

Curriculum vitae

Shri. GOURISHANKAR SAHOO, M Sc., Ph D

Personal Details

Address: Room No. 304, Central University of Himachal Pradesh, Shahpur Parishar-176206, HP
Telephone: 7978421835
E-mail: gourishankar.sahoo@gmail.com
Citizenship: India

Professional Qualifications (Relevant)

SI No.	Degree/Diploma	Subject	School/College/University	Division
1	Ph. D.	Physics	Ravenshaw University, Cuttack	NA
2	M. Sc.	Physics	Ravenshaw College, Cuttack	1 st
3	B. Sc. (Honours with distinction)	Physics (Hons)	Ravenshaw College, Cuttack	1 st
4	Higher Secondary Examination	PCMB	Ravenshaw Jr. College, Cuttack	1 st
5	High School Certificate	Sci, SS, Math, Odia, English, Sanskrit	B. M. High School	1 st

Employment History

1. Assistant Professor, Department of Physics and Astronomical Science, Central University of HP

2. Odisha Civil Services (2015 Batch)

Personal Distinctions

1. Column Literature Samman – 2023 (स्थंभ साहित्य सम्मान) for writing regular columns in reputed vernacular newspapers and magazines. The award was bestowed upon by a literary organization “Bhadrañi” in the presence of Dr. Ramachandra Behera, Formerly President, Orissa Sahitya Academy, Bhubaneswar.
2. Received the certificate of Merit award for outstanding Poster, presented at 27th PSSI (Plasma Science Society of India) National Symposium (Plasma-2012) 10-13 December 2012 held at Pondicherry University in association with Plasma Science Society of India (PSSI).

Specialization:

Material Science, Plasma Physics, Cosmology, BKS

Invited/Oral Seminars/Conference Presentations (Most Recent)

1. "Synthesis of Magnetic Nanoparticles Through Thermal Plasma Route" Department of Physics, Christ College Cuttack, Odisha on 13th January 2023. (Invited)
2. "On the Panchen's Curve for Low Temperature Plasma from Washer Plasma Gun" presented at 15th International Conference on Plasma Science and Application (ICPSA-2022) held at Gauhati University, Assam, India from 28th – 30th Dec 2022 (Oral).

Professional Contributions (last 5 years)

- Member: National Executive Committee, Power Beam Society of India (PSI)
<http://www.powerbeamsociety.in/about.php>
- Editor: Siddhanta (Since 2022)
- Formerly Editor: Prabodhan (Since 2016) *Currently Editorial Board Member
- Formerly Sub Editor: Jagaran (Since 1921)
- Editor : Souvenir (100 year celebration of East Hostel, Ravenshaw University, Cuttack)

Teaching

1. Mathematical Physics (PAS 5202, PAS 8103, PAS 402)
2. Quantum Mechanics (PAS 355)
3. Plasma Physics (Special Paper) (PAS 9201D)
4. Research Methodology (PAS 1001)
5. Theory of Equation and Analytic Geometry (MTH 103)
6. Accelerator and Reactor Physics (PAS 528)
7. Lab Courses

Doctoral/Master's Thesis Supervision

Doctoral (In Progress):

1. Shri. Suryakanta Swain (CUHP21RDPHY18)
2. Ms. Shruti Rialach (CUHP21RDPHY16)

Masters: (Completed)

1. Shri. Ankit Nehria, (Roll No. CUHP19PGPAS 02)
 2. Ms. Shreya Aggarwal (Roll No. CUHP19PGPAS 19)
 3. Ms. Priya Chandel (Roll No. CUHP20PGPAS 20)
 4. Shri. Sahil (Roll No. CUHP20PGPAS 24)
 5. Ms. Shamli Sandhu (Roll No. CUHP20PGPAS 27)
 6. Ms. Sonum (Roll No. CUHP20PGPAS 30)
 7. Shri. Shivam Thakur (Roll No. CUHP21PGPAS 28)
-

Publications

Authored Books/Book Chapters (Scientific)

Sl No.	Title of chapter	Name of the author/s	Title of the Book	Publisher	Year	ISBN Number
1.	Physics in India: Foundations and Frontiers	Gourishankar Sahoo	Indian Knowledge Systems and its relevance	Shree Jagannath Sanskrit University, Puri, Odisha	In Press	
2.	On the effect of Base Pressure upon plasma containment	Gourishankar Sahoo, Rita Paikaray, Partha Sarathi Das, Joydeep Ghosh, Amulya K. Sanyasi	Plasma and Fusion Science, From Fundamental Research to Technological Applications	Apple Academic Press, New Jersey, USA	2018	978-81-77188-45-32

Edited Books (Academic/Policy Matters)

Sl No.	Title of the Book	Name of the Editor/s	Publisher	Year	ISBN Number
1.	The Vision of NEP 2020 Integrating Bharatiya Knowledge System in Physics Text Books (1/e)	Gourishankar Sahoo	Vidya Bharati Uchcha Shiksha Sansthan and Pathak Publisher and Distributors, New Delhi Supported by: IKS Division of Ministry of Education, AICTE, Gol	2023	978-93-91952-28-0
2.	Ācharya Jagdish Chandra Bose (Odia) (1/e)	Harihar Mishra, Gourishankar Sahoo , Jyoti Ranjan Jena	Vijnana Bharati, Utkal Pranta and Utkalika, Cuttack	2023	978-93-85463-18-1
3.	Nobel – 2021 (Odia)	Harihar Mishra,	Maa Printers,	2022	978-93-94963-

	(1/e)	Prabhas Ranjan Tripathy, Gourishankar Sahoo	Cuttack		05-4
4.	Nobel – 2020 (Odia) (1/e)	Harihar Mishra, Prabhas Ranjan Tripathy, Gourishankar Sahoo	Utkalika, Cuttack	2021	978-93- 85463- 16-7
5.	Dictionary of Science and Technology (5/e)	Harihar Mishra, Gourishankar Sahoo , Sujata Mishra	A. K. Mishra Publishers Pvt. Ltd., Bhubaneswar	2010	978-93- 85342- 66-0

Authored Book/s (Popular Science):

SI No.	Title of the Book	Name of the Author/s	Publisher	Year	ISBN Number
1.	Srusti Ra Swākhyara (Odia) (1/e)	Gourishankar Sahoo	Maa Printers, Cuttack	2022	978-93- 94963-04-7
2.	Vijnāna Kathā (1/e)	Rita Paikaray, Smrutiprava Das, Ganeswar Nath, Gourishankar Sahoo	School of Physical Science, Ravenshaw University, Cuttack	2014	81-92546-41- 1

Refereed Journal Articles: (Last five years)

1. Swain S., Sahu D., Dwivedee D., **Sahoo G.**, Nayak B., (2022) "Generalized Interacting Dark Energy Model and Loop Quantum Cosmology" **Astrophysics and Space Science (Springer)**, 367:57, 1-6. DOI: [10.1007/s10509-022-04084-z](https://doi.org/10.1007/s10509-022-04084-z)

2. Tripathy A., Nath G., **Sahoo G.** and Paikaray R., (2021) "Solvent treatment on cloud point for dewaxing in crude oil industries", **Journal of Scientific and Industrial Research (Council of Scientific and Industrial Research Publication)**, 80, 115-121.
<https://nopr.niscpr.res.in/bitstream/123456789/56132/1/JSIR%2080%282%29%20115-121.pdf>

3. **Sahoo G.**, (2020) “On the time measurement units and measuring instruments of Samanta Chandrasekhar, the great naked eye astronomer”, **Orissa Journal of Physics (Orissa Physical Society Publication)** 27(1), 49-55.

https://casa-acharya.com/Orissa%20Journal%20of%20Physics/OJP_PDF_Files/27_1_6_FP.pdf

4. Das P., Paikaray R., Barad R. K, **Sahoo G.**, Samantaray S., Ghosh J. (2018) “On the excitation temperature of pulse plasma produced from washer plasma gun in a compact plasma system”, **Spectroscopy Letters (Taylor and Francis)**, 51(9), 510-515. DOI:

[10.1080/00387010.2018.1527356](https://doi.org/10.1080/00387010.2018.1527356)

Orientation Program Completed: (Last Five Years)

Four week orientation/induction program from 16 April to 15 May 2021 organised by Ramanujan College, University of Delhi.

Faculty Development Program Completed: (Last Five Years)

1. AICTE Training and Learning (ATAL) Academy Online FDP on "Research Methodology" from 07.12.2020 to 11.12.2020 held at Indian Institute of Information Technology, Dharwad.

2. AICTE Training and Learning (ATAL) Academy Online FDP on "Research Methodology" from 01.12.2020 to 05.12.2020 held at Indian Institute of Information Technology, NAGPUR.

Other Literary Contributions: letters, reviews, editorials, notes and commentaries (Most Recent)

- 1) **Sahoo G.**, “*Ganjana Na Pāu Ganje*” (Odia), (On the Medicinal use of Hemp) **The Dharitri**, pg 06, 28 May 2023. <https://dharitriepaper.in/edition/13255/bhubaneswar/page/6>
- 2) **Sahoo G.**, “*Dr. Bhabha: Mu Nuhen Āme*”(Odia), (On the eve of National Technology Day – 2023), **The Prameya**, pg 08, 11 May 2023. <https://www.prameyaepaper.com/edition/1971/BHUBANESWAR>
- 3) **Sahoo G.**, “*Bhāratīya nka Pain Kalpita Sikhyā Ra Swarup*” (Odia), (Vivekananda on Indian Education System), **Prabodhana**, pg 2-3, May 2023.
- 4) **Sahoo G.**, P. R. Triptahy, “*Parāga O Pāka*” (On Eclipse and its effect on food and atmosphere) (Odia), **The Dharitri**, pg 06, 20 April 2023. <https://dharitriepaper.in/edition/12982/bhubaneswar/page/6>
- 5) **Sahoo G.**, “*Vijnana Aur Takniki Sikshya Matrubhasha Mein Padhane Ki Avasyakata*” (Hindi), (On the Need to Teach Science and Technology in Mother Tongue), **Chhātra Udghosh**, pg 23-25, March -April 2023.
- 6) **Sahoo G.**, “*Jnāna Vijnāna O Parampara*” (Odia), (On IKS in School and College Curriculum), **The Prameya**, pg 10, 22 March 2023. <https://www.prameyaepaper.com/edition/1213/BHUBANESWAR>
- 7) **Sahoo G.**, “*Kāla Ra kashitre Āgusāra Raman*” (Odia), (On the eve of National Science Day – 2023), **The Dharitri**, pg 06, 28 February 2023. <https://dharitriepaper.in/edition/12631/bhubaneswar/page/6>
- 8) **Sahoo G.**, “*Entanglement – Sukhma Jagatare Satya ra Swarup*” (Odia) **Digbalaya** (The Magazine of Orissa Physical Society) February 2023.

- 9) **Sahoo G.**, "Entanglement: the peculiar quantum nature of reality" (English) (Nobel 2022: Physics), **Science Horizon** (The Magazine of Odisha Bigyan Academy), 8 (1), pg 29 – 34, January 2023.
<http://odishabigyanacademy.in/science-horizon-2/>
- 10) **Sahoo G.**, "Ucha Sikshyā Re Vandha Vāndhivara Vela" (Odia) (On Research University), **The Samaj**, pg 6, 26 September 2022.
- 11) **Sahoo G.**, "Pātha Saha Sātha" (Odia) (On Vocational Education), **The Samaj**, pg 6, 26 August 2022.

Conference/Symposium/Workshop Organized: (Last Five Years)

Sl. No.	Title	Organized By	Venue	Duration	Responsibility
1.	Physics Scholars Symposium (PSS-2023) https://pss2023fm.wixsite.com/pss-2023	Fakir Mohan University, Balasore, Odisha and Orissa Physical Society	Fakir Mohan University, Balasore, Odisha	03-04 July 2023	Coordinator
2.	National Seminar cum Workshop on Content Development of Physics Curriculum In Indian Perspective (CPINEP-2022)	Vidya Bharati Uchcha Shikshya Sansthan and Sardar Patel University, Mandi, HP	Sardar Patel University, Mandi, HP	29-30 June 2022	Coordinator
3.	13 th International Conference on Plasma Science and Application (ICPSA-2020)	Asian African Society for Plasma Training (AAAPT)	Ravenshaw University, Cuttack, Odisha	26-28 December 2020	Co-Convenor
4.	Young Scientists Conference (India International Science Festival 2020)	Vijnana Bharati and CSIR-NISTADS, New Delhi	New Delhi	22-24 December 2020	Theme Coordinator

Special Lecture Organized in the Department: (Last Five Years)

1. Extramural Lecture by Dr. P. S. Bhupal Dev, Department of Physics, Washington University in St. Louis, USA on, "Neutrino Physics in the Multi-messenger Era" on 04.05.2023 at 9.00 AM IST at Seminar Hall, Shahpur Parishar, CUHP.

2. Special lecture by Dr. Debi Prasad Das, Senior Principal Scientist and Department Head, CSIR-Institute of Mineral and Material Technology, Bhubaneswar Odisha on "Principle of Prototype for Atma Nirbhar Bharat" on 01.07.2022 at Seminar Hall, Shahpur Parishar, CUHP.

3. Special Lecture by Dr. Ram Prasad Prajapati, JNU, New Delhi, on "Waves, instabilities and structure formation in astrophysical Plasmas" on 11.04.2022 at 11 AM at Seminar Hall, Shahpur Parishar, CUHP.

4. Special Lecture series by Shri. Sudam Charan Sahu, Department of Library and Information Science, Central University of HP on Data Analysis and R- Software, Reference management System 04.04.2022 and 05.04.2022 at Seminar Hall, Shahpur Parishar, CUHP.

* Organised the Lectures/Seminars as Faculty-in-Charge, Alumni Cell, DoPAS/Faculty and Convenor/Co-ordinator of the Organizing committee

Special/Extramural Lecture Organized in the University: (Last Five Years)

1. Extramural Lecture by Prof. Ven. Samdhong Rinpoche, Honourable Chancellor, Sanchi University of Buddhist-Indic Studies and Mr. Penpa Tsering, Sikyong (Honourable Prime Minister), CTA under, "Tibet Dialogue" on 26 Nov 2022 at Seminar Hall, Dhauladhara Parishar-I, Central University of Himachal Pradesh.

2. National Science Day - 2022 Lecture by Dr. Trilochan Mohapatra, Honourable Director General, Indian Council of Agricultural Research (ICAR), New Delhi and Secretary to the Department of Agricultural Research and Education under, "Brahmarshi Basistha Smriti Vyakhyamala" on 28 February 2022 at Seminar Hall, Shahpur Parishar, Central University of Himachal Pradesh. (Topic – Traditional Agriculture and Future of India)

3. Central University of Himachal Pradesh Foundation Week Lecture - III by Dr. Gitanjali Batmanabane, Honourable Director, All India Institute of Medical Science (AIIMS), Bhubaneswar and Dr. Patitapaban Mohanty, Honourable Director, SVNIRTAR (Ministry of Social Justice), Cuttack on 29 January 2022 at Seminar Hall, Shahpur Parishar, Central University of Himachal Pradesh. (Topic – Leadership and Institution Building: Opportunities and Challenges)

4. Central University of Himachal Pradesh Foundation Week Lecture - II by Shri. Indresh Kumar, Eminent Scholar on International Affairs and Patron, Bharat Tibet Sahyog Manch and Mrs. Dolma Gyari, Kalon (Honourable Cabinet Minister) of Department of Security, CTA on 27 January 2022 at Seminar Hall, Shahpur Parishar, Central University of Himachal Pradesh. (Topic – Identity of Tibet as a Sovereign Republic and a New Social Order)

5. Central University of Himachal Pradesh Foundation Week Lecture - I by Prof. Prafulla Kumar Mishra, Honourable Chancellor, Dr. Rajendra Prasad Central Agricultural University, Pusa, Bihar and Honourable Vice President, Maharshi Sandeepani Rastriya Veda Vidya Pratisthan, Ujjain and Prof. Rajneesh Arora, Former Vice Chancellor, Inder Singh Gujral Punjab Technical University, Jalandhar on 25 January 2022 at Seminar Hall, Shahpur Parishar, Central University of Himachal Pradesh. (Topic – Contribution of Teachers in Nation Building)

*Organised the Lectures/Seminars as Secretary, Central University of Himachal Pradesh Teachers Association and Convenor of the Organizing committee

Affiliation in Academic Bodies/Societies:

Sl. No.	Name of the Body/ Society	Nature of Affiliation
1.	Power Beam Society of India (PSI)	Member, National Executive Committee and Life Member (LM-90)
2.	Plasma Science Society of India (PSSI)	Life Member (LM- 769)
3.	Indian Association of Physics Teachers	Life Member (13583L8596)
4.	Odisha Bigyan Academy	Life Member (63)
5.	Orissa Physical Society	Patron Member (99)
6.	Utkal Sahitya Samaj	Life Member (2619/15)