



CHAIDUAR COLLEGE, GOHPUR

FACULTY PROFILE

Name: DR. LAKHI BURAGOHAIN

Department: PHYSICS

MA: Institute name: CHAIDUAR COLLEGE

PhD: Institute name: GAUHATI UNIVERSITY

MPhil: Institute name

Date of Joining: 25.03.1998

Mobile: 9435485193

Email: lburagohain@yahoo.com

Research Areas: Theoretical High Energy Physics

Awards/ Fellowships

Publications: Books/Monographs

Make a list with full bibliographical details

Research Paper published in Journals:

Sl.No	Title with Page Number	Journal	ISSN/ISBN No	Whether peer reviewed, Impact factor
1	Generation of new classes of exactly solved potentials Phys.Scr.80(2009)025004	Physica Scripta IOP Publishing	doi:10.1088 Online ISSN: 1402-4896 Print ISSN: 0031-8949	Yes
2	Generation of new classes of exactly solved potentials from the Trigonometric Rosen-Morse Potential Phys.Scr.80(2009)025004	Indian Journal of Physics (Springer Publishing)	ISSN: 0973-1458	Yes
3	Exactly Solvable quantum mechanical systems generated from the anharmonic potentials	Latin-American Journal of Physics Education (LAJPE)	ISSN: 1870-9095	Yes
4	Exactly solvable quantum mechanical systems generated from the Manning-Rosen potential using Extended transformation method.	Electronic Journal of Theoretical Physics(EJTP)	ISSN 1729-5254	yes

5	Exact S-wave solution of Schrödinger equation for quantum bound state non-power law systems	Bulgarian Journal of Physics	doi: 10.55318 Online: 1314-2666 Print: 1310-0157	Yes
6	Exact S-wave solution of Schrödinger equation for quantum bound state non-power law potential	Journal of Laser and Optical Science	ISSN No 2231-0959	Yes
7	Generation of Dual and Self-dual quantum mechanical potential systems	Latin-American Journal of Physics Education (LAJPE)	ISSN: 1870-9095	Yes
8	Exactly Solvable Schrödinger equation for quantum multiterm potentials	Int. Journal of Pure and applied Phys.(IJPAP)	ISSN: 0973-1776	Yes
9	Exactly Solvable quantum systems in arbitrary dimensional Euclidean Spaces	The African Review of Physics (The Abdus Salam International Centre for Theoretical Physics) 2012 7:0052	ISSN: 2313-3317	Yes
10	Transformation Formalism of Generation of new Exactly Solvable Potential systems	Int. Journal of Recent Advances in Multidiciplinary Topics Vol3, Issue	ISSN:2582-7839	Yes

		7,2022		
11	Construction of new exactly solved quantum potentials generated from the Quartic power law potential	IJRES, Volume 10, Issue 7, July 2022, pp-779-783	ISSN: 2320-9364(online) ISSN: 2320-9356 (Print)	Yes
12	Exactly Solvable New Quantum Potential Systems Generated from the Already Solved Power law Potential Using Transformation Method	July 2022 IJIRT Volume 9 Issue 2	ISSN: 2349-6002	Yes

(A) Full Papers in Conference Proceedings (Abstracts not to be included):

Journal Articles

Make a list with full bibliographical details

Sl.No	Title with Page Number	Details of Conference Publication
1	Exactly Solvable quantum multiterm potentials in arbitrary multidimensional spaces generated from $V(r) = ar^2 + br^{-4} + cr^{-6}$	Proceedings of 4 th Physics Academy of North East(PANE) Conference
2	Dual and Self-dual of a quantum mechanical potential	Proceedings of 50 th Annual Technical Session of Assam Science Society, Volume 2005

3.	Exact Bound State Solution for a fractional power potential	Proceedings of 51 st Annual Technical Session of Assam Science Society, Volume 7,2006, pp181-186
4	Generation of new classes of exactly solvable potentials from the trigonometric Rosen- Morse Potential	6 th Conference on Physics Research in North East, 2-4 April, 2009 Tripura University, Tripura

Chapters in Books:

Make a list with full bibliographical details

Projects: (Completed): Two Minor Research Projects

Sl.No	Title	Agency	Period	Grant / Amount (Rs. In Lakhs)
1	Generation/Construction of exactly solvable quantum multiterm potentials	UGC-NERO	2006-07	0.80 Lakh
2	Generation of exactly solvable potentials in non-relativistic Quantum Mechanics	UGC-NERO	2011-12	1.25 Lakh

Conferences/Seminars/Invited Talks/Workshops/RC/OP/FDP/PDP/Training

Make a list with details

(i) Refresher Courses, Training Course Teaching learning-evaluation Technology Programmes, Soft Skill Development Programmes, Faculty Development Programmes:

Sl.No	Programme	Duration	Organized by
1	Orientation Course	29 May, 2000- 25 June, 2000	Gauhati University
2	Refresher Course in Physics	20 June,2001 - 10 July,2001	Gauhati University
3	Refresher Course in Physics	11 th Sept., 2008 -2 nd Oct,2008	North -Eastern Hill University (NEHU), Shillong
4	Refresher Course	05 July, 2010- 24 July,2010	Calcutta Univesity(CU)
5	Faculty Development Programme (FDP)	01 - 06 July,2017	E & ICT Academy, IIT Guwahati
6	CAP (Computer Awareness Program)	2 nd Sept.2002-2 nd Oct.2002	Community Information Centre (CIC), Pub Chaiduar

(ii) Participation in Conference / Seminar / Workshop etc:

Sl.No	Title	Organized by	Whether International/National/State level/local University level/College level
1	Workshop on “Introductory Astronomy & Astrophysics”	Department of Physics Rajiv Gandhi University, Arunachal Pradesh	National Level
2	Instrument Development and Service Centre	IDSC in collaboration with ASTEC and Department of Physics, Cotton College	National Level
3	Flood and Earthquake Risk Mitigation Training Programme	Tezpur University, 24-26 Feb,2009	National Level
4	UGC Sponsored National Seminar Frontier Topics in Chemistry	Chaiduar College, 5-6 October, 2007	National Level

5	Environmental Coservation, Depleting Resources and Sustainable Development	IQAC, North Lakhimpur College	National Level
6	International Conference on Recent Trends and New Directions of Research in Cybernetics and System Theory 1-3, January, 2004	IASST, Guwahati	International Level
7	50th Annual Technical Session of Assam Science Society 28-29 January, 2005	Gauhati University	National Level
8	51st Annual Techncl Session of Assam Science Society, 7th March, 2006	IASST, Guwahati	National level
9	Fourth Conference on Physics Research in North East, 5&6 November, 2004	GC College, Silchar	National Level
10	6th Conference on Physics Research in North East, 2-4 April, 2009	Tripura University, Tripura	National Level

11	Historical Background of place names of Medieval Chaiduar, 12th December, 2003	Chaiduar College	State Level
12	National Symposium on Current Trends in Chemical Research, 27 & 28 February, 2004	Gauhati University	National Level
13	Higher Education Development in the North Eastern States: Towards an Action Plan, 14th and 15th November, 2003	UGC, North Eastern Regional Office	National Level
14	Development of Manpower for Information Technology Enabled Services, 27th and 28th March, 2004	The Institute of Engineers (India) Assam State Centre	National level
15	Civil Society and Human Rights 4th and 5th November, 2010	Chaiduar College, Gohpur	National Level

Institutional Responsibilities

Make a list with details:

(i) Head of the Physics Department from 01.02.2017 to 01.02.2020 for a period of Three Years;

Consultancy/Social Outreach/Extension Activities:

Make a list with details

Invited Lectures of presentations or Conferences/Symposia:

Sl.No	Title of Lecture/ Academic Session	Title	Organized by	Int./National
1	Resource Person	Innovative Science Teaching	Assam Science Society	State Level
2	Evaluator	Children's Science Congress	Department of Science and Technology, Government of India and ASTEC	District Level
3	Evaluator	20th National Children's Science Congress	DST Government of India and ASTEC	State Level
4	Resource Person	On the Occasion of Science Day	Gohpur Town School, Gohpur	Local Level

Membership

Make a list with details

- (i) Life Member of Assam Science Society**
- (ii) Life Member Physics Academy of North East (PANE)**