishali	International
144	13 Feb 2024	Nanotechnology for Sustainable Agriculture	National Conclave on Sustainability, Productivity and Green Growth ICAR, Patna	National
145	1 Mar 2024	Current Techniques Used in Characterization and Quality Control of ASU Drugs: Ayurvedic Bhasma as Nanomedicine	National CME Workshop National Institute of Ayurveda, Jaipur, Ministry of AYUSH	National
146	17 Mar 2024	Transforming Knowledge into Intellectual Property Assets for Viksit Bharat @2047	National Seminar Bihar Vidyapeeth & DIPTI-IPR Chair, Chanakya National Law University	National
147	1 May 2024	Natural Nanomedicine for Holistic Health	Public Health Awareness Programme Gayatri Eye Hospital, Chapra	State
148	11 Apr 2025	Recent Advancements in Materials Research and Modern Physics	Invited Lecture/Research Presentation Magadh University	State
149	26–27 Jun 2025	Evaluating the Impact of Waste Eggshell-Derived Calcium-Enriched Nano fertilizer on Carrot Plant Development	7th International Conference on Materials Science and Manufacturing Technology (ICMSMT-2025) Akshaya College of Engineering & Technology, Coimbatore.	International
150	20 Nov 2025	Guest of Honour at Science Exhibition	Science Exhibition Patna Central School	State
151	21 Dec 2025	Functional Engineering Materials and Emerging Research Directions	National Workshop Department of Materials Engineering, IIT Patna	State
152	13 Mar 2026	Glorious Indian Knowledge System and Ayurvedic Nanomedicine: Translational Science Pathways towards Viksit Bharat 2047	International Conference Lalit Narayan Mithila University (LNMU)	International