

FACULTY PROFILE: Prof. R.K. Rawat

Name	RAJENDRA KUMAR RAWAT	
Designation	PROFESSOR	
Department	APPLIED GEOLOGY	
School	School of Engineering & Technology	
Date of holding Present Post	31 st March 2012	
Date of birth	25 th June 4 1961	
	E-mail : rkrawat@dhsgsu.ac.in	Contact Address:
	Mobile: 9893495335, 8966067924 Department https://dhsgsu.edu.in/index.php/en/departments01/applied-geology Website: https://dhsgsu.edu.in	Office: Deptt. of Applied Geology, Dr. H. Gour Vshwavidyalaya, Sagar 470003 (MP) Resi: MIG 4, Phase 2, Rajiv Nagar, Shivaji Ward, Tili, Sagar 470002 (MP)

ResearchGate: https://www.researchgate.net/profile/Rajendra-Rawat?ev=hdr_xprf

Google Scholar:

https://scholar.google.com/citations?view_op=list_works&hl=id&user=1b4ILCcAAAAJ

EDUCATIONAL QUALIFICATION (UG ONWARDS): B Sc 1981, M Tech 1984 and Ph D 1994

FIELD OF SPECIALIZATION: ENGINEERING GEOLOGY

RESEARCH INTEREST: Remote sensing, Environmental Geology & Field Geology

PROFESSIONAL CAREER PROFILE: Expertise in engineering geology (Landslide problems), environmental geology (mine and industrial effluent studies), field geology, remote sensing and GIS (Geoinformatics)

SCHOLARSHIPS/AWARDS/HONOURS:

1. DST Fellowship (1984-86),
2. UGC (Engineering & Technology Fellowship) 1987-91,
3. Executive member of INCA (2011-13),
4. Coordinator, IESO (International Earth Science Olympiad, The Geological society of India, Bengaluru under MoES, GOI, since 2013,
5. Coordinator IIRS-Indian institute of Remote Sensing, Dehradun, Deptt. of Space, Govt of India, since 2007
6. Coordinator for MOOC Course on “Photo Geology & Remote Sensing” under UGC CEC programme (Third cycle)

SUPERVISION / GUIDANCE: M.Tech./ PH.D. / PDF / RA

(i) PDF / RA Supervised: None

(ii) Ph.D. Supervised: Five

1. Navneet Franklin James – Assessment & management of water quality in Sagar lake and surrounding areas, dist. Sagar, MP, supplemented by remote sensing, Ph. D. awarded on Apr 24, 2019
2. Abhilasha Chourasia – An environmental impact of Rajghat Dam, catchment area, dist Sagar, MP, India using geoinformatics techniques, Ph. D. awarded on Jul 5, 2019
3. Sunil Kumar Panday – Study of neotectonic activity in the lower Chambal valley using remote sensing & GIS techniques, Ph. D. awarded on Oct 23, 2023
4. Awadesh Kant Soni – Studies of major landslides along Mumbai - Pune route (railway & roadway) in Western Ghats using remote sensing and GIS, Ph. D. awarded on Oct 23, 2023
5. Viabhav Jain - Investigation of major landslides along NH10 from Singtam to Gangtok in Sikkim region, North Eastern India, Ph. D. awarded on Oct 23, 2023
6. Late Rajesh Kumar Soni - A geographical revaluations of Ken-Betwa Interlinking System through RS/GIS techniques, Ph. D. awarded on Apr 10, 2012

(iii) Ph.D. Scholars working: Two

1. Nalini Das: Title- Study of major Landslides along Rudraprayag to Joshimath road on NH 07 by LHZ Mapping using Remote Sensing and GIS, Date of Joining - 19/01/2022
2. Sumana Murmu: Assessment of Groundwater pollution vulnerability using GIS based DRASTIC model in and around Marar industrial area, Ramgarh, Jharkhand, Date of joining -19/01/22

(iv) M. Tech. Supervised: About 10 field camps dissertations and 50 dissertations on Mineral exploration Trainings

RESEARCH PROJECT: Completed/Ongoing

1. Completed DST project at IIT, ISM, 1986, PI: Late Prof. V. D. Choubey

2. Completed UGC Minor Research Project on Slope Failure problems in Pachmarhi Hills, MP

LABORATORY RESPONSIBILITIES

1. UG & PG Petrology Practical during 1994-97
2. Engineering & Environmental Geology Practical, since 1997
3. Photo geology & Remote Sensing Practical, since 2000
4. Geomorphology Practical at UG level, since 1997

ADMINISTRATIVE/ACADEMIC RESPONSIBILITIES:

Worked in various capacities as:-

- a) Head of the Department, Applied Geology (2017)
- b) Dean of school of Engineering & Technology (2019)
- c) Member of Academic Council, Dr. Harisingh Gour Vishwavidyalaya, Sagar,
- d) Member of Academic Programme Committee, Dr. Harisingh Gour Vishwavidyalaya, Sagar,
- e) Members of Board of studies in Geology & Applied Geology
- f) Member of Advisory Board in ADINA Institute of Science & Technology, Sagar
- g) Member of BOS in Geology & Remote Sensing, Engineering streams at Swami Vivekanand Institute of Technology, Sagar
- h) Assistant superintendent & superintendent in university exams,
- i) Member of counselling committees for UG & PG admission,
- j) Assistant/Deputy Proctor in Proctorial board of University,
- k) Member of library committee, building committee,
- l) Organising Secretary and members in technical committees of National Seminars organized by the Department of Applied Geology

EDITORIAL RESPONSIBILITIES

Worked as member of Technical Committee of various National Seminars organized by the Department

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

1. Fellow J GSI, Journal Geological Society of India, Bangalore
2. Fellow GGM, Gondwana Geological Society, Nagpur
3. Fellow WIHG, Wadia Institute of Himalayan Geology, Dehradun
4. Fellow ISEG, Indian Society of Engineering Geology, Lucknow
5. Fellow ISRS, Indian Society of Remote Sensing, Dehradun
6. Fellow Geospatial Magazine, Noida
7. Fellow Coordinate Magazine, Noida
8. Fellow MB, Journal of Madhya Bharti, Dr. Harisingh Gour Vishwavidyalaya, Sagar

RESEARCH PAPER PUBLICATION IN PEER-REVIEWED JOURNALS:

Vaibhav Jain, R. K. Rawat, Awadhesh Kant Soni, and Sunil K Panday (2023) Geological, geomorphological and kinematic study of the Martam landslide, East Sikkim, India, IOSR Journal of Applied Geology & Geophysics (IOSR-JAGG), Vol. 11, Issue 4, Ser. I, e-ISSN: 2321–0990, p-ISSN: 2321–0982, DOI, 10.9790/0990-1104015256, pages 52-56

R.K. Rawat , Manish Purohit, Awadhesh Kant Soni, Vaibhav Jain and Sunil Kumar Panday (2023) Geomorphological Studies around Ratona Area, District Sagar, MP, India Supplemented with Field Investigations, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 12, issue 7, e-ISSN: 2319-8753, p-ISSN: 2320-6710, DOI: 10.15680/IJIRSET 1207085, pages 9624-9633

Joshi, B. C. , Rawat, R. K., Soni, Awadhesh Kant and Panday, Sunil Kumar (2023) Hillslope instability in parts of neotectonically active Garhwal Himalaya, India, International Journal of Advance Research and Innovative Ideas in Education (IJARIIE), Vol. 9 issue 3, 2023, IJARIIE – ISSN(O)-2395-4296, pages 4673-4683

Panday S. K., Rawat R.K., Soni Awadhesh Kant 3, Jain Vaibhav (2023) Structural Control On The Drainage Of Ravines In The Lower Chambal Valley, Manifests Neotectonic Reactivation Of The Old Underlying Structural Elements, IOSR Journal of Applied Geology & Geophysics (IOSR-GJAG), Vol.11, issue 4, Sr. II, e-ISSN: 2321–0990, p-ISSN: 2321–0982, DOI: 10.9790/0990-1104023846, pages 38-46

Sunil K Panday & R K Rawat (2023) Study of extent and characteristics of Badland areas using visualization techniques on DEM for the Lower Reaches of Chambal Yamuna and its Tributaries, Madhya Bharti Journal of Sciences published from Dr. H. S. Gour Vishwavidyalaya, Sagar, Vol. 63, ISSN 0972-7434, pages 61-67

Vaibhav Jain, R. K. Rawat, Awadesh Kant Soni & Sunil K Panday (2022) Development of methodology for identification of landslide susceptibility area along NH10 from Singtam to Gangtok, East Sikkim using GIS based modeling, International Journal of Science and Research (IJSR) www.ijsr.net, ISSN (Online): 1271- 1277, Paper ID SR22718172927, published online in Volume 11 Issue 7

Sunil Kumar Panday, R. K. Rawat, Awadhesh Kant Soni, Vaibhav Jain (2022) Morphotectonic Evidences of Neotectonic Activity in the Lower Chambal Valley Region, India, DOI : 10.21275/SR22719204103, International Journal of Science and Research (IJSR) www.ijsr.net, ISSN (Online): 2319-7064, Paper ID SR22719204103 published online in Volume 11 Issue 7, pages 1391-1399

Awadhesh Kant Soni, R.K. Rawat, Vaibhav Jain, Sunil K Panday (2022) Landslide Susceptibility Mapping along Mumbai, Pune Expressway, Western Ghats, Maharashtra, Using Remote Sensing and GIS, International Journal of Science and Research (IJSR), DOI: 10.21275/SB22718114228 Volume 11 Issue 7, pages 1246-1250

Chourasia, A & Rawat, RK (2017) Groundwater assessment and its health impacts for Rajghat reservoir, Sagar District, MP, Bi-annual Journal of ISEG, Jour. of Engineering Geology, Volume Vol.XLIL, Nos.1 & 2, pages 133-146

James, Navneet Franklin & Rawat, RK (2015) Current status of pollution in Sagar lake using Geoinformatics, ISSN 2348-9480, International Journal of Emerging Trends in Science & Technology, Volume 2 (7), pages 2855- 2859

Rawat, R. K (2015) Landslide problems in Sikkim region in north Eastern Himalaya, Int. Conf. on Engineering Geology in New Millennium, 27-29 Oct, IIT. New Delhi, 212, Proc. International Conference on Engineering Geology in New Millennium, 27-29 Oct. 2015, IIT. New Delhi, Volume , Year 2015, Pages 212

Chourasia, A, Rawat, RK & Thomas, H (2015) Drainage network analysis of Rajghat Dam Reservoir, dist. Sagar, MP, India using Geoinformatics techniques, <http://www.ijesit.com>, International Journal of Engineering. Science and Innovative Technology, ISSN: 2319-5967 ISO 9001:2008, Volume 4 (02)

James, Navneet Franklin & Rawat, RK (2013) Identification of sources of pollution in Sagar lake using remote sensing techniques, , Proceedings 33th INCA International Congress on Integrated Decentralized Planning: Geospatial Thinking and Good Governance, Cazri, Jodhpur, Volume 33, pages 373-375

Rawat, R. K. (2012) A field trip to Girar: A educational field mapping and training documentary Film, Produced by Dr. Pankaj Tiwari, Director EMMRC, Sagar telecasted on Swayam Prabha & Vyas TV channels

Thakur, GS, Raghuwanshi, RS & Rawat, RK (2010) A quantitative morphometric analysis of Choral River basin in parts of Indore and Khargone districts, MP, India, , Journal of Applied Hydrology, Volume 23 (3,4), Pages , 1-10

Trivedi, RK, Rawat, RK, Soni, L & Jain, V. (2007) Appraisal of engineering geological parameters of rocks in and around mines – A case study, Journal of Engineering Geology, ISEG, Lucknow, India, Volume 34, (1 - 4) , Pages 1-16

Rawat, R.K. and Trivedi, R.K. and Soni, L. (2007) Patalkot landslide, Madhya Pradesh - A case study, , Journal of the Geological Society of India, Volume 69, Pages 344-346

Rawat, RK, Tivedi, RK & Dubey, N (2006) Fluvial geomorphic evidences of neotectonic activity around Damoh, MP, India using remote sensing techniques, Madhya Bharti Journal, Volume 50, Pages 5-9

Tiwari, Deepmala, Rawat, R.K., Jain, J.L. & Mishra, Shweta (2005) Geological evaluation of Terrain using remote sensing techniques, Proc. 25th INCA Int. Cong. 2005, On Bridging the digital divide and taking cartography to grassroots level, pages 196-199,

Rawat (R K 2005) Geotechnical Investigations of Chandmari Landslide located on Gangtok-Nathula road, Sikkim Himalaya, India, , Jour. of Himalayan Geology, Dehradun, India, Volume 26 (2), pages 309-322

Rawat, RK & Trivedi, RK (2004) Slope failure studies using geomorphic techniques. A case study of Banjarimai landslide, Chhindwara, Gondwana Geological Magazine, Nagpur, India, Vol.19, Issue (1), Pages 1-21

Choubey, VD & Rawat, RK (1991) Hydrogeologic and environmental impact of Amjhore pyrite mines, India, Environmental Geology and Water Sciences, Volume 17(1), pages 51-60

Choubey, VD & Rawat, RK (1990) Geotechnical investigations of landslides in Sikkim region, India, , Proc. ALPS - 90, 6th International Conference & Field workshop on Landslides, Switzerland-Austria-Italy, Volume, pages 136-144

Choubey, VD & Rawat, RK (1990) Engineering geological appraisal of the major landslides and their stabilization in the Sikkim region, India, Proceeding International Congress, Amsterdam, Netherlands, Volume, pages 1547-1554

Thakur, GS & Rawat, RK () Roof-top rainwater harvesting: A technique of groundwater recharge and conservation, Madhya Bharti Journal, Volume 55, pages 38-41

SEMINAR / CONFERENCE / WORKSHOP: Organized/attended

Organised a National Seminar on Sedimentary Researches: Last five decades of advancement and prospects in future & 35th Convention of Indian Association of Sedimentologist, 28 to 30 Jan 2019

Organised a National Seminar & Annual General Meeting (AGM) 2017 of Geological Society of India, 26 to 28 Oct. 2017

Attended a two days workshop organized by TLCSS, Dr. H. S. Gour, V. V. Sagar, 4Oct. 2019

Attended a workshop on IPR organized by Deptt. of Pharmaceutical Sciences, Dr. H. S. Gour, V. V. Sagar 10 Feb. 2020,

Attended a workshop organized by iGroup Infotech India private Ltd, at Golden Jubilee Hall, Dr. H. S. Gour, V. V. Sagar 9 Mar. 20214

Attended as delegates a workshop on IPR at Indira Gandhi Engineering College, Sagar 25 Apl. 2015

Attended a International Conference of Engineering Geology at IIT Delhi, 27 Oct. 2015

Attended as Coordinator EDUSAT at IIRS User Meet at IIRS, Dehradun, 11 Mar. 2013

INVITED TALK DELIVERED

Speaker: Technical presentation at National seminar organized by Swami Vivekanand Technical University, Sagar on mineral exploration using Remote Sensing & GIS, 6 Oct. 2018

Speaker: Expert Lecture on Remote sensing and Geographic Information System, TECHREVOL 2K15 at Adina Institute of Sciences, Sagar, 5 Mar. 2015

Co-chair/rapporteur of the session: International conference organized By Indian National Cartographic Association at NHO, Dehradun on 11 Oct 2012

Paper presented on Recent senerio of Rajghat dam reservoir of Sagar and their health hazard at 36th INCA Int. Conferernce held at Shantineketan, 9 Nov 2016

A special lecturer on Application of Remote Sensing for groundwater investigation aorganised by CGWB, Bhopal unit at Deepali Hotel, sagar, 14 Oct 2014

For presentation and discussion as Coordinator EDUSAT at IIRS User Meet at IIRS, Dehradun, 11 Mar. 2013

Resource person In national workshop on "Spectroscopy & chromatographic Techniques" held at Adina institute of Pharmaceutical Sciences, Sagar, 27 July 2014