

## BRIEF PROFILE

**Dr. Sanjay Kumar Tiwari:** Associate Professor, Dy. Director, Academic Staff College (HRDC)  
Adjunct Faculty, Department of Geology, Centre of Advance Study,  
Institute of Science, Banaras Hindu University, Varanasi – 221005

**Contact:**       **Official :** Tele. Fax. 0542-2369460; Email [ac\\_staff@rediffmail.com](mailto:ac_staff@rediffmail.com)  
**Personal:**       sktiwari.bhu@gmail.com; sktiwari\_bhu@yahoo.com

### Academic Qualification: Throughout First Division

**B.Sc. Hon's (Gold Medal);**  
**CSIR-NET**

**M. Sc (Geology)**  
**GATE**

**Ph D (Geology)**  
**CDM: Disaster Management**

**Experience:** 27 Years (Lecturer, 1993; Reader, 2003; Associate Professor, 2006; Professor: Due Since, 2009)

**Specialization:** Marine Geology (Marine Geo-Chemistry), Sedimentology, Hydrogeology

**Interest:** E-Content, Online/ Outreach/ Edusat Based Learning Program; Initiated Online Course in BHU

### Project/ Program Coordinator:

- **NRC (National Resource Centre) for Earth Science under PMMMNMTT, MHRD to develop E-content (MOOC's for SWAYAM) under ARPIT**
- **Faculty for MOOC's in Earth Science on SWAYAM Platform, MHRD**
- **Author: IGNOU, N Delhi (For Course Material of Geology)**
- **INSPIRE - SEAT Project, DST, Ministry of Sc & Technology for strengthening and expanding R&D in Sc and Tech., particularly basic science**
- **National ONLINE CERTIFICATE COURSES/ Workshops (2007-2019)       More than 45**  
EDUSAT based Distance Learning Program on RS, GIS and GPS sponsored by National Natural Resource Management System (NNRMS) and ISRO, Ahmadabad, organised by IIRS, Dehradun under National Remote Sensing Centre (NRSC)

### Administrative Responsibilities

- **Selected Director, UGC- HRDC, Guru Ghasidas Central Univ., Bilaspur, Chhattisgarh (2011)**
- **Director In-charge, UGC- HRDC, BHU, Varanasi (2010, 2018))**
- **Expert, Govt. of UP, Pre-New Education Policy, Varanasi, UP**
- **Honorary Professor, DAVIET (All India DAV Group of Inst. of Engineering and Tech, Ludhiyana), Daltonganj; NP University, Daltonganj/ Medinipur, Jharkhand**
- **ISRO- EDUSAT Center, BHU: University Coordinator**
- **Program Officer, UGC-HRDC, BHU in Electronic Media Research & Production Center (EMMRC), and Gyanvani Educational FM Channel, BHU**

### Distinctions/ Acclaims/ Awards/ Honours

- **2019, National Human Resource Award by Hon'ble Indresh Kumar, Vishal Bharat Sansthan, Varanasi**
- **2017, ISRO-IIRS, Deptt. of Space, Govt. of India,**
  - Outreach Program National Award for significant contribution as IIRS Outreach Coordinator
  - Outstanding Performance National Award for performance in live & interactive online courses
  - Certificate of Appreciation, for significant contribution at National Level Towards Promoting Geospatial Technology & its Applications
- **Prof. N.L. Sharma Gold Medal of Indian School of Mines University (ISM- IIT), Dhanbad**
- **BHU Prize and Gold Medal in Graduation (Geology), BHU, Varanasi.**
- **Silver Medal, Foundation for Amity & National Solidarity, Defense Ministry, Govt. of India**
- **Selected for 3<sup>rd</sup> Glaciology Training Program (GSI), Triloknath Glacier, Lahaul and Spiti, HP.**

- Commission in Territorial Army, Central Command, Lucknow; Defense Ministry, Govt. of India

**RESEARCH SUPERVISED/ UNDER SUPERVISION:  
EXTERNAL/ INTERNAL**

**Completed**

- Shasank Tripathi: GW Modeling & assessment in parts of Bundelkhand Region
- *Arjun Ram*, CSIR-NET, RGNF: GW Flow behavior & Hydrogeological Mapping of Mahoba Distt, UP.
- *Abhishek Chaurasia*, BHU-RET (now in GSI): GW Resource Estimation and its management in parts of Varanasi and Sant Ravidas Nagar Districts, UP.
- *Saurabh Barman*, CSIR-SRF: Geochemical association, mineralogical characteristic and genesis of Polymetallic Nodules from parts of Central Indian Ocean Basin.
- *Vidushi Choudhary*, GATE, RGNF: Geo- Technical Evaluation of Vindhyan Sandstone of Kaimur District, Bihar and Mirzapur, Sonbhadra Districts, UP.

**In Progress**

- *Ravi Shankar Patel*, CSIR-NET: (now Ground Water Department, UP) Hydrogeological evaluation of Arsenic & Fluoride contamination of GW in parts of district Sonbhadra, UP.
- *Prashant Pandey*, GATE: Hydrogeological investigation and potential recharge zonation in district Banda, Bundelkhand region, UP
- *Pooja Tripathi*, CSIR-JRF:
- *Ravi Bhusan*: CSIR-NET, (now in GSI), Geochemical association, growth and impact of Antarctic Bottom Water Current on Polymetallic Nodules from parts of Central Indian Ocean Basin. India
- *Shivkant Singh*: Estimation of surface runoff and GW potential zone of Yamuna Basin in and around Delhi using RS and GIS.

**Research and Academic Activities in Collaboration with:**

- MNNIT, Allahabad, UP; IIT-BHU, Varanasi, UP; BIT Sindri, Dhanbad
- DST-BSIP (Lucknow); CGWB, Water Resource Ministry ISRO-IIRS, Dehradun,
- National Book Trust (NBT), India; MHRD, Delhi CSIR-CIMFR, Dhanbad

**PUBLICATIONS**

**(A) BOOKS**

**Kalyani Publishers, N Delhi (PB)**

- 1). Text Book of Stratigraphy, Micropaleontology and Palaeobotany (81-272-1329-2)

**Atlantic Publishers, N Delhi (HB & PB)**

- 2). Ore Geology, Economic Geology and Mineral Economics, Vol-1 (978-81-269-1400-5)
- 3). Ore Geology, Economic Geology and Mineral Economics, Vol-2 (978-81-269-1401-2)
- 4). Fuel Minerals and other Energy Resources, Vol-1 (978-81-269-1448-7)
- 5) Fuel Minerals and other Energy Resources, Vol.-2 (978-81-269-1449-4)
- Fuel Minerals and other Energy Resources, Complete Set: (978-81-269-1450-0)*
- 6) Mining and Environmental Science (978-81-269-1407-4)
- 7) Environmental Science, Vol. -1 (978-81-269-1474-6)
- 8) Environmental Science, Vol. -2 (978-81-269-1475-3)
- Environmental Science, Complete Set: (978-81-269-1476-0)*

**In Press/ Progress**

- 1) Text Book of Mineralogy and Crystallography (Studera Publisher, N Delhi)
- 2) Text Book of Petrology (Studera Publisher, N Delhi)
- 3) Text Book of Hydrology (Studera Publisher, N Delhi)
- 4) Fundamentals of Thermal and Energy Engineering
- 5) Text Book of Remote Sensing, GIS and GPS

6) Text Book of Oceanic Resources: Fe- Mn nodules

**(B) CHAPTERS in Books**

- **2019**, Academic Writing & Content Analysis (Academic Review), Ed. Book on Research Methodology, by BC Nirmal, Hon'ble VC, National Law University, Ranchi
- **2017**, E- Content Development: A New Paradigm Shift in Higher Education in India, Ed. Book. (Rahman, A), Director, UGC-HRDC, JMI, Delhi
- **2009**; An Evaluation of Orientation Programs of ASC, BHU w. r. t. other ASCs in India, Edited. Vol. Anthology on Education in India, Atlantic Publishers, Delhi.
- **2009**. *Safety and Environmental Concerns in Oil and Gas Industry: Some case Studies*. In Earth Science, Sp. Ed. Vol. Singh, TN., Allied publishers, Delhi.

**(C) MONOGRAPHS**

1. Higher Education: In 21<sup>st</sup> Century
2. Environmental Science
3. Information Retrieval: Challenges and Opportunities

**(D) Research papers in Journal, Title, Pages, Year, ISSN etc:**

**1 to 43**

- 01 2021, *Identification of Potential Recharge zones in drought prone areas of Bundelkhand region, India using SCS-CN and MIF technique under GIS Frame-work*; Springer Journal; Journal of Water Conservation Science and Engineering
- 02 2021, *Morphology, Geochemical Association and Genesis of Fe-Mn Nodules from The CIOB* (comm.)
- 03 2021, *Selective Extraction of Metals from Polymetallic Nodules of CIOB through Chemical Partitioning* (comm.)
- 04 2021, *Abundance of Trace and Rare Earth Elements (REE) in Ferro-manganese Nodules of the CIOB*. Journal of Mines, Metals and Fuels. Vol. 69, No. 8; ISSN (online): 0022 – 2755, pp. 283-290.
- 05 2021, *Distribution of Major, Trace and Rare Earth Elements in Polymetallic Nodules of CIOB*. Journal of Applied Geology and Geophysics. Vol. 9; Issue 1; Ser. II; ISSN (online): 2321 – 0990, pp. 35-49.
- 06 2021, Petrographical and Physico-Mechanical properties of Kaimur Sandstone. Journal of Scientific Research, BHU, Vol. 65; Issue 5, 39-49.
- 07 2021, Physico-Mechanical Characteristics of Vindhyan Sandstone, India. Journal of Institution of Engineers India; Series D.
- 08 2021, Groundwater Quality Assessment using Water Quality Index (WQI) in hard rock under GIS framework' Springer Journal; Applied Water science', pp. 1-20.
- 09 2021, Groundwater Vulnerability Assessment using Water Quality Index (WQI) under GIS framework' in parts of UP, India; Springer Journal of Sustainable Water Resource Management (SWAM), India.,
- 10 2021, Groundwater stress analysis using GIS in parts of Varanasi Distt., Proc. Of National Academy of Sciences, India. Section-A: Physical Sciences (NASA).
- 11 2020, *Assessment of Groundwater behavior in Klulpahar Watershed, District, Mahoba, UP, India; IOP Conference Series: Earth and Environmental Science, pp. 1-16*
- 12 2020, Assessment of Groundwater quality using Water Quality Index (WQI) in Klulpahar Watershed, District, Mahoba, UP. *Journal of Indian Association in Environmental Management*.
- 13 2020, Groundwater Resource Assessment of an alluvial aquifer in parts of Varanasi and Sant Ravidas Nagar Districts, UP using GRE-2015: IOP Conference Series; Earth and Environmental Sciences 597
- 14 **2018**, *Morphological Analysis of Jaspura Watershed in Upper part of Banda Dist, UP, India*, JGSI
- 15 **2018**, *GW Quality assessment using Water Quality Index (WQI) in parts of Varanasi, UP*, JGSI; vol. 92, pp. 76-82
- 16 **2017**, *Assessment of GW behavior in Arazi line Block, Varanasi Dist, UP, India*, JGSI

- 17 **2017**, *Watershed & Hydrological Condition Mapping: Case Study of Delhi using RS&GIS Technique*. Jour. of RS and Geo-science (IJRSG), (2319–3484): Index: Google Scholar, Open J Gate, UK Index.
- 18 **2017**, *Significance of Ophiolite Emplacement in Development of 90°E Ridge, S. Andaman Island, Indian Ocean*. Jour. of Sc. & Res. (IJSR), (2319-7064); Index Copernicus Value (2015):78.96; IF (2015): 6.391; Vol.6; Issue 1, pp. 655-63.
- 19 **2017**, *Stability Analysis of Rock Slopes along Ganga Darshan, Pauri Garhwal, Uttarakhand, India*, Engineering Geology, JGSI; Vol. 89., 689-696
- 20 **2017**, *हिमालय में भूकम्प : एक विश्लेषणात्मक अध्ययन*, Vigyan Ganga, Science Jour; BHU, Varanasi, Issue-7, Vol. 10, pp. 58-62 (2231-2455)
- 21 **2016**, *Morphometric Aspects of a small river system of Mirzapur Dist., UP, India; A Case study of Barhi River System*. Jour. of Res. & Development (IJRD), Vol. 3; Issue 3; pp. 250-55; (ISSN: online: 2349-4182, Print: 2349-5979); IF: RJIF-5.72,
- 22 **2016**, *Serpentinities – A Byproduct of Ophiolite Quarries for Regional Development: A case study of S. Andaman Island, Bay of Bengal*; Jour. of Res. & Development (IJRD), Vol. 3; Issue 9, pp 190-96. (ISSN: online: 2349-4182, Print: 2349-5979); IF: RJIF-5.72.
- 23 **2014**; *Global Warming and its Impact on Water Resources: Indian Context*; Sodha Pravaha, Vol. IV, Issue-2, pp. 10-17, (2231-4113).
- 24 **2013**; *GW: Issues, Policies and Regulations*; Sodha Pravaha, Vol. III, Issue-2, pp. 28-35, (2231-4113).
- 25 **2013**; *Environmental Issues, and Ethics: Indian Perspective*; Vaichariki, Vol. III, Issue-2, pp. 14-22, (2249- 8907).
- 26 **2013**; *Environmental Issues, Climate Change and Health: Indian Perspective*; Sodha Pravaha, Vol. II, Issue-1, pp. 6-17, (2231-4113).
- 27 **2012**, *Ophiolites of S Andaman Island & their Tectonic Significance in relation to 90°E ridge, Indian Ocean*. IJSER ( Jour. of Scientific & Engineering Res.), Vol. 3, Issue 12, ( 2229-5518),
- 28 **2012**; *RS & GIS Based Regional Hydromorphogeological Study for GW Prospecting in Hard Rock Terrain: A Case Study in Satna District, MP, India*. Jour. of Advancement in Res. & Tech. (IJOART) Vol. 2, Issue 5. Paper: AJ016284; (2278-7763)
- 29 **2012**; *Application of GIS in Urban Planning, Development and Management*; Sodha Pravaha, Vol. II, Issue-2, 2012, pp. 9-13, (2231-4113).
- 30 **2012**; *The Satellites and their Role in Earth Observation*, Sodha Pravaha, Vol. II, Issue-1, pp. 8-16, (2231-4113).
- 31 **2012**; *The Evolution of ICT*, Sodha Pravaha, Vol. II, Issue-3- 4, pp. 6-17, (2231-4113).
- 32 **2011**; *Biodiversity & its Ecological Significance*, Sodha Pravaha, Vol.1, Issue-3, pp.35-39, (2231-4113)
- 33 **2011**; *Sediment Erosion by Water: An Environmental Concern*, Sodha Pravaha, Vol. 1, Issue-3, pp.19-21, (2231-4113)
- 34 **2011**; *A Geo-scientific Review and considerations of feasibility of Interlinking of Rivers in India*, Sodha Pravaha, Vol. 1, Issue-4, pp .33-41, (2231-4113)
- 35 **2011**. *Potential Role of Serpentinities – A Byproduct of Ophiolite Quarries for Regional Development: A case study of S. Andaman Island*. Manaviki, Soc. for Education & Social Welfare, BHU, Varanasi. (0975-7880).
- 36 **2011**; *Control of Environmental pollution: Constitutional Measures*; Abhivyakti, KJS, Vol. III, No. 1, pp. 69-80. (0975-8801)
- 37 **2010**; *Pros and Cons of Interlinking of Rivers*, Parisheelan, Vol. VI. No, 3; pp. 105-20; (0974-7222).
- 38 **2010**. *Eco-Tourism: An Emerging Trend in Tourism*; Jigyasa, Vol. III, No.3 pp.1-15, (0974-7648).
- 39 **2010**, *Environmental Issues and their Impact on Water Resources: Indian Context*; Sodha Pravaha, Vol. IV, Issue-2, pp. 10-17, (2231-4113).
- 40 **2010**. *Byproduct based industries for backward area development in India with particular reference to S-Andaman Island*, Anusilana, vol. XXVIII. pp. 67-72, (0973-8762)
- 41 **2010**; *Criteria for Strategic Economic investment in Resources of North East India*, Samprajna, Vol. II. No. III. pp. 61-74, (0975-881X).

- 42 **2010**; *Resources of Andaman & Nicobar Islands*, Sri Pratibha Vol.2; Issue. pp: 100-06, (0974-522X). Allahabad./ Jigyasa, Vol. V, pp.1-8, (0973-8762)
- 43 **2007**; *A review on the landslide hazards of Malpa - Pithoragarh, Kumaon Himalaya with Integration of RS & GIS techniques*. Nat. Geog. Jour. of India, Vol. 53, pp. 1-17, (0227-9374)

**(H) Related to Faculty Improvement Programs**

**03**

- 44 **2009**; *Review: Competency Building through ASC Programs*. Univ. News, AIU, Delhi; Vol.47 (12), on *An Evaluation of Orientation Programs of ASC, BHU w r.t. other ASCs in India*. (0227-9374).
- 45 **2008**; *Effectiveness of Orientation Programs*. EDUTRACKS Vol.7, No-8, pp. 36-39 (0972: 9844)
- 46 **2008**; *An Evaluation of Orientation Programs of UGC-ASC, BHU w r t. other ASCs in India*. Univ. News, AIU, Delhi Vol.46, No.44, (0566-2257).

**(E) PROCEEDINGS OF INTERNATIONAL SEMINAR/ CONFERENCE/ WORKSHOP: 1 to 10**

- 01 **2009**; *Geochem. Characteristics of Polymetallic Nodules from Indian Ocean w. r .t. CIOB*. Proc. Symp. (Ed. Vol. Sharma, Srivastava & Karmakar) Rock Mechanics and Geo-environment in Mining & Allied Industries (RGMA). pp. 611-25, Pilgrim Press, Varanasi, UP.
- 02 **2009**; *RS and GIS in Environmental Impact Assessment of Coal Fields: A Case Study*. Proc. Symp. (Ed. Vol. Sharma, Srivastava & Karmakar) Rock Mechanics and Geo-environment in Mining & Allied Industries (RGMA). pp. 585-91, Pilgrim Press, Varanasi UP.
- 03 **2017**, Hydrogeological conditions & GW management options in Arazijine Block, Varanasi Dist, UP, India, IGWC-7<sup>th</sup> GW Conf. on GW Vision 2030, organized by NIH, Roorkee & CGWB, India in association of Global GW Scientists Texas A &M Univ; USA
- 04 **2017**, *Morphometric analysis of Ken sub-basin in parts of Banda Dist. Bundelkhand Region, UP India*, IGWC-7<sup>th</sup> GW Conf. on GW Vision 2030, organized by NIH, Roorkee & CGWB, India in association of Global GW Scientists Texas A &M Univ; USA
- 05 **2017**, *Lithostructural control of GW Occurrence in the Dist. of Mahoba, Bundelkhand Region, UP,/ Groundwater behavior and scope of groundwater recharge in the district Mahoba, Bundelkhand, UP, India*. IGWC-7<sup>th</sup> GW Conf. on GW Vision 2030, organized by NIH, Roorkee & CGWB, India in association of Global GW Scientists Texas A &M Univ; USA
- 06 **2017**, *Hydrochemistry of GW of Singrauli Region*, Conf. on RS & GIS for Application in Geosciences, Dept. of Geol., AMU, Aligarh, UP .
- 07 **2017**, *A Comparative Study of Fe-Mn Deposits of CIOB, Arabian Sea, Bay of Bengal, Pacific and World Oceans*, Conf on RS & GIS for Application in Geosciences, Dept. of Geol., AMU, Aligarh,
- 08 **2017**, *Petrological & Geotechnical Evaluation of Vindhyan Sandstone from parts of Sone Valley*; Conf on RS & GIS for Application in Geosciences, Dept. of Geol., AMU, Aligarh, UP
- 09 **2017**, *Assessment of GW Quality Parameters in parts of Sonbhadra District, UP*; Conf. on 'Sustainable Natural Resource Management: From Science to Practical' (SNRMSP); Inst. of Ag. Science, BHU, Varanasi, UP; pp-127-28.
- 10 **2017**, *Morphology, Mineralogical composition & Chem. Association of Fe-Mn Nodules from CIOB*, Conf. on 'Sustainable Natural Resource Management: From Science to Practical' (SNRMSP); Inst. of Ag. Science, BHU, Varanasi, UP; pp-163-64.

**(F): PROCEEDINGS OF NATIONAL SEMINAR/ CONFERENCE/ WORKSHOP: 11 to 41**

- 11 **2018**, *Morphological & Textural Variation in Fe-Mn nodules w.r.t. AAWB current in CIOB*, Conf. on Climate Change & Natural Resources; Impact & Sustainable Development in Indian Perspective; Dept. of Geology, Lucknow University, UP
- 12 **2017**, 5<sup>th</sup> Nat. Conf. of Ocean Society of India, OSICON-17, National Centre for Earth Science Studies (Ministry of Earth Science), Thiruvananthapuram, Kerala, India
- 13 **2017**, *Assessment of Fluoride contamination of GW of Chopan Block of Sonbhadra Distt*; Conf. on Emerging Scenario of Ganga River Development & Water Resource Management; IESD, BHU, Varanasi, UP

- 14 **2016**, *'Morphology and Chemical Behavior of Fe-Mn Nodules from CIOB'*; pp. 51-52, Sem. Developments in Geo-Science in past decades- Emerging Trend for Future & Impact on Society & Annual Meet, GSI; IIT Kharagpur, WB
- 15 **2016**, *'Geotectonic Evaluation of Vindhyan Sandstone of Kaimur Distt., Bihar; Sonebhadra & Mirzapur Dist. UP'*; pp. 53, Sem. Developments in Geo-Sciences in past decades- Emerging Trends for Future & Impact on Society & Annual Meet, GSI; IIT Kharagpur, WB
- 16 **2016**, *'GW Scenario & Industrial Impact in parts of Sant Ravidas Nagar Dist UP'*; pp. 131-32, Sem. Developments in Geo-Science in past decades- Emerging Trends for Future & Impact on Society & Annual Meet, GSI; IIT Kharagpur, WB
- 17 **2016**, *'A Quantitative Morphometric Evaluation of Barhi River System of Mirzapur Dist, UP'*; pp. 334, Sem. Developments in Geo-Science in past decades- Emerging Trends for Future & Impact on Society & Annual Meet, GSI; IIT Kharagpur, WB
- 18 **2016**, *'GW Behavior in Mahoba District, Bundelkhand Region, UP'*; pp. 353, Sem. Developments in Geo-Science in past decades- Emerging Trends for Future & Impact on Society & Annual Meet, GSI; IIT Kharagpur, WB
- 19 **2016**, *'Morphology, Nucleation and Enrichment of Fe-Mn Nodules in parts of CIOB'*; pp. 66, 33<sup>rd</sup> Convention of Indian Assoc. of Sedimentologist, Dept. of Geol., Inst. of Science, BHU, Varanasi, UP
- 20 **2016**, *'Petrography and Engineering Properties of Vindhyan Sandstone of Kaimur Group from parts of Kaimur District, Bihar'*; pp. 67, 33<sup>rd</sup> Convention of Indian Assoc. of Sedimentologist, Dept. of Geol., Inst. of Science, BHU, Varanasi, UP
- 21 **2016**, *'GW Evaluation in parts of Sonbhadra District, UP'*; pp. 127, 33<sup>rd</sup> Convention of Indian Assoc. of Sedimentologist, Dept. of Geol., Inst. of Science, BHU, Varanasi, UP
- 22 **2016**, *'GW fluctuation in hard rock terrain: A case study of District Mahoba, UP'*; pp. 128, 33<sup>rd</sup> Convention of Indian Assoc. of Sedimentologist, Dept. of Geol., Inst. of Science, BHU, Varanasi, UP
- 23 **2016**, *'Rock mass rating (RMR) and slope mass rating (SMR) study in parts of Srinagar-Pauri, Garhwal Himalaya, Uttarakhand'*; pp. 140, 33<sup>rd</sup> Convention of Indian Assoc. of Sedimentologist, Dept. of Geol., Inst. of Science, BHU, Varanasi, UP
- 24 **2016**, *'GW Scenario of Araziline Block, Varanasi District, UP, India'*, Conf. GW Resources in UP: Challenges and Management; pp-101-08, CGWB, Ministry of Water Resource, India
- 25 **2016**, *'Petro-Geochem. Characterization and Fluoride Contamination of GW in parts of District Sonbhadra, UP, India'*; pp; 117-29; Conf. on GW Resources in UP: Challenges & Management; CGWB, Ministry of Water Resource, India
- 26 **2015**, *'Ancient River Saraswati: A Palaeo-Channel'*; Workshop on 'GW Resource Prospect of Palaeochannels'; pp. 28-32; CGWB, Ministry of Water Resource, Allahabad, India
- 27 **2015**, Sem. "From bricks to clicks-Changing Scenario of Higher Education with ICT", Dept. of Higher Education, Govt. of UP, Varanasi, UP.
- 28 **2014**, Sem. on Role of ICT in Social Sciences, *'Effective Searching Internet for Scholarly Information in Research'*; pp. 1-11, (13-978-9383022008); Dept. of Higher Edu., Govt. of UP
- 29 **2014**, Sem. on Cross Roads of Higher Education, *'Indian Higher Education - ICT Enabled: A paradigm Shift'*, pp-1-18, ISBN ....., Dept. of Higher Education, Govt. of UP, Varanasi
- 30 **2013**; Workshop, Advances in Energy Engineering (Ed. Vol. Shukla, SK), Excel India Publishers, Delhi, *'A review of India's Nuclear Energy Resource: Vision 2020'*, pp: 215-40; (978-93-82880-44-8), IIT, BHU, Varanasi, UP .
- 31 **2013**; Conf. on Energy and Environment for Sustainability (EES-2013), *'Performance of a new Design of Solar Still with Phase change Material Storage System'*, BIT Sindri, Dhanbad, Jharkhand.
- 32 **2012**; *'Biodiversity Loss: A Human Ecological Analysis'*, UGC- Sponsored Conf. on Loss of Biodiversity: Causes, Consequence and Conservation Strategies. Jaunpur, UP
- 33 **2009**; *'Use of RS and GIS Techniques in Change Detection of Land Use and Land Cover – A Case Study'*. Proc. Symp. pp. 10 -15 (Ed. Vol. Krishna & Pandey) Planet Earth: Its Finite Resource & Human Civilization, Varanasi, UP Ministry of Earth Sc., India

- 34 **2008**; *GIS—an advantageous tool for Earth Science Researchers*. Proc. Sem. (Ed. Vol. Kumar & Dey.) Environmental Issues on Geotectonics & Mineral Industry (EIGMI), pp. 260-67, Dhanbad (Excel India Publisher, (81-906531-1-3), Delhi
- 35 **2008**; *Image Classification (Land Use & Land Cover) of LANDSAT ETM 7 Imagery with the help of Image Processing Software: A case Study*. Proc. Sem., (Ed. Vol. Kumar & Dey) Environmental Issues on Geo-technique & Mineral Industry (EIGMI), pp. 275-83, Dhanbad (Excel India Publisher, (81-906531-1-3), Delhi
- 36 **2008**; *Morphology of Polymetallic Nodule from CIOB*. Proc. Sem. (Ed. Vol. Karmakar, Jamal, Jain) Environmental Management in Mining & Allied Industries (EMMA), pp.533-44, Pilgrim Press, Varanasi, UP
- 37 **2008**; *Application of GIS to characterize spatial variation of Fluoride Conc. in Drinking water – A Case Study*. Proc. Sem. (Ed. Vol. Karmakar, Jamal & Jain.) Environmental Management in Mining and Allied Industries (EMMA), pp. 573-76, Pilgrim Press, Varanasi, UP
- 38 **2004**. *Eco-Tourism: An Emerging Trend*. Proc. 87<sup>th</sup> Annual. Ind. Eco. Assoc. (IEA), Varanasi Chapter, pp.70-71, UP
- 39 **2000**; *Mineral Exploration and Economic Criteria for investment in NE India*. Proc. Sem. Impact of Economic Policy Reforms on North East Economics of India, pp. 1-9. Ind. Inst. of Advance Study (IIAS), Shimla, HP.
- 40 **1999**; *Waste mineral based industries for backward area development in India- A case study of S-Andaman Island*, Proc. Sem. Economic Liberalization in India and its Social Implications. pp. 24-29, VBS Purvanchal University, Jaunpur, UP
- 41 **1999**. *Urban Forestry in Sustainable Environmental Management*, Proc. Sem. pp. 235-42, Management of Environmental Pollution. BIT, Sindri, Dhanbad, Jharkhand

**(I) Participation/ Presentation/ Invited lecture in National Sem./ Conf. /Workshop: More than 60**

- 01. 2019**, Short Term Course for Academic Administrators, UGC-HRDC, BHU
- 02. 2019**, Talk on *Asi -Varuna & Ganga Rivers*, for FM Channel of Prasar Bharti, AIR, Varanasi, UP
- 03. 2019**, Faculty Induction Program, PMMMMNMTT, MHRD, IS College, Allahabad University, UP
- 04. 2019**, Workshop, *E-Content, MOOCs & SWAYAM*, Arya Mahila College, BHU, Varanasi, UP
- 05. 2019**, Workshop, *E-Content development*, VKM College, BHU, Varanasi, UP
- 06. 2018**, Faculty Induction Program, PMMMMNMTT, MHRD, IS College, Allahabad University, UP
- 07. 2017**, Workshop, *Art of Academic Writing & Publication Skills*, GM Univ; Sambalpur, Odisha
- 08. 2017**, Workshop, *Research Methodology in Social Science*, Parswanath Vidyapeeth (External Res. Centre, BHU), Varanasi, UP
- 09. 2016**, *Specialized Course in Higher Edu.* NUEPA, N Delhil; UGC-HRDC, Panjab Univ; Chandigarh
- 10. 2016**, Workshop, *Research Methodology in Humanities*, Parswanath Vidyapeeth (External Res. Centre, BHU), Varanasi, UP
- 11. 2016**, Sem.; *Promoting Science and Technology Education in National Language Hindi and Vision of Mahamana Malviya*, Inst. of Science, BHU.
- 12. 2015**; Sem.; Mahamana's Vision on Science & Tech; Nat. Sem; Alumni Cell BHU, Varanasi
- 13. 2015**, Workshop, *Research Methodology and Applied Statistics*, Inst. of Professional Studies (IPS), Gwalior, MP
- 14. 2015**, Sem. "From bricks to clicks-Changing Scenario of Higher Edu. with ICT", Deptt. of Higher Education, Govt. of UP, Varanasi.
- 15. 2015**, Sem. *Varanasi Kal Aaj aur Kal*, IIT-BHU, Varanasi, UP
- 16. 2015**, Sem; *Developing Communication Skill*, UGC-HRDC, Ravi Shanker Shukla Univ., Raipur, CG
- 17. 2015**, ICSSR 'National Capacity Building Program for Faculty Members in Social Sciences', Faculty of Commerce, BHU, Varanasi, UP
- 18. 2015**, Workshop "Research Methodology in Humanities", Parswanath Vidyapeeth (External Res. Centre, BHU), Varanasi, UP
- 19. 2015**, Sem., *Academic Writing & Reviewing*, Inst. of Env. and Sustainable Development (IESD), BHU, Varanasi, UP

20. 2014, Key Note, *Effectively Searching Internet for Scholarly Information in Research*; Sem. on Role of ICT in Social Science, pp. 1-11, (13-978-9383022008); Etawa, UP
21. 2014, Key note, Sem., Cross Roads of Higher Education, *NME-ICT and E Content*, Department of Higher Education, Varanasi, UP
22. 2014, Workshop, *Research Methodology*, MG Kashi Vidyapeeth (Gangapur Campus), Varanasi, UP
23. 2013, Short Term Course for Academic Administrators, UGC-ASC, BR Ambedkar Bihar University, Muzaffarpur.
24. 2013; WASET Conf.: ICECE 2013: Singapore; Conf. on Environmental and Civil Engineering; *Serpentinites: A Byproduct of Ophiolite Quarries for Regional Development - A Case Study of S. Andaman Island (accepted)*
25. 2013; CCAHC Climate Change and Health Conf., London, UK: *Environmental Issues, Climate Change and Health: Indian Perspective (accepted)*
26. 2013, Conf., *Energy and Environment for Sustainability (EES-2013)*, BIT Sindri, Dhanbad, Jharkhand
27. 2013, DAV Inst. of Engineering & Technology (All India DAV Group of Inst. of Engineering & Tech., Ludhiana); NP Univ. Daltonganj/ Medinipur, Jharkhand,
28. 2012; Sem., Mahamana's Vision of National Building; Alumni Cell, BHU & IIT-BHU, Varanasi
29. 2011; *Post World Ayurveda Congress on Advancement of AYUSH Systems and Career options*; IMS, BHU, Varanasi, UP
30. 2011; *Human Rights with special reference to Women's*, UGC-Sem.: Human Rights Education, Varanasi, UP
31. 2011; Sem; *Occupational Health Hazards: Technology, Energy and Sustainable Rural Environment (TESRE)*, Dept. of Geog, UGC SAP DRS-1, BHU, Varanasi.
32. 2010; *Role of Staff Development Program in India*; Sem. on Envisioning Quality Academic Professionalization in Higher Education Based on Indo-British Experience; AMU, Aligarh, UP.
33. 2010, Workshop, *Role of ASCs in Improving Quality of Teachers in Higher Education*; Dept. of Higher and Professional Education, NUEPA, N Delhi.
34. 2010-11, Mentor *INSPIRE-SEAT Internship*, BHU, Varanasi (DST, Ministry of Sc. & Technology, India)
35. 2010, Talk on INSPIRE, *MHRD Programs for Youths* on Prasar Bharti, AIR, Varanasi, UP
36. 2009. *Analysis of physico-chemical parameters of UG & SW of Ghazipur City, UP*. Conf. on 'Sustainable Approaches for Water Management & Conservation, FSS, BHU, Varanasi, UP
37. 2008. *Rivers in Rigved: Application of Remote Sensing*. Conf. on Issues Causing Threat to Our Environment, SVDV, BHU, and Parshvanath Vidyapeeth, Varanasi UP.
38. 2007; 2<sup>nd</sup> world Conf. on Vedic Sciences, *Rivers in Rigved: Application of Remote Sensing*. BHU, Varanasi, UP
39. 2007; *Art of digitization and its advantage*. Sem. RS and GIS in Geographical Studies, Dept of Geography, Inst. of Science, BHU, Varanasi, UP
40. 2007; *Indoor Air Pollution*, Conf. on Air Pollution & Health Effects (NACAPHE); ASC-BHU, Varanasi, UP
41. 2007; *Applications of RS, MODIS Data for monitoring Aerosols conc. over Indo-Ganga plain*; Conf. on Air Pollution & Health Effects (NACAPHE); ASC-BHU, Varanasi, UP
42. 2007; *E-Content: A new approach to scholarly communication*; Sem-cum-Workshop on Research Methodologies and Communication Skills (REMECOS); ASC-BHU, Varanasi, UP
43. 2006, Talk on *Role of EDUSAT*, for FM Channel of Radio Gyanvani, AIR, Varanasi, UP.
44. 2006, Workshop, RS & GIS Division, Dept. of Geology, MGCG University Chitrakoot, Satna, MP.
45. 2006; *Severe Crisis of Drinking Water in Mega Cities Situated at the bank of river Ganga: Causes and Remedial Measurements*; Dept. of Civil Engineering, IIT- BHU, Varanasi, UP
46. 2005; *Impact of Modern Science & Technology on Society, Culture and Environment*, Dept. of History, Faculty of Social Science, BHU, Varanasi, UP
47. 2005. *Environmental Pollution in Mining Areas: Physiological and Behavioural Problems*. Sem. Environmental Pollution & Behavioural Problem. Gurukul Kangri Univ. Haridwar, UK (accepted)



48. 2005. Sem. *Science, Humanity and Quality of Life*, Environmental Pollution and Behavioural Problems; Gurukul Kangri Univ. Haridwar, Uttarakhand (accepted)
49. 2004, 26<sup>th</sup> Ind. Geog. Cong. (IGC), *Interlinking of Rivers – A Geotectonic Perspective*. MD University, Rohtak, Haryana.
50. 2004. 26<sup>th</sup> Ind. Geog. Cong. (IGC), *Greenhouse Emission-Retrospection.*, MD Univ. Rohtak, Haryana
51. 2003. *Sea Floor Nodules of Indian & Pacific Ocean*; Sem. National. Metallurgist Day. BIT, Sindri, Dhanbad, Jharkhand.
52. 2001. *Analysis of Physico-chemical Parameters of Underground and Surface water of Ghazipur, U.P.*, Proc. Sem. pp. 34-35, HNB University, Srinagar, Uttarakhand.
53. 2001. *Techniques in Avalanche Studies in Himalaya*. Conf. Environmental Conservation, Sustainable Dev. & Industrial Expansion in 21<sup>st</sup> Century, Nehru Science Centre, Allahabad University.
54. 2001; *Small Hydro-electric projects: a way to prosperous Uttaranchal*, Conf. on Environment Development & Quality of Life, Dept. of Geog. DDU University, Gorakhpur, UP
55. 2001. Sym. *Prospects of Eco-tourism in UP*; Disaster Management & Conservation of Bio-diversity HNB University, Srinagar, Uttarakhand,
56. 2001, *Environmental Education Centers: A New Approach*; Conf. Environmental Conservation, Sustainable Dev. & Industrial Expansion in 21<sup>st</sup> Century, Nehru Science Centre, Allahabad University.
57. 1998; *Bio-chem. Investigation of Stromatolyte of Pithoragarh, Kumaon Himalaya*; Sem. Plant Biotech. for Sustainable Hill Agriculture Development, DRDO (DARL), Pithoragarh, Uttarakhand
58. 1995; *Opening of Andaman Sea and its relation with Himalayan Tectonics*; Sym. Recent Advances in Geol. Studies of NW Himalaya and the Foredeep. Sp. Vol. GSI., Lucknow, UP (accepted)
59. 1994; Sem. *Mining and its Impact in Lesser Kumaon Himalaya*. Hill Development: Quest for a Viable Option, Pithoragarh, Kumaon University, Uttarakhand.

**INVITED lectures/ Resource Person (at HRDC):**

**More than 300 Lectures**

**EDITOR/ MEMBER Editorial Board of Journals**

- **Editor:** (Interdisciplinary Journals)  
Atlantic Jour. of Development Studies (0973-3078), N.Delhi; Sodha Pravah (2231-4113), Varanasi
- **Member,** Advisory Board (Interdisciplinary Journals)  
Medha (0975-0886), Jigyasa (0975-7648), Adhikar (2231-2552), Insight Plus (2394-5559)

**Other Academic Assignments**

- Member Selection Committees: National Inst./ Univ. for selecting technical/ Project Fellow/ non-teaching members
- Designed curriculum of Geology for VBS Purvanchal University, Jaunpur, UP
- Paper Moderator/Examiner of State Public Service Commission's and Universities

**Convener/ organizer of National Seminar/ Workshop/ Conference**

**10**

- 2007, *Research Methodology & Communication Skill (REMECOS)*, BHU, Varanasi
- 2007, *Air Pollution and Health Effects (NACAPHE)*, BHU, Varanasi.
- 2010-11, INSPIRE INTERNSHIP Science camps, by DST, Ministry of Sc & Technology
- 2010, NASDOC Sponsored Workshop under the aegis of ICSSR, Delhi.
- 2018, Workshop on *Research Methodologies*, BHU, Varanasi

**COORDINATOR of Courses/Workshops/Short Term Courses:**

**More than 75**

\* *International (India- Nepal)*

- **Orientation Program for students of Nepal** (28 days)  
(under Bharat - Nepal Siksha Maitri Karyakaram, under Connect to India Program, 2016)

\* *National* (for Teachers/Academic Administrators of University/ Colleges)

- Faculty Development Program (FDP)

- **Short Term Courses** (Academic Administrators) (7-10 days)
- **Workshops** (7-10 days)
- **Orientation Programs** (28 days).
- **Refresher Courses/ Summer School/ Winter School** (21 days).
- **Training Program** (Non-teaching employees)
- **Training Program** (NSS Program Officers)
- **INSPIRE AWARD PROGRAM**, DST, Ministry of Sc. & Technology, Govt. of India.
- **Interaction Program** (21 days) for Ph D Scholars

#### MEMBER,

- Mahamana Malviya Mission (Malviya Smriti Bhawan), N Delhi
- Centre for Teaching Excellence and Learning, Inst. of Agricultural Sc., BHU, Varanasi, under Agricultural Innovation Partnership Program of USAID, USA.
- Land Acquisition Committee for Educational Institution Building in Hilly area of UP (Uttarakhand), Deptt. of higher Education, Govt. of UP.
- Board of Studies of Geology Kumaon, Nainital & Purvanchal University, Jaunpur

#### Extra – curricular/ Extension Activities

##### (As a student)

- **NCC - B and C Certificate in 'A' Grade**
- **Under Officer**, 7 UP Air Squadron, Air Wing, NCC, BHU, UP
- Participated in ATC, Bamrauli Air Force Station, Allahabad; and All India Yaju Sainik Camp, Jaipur,
- Member, NSS, Science Faculty, BHU, Varanasi
- Chief Councilor, Science Faculty, BHU, Varanasi

##### (After entering into service)

- Program Officer, NSS, Pithoragarh, Kumaon University, Uttarakhand
- Recommended for ANOS in National Cadet Corp (NCC)

#### Participation in Programs: *(Refresher / Orientation / Training / Workshops etc.):*

**26**

ACADEMIC ADMINISTRATORS COURSES		
Course for Academic Administrators	BHU, Varanasi	2019
		2010
Certificate Course in Book Publishing	National Book Trust (NBT), MHRD, Delhi	2017
ORIENTATION & REFRESHER COURSES		
Orientation (General)	Lucknow University, Lucknow, UP	1995
Orientation & Refresher (NSS Officers)	TOC, Literacy House, Lucknow, UP	1997
		1997
		1998
Refresher : Geology	Lucknow University, Lucknow, UP	1995
	Applied Geology	ISM-IIT , Dhanbad, Jharkhand
Refresher : Environmental Sc	BHU, Varanasi	2005
		Earth Science
TRAINING PROGRAMS		
Advanced Training Program on RS & GIS	MGCG University, Chitrakoot, Satna, MP	2006
ISTE Training Program on Geo- mining Applications in Mining & Allied Area	BIT, Sindri, Dhanbad, Jharkhand	2001

DST Contact Program on Art of Petrography	Deptt. of Geology, BHU, Varanasi, UP	2006
Training Program for Educational Administrators	Higher Edu., Govt. of UP, Allahabad	1994
Advance Computer Training Program		2005
<b>WORKSHOPS</b>		
RTI Act - 2005	ISTM ( Inst. of Secretariat Training & Management), Dept. of Personnel & Training, Ministry of Personnel, Public Grievance & Pension, GOI, Delhi, and BHU	2010 & 2012
INSPIRE-SEAT Program	IISER- Pune, Maharashtra (DST, Ministry of Sc. & Technology)	2010, 2012
University Coordinator, Distance Learning/ EDUSAT based outreach Program on RS, GIS, GPS	IIRS, Dehradun, Uttarakhand	2018
Information literacy Program: Author Workshop on Scholarly Publishing	Wiley -Blackwell, USA and BHU Springer and BHU	2012 2014
Sustainable Development & Management of GW Resources	CGWB, Lucknow, Northern Region	2015
Higher Education: University & Governance	NUPEA, Delhi & HRDC- Punjab Univ., Chandigarh	2016
Grammarly - Writing Tool	BHU, Varanasi	2017
<b>WORKSHOPS related to MOOCs &amp; SWAYAM</b>		
NRC & MOOC's	MHRD & UGC, N Delhi (May. 11)	2018
Teaching - Learning Resource for Teachers in Higher Education	MHRD & NEUPA, N Delhi June, 18-20, August, 6-10	2018
E-content for SWAYAM		2018
E-content for SWAYAM	MHRD & NDIM, N Delhi (July, 11)	2018
E-content for SWAYAM	UGC- HRDC, BHU (August, 19-25)	2018