

## RESUME

### CONTACT:

#### Dr. Ashutosh Kumar

(Assistant Professor)

Department of Geology

Indira Gandhi National Tribal University, Amarkantak

Anuppur, M.P., INDIA – 484887.

E-mail: [ashutosh.kumar@igntu.ac.in](mailto:ashutosh.kumar@igntu.ac.in); [ashutoshgeo@gmail.com](mailto:ashutoshgeo@gmail.com)



### EDUCATION QUALIFICATION:

- Bachelor of Science (Honours in Geology), North Orissa University - 2007
- Master of Science in Geology, Banaras Hindu University - 2009
- Ph.D. in Geology, Banaras Hindu University – 2018
- Thesis Title- **“Tectonometamorphic Evolution and Magmatism in parts of the Almora Nappe, Kumaun Lesser Himalaya”**

### TEACHING INTERESTS:

- Metamorphic Petrology and Thermodynamics, Tectonic and Metamorphic Evolution of Himalaya, Geochemistry and Isotope Geology, & Fuel Geology

### Project Experience:

- On-going Major Project, funding agency ANRF-SERB-CRG – P.I.
- Successfully completed working as JRF of DST Project since Jan 2010 to till August 2011 on the Department of Civil Engineering, Indian Institute of Technology (BHU).
- Working as SRF of BRNS Project since July 2015 to 31st March 2019 on the Department of Geology, Institute of Science, BHU. Topic: - **“Study of metamorphics and granites of Almora Nappe, Kumaun Lesser Himalaya, for possible uranium mineralization”**.

### ACADEMIC ACHIEVEMENTS:

- Successfully completed working in the **Thermal Ionization Mass Spectrometry (TIMS)** Lab at the Instrumentation Centre, **Indian Institute of Technology Roorkee** for **Rb-Sr** and **Sm-Nd Geochronology** related to my Ph.D. research work for duration of about a year.
- Successfully completed off – Campus Outreach Certificate Programme, **INDIAN INSTITUTE OF REMOTE SENSING, ISRO, Department of Space, Government of India.**, **“Geospatial Technologies for Urban Planning”**. In BHU during **February 16, 2017 to March 10, 2017**.
- Successfully completed off – Campus Outreach Certificate Programme, **INDIAN INSTITUTE OF REMOTE SENSING, ISRO, Department of Space, Government of India.**, **“Remote Sensing and GIS Applications in Carbon Forestry”**. In BHU during **February 11, 2016 to March 15, 2016**.
- Successfully completed off – Campus Outreach Certificate Programme, **INDIAN INSTITUTE OF REMOTE SENSING, ISRO, Department of Space, Government of India.**, **“Remote Sensing, Geographical Information System & Global Navigation Satellite System”**. In BHU during **August 10, 2015 to November 27, 2015**.

### Published/ Accepted Paper:

- Sughosh Madhav, **Ashutosh Kumar**, Jyoti Kushawaha, Arif Ahamad, Pardeep Singh, S. B. Dwivedi. Geochemical assessment of groundwater quality in Keonjhar City, Odisha, India. Sustainable Water Resources Management (Springer) (2020) 6:46, ISSN- 2363-5045, <https://doi.org/10.1007/s40899-020-00395-7>.
- Mallickarjun Joshi, **Ashutosh Kumar** P. Ghosh, Biraja P. Das and Ph. Mitrabina Devi. North Almora Fault: A Crucial Missing Link in the Strike Slip Tectonics of Western Himalaya. Journal of Asian Earth Sciences, 172, 249–263, 2019. ISSN- 1367-9120. [doi.org/10.1016/j.jseas.2018.09.002](https://doi.org/10.1016/j.jseas.2018.09.002).
- Biraja P. Das, Mallickarjun Joshi and **Ashutosh Kumar**. Tectonochemistry and P-T

Conditions of Ramgarh and Almora Gneisses from Askot Klippe, Kumaun Lesser Himalaya. *Acta Geologica Sinica (English Edition)*, 93(2), 322-343, 2019 ISSN – 1755-6724. DOI: 10.1111/1755-6724.13814.

- Sughosh Madhav, Arif Ahamad, **Ashutosh Kumar**, Jyoti Kushawaha, Pardeep Singh and P. K. Mishra, Geochemical assessment of groundwater quality for its suitability for drinking and irrigation purpose in rural areas of Sant Ravidas Nagar (Bhadohi), Uttar Pradesh; *Geology, ecology, and landscapes*, 2018, Taylor & Francis, ISSN - 2474-9508, <https://doi.org/10.1080/24749508.2018.1452485>.
- M. Joshi, **Ashutosh Kumar**, and Shilpi Rai. Petrotectonics of Olivine Dolerite Intruding Almora Nappe, Kumaun Lesser Himalaya. *Journal of Scientific Research BHU*, Vol60, 1-10, 2016 ISSN: 0447-9483.
- M. Joshi, Ph. M. Devi and **Ashutosh Kumar**. Metamorphism in Chaukhutia area and possible linkages of Almora Nappe with the Higher Himalayan Metamorphics, *Journal of Scientific Research BHU*, Vol 57, 11-19, 2013, ISSN: 0447-9483.
- S. B. Dwivedi, **Ashutosh Kumar** and S. P. Singh. Granulites of Meghalaya and its petrological correlation with central Indian granulites of Chhotanagpur and Bundelkhand, *Journal of Economic Geology and Georesource Management*, Vol. 7 No. (1-2), 152-167, 2010.

### Book Chapter:

- Arif Ahamad, Sughosh Madhav, Amit K. Singh, **Ashutosh Kumar** and Pardeep Singh., **Chapter:** - Types of Water Pollutants: Conventional and Emerging. **Book Title:** - **D. Pooja, Praveen Kumar, Pardeep Singh, Sandip Patil** - Sensors in Water Pollutants Monitoring: Role of Material, Springer (2020), ISBN 978-981-15-0670-3, Published date - November 2019 [doi.org/10.1007/978-981-15-0671-0](https://doi.org/10.1007/978-981-15-0671-0).

### Presentation of Paper:

- Presented in the National Seminar on Geology and Climate of Himalaya (NSGCH) 15-16 March 2018 Organised by Department of Geology, University of Jammu, Jammu. Sponsored by DST purse. Topic: - **“Bulk rock composition modeling of garnet-mica schist of Khunt Almora nappe, Kumaun Lesser Himalaya”**. **Ashutosh Kumar**, Mallickarjun Joshi and S.B. Dwivedi.
- Presented in the National Conference & Field Workshop on PRECAMBRIANS OF INDIA Nov 22-24, 2016 Organised by Department of Geology, Bundelkhand University Jhansi. & The Society of Earth Scientists. Topic: - **“Prograde metamorphism of garnet-mica schists from Siah Devi, Almora, Kumaun Lesser Himalaya: evidence from garnet composition mapping”**. **Ashutosh Kumar**, Mallickarjun Joshi and S.B. Dwivedi.
- Postal presented in the National Conference and 33<sup>rd</sup> Convention of Indian Association of Sedimentologists with emphasis on Energy Resources and Climate Change, Nov 12- 14, 2016, BHU, **“Tectonics of Two parallel Brittle and Ductile Faults in Kumaun Lesser Himalaya”**. M Joshi, **Ashutosh Kumar**, and P. Ghosh.
- Postal presented in 6<sup>th</sup> IJAA-JSPS International Conference on Contemporary Advances of Science and Technology. Aug 7-9, 2015, BHU. **“North Almora Thrust vs. North Almora fault”**. M Joshi and **Ashutosh Kumar**.
- Presented in the National Seminar On Sustainable Development: Environmental Awareness for a Secured Future: S.S.S.V.S. Govt. Post Graduate, Chunar, Mirzapur, (UP): Feb 6-7, 2015. M. Joshi and **A. Kumar**: **“Structural Control of Geomorphic Characteristics in Kapkot - Loharkhet - Jhuni area, Kumaun Lesser Himalaya”**.

### Conferences:

- Participated in the **‘National Symposium The Planet Earth: Its Finite Resources and Human Civilisation’** held at Banaras Hindu University, March 17-19, 2009.
- Attended the National Seminar on **“Geodynamics and Metallogenesis of the Indian**

## Workshops:

**lithosphere**” organized by Department of Geology, Banaras Hindu University and was sponsored by **“Geological Society of India”**. Sep 22-24, 2011.

- Attended the National Seminar on "Recent advances and future challenges in Geochemistry and Geophysics: the Indian scenario and Annual General Body Meeting of the Indian Society of Applied Geochemists- 2012", held at Deptt. of Geology BHU.
- **CAMECA EPMA ALL INDIA USERS MEET-2017, 16-17 Nov. 2017, BHU.**
- Certified in 5 days training programme of Central Ground Water Board (CGWB) on **“Sustainable Development and Management of Ground Water Resources”** held in Banaras Hindu University, 24.02.2015 to 28.02.2015.
- Certified in 2 days training programme of Central Ground Water Board (CGWB) on **“Village Aquifer Programme”** held in Banaras Hindu University, 22.11.2013 to 23.11.2013.
- **"Short term course on Remote Sensing and GIS"** held on Department of Civil Engineering, IIT BHU: March 16-18, 2012.
- National workshop/trainig course on "Geochemical Modelling in Igneous Petrogenesis: An Introduction to GCDkit" during 12-15, Jan, 2013. Held on CSIR-National Geophysical Research Institute, Hyderabad, India.
- International workshop on THERMOCALC at IIT Kharagpur, Granulites and Granulites conference, 2013 (Instructor: Tim Johnson, Saibal Gupta & Santanu K. Bhowmik)
- Attended and participated in **‘National Workshop on Palaeontology and Stratigraphy: Basics to Applications’** supported by **CSIR, UGC** in the form of **SAP-Grant** of the Department of Geology, **BHU**.

## Training Courses Programme:

- Induction/Orientation Programme for “Faculty in Universities /Colleges/ Institutes of Higher Education” , Organized by Teaching Learning Centre, Ramanujan College University of Delhi. Duration 19<sup>th</sup> June to 18<sup>th</sup> July, 2021.
- A seminar series on diffusion modelling to determine timescales of processes (Diffusion Chronometry), Organized by Organizing the online seminar series will be provided by Research Unit 2881 funded by the German Science Foundation (DFG) at the Universities of Bochum and Hannover. Durations- 26<sup>th</sup> Aug, 23<sup>rd</sup> Sept, 28<sup>th</sup> Oct, 25<sup>th</sup> Nov, 2021 & 27<sup>th</sup> Jan, 24<sup>th</sup> Feb, 24<sup>th</sup> March, 28<sup>th</sup> April, 25<sup>th</sup> May, 2022.
- UGC-Sponsored Refresher Course, Organized by Guru Ghasidas Vishwa Vidyalaya. Duration – 11/09/2023 to 25/09/2023.