



BASANTA KUMAR RAJBANSHI

Physicist & Researcher

ORCID ID

<https://orcid.org/0009-0003-7953-7475>

CONTACT

- ✉ basantaraz05@gmail.com
- ☎ +977-9851094417
- 📍 Barhadashi-3, Rajgadh, Jhapa (P)
- 📍 Pepsicola, Kathmandu (T)

EDUCATION

PhD Scholar (in Physics)
Shri Ramswaroop Memorial University, India
2022 - in Progress

M.Sc. (Physics), M.A.(Sociology), B.Ed.
Tribhuvan University, Kathmandu, Nepal
2011, 2018, 2014

PERSONAL DETAILS

Date of Birth : **October 10**
Citizenship : **Nepalese (76151539)**
Passport No : **08923870**
Blood Group : **A positive**
Marital Status : **Married**
Parents : **Mr. Hari Prasad / Ms. Urmila Devi**
Language : **English, Nepali & Hindi**

MY DIGITAL WORLD

- 🌐 <https://basantarajbanshi.com.np/>
- 📘 <https://www.facebook.com/kajolmusic/>
- 📺 <https://youtube.com/@basantarajbanshi>

About Me

I am a physics researcher with over 15 years of teaching experience from school to college level. I write textbooks and reference books of Physics for school and bachelor's students. I have participated in many international conferences, published several research articles in reputed Scopus-indexed journals, and received awards for best research papers.

PROFESSIONAL EXPERIENCES

Physics Lecturer

Twelve years of teaching experience in different institutions under different designations

- **Campion Academy (+2)**, Lalitpur (2012 to 2014)
- **MBM College**, New Baneshwor, Kathmandu (2015-2021)
- **Brihaspati Vidhyasadan (+2)**, Naxal, Kathmandu (2016-2019)
- **Loyalty Academy (LA) (+2)**, Kathmandu (2016 -2021)
- **Celebration Co-Ed. (+2)**, Kathmandu, (2019-2025)
- **Riviera Academy (+2)**, Chabahil, Kathmandu, (2021-2023)

CURRENTLY WORKING IN

- **Venus National College**, Jorpati, Kathmandu
- **Madan Bhandari Memorial College**, New Baneshwor, Kathmandu
- **Celebration Co-Ed. (+2)**, Kathmandu,

GENERAL PUBLICATIONS

🔥 As Sole Author

- **Conceptual Physics – I || Conceptual Physics – II** || Textbook for Grade 11 & 12 || Whitehouse Publication || First Edition: Jan 2021 | Revised Edition: 2025 ||
- **Physics Refresher – I || Physics Refresher – II** || NEB Solutions for Grade 11 & 12 || Trishna Publication, Kathmandu || 1st Edition: Aug 2013 | Revised Edition: 2025 ||
- **Conceptual Science & Technology – IX & X** || Textbook for Grades 9 & 10 (NEB) || In Press | Expected Release: 2025 |

👉 As Co-author

- **Simplified Physics – I || Simplified Physics – II** || Reference Book for B.Sc. I & II || In Press | Expected Release: 2025 |

RESEARCH ARTICLES PUBLICATIONS

- *Estimation of Solar Energy Using Different Empirical Models at Okhaldhunga, Nepal*
International Journal of Environmental Sciences (Scopus Indexed)
📅 June 2025 || 🔗 DOI: <https://doi.org/10.64252/v1y8pw19> ||
- *Estimation of Global Solar Radiation in the Eastern Upland Region of Taplejung, Nepal, Using RADEST 3.0 Software*
Journal of Information Systems Engineering and Management (Scopus Indexed)
📅 March 2025 || 🔗 DOI: <https://doi.org/10.52783/jisem.v10i16s.2658>
- *Comparative Analysis of Empirical Models for Estimating Global Solar Radiation in Biratnagar, Nepal: A Case Study Using RADEST 3.0*
Nanotechnology Perceptions (Scopus Indexed)
📅 December 2024
|| 🔗 DOI: <https://nano-ntp.com/index.php/nano/article/view/4637>
- *Comparative Analysis of Different Models Within RADEST 3.0 for Solar Radiation Estimation at Dhankutta, Nepal*
Journal of Nepal Physical Society (National Journal of Nepal)
📅 December 2024 || 🔗 DOI: <https://doi.org/10.3126/jnphysoc.v10i1.72845>
- *Estimation of Global Solar Radiation (GSR) Using Seven Meteorological Parameters at Eastern Hill, Okhaldhunga, Nepal*
Power System Technology (Scopus Indexed)
📅 Date April 2025
🔗 DOI: <https://powertechjournal.com/index.php/journal/article/view/1701>
- **Co-Author**
- *Estimating Solar Energy Potential in the High-Altitude Region of Jumla, Nepal, Using RADEST 3.0 Ver. Software*
Journal of Information Systems Engineering and Management (Scopus Indexed)
📅 May 2025 || 🔗 DOI: <https://doi.org/10.52783/jisem.v10i44s.8698>

INTERNATIONAL CONFERENCE PRESENTATIONS

1.ANPA Conference 2024 (June 2024)

Title: Estimation of Global Solar Radiation at Eastern Upland Taplejung, Nepal

Abstract Number: ANPA2024-N000123

Organiser: Association of Nepali Physicists in America (ANPA)

Link: https://anpaglobal.org/conferences-and-events/conference-2024/applied_physics_24/

2.ICANSVME-2024 (22-24 February 2024)

Title: Estimation of Global Solar Radiation at Eastern Mid Hill, Dhankutta, Nepal Using RADEST 3.0 Software

Organisers: SRMU, Lucknow & SJPT University, Rajasthan, India

Link:<https://srmu.ac.in/>

3.MIC-2025 (7-8 February 2025, Best Paper Award)

Title: Comparative Evaluation of Empirical Models for Estimating Global Solar Radiation in Biratnagar, Nepal: A Case Study Using RADEST 3.0

Organizer: Institute of Professional Excellence and Management, Ghaziabad

Link: <https://www.ipemgzb.ac.in>

4.ICSI-2025 (7-9 April 2025, First Position – Online Oral Presentation)

Title: Enhanced Estimation of Global Solar Radiation Using Seven Key Meteorological Parameters: A Case Study in the Eastern Hills of Okhaldhunga, Nepal

Organizers: SRMU, Lucknow & International Fashion Business Exchange Council (IFBEC), India

Link: <https://srmu.ac.in/>

5.ANPA Conference 2025 (June 2025)

Title: Comparative Evaluation of Empirical Models for Solar Energy Estimation in the Eastern Mid-Hills of Dhankutta, Nepal

Abstract Number: ANPA2025-N00013

Organizer: Association of Nepali Physicists in America (ANPA)

Link: https://anpaglobal.org/conference-2025/cosmo_astro_25/

GENERAL PARTICIPATIONS

1.Successively participated in a 5-day Workshop on “**Data Analysis based on Qualitative and Quantitative Module**” conducted by Southwestern State College, Kathmandu, Nepal, supported by: UGC, Nepal (26th to 30th May 2023)

2.Participated in different seminars related to physics conducted in Kathmandu Valley by the Central Department of Physics, Tribhuvan University, Kathmandu.

3.Participation in a two-day seminar on “**Climate Change Partnership Programme** ” organised by NEFIN held at Hotel View Bhrikuti, Godawari, Lalitpur, Nepal premises (8-9 Sep 2015).

4.Participation in a three-day seminar on “**REDD+, Readiness in NEPAL, UNFCCC**”, organised by NEFIN, held at Hotel Landmart, Lakeside, Pokhara (March 15 – 17, 2016).

5.One day, **ICT Training was organised by Kathmandu University, Dhulikhel, Nepal.** (May 24, 2016)