

**1. Details of the Teacher/ Academic:-**

<b>Name :</b>	<b>DR MEENAL MISHRA</b>
<b>Date of Birth:</b>	10 <sup>TH</sup> JULY 1964
<b>Date of Joining in IGNOU:</b>	1 <sup>st</sup> September 2010
<b>Current Designation:</b>	Professor of Geology Director, School of Sciences
<b>Level as on date:</b>	14
<b>Highest Qualifications:</b>	M.Sc. (Geology), PhD. (Geology)
<b>School/ Division/ Institute/ Centre/ Cell:</b>	School of Sciences

**2. Honour/Award/Fellowship/membership of Professional body/ Statutory body (internal/ external) received by the Teacher/ Academic:**

<b>Name of the recipient,</b>	<b>Honour /Award/ Fellowship name</b>	<b>Agency name /Name of statutory body/ institution/ Apex body</b>	<b>Period</b>
Meenal Mishra	Chairperson	School Board of School of Sciences	9/07/2022 till 8/07/2025
Meenal Mishra	Director	School of Sciences	9/07/2022 till 8/07/2025
Meenal Mishra	Member	School Board of School of Sciences, IGNOU	Dec. 2010 to 2012
Meenal Mishra	Member	Academic Council, IGNOU	July 2022- Dec. 2023
Meenal Mishra	Member	Academic Council Standing Committee, IGNOU	July 2022- Dec. 2023
Meenal Mishra	Member	Academic Programme Committee, IGNOU	Oct 2022-Nov 2023
Meenal Mishra	Member	Establishment Committee, IGNOU	Nov 2022-Oct 2024
Meenal Mishra	Member	Examination Committee, IGNOU	May 2023-July 2025
Meenal Mishra	Member	Student Services Committee, IGNOU	Oct 2023 – July 2025
Meenal Mishra	Member	Coordination Committee for Online courses, IGNOU	Aug 2024-July 2025
Meenal Mishra	Best paper award	Wadia Institute of Himalayan Geology, Dehradun	1994
Meenal Mishra	Fellow	Geological Society of India, Bangalore	Lifelong
Meenal Mishra	Junior Research Fellowship (JRF)	Department of Science & Technology, New Delhi at Wadia Institute of Himalayan Geology, Dehradun	28.03.1988 to 28.02.1990 (2 yrs)
Meenal Mishra	Senior Research Fellowship (JRF)	Department of Science & Technology, New Delhi at	01.03.1990 to 27.10.1992

		Wadia Institute of Himalayan Geology, Dehradun	(1 yrs 7 mths)
Meenal Mishra	Extended SRF	DST, New Delhi at Wadia Institute of Himalayan Geology, Dehradun	28.10.1992 to 28.02.1993 (4 mths)
Meenal Mishra	Extended SRF	Department of Science & Technology, New Delhi at University of Delhi, Delhi	01.03.1993 to 31.01.1994 (11 mths)
Meenal Mishra	Research Associate	CSIR at Jawaharlal Nehru University, New Delhi	01.02.1994 to 31.01.1999 (5 yrs)
Meenal Mishra	Senior Research Associate	CSIR at Jawaharlal Nehru University, New Delhi	01.02.1999 to 31.08.2001 (2 yrs 6 mths)

**Memberships:**

- Life member Geological Society of India
- Life member of Indian Geological Congress, Roorkee.
- Life membership of Society of Earth Scientists, Lucknow.
- Member of Indian Association of Geochemists, Varanasi.
- Member of Editorial Board of Indian Journal of Geochemistry.

**3. Books/Book Chapter: 59**
**IGNOU Units: 49**

- Co-author/co-editor if any, title, place of publication, publisher, Year, page (no) s, ISBN N

SN	Name of Author1 / Editor 1, & Co-author (s) / Co-editor (s) (if any)	Title of chapter/book	Place of publication	Publisher	Year	Total Pages	ISBN No.
1.	<b>Meenal Mishra</b>	Unit 10: Elements of Visual Interpretation and Interpretation Keys. In: Course: Remote Sensing and Image Interpretation (MGY-102) MSCGI	New Delhi	IGNOU	Nov 2023	33-56	978-93-5568-997-9
2.	<b>Meenal Mishra</b>	Unit 9: Introduction to Visual Interpretation. In:	New Delhi	IGNOU	Nov 2023	9-32	978-93-5568-997-9

		Course: Remote Sensing and Image Interpretation (MGY-102) MSCGI					
3.	<b>Meenal Mishra</b>	Unit 8: Remote Sensing Data Products and Formats. In: Course: Remote Sensing and Image Interpretation (MGY-102) MSCGI	New Delhi	IGNOU	Nov 2023	167-192	978-93-5568-983-2
4.	<b>Meenal Mishra</b>	Unit 5 Image Resolutions. MGY-102 Course of MSCGI	New Delhi	IGNOU	Nov 2023	107-130	978-93-5568-983-2
5.	<b>Meenal Mishra</b>	Petrological studies of serpentinite from the Shergol Ophiolitic Mélange, Ladakh Himalaya: Remnant of the Oceanic Lithosphere along Indus Suture Zone. In: Geology and Natural Resources of Himalaya (Ed.) R. A. Singh and Piyush K. Singh	Lucknow	ASR Publications,	2021	154-171	978-93-83247-95-0
6.	<b>Meenal Mishra and Bandana Samant</b>	Feldspars: Life-Sustaining Minerals on the Earth. In: Minerals and their properties: Novel Approach for Applications (Eds.) Sanjay J. Dhoble, Anup P. Bhat, Renu Nayar and Bandana Samant. Published by.. ISBN:, pp.	New York	Nova Science Publishers , Inc	2020	227-252.	978-1-53618-990-2
7.	Bilal A. Sunu, H. Wani, <b>Meenal Mishra</b> , Imran Khan	Quartz microstructure characteristics of Pliocene-Pleistocene Karewa Group of Kashmir. In: (Eds.) Geological Developments in Anthropocene, B. Nallusamy, M.A. Mohammed Aslam, S. Gandhi, S. M. Hussain,	New Delhi.	Excel India Publishers	2022	24	9789391355173
8.	<b>Meenal Mishra</b>	Unit 3: Mapping Geological Structures. In: Course: Geoenvironmental applications of Geoinformatics (MGY-	Under Printing		2024		

		011) MSCGI					
9.	<b>Meenal Mishra</b>	Unit 2: Lithological and Mineralogical Applications. In: Course: Geoenvironmental applications of Geoinformatics (MGY-011) MSCGI	Under Printing		2024		
10	<b>Meenal Mishra</b>	Unit 1: Landform Mapping. In: Course: Geoenvironmental applications of Geoinformatics (MGY-011) MSCGI	Under Printing		2024		
11	<b>Meenal Mishra</b>	Unit 18 Archaeological Applications. In: Course: Applications of Geoinformatics (MGY-007) MSCGI	New Delhi	IGNOU	May 2024	315-344	978-93-6106-836-1
12	<b>Meenal Mishra</b>	Unit 9 Geological Hazards. In: Course: Applications of Geoinformatics (MGY-007),	New Delhi	IGNOU	May 2024	11-54	978-93-6106-836-1
13	<b>Meenal Mishra</b>	Unit 4 Remote Sensing of Landforms. In: Course: Applications of Geoinformatics (MGY-007) MSCGI	New Delhi	IGNOU	May 2024	117-158	978-93-6106-834-8
14	<b>Meenal Mishra</b>	Unit 3 Remote Sensing of Soil Minerals and Rocks. In: Course: Applications of Geoinformatics (MGY-007) MSCGI	New Delhi	IGNOU	May 2024	85-116	978-93-6106-834-8
15	<b>Meenal Mishra</b>	Unit 16 GIS Outputs. In: Course: Global Navigation Satellite System and Geographic Information System (MGY-103) MSCGI	New Delhi	IGNOU	April 2023	167-190	978-93-5568-802-6
16	<b>Meenal Mishra</b>	Unit 15 Raster Data Analysis. In: Course: Global Navigation Satellite System and Geographic Information System (MGY-103) MSCGI	New Delhi	IGNOU	April 2023	147-166	978-93-5568-802-6
17	<b>Meenal Mishra</b>	Unit 2 Navigation Satellite Programmes. In: Course: Global Navigation Satellite	New Delhi	IGNOU	April 2023	33-60	

		System and Geographic Information System (MGY-103) MSCGI					
18	<b>Meenal Mishra</b>	Unit 1 Introduction to Navigation Satellite System. In: Course: Global Navigation Satellite System and Geographic Information System (MGY-103), MSCGI	New Delhi	IGNOU	April 2023	11-32	978-93-5568-792-0
19	<b>Meenal Mishra</b>	Unit 4: Precambrian Stratigraphy. In: Course: Stratigraphy and Palaeontology (BGYCT-137), BSCG-CBCS	New Delhi	IGNOU	March 2021	85-110	978-93-90496-36-5
20	<b>Meenal Mishra</b>	Experiment 11: Microscopic study of common oxide ore minerals. In: Course: Ore Geology and Industrial Minerals (BGYET-142), BSCG-CBCS	New Delhi	IGNOU	March 2021	85-110	978-93-90496-36-5
21	<b>Meenal Mishra</b>	Experiment 10: Microscopic study of common sulphide and arsenide ore minerals. In: Course: Ore Geology and Industrial Minerals (BGYET-142), BSCG-CBCS	New Delhi	IGNOU	Jan. 2022	85-110	978-93-90496-36-5
22	<b>Meenal Mishra</b>	Experiment 6: Microscopic Study of Common Mafic and Ultramafic Igneous Rocks. In: Course: Petrology: Laboratory (BGYCL-134), BSCG-CBCS	New Delhi	IGNOU	Jan. 2022	85-100,	978-93-90496-28-0
23	<b>Meenal Mishra</b>	Experiment 5: Microscopic Study of Common Felsic and Intermediate Igneous Rocks. In: Course: Petrology: Laboratory (BGYCL-136), BSCG-CBCS	New Delhi	IGNOU	Jan. 2022	63-84	978-93-90496-28-0
24	<b>Meenal Mishra</b>	Experiment 4: Megascopic Study of Common Ultramafic Igneous Rocks. In: Course: Petrology: Laboratory (BGYCL-136), BSCG-CBCS	New Delhi	IGNOU	Jan. 2022	53-62	978-93-90496-28-0

25	<b>Meenal Mishra</b>	Experiment 3: Megascopic Study of Common Mafic Igneous Rocks. In: Course: Petrology: Laboratory (BGYCL-136), BSCG-CBCS	New Delhi	IGNOU	Jan. 2022	41-52	978-93-90496-28-0
26	<b>Meenal Mishra</b>	Experiment 2: Megascopic Study of Common Intermediate Igneous Rocks. In: Course: Petrology: Laboratory (BGYCL-136), BSCG-CBCS	New Delhi	IGNOU	Jan. 2022	27-40	978-93-90496-28-0
27	<b>Meenal Mishra</b>	Experiment 1: Megascopic Study of Common Felsic Igneous Rocks. In: Course: Petrology: Laboratory (BGYCL-136) BSCG-CBCS	New Delhi	IGNOU	Jan. 2022	9-26	978-93-90496-28-0
28	<b>Meenal Mishra</b>	Unit 4: Concept of magma. In: Course: Petrology (BGYCT-135), BSCG-CBCS	New Delhi	IGNOU	Jan. 2022	93-110	978-93-90496-36-5
29	<b>Meenal Mishra</b>	Unit 3: Classification of Igneous Rocks. In: Course: Petrology (BGYCT-135), BSCG-CBCS	New Delhi	IGNOU	Jan. 2021	69-82	978-93-90496-36-5
30	<b>Meenal Mishra</b>	Unit 2: Textures and Structures of Igneous Rocks. In: Course: Petrology (BGYCT-135), BSCG-CBCS	New Delhi	IGNOU	Jan. 2021	37-68	978-93-90496-36-
31	<b>Meenal Mishra</b>	Unit 1: Introduction to Petrology. In: Course: Petrology (BGYCT-135), BSCG-CBCS	New Delhi	IGNOU	Jan 2021	14-36	978-93-90496-36-5
32	<b>Meenal Mishra</b>	Unit 4: Rocks and Minerals. In: Course: Earth Processes. Master in Environmental Science	New Delhi	IGNOU	Dec 2020	54-98	978-93-90773-70-1
33	<b>Meenal Mishra</b>	Experiment 11: Microscopic study of common oxide ore minerals. In: Course: Ore Geology and Industrial Minerals (BGYET-141), BSCG-CBCS	New Delhi	IGNOU	Jan. 2022	110-121	978-93-90496-36-5
34	<b>Meenal Mishra</b>	Experiment 10: Microscopic study of common sulphide and arsenide ore minerals.	New Delhi	IGNOU	Jan. 2022	85-110	978-93-90496-36-5

		In: Course: Ore Geology and Industrial Minerals (BGYET-141), BSCG-CBCS					
35	<b>Meenal Mishra</b>	Unit 4: Precambrian Stratigraphy. In: Course: Stratigraphy and Palaeontology (BGYCT-137), BSCG-CBCS	New Delhi	IGNOU	March 2021	85-110	978-93-90496-36-5
36	<b>Meenal Mishra</b>	Experiment 8: Study of Optical Properties of Common Rock-Forming Minerals - II. In: Course: Crystallography, Mineralogy and Economic Geology: Laboratory (BGYCL-134), BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	125-136	978-93-89969-63-4
37	<b>Meenal Mishra</b>	Experiment 7: Study of Optical Properties of Common Rock-Forming Minerals - I. In: Course: Crystallography, Mineralogy and Economic Geology: Laboratory (BGYCL-134), BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	111-124	978-93-89969-63-4
38	<b>Meenal Mishra</b>	Experiment 5: Study of Physical Properties of Common Rock-Forming Minerals - II. In: Course: Crystallography, Mineralogy and Economic Geology: Laboratory (BGYCL-134), BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	79-92	978-93-89969-63-4
39	<b>Meenal Mishra</b>	Experiment 4: Study of Physical Properties of Common Rock-Forming Minerals - I. In: Course: Crystallography, Mineralogy and Economic Geology: Laboratory (BGYCL-134), BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	57-78	978-93-89969-63-4
40	<b>Meenal Mishra</b>	Experiment 3: Study of Symmetry Elements of Normal Class of Hexagonal, Trigonal and Triclinic Systems. In: Course: Crystallography, Mineralogy and Economic	New Delhi	IGNOU	Dec. 2019	41-56	978-93-89969-63-4

		Geology: Laboratory (BGYCL-134), BSCG-CBCS					
41	<b>Meenal Mishra</b>	Experiment 2: Study of Symmetry Elements of Normal Class of Orthorhombic and Monoclinic Systems. In: Course: Crystallography, Mineralogy and Economic Geology: Laboratory (BGYCL-134), BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	29-40	978-93-89969-63-4
42	<b>Meenal Mishra</b>	Experiment 1: Study of Symmetry Elements of Normal Class of Isometric and Tetragonal Systems. In: Course: Crystallography, Mineralogy and Economic Geology: Laboratory (BGYCL-134), BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	9-28	978-93-89969-63-4
43	<b>Meenal Mishra</b>	Unit 12: Processes of Ore Formation. In: Course: Crystallography, Mineralogy and Economic Geology (BGYCT-133) BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	117-144	978-93-89969-67-2
44	<b>Meenal Mishra</b>	Unit 11: Ore and Ore Deposits. In: Course: Crystallography, Mineralogy and Economic Geology (BGYCT-133) BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	91-116	978-93-89969-67-2
45	<b>Meenal Mishra</b>	Unit 10: Optical Properties of Rock Forming Minerals. In: Course: Crystallography, Mineralogy and Economic Geology (BGYCT-133) BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	57-82	978-93-89969-67-2
46	<b>Meenal Mishra</b>	Unit 7: Rock Forming Minerals-II. In: Course: Crystallography, Mineralogy and Economic Geology (BGYCT-133), BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	159-176	978-93-89969-67-2
47	<b>Meenal Mishra</b>	Unit 6: Rock Forming Minerals-I. In: Course: Crystallography, Mineralogy and Economic Geology (BGYCT-133), BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	133-158	978-93-89969-67-2



48	<b>Meenal Mishra</b>	Unit 3: Crystal Systems. In: Course: Crystallography, Mineralogy and Economic Geology (BGYCT-133), BSCG-CBCS	New Delhi	IGNOU	Dec. 2019	49-74	978-93-89969-67-2
49	<b>Meenal Mishra</b>	Unit 8: Geological Work of Glaciers and Oceans. In: Course: Physical and Structural Geology (BGYCT-131), BSCG-CBCS	New Delhi	IGNOU	Aug. 2019	92-112	978-93-89668-12-4
50	<b>Meenal Mishra</b>	Unit 5: Image Resolutions. Course MGY-001, PGCGI	New Delhi	IGNOU	March 2012	29-44	978-81-266-5967-8
51	<b>Meenal Mishra</b>	Unit 7: Visual Image Interpretation Course MGY-001, PGCGI	New Delhi	IGNOU	March 2012	5-22	978-81-266-5968-5
52	<b>Meenal Mishra</b>	Unit 6: Remote Sensing Data Products and Formats. Course MGY-001, PGCGI	New Delhi	IGNOU	Jan. 2012	39-58	978-81-266-5845-9
53	S. Sen and <b>Meenal Mishra</b>	Mineralogical and Geochemical Characterization of Sandstones Used In the Historical Buildings in and around Varanasi District. In: Rashmi Sinha (Ed.) Issues and Perspectives in Anthropology	Jaipur	Rawat Publications	2019	184-197	973-81-316-0875-3
54	<b>Meenal Mishra</b> , Kakoli Gogoi and Benidhar Deshmukh	Status of Women in Geoscience Education in India. In: Dimensions of Education (Eds) Jha A. K. & Singh S. P.	New Delhi	Renu Publishers	2016	285-298	978-93-85502-08-8
55	Benidhar Deshmukh, <b>Meenal Mishra</b> and Kakoli Gogoi	Geospatial Education in India: Present Scenario. In: Dimensions of Education (Eds) Jha A. K. and Singh S. P.	New Delhi	Renu Publishers	2016	113 - 126	978-93-85502-08-8

56	Kakoli Gogoi, Benidhar Deshmukh and <b>Meenal Mishra</b>	Geoscience Education in Conventional and Distance Learning in India. In: Dimensions of Education (Eds) Jha A. K. and Singh S. P	New Delhi	Renu Publishers	2016	251-262	978-93-85502-08-8
57	<b>Mishra, Meenal</b> and Sen, Shinjana	Silenced Rivers and Urbanization - a major threat to Food Security. In: Biodiversity and Sustainable Development. (Eds.) Kavindra Nath Tiwari and Swarn Lata	Bhopal.	Prasanna Prakashan	2011	209-218	978-81-905131-0-4
58	Sinha, A.K. and <b>Mishra, Meenal</b>	India-Eurasia collision tectonics and evidences of Cretaceous oceanic islands along the ophiolitic mélange belt of Ladakh Himalaya, India. In: A.K. Sinha (Ed.) Geodynamic Domains in Alpine Himalayan Tethys,	New Delhi	Oxford and IBH Publishing Co.	1997	45-55	81-204-1091-2
59	Sinha, A.K. and <b>Mishra, Meenal</b>	Fragmented ocean island from ophiolitic mélange of ancient convergent zone in western Ladakh Himalaya, India. In: R. Srivastava and R. Chandra (Eds.) Magmatism in diverse tectonic settings,	Rotterdam Netherlands	A. A. Balkema	1995	393-413	81-204-0989-2

**4. Research Articles/Publications: 45**

SNo .	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	Mageswarii G., <b>Mishra Meenal</b> , Srivastava V., Srivastava H. B., Satyanarayanan M. and Shrivastava J. P.	Palaeoproterozoic rift-related alkaline magmatism in Bari area, Son valley, Central India	Geosystems and Geoenvironment  Published by <u>Elsevier</u>	3(1)	2772-8838	2024	2772-8838
2.	Shinjana Sen and <b>Meenal Mishra</b>	Implications of heavy mineral assemblage to sediment recycling, Rare	Journal of Earth System Science	132(5)	22	2023	2347-4327

		Earth Element budget and provenance of Kaimur Sandstones, Vindhyan Supergroup, Son Valley	Published by <u>Springer</u>				
3.	Ihsan Ullah Lone, <b>Meenal Mishra</b> and Rakesh Chandra	Petrology and Geochemistry of mafic rocks from Shyok Ophiolites, Shyok Suture Zone, Ladakh Trans-Himalaya: Constraints on Petrogenesis and Tectonic Setting	Journal of Himalayan Geology  Published by <u>Springer</u>	44(1):	130-146	2023	0971-8966
4.	Joshi H., <b>Mishra Meenal</b> and Tiwari Meera	Origin of the Early Ediacaran chert from Infrakrol Formation in Krol Belt, Lesser Himalaya, India.	Journal of Sedimentary Environment  Published by <u>Springer</u>	7	501-517	2022	2447-9462
5.	Sen S., Kaur. P, Saini J., Kaur G. and <b>Meenal Mishra</b>	Kaimur Sandstone of Vindhyan Supergroup: A Prevalent Prehistoric and Ancient Monumental Heritage Stone from Son Valley of Central India	Geoheritage  Published by <u>Springer</u>	14(62)		2022	1867-2485
6.	Gurmeet Kaur, Swtantra Kumar Singh, Prabhakar Upadhyay, Parminder Kaur, Jaspreet Saini, Alok Kumar Pandey, <b>Meenal Mishra</b>	Eastern Son valley, India: A case for Geoheritage site designation	Geoheritage  <u>Published by Springer</u>	14(115)	4128-4158	2022	1867-2485
7.	Ihsan Ullah Lone, <b>Meenal Mishra</b> , Sachin Kr Tiwary, Rakesh Chandra	Remnants of Tethyan Oceanic Lithosphere along Shyok Suture Zone of NW Ladakh Trans-Himalaya: Shyok Ophiolites as Geoheritage Site	Geoheritage  <u>Published by Springer</u>	15(3)	17	2023	1867-2485
8.	Gogoi, K., Deshmukh, B., <b>Meenal Mishra</b> , Prashanth, M., and Verma O.	Need Assessment for Masters in Geoinformatics in Open and Distance Learning: An Initiative towards NEP-2020	Indian Journal of Open Learning  <u>Published by IGNOU</u>	31(1)	99-113	2022	0971-2690
9.	Mageswari G., <b>Mishra Meenal</b> and	Petrology and Geochemistry of mafic plugs associated with the	Geological Journal	56(5)	2848-2867	2021	1099-1034

	Shrivastava J. P.	Semri Group of the Vindhyan Supergroup in the eastern part of the Son Valley, Central India: Implications for bimodal volcanism	<u>Published by</u> John Wiley & Sons Ltd.				
10.	H. Wani, Bilal A. Sunu, <b>Meenal Mishra</b> , Imran Khan	Glacial vis-à-vis tectono-provenance signals of the Plio-Pleistocene sediments of the intermontane Kashmir basin, northwestern Himalaya: Evidence from quartz micro-textures and a till deposit	Quaternary International  <u>Published by</u> Elsevier	568	90–102	2020	1040-6182
11.	G. Mageswari, Pal A., <b>Mishra. M.</b> , Shrivastava. J. P.	Evidences of felsic volcanism and hydrothermal activities from clays associated with the Palaeoproterozoic Porcellanite Formation of the Vindyan Supergroup, Central India.	Geochemistry  <u>Published by</u> Elsevier	79(2)	408-420	2019	0009-2819
12.	Shinjana Sen and <b>Meenal Mishra</b>	Source rock composition of Kaimur Group siliciclastics from Vindhyan Supergroup, Central India: A response to thermal events associated with Bundelkhand craton and Chhotanagpur Gneissic Complex at ~1.1 Ga.	Geological Journal  <u>Published by</u> John Wiley & Sons Ltd.	5(6)	4128-4158	2019	1099-1034
13.	Sarvesh Misra, <b>Meenal Mishra</b> and Ram Chandra Tewari	Significance of Parting lineation in paleoslope studies: An example from fluvial Siwalik sandstones of Ramnagar-Kaladungi area, Nainital, Uttarakhand	Journal of Indian Association of Sedimentologists	36(1)	84-100	2019	0970 - 3268
14.	Sarvesh Misra, <b>Meenal Mishra</b> and Ram Chandra Tewari	Petrography of Siwalik sandstones from Kaladungi-Ramnagar area, Nainital district, Uttarakhand and its bearing on engineering properties	Journal of Engineering Geology <u>Published by</u> Society of Engineering Geologists	Volume XLIII, Nos. 1 & 2	175-197	2018	1226-5268
15.	Shinjana	Significance of Tuffaceous	Journal of Earth	128(8)	217	2019	2347-

	Sen and <b>Meenal Mishra</b>	Beds associated with Bijaigarh Shale of Kaimur Group, Vindhyan Supergroup, Central India and its correlation to Tuffs in other contemporaneous Proterozoic basins.	System Science  <u>Published by</u> Springer				4327
16.	<b>Meenal Mishra</b> , Kakoli Gogoi and Benidhar Deshmukh	Post graduate certificate in geoinformatics at IGNOU-A tool for skill enhancement for women empowerment.	Mahila Pratishtha  <u>Published by</u> Offset & Screen Printers, Vishakapatnam	4(4)	165-174	2019	2454-7891
17.	Benidhar, Deshmukh, Kakoli Gogoi, <b>Meenal Mishra</b>	Reaching the unreached through geoscience and geospatial education at IGNOU for societal benefits	Asian Journal of Multidimensional Research  <u>Published by</u> www.tarj.in	8(6)	114-123	2019	2278-4853
18.	<b>Meenal Mishra</b> and Shinjana Sen	Petrological study of the Early Mesoproterozoic Glauconitic Sandstone and Olive Shale from the Semri Group, Vindhyan Supergroup in Central India: Implications to input from Intrabasinal Felsic Volcanic Source and Glauconitization	Geological Journal  <u>Published by</u> John Wiley & Sons Ltd	53	857–876	2018	1099-1034
19.	<b>Meenal Mishra</b> , Marion E. Bickford, and Abhijit Basu	U-Pb Age and Chemical Composition of an Ash Bed in the Chopan Porcellanite Formation, Vindhyan Supergroup, India	The Journal of Geology  <u>Published by</u> The University of Chicago	126	553–560	2018	0022-1376
20.	Marion E. Bickford, <b>Meenal Mishra</b> , Paul A. Mueller, George D. Kamenov, Juergen Schieber, and Abhijit Basu	U-Pb age and Hf-isotopic compositions of magmatic zircons from a rhyolite flow in the Porcellanite Formation in the Vindhyan Supergroup, Son valley (India): Implications for its tectonic significance	The Journal of Geology  <u>Published by</u> The University of Chicago	125	365-379	2017	0022-1376
21.	<b>Meenal Mishra</b> , Shinjana Sen and Kiran	Explosive Episodic Felsic Volcanism at Palaeo-Mesoproterozoic Boundary-Evidences	Geochemistry International  <u>Published by</u>	55(5)	474–488	2017	0016-7029

	Kumari	from Vindhyan Supergroup, Son Valley, Central India	Springer				
22.	<b>Meenal Mishra,</b> Vaibhava Srivastava, P.K. Sinha and Hari B. Srivastava	Geochemistry of Mesoproterozoic Deonar Pyroclastics from Vindhyan Supergroup of Central India: Evidences of Felsic Magmatism in the Son Valley	Journal of Geological Society of India  <u>Published by</u> Springer	89(4)	375-385	2017	0974-6889
23.	<b>Meenal Mishra,</b> Vaibhava Srivastava and Hari B. Srivastava	A Report on The Occurrence of Ferruginous Breccia in Chopan Porcellanite Formation from Semri Group, Sonbhadra District, (U.P.)	Journal of Scientific Research <u>Published by</u> Banaras Hindu University, Varanasi	61	01-11	2017	0447-9483
24.	Kakoli Gogoi, Benidhar Deshmukh and <b>Meenal Mishra</b>	Addressing Perception of Geoethics Through Geoscience Curriculum at IGNOU	Educational Quest <u>Published by</u> New Delhi Publishers	8(3)	481-486	2017	0976-725
25.	Kakoli Gogoi, Benidhar Deshmukh and <b>Meenal Mishra</b>	Challenges and Opportunities in Geoscience Education in Open and Distance Learning: Indian Scenario	Learning Community <u>Published by</u> New Delhi Publishers	7(2)	117-126	2016	0976-3201
26.	Shinjana Sen and <b>Meenal Mishra</b>	Geochemistry of Rohtas Limestone from Vindhyan Supergroup, Central India: Evidences of detrital input from Bundelkhand Craton.	Geochemistry International <u>Published by</u> Springer	53(12)	1107-1122	2015	0016_7029
27.	<b>Meenal Mishra</b>	Geochemistry of Late Archaean shaly BIF formed by oxic exogenic processes: an example from Ramagiri schist belt, Dharwar Craton, India	Chinese Journal of Geochemistry  <u>Published by</u> Springer	34 (3)	362-378	2015	1000-9426
28.	Sen, Shinjana, <b>Meenal Mishra</b> and Patranabis Deb, Sarbani	Petrological study of the Kaimur Group sediments, Vindhyan Supergroup, Central India: implications for provenance and tectonics	Geosciences Journal  <u>Published by</u> Springer	18(3)	307-324	2014	1226-4806
29.	Mishra Sunita and <b>Mishra Meenal</b>	Role of Biofertilizers in maintaining nutritional status of soil in Sonbhadra and Mirzapur districts of Eastern U.P., India	International Journal of Humanities and Social Science Invention <u>Published by</u>	2(5)	23-30	2013	2319-7714

			Invention Journals				
30.	<b>Meenal Mishra,</b> Vaibhava Srivastava and H. B. Srivastava	Characterization of Deonar Porcellanite from Sidhi District, Madhya Pradesh	Journal of Scientific Research <u>Published by</u> Banaras Hindu University, Varanasi	57	20-26	2013	0447- 9483
31.	<b>Meenal Mishra</b> and Sen, Shinjana	Provenance, tectonic setting and source-area weathering of Mesoproterozoic Kaimur Group, Vindhyan Supergroup, Central India	Geologica Acta  <u>Published by</u> Universitat de Barcelona	10(3)	243- 253	2012	1695- 6133
32.	Verma, M., Singh, B. P., Srivastava, A., and <b>Mishra,</b> <b>Meenal</b>	Chemical behavior of suspended sediments in a small river draining out of the Himalaya, Tawi River, northern India: implications on provenance and weathering	Himalayan Geology  <u>Published by</u> Wadia Institute of Himalayan Geology	33 (1)	1-14	2012	0971- 8966
33.	<b>Mishra, M.</b> and Sen, S.	Geochemical signatures for the grain size variation in the siliciclastic rocks of Kaimur Group, Vindhyan Supergroup from Markundi ghat, Sonbhadra district, (U.P.), India	Geochemistry International  <u>Published by</u> Springer	49(3)	274- 290	2011	0016_ 7029
34.	<b>Mishra,</b> <b>Meenal</b> and Sen, Shinjana	Geochemical signatures of Mesoproterozoic siliciclastic rocks of Kaimur Group, Vindhyan Supergroup, Central India	Chinese Journal of Geochemistry  <u>Published by</u> Springer	29 (1)	21-32	2010	1000- 9426
35.	<b>Meenal Mishra</b> and Shinjana Sen	Geochemistry and origin of Proterozoic porcellanitic shales from Chopan, Vindhyan Supergroup	Indian Journal of Geology <u>Published by</u> Geological Mining & Metallurgical Society of India	80 (1-4)	157- 171	2008	0970- 1354
36.	<b>Mishra</b> <b>Meenal</b>	Geochemistry of the Ferruginous Shales from the Ramagiri Schist Belt – Possible Evidence for Paleosols	Indian Journal of Geochemistry <u>Published by</u> Indian Association of Geochemists	22(1)	125- 134	2007	0970 9088
37.	<b>Mishra</b> <b>Meenal</b>	Geochemistry of Ophimagnesite from	Indian Journal of Geochemistry	21(2)	427- 438	2006	0970 9088



		Shergol ophiolitic melange, Ladakh Himalaya	<u>Published by</u> Indian Association of Geochemists				
38.	<b>Mishra Meenal</b>	Geochemical Discrimination of Blueschists from Ophiolitic Melange of the Indus Suture zone, Ladakh Himalaya	Indian Journal of Geochemistry  <u>Published by</u> Indian Association of Geochemists	21(1)	139-154	2006	0970 9088
39.	<b>Mishra Meenal</b> and Rajamani, V.	Geochemistry of the Archaean Metasedimentary rocks from the Ramagiri Schist Belt, Eastern Dharwar Craton, India: Implications to Crustal evolution	Journal Geological Society India  <u>Published by</u> Springer	62	717-738	2003	0016-7622
40.	Kojima, S., Ahmad, T., Tanaka, T., Bagati, T.N., <b>Mishra, Meenal</b> , Kumar, R., Islam, R. and Khanna, P.P.	Early Cretaceous radiolarians from the Indus suture zone, Ladakh, northern India.	News of Osaka Micropaleontologists <u>Published by</u> Osaka Minami Fossil Study Group Osaka Bikaseki Kenkyukai	12	257-270	2001	02870 428
41.	<b>Mishra Meenal</b> and Rajamani, V.	Significance. Bimodal volcanic rocks from the Ramagiri schist belt in the formation of eastern Dharwar craton, south India	Journal Geological Society India  <u>Published by</u> Springer	54	263-283	1999	0016-7622
42.	Sinha, A.K. and <b>Mishra, Meenal</b>	Ophicarbonates associated with the ophiolitic mélangé of Western Ladakh – a probable genesis	Ofioliti <u>Published by</u> Edizioni ETS, Piazza Carrara 16-19, 56126 - Pisa - ITALY	20(1)	31-39	1995	0391-2612
43.	Sinha, A.K. and <b>Mishra, Meenal</b>	The existence of oceanic islands in the Neotethys: Evidence from Ladakh Himalaya, India	Current Science <u>Published by</u> Indian Academy of Sciences(India)	67 (9 and 10)	721-727	1994	0011 3891
44.	Sinha, A.K. and <b>Mishra, Meenal</b>	Plume activity and seamounts in the Neotethys: Evidence supported by geochemical and geochronological data	Himalayan Geology <u>Published by</u> Wadia Institute of Himalayan Geology,	3(2)	91-96	1992	0971-8966



			Dehradun				
45.	Sinha, A.K. and <b>Mishra, Meenal</b>	Generation and emplacement of the ophiolitic mélange along continental collision zone	Himalayan Geology  <u>Published by</u> Wadia Institute of Himalayan Geology, Dehradun	3(1)	179-189	1992	0971-8966

**5. Policy Documents Reports/ Mimeos:**

SNo.	Title	Institution/ Agency	Year

**6. Book Review published :**

SNo.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No

**7. Presentation/Invited talk/Chair in National or International Seminar/Conference/ Workshops (Please do not mention if it is only participation without presentation)-**

SN	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference	City	Date and Year
1.	<b>Meenal Mishra</b>	Application of Geographical Information Systems	Mahendergarh, Haryana in collaboration with Swami Shraddhanand College, Delhi University	Online Faculty Development Programme	webinar	12 <sup>th</sup> July 2021
2.	<b>Meenal Mishra</b>	Visual Image Interpretation	UGC-Human Resource Development Centre, Rani Durgawati Vishwavidyalaya, Jabalpur, and Madhya Pradesh	Online Refresher Course on Remote Sensing and Relief Feature	webinar	16 <sup>th</sup> July 2020
3.	<b>Meenal Mishra</b>	Open-Source GIS software-QGIS	Janardan Rai Nagar Rajasthan Vidyapeeth, Rajasthan & Shivaji College, University	FDP	webinar	08 <sup>th</sup> June 2020 to 14 <sup>th</sup> July 2020

			of Delhi, Delhi			
4.	<b>Meenal Mishra</b>	Women's role in the Scientific Revolution" in two days webinar on "Role of Women in Self-Reliant India	Students for Holistic Development of Humanity (SHoD) Haryana	webinar		25 <sup>th</sup> June 2020
5.	<b>Meenal Mishra</b>	Invited Lecture on Hypothesis Formulation and Development of Research Plan	Human Resource Development Centre	Research Methodology /Data Analytical Techniques in Science and Engineering Sponsored by RUSA	Hisar	12.02.2019
6.	<b>Meenal Mishra</b>	Invited Lecture on Research Problem: Definition, Necessity and Techniques of defining the Research Problem	Human Resource Development Centre	Research Methodology /Data Analytical Techniques in Science and Engineering Sponsored by RUSA	Hisar	12.02.2019
7.	<b>Meenal Mishra</b>	Invited Lecture on Applications of Geospatial Technology	HI-TECH Institute of Engineering & Technology,	INSPIRE SCIENCE CAMP sponsored by DST	Ghaziabad	17.01.2019
8.	<b>Meenal Mishra</b>	Invited Lecture on Role of Geology in our daily life	IGNOU Headquarters, New Delhi	VIGYAN JYOTI CAMP sponsored by DST	New Delhi	06.06.2018
9.	<b>Meenal Mishra</b>	Rocks and Minerals	IGNOU Headquarters, New Delhi	VIGYAN JYOTI CAMP sponsored by DST	New Delhi	08.06.2018
10.	<b>Meenal Mishra</b>	Implications to Soil Chemistry in perspective to sustainable development	Inclusive Growth for Financial Inclusion and Social Development	Govt. Girls Deg. Coll. Behat	Saharanpur	26 <sup>th</sup> -27 <sup>th</sup> March 2017
11.	<b>Meenal Mishra, Kakoli Gogoi and Benidhar</b>	Post Graduate Certificate in Geoinformatics at IGNOU- A Tool for	STRIDE, IGNOU Headquarters, New Delhi	Skill Development through ODeL Innovations,	New Delhi	March 09-11, 2017

	Deshmukh	Skill Enhancement for Women Empowerment		Entrepreneurship, Employment for Inclusive and Sustainable Livelihoods		
12.	<b>Meenal Mishra</b>	Invited Lecture on Geospatial Technology	Arunachal University of Studies	INSPIRE SCIENCE CAMP sponsored by DST	Namsai, Arunachal Pradesh	30.01.2017
13.	<b>Meenal Mishra</b>	Applications of Geospatial Technology	HI-TECH Institute of Engineering & Technology,	INSPIRE SCIENCE CAMP sponsored by DST	Ghaziabad	12.08.2016
14.	<b>Meenal Mishra</b>	Role of Minerals in our daily life	HI-TECH Institute of Engineering & Technology,	INSPIRE SCIENCE CAMP sponsored by DST	Ghaziabad	15.01.2016
15.	<b>Meenal Mishra, Kakoli Gogoi and Benidhar Deshmukh</b>	Role and Challenges for Women in Geoscience.	International conference of - Trends & Innovative Practices in Education: Future & Implications	Learning Community	Phagwara, Punjab	March 03-04, 2015

**8. Study Tour Organised/ Participated/ Attachment Organized/Internship: 01**

SNo.	Details of the tour organized	Name of coordinating body	Duration
1.	Three weeks Residential Programme 'Vigyan Jyoti Project' organized at IGNOU Headquarters for girls students from Kendriya Vidyalayas and Navodaya Vidyalayas in and around Delhi.	Department of Science and Technology, Ministry of Science and Technology	29 <sup>th</sup> May till 18 <sup>th</sup> June 2018

**9. Consultancy assignment (if any):**

SNo.	Organization/ agency	Cost, title of consultancy	Duration

**10. Details of Institution/ Government/ Industry / own Institution Sponsored Research Projects (including Programme Evaluation) and Amount (Both completed and ongoing): Five (05)**

SNo.	Topic	Sponsoring Agency	Amount	Duration with dates	Status i.e. ongoing/ completed
1.	Breaking Stereotypes in the field of Science and Technology for Girl Students through Motivational Guidance	Department of Science and Technology (DST)	16 Lakhs	April 2018 till April 2019	Completed
2.	Geochemistry, Petrogenesis and Isotopic studies of mafic dykes from Sonbhadra district, Son valley: Implication to Evolution of Sub-continental Lithosphere in Central India	Council of Scientific and Industrial Research (CSIR)	12.9 Lakhs	April 2013 till May 2016	Completed
3.	Geological, petrological, sedimentological and geochemical characterization of Deonar Porcellanite (Semri Group) of Vindhyan Basin in parts of Satna, Sidhi and Singrauli districts, Madhya Pradesh, to assess their potential for hosting uranium mineralization	Department of Atomic Energy- Board of Research in Nuclear Sciences (DAE-BRNS)	18.57 Lakhs	April 2011 till March 2014	Completed
4.	Geochemistry of Proterozoic siliciclastic rocks from Vindhyan Supergroup, Son Valley: Implications for Provenance and source area weathering	University Grant Commission (UGC)	5.60 Lakhs	May 2006 till April 2009	Completed
5.	Geochemistry and petrogenesis of Bimodal volcanics in the schist belt of Dharwar craton	Department of Science and Technology (DST-Fast Track)	6.60 Lakhs	2001-2004	Completed

**11. Details of PhD and MPhil Scholars (including those awarded degree):**

SNo	Name and enrolment no:	Year of registration	Year of completion/ award
1.	Rajeev Kumar (210270333)	June 2022	Contd..
2.	Bilal Sunu (179341980)	July 2017	2024
3.	Ihsan Ullah Lone (179342001)	July 2017	2024
4.	Sarvesh Misra (144500342)	January 2014	2022
5.	Mageswarii G. (Acting as co-supervisor-registered at Delhi University)	Sept. 2016	Contd.
6.	Shinjana Sen (Degree awarded at BHU, Varanasi)	Oct. 2006	Sept. 2011

**12. Details of Programmes/ Courses coordinated/ written/ edited/ translated:**

SN o.	Programme	Course	Unit (print)/ Audio/ Video/ eSLM	Coordinated/ Written/ Edited (content/ language/ format)/ Translated	Period
1.	MSCGI	MGY-014	Under development	Course Coordinated	2024 till date
2.	MSCGI	MGY-011	Under printing	Course Coordinated	2024 till date
3.	PGDGI	MGY-007	Printed	Course Coordinated	2024 till date
4.	PGCGI (revised)	MGY-103	Printed	Course Coordinated	2023 till date
5	PGCGI	MGY-001	Printed	Course Coordinated	2010-till date
6	PGCGI	MGY-003	Printed	Course Coordinated	2014-till date
7.	PGCGI	MGY-002	Printed	Written 2 Units	2012-till date
8.	B.Sc. (Gen.) with Geology	BGYCT-131	Printed	Coordinated and	2016-till date
9	B.Sc. (Gen.) with Geology	BGYCL-133	Printed	Coordinated and	2016-till date
10	B.Sc. (Gen.) with Geology	BGYCT-134	Printed	Coordinated and	2016-till date
11	B.Sc. (Gen.) with Geology	BGYCL-135	Printed	Coordinated	2016-till date
12	B.Sc. (Gen.) with Geology	BGYCL-135	Printed	Coordinated	2016-till date

13	B.Sc. (Gen.) with Geology	BGYCL-136	Printed	Written 1 unit	2016-till date
14	PG Diploma in Environmen tal and Occupationa l Health	PGDEOH	Online	Written 1 unit and Content Edited 2 Units	2017 & 2018
15	e-PG Pathshala- MHRD	Environmental Geology	4 Chapters	Written and presented in video All 4 quadrants	2018

**13. Courses/ Units translated and period: Vetting of BGYCT-131, BGYCT-132, BGYCT-133, BGYCT-134, BGYCT-135 and BGYCT-136 courses of BSCM programme**

Audio programmes (title, Course, period):

**14. Participated in IRCs – 20**

**15. Teleconferencing - 28**

**16. Web counselling – 2014 July cycle till date**

**17. Content Coordinated for 2 audios**

**18. Video programmes (title and Course, period): Content Coordinated for 46 videos. They have been uploaded on UTube**

- Physical Properties of Minerals Depending on Light  
Link: <https://www.youtube.com/watch?v=FjuZ-hn8Qyo&t=52s>  
<http://egyankosh.ac.in/handle/123456789/73668>
- Physical Properties of Minerals Depending on State of Aggregation: Form and Habit  
Link: [https://www.youtube.com/watch?v=0SfrT76\\_liA&t=14s](https://www.youtube.com/watch?v=0SfrT76_liA&t=14s)  
<http://egyankosh.ac.in/handle/123456789/73669>
- Physical Properties of Minerals Depending on State of Aggregation: Cleavage, Striations and Fracture  
Link: <https://www.youtube.com/watch?v=DbJQE3RaQoM>  
<http://egyankosh.ac.in/handle/123456789/73670>
- Physical Properties of Minerals Depending on State of Aggregation: Hardness and Tenacity  
Link: <https://www.youtube.com/watch?v=eUPWtaMeOAA&t=16s>  
<http://egyankosh.ac.in/handle/123456789/73672>
- Physical Properties of Minerals Depending on State of Aggregation: Specific Gravity and Senses  
Link: <https://www.youtube.com/watch?v=UFXBMcMrQJc&t=13s>  
<http://egyankosh.ac.in/handle/123456789/73673>
- Physical Properties of Minerals Depending on Forces  
Link: <https://www.youtube.com/watch?v=POWD1V85Hyl&t=19s>  
<http://egyankosh.ac.in/handle/123456789/73671>
- Introduction to Ore Deposits  
Link: <http://egyankosh.ac.in/handle/123456789/53454>

8. Classifications of Ore Deposits  
Link: <http://egyankosh.ac.in//handle/123456789/53455>
9. Early Magmatic Deposits  
Link: <http://egyankosh.ac.in//handle/123456789/53456>
10. Late Magmatic Deposits  
Link: <http://egyankosh.ac.in//handle/123456789/53457>
11. Contact Metasomatic and Contact Metamorphic Deposits  
Link: <http://egyankosh.ac.in//handle/123456789/53458>
12. Hydrothermal Mineralisation  
Link: <http://egyankosh.ac.in//handle/123456789/53461>
13. Weathering, its types and Significance  
Link: <https://www.youtube.com/watch?v=gBYijIPPVgc>
14. Soil: Product of Weathering  
<https://www.youtube.com/watch?v=y-SENU4Abv8>
15. Landslides: Its types and causes  
Link: <https://youtu.be/cl73TU0hjQk>
16. Landslides: Mitigation measures  
Link: <https://youtu.be/BcUveL43x7c>
17. Landslide hazard zonation  
Link: <https://youtu.be/8cDxEJdPkVc>
18. Deccan Volcanism-an Inside Story  
Link: <https://www.youtube.com/watch?v=1a3glcg0oGs>
19. Himalaya-an Overview  
Link: <https://www.youtube.com/watch?v=vK5Cglisa1Y>
20. Evolution of Himalaya  
Link: <https://www.youtube.com/watch?v=gVGZKqrjVZY>
21. Fossils in Himalaya  
Link: <https://youtu.be/sLUqzsz1E80>
22. Igneous Textures, Processes and Pathways: An Overview  
Link: <https://www.youtube.com/watch?v=9NU3SL7HWF4>
23. Igneous Textures, Processes and Pathways: Aphanitic Textures  
Link: <https://www.youtube.com/watch?v=pboabkaFzWY&t=5s>
24. Igneous Textures, Processes and Pathways: Phaneritic Textures  
Link: [https://www.youtube.com/watch?v=tw7vVvp6R\\_U](https://www.youtube.com/watch?v=tw7vVvp6R_U)
25. Igneous Textures, Processes and Pathways: Homogenous Textures  
Link: <https://www.youtube.com/watch?v=Zx6wQG0qiG4>
26. Igneous Textures, Processes and Pathways: Inhomogeneous Textures  
Link: [https://www.youtube.com/watch?v=XYb\\_tzRISKc](https://www.youtube.com/watch?v=XYb_tzRISKc)
27. Igneous Textures, Processes and Pathways: Fabric Related to Textural Equilibrium and Consolidation of Volcaniclasts into Solid Rock  
Links: <https://youtu.be/omO-AJS2bPU>  
<http://egyankosh.ac.in//handle/123456789/68338>
28. Geology around us-Part I  
Links: <https://youtu.be/F6cglc12wd0>  
<http://egyankosh.ac.in//handle/123456789/63948>
29. Geology around us-Part II  
Links: <https://youtu.be/BtmJ8lOfxek>

<http://egyankosh.ac.in//handle/123456789/65950>

30. Physical Features of Volcanic Terrain  
Link: <https://www.youtube.com/watch?v=Wrbw0MQzSQU&t=141s>
31. Microscopic view of basaltic rocks  
Link: <https://www.youtube.com/watch?v=2RGL3XB2x3E&t=103s>
32. Exsolution Intergrowth  
Link: <https://youtu.be/7SnfV0nJMvk>
33. Rapakivi Texture  
Link: <https://youtu.be/voXGUT4HSxY>
34. Textures Related Zoning in Igneous Rocks  
Link: <https://www.youtube.com/watch?v=Wrbw0MQzSQU&t=141s>
35. Sedimentary structure of clastic rocks  
Link: <https://www.youtube.com/watch?v=llg5aAbaL0s&t=44s>
36. Sedimentary Structure of non-clastic rocks  
Link: [https://www.youtube.com/watch?v=3iL\\_\\_lYkFRM](https://www.youtube.com/watch?v=3iL__lYkFRM)
37. Metamorphism  
Links: <https://www.youtube.com/watch?v=pB9S8UoXltY>  
<http://egyankosh.ac.in//handle/123456789/68333>
38. Types of metamorphism  
Links: <https://www.youtube.com/watch?v=33hJAGiyeQA>  
<http://egyankosh.ac.in//handle/123456789/68332>
39. Age and duration of Deccan Volcanism  
Links: <https://youtu.be/rodINJOA-r8>
40. Deccan Volcanism and Mass Extinction at KT Boundary  
Links: <https://youtu.be/cxifXuAnSPE>
41. Unraveling geochemistry of basaltic rock  
Links: <https://youtu.be/VkLOFLRsNys>  
<https://youtu.be/VkLOFLRsNys>
42. Role of Ocean Circulation in Climate Change  
Link: <https://youtu.be/vgOsm7ewDZw>
43. Metamorphism as Chemical System  
<https://www.youtube.com/watch?v=pAhGkA6N7KY>
44. Gibbs Phase Rule  
[https://www.youtube.com/watch?v=-uwwrq\\_ygrY](https://www.youtube.com/watch?v=-uwwrq_ygrY)
45. Composition Space and ACF diagrams  
[https://youtu.be/gm\\_grqGwh\\_0](https://youtu.be/gm_grqGwh_0)
46. AFM diagram for metapelites  
<https://youtu.be/Ugy1pc16-Tg>

#### 19. Training programmes designed and conducted, duration and dates

SNo.	Programme	Dates	Place	Number of Participants
1.	Vigyan Jyoti Programme sponsored by DST	29 <sup>th</sup> May till 19 <sup>th</sup> June 2018 (21	IGNOU Headquarters New Delhi	26 girls from government schools



		days)		
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**20. Details of Counselling sessions conducted:**

S N o.	Program me	Course	Place	Dates	Duratio n	Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other)
1	PGCGI	MGY001, 003 & MGYL-004	Study centre in Delhi	From July 2014 cycle to till date		Face to face Counselling
2	PGCGI and B.Sc. (Gen.) with Geology	MGY001, 003 & MGYL-004	Delhi	From 2014 to till date	Varied	Interactive Radio Counselling - 12, Teleconferencing - 3
3	PGCGI and B.Sc. (Gen.) with Geology	MGY001, 002, 003 & MGYL-004	Delhi	From July 2014 cycle till date	-	Web based counselling

**21. Details of Patents granted (if any): Non**
**22. Contribution to IGNOU's corporate life:**

SNo.	Chairperson/ Member of Committee	Name of the Committee	Date/ period
1.	Chairperson	GeM e-Bid Evaluation for procurement of P-1 envelopes	21/09/2024
2.	Chairperson	GeM e-Bid Evaluation for procurement of answer books for Dec 2022 TEE	22/09/2022
3.	Member	Monitoring skill based bachelor degree programme	15/07/2022
4.	Member	Coordination Committee for Online Courses (COCC)	Nov. 2022- Oct. 2023
5.	Member	Best paper award	20/20/2022
6.	Member	Committee for Redressal of Grievance for research scholars	Nov. 2022- Oct. 2024
7.	Member	CBCS committee	Jan. 2023
8.	Member	IGNOU, RF award	15/02/2023
9.	Member	Agniveer scheme	25/05/2023
10.	Member	PhD admission committee	09/08/2023

11.	Member	Operationization of admission for 4-years bachelor's programme	24/08/2023
12.	Member	OER review board	13/09/2023
13.	Member	Best paper	16/10/2023
14.		Steering committee 37 <sup>th</sup> convocation	31/01/2024
15.	Member	Operationization of admission for 4-years bachelor's programme	14/08/2024
16.	Member	Internal Credit Transfer Policy	14/08/2024
17.	Member	Best paper award	23/10/2024
18.	Chairperson	Supply of OMR sheets & screening of OMR sheets	Dec. 2024

**23. Administrative position/s held in the University (even as in charge)**

SNo.	Designation	Period
1.	Director, School of Sciences	2022-2025
2.	Discipline Group Coordinator	2010-11 & 2017-18
3.	Member, School Council	2010 onwards
4.	Member School Board of School of Sciences and the School Board Standing Committee	2010-2012
5.	Member of the Committee for Equitable distribution of resources of SOS	2014-15
6.	Member of the Committee for Print Committee in SOS	2016- onwards

**24. Any other contribution/information (As expert outside IGNOU)**

- Member of Expert Committee for Technical Evaluation of proposals received under WOS-A scheme of DST, New Delhi in the area of Earth and Atmospheric Sciences.
- Member of Expert Committee for Programme Advisory Committee (PAC) for promoting girl's in STEM through Vigyan Jyoti, DST.
- Member of Expert Committee for Programme Advisory Committee (PAC) on Earth Ocean Atmospheric Science of International Cooperation Division, DST
- Member of Expert Committee for PAMC WISE-PhD on Earth and Atmospheric Sciences, KIRAN Division, DST.
- Member of Management Committee of World Education Mission.
- Expert, ONGC Energy Centre, New Delhi
- Member of Expert Committee for Technical Evaluation of proposals in Geology received at Consortium of Educational Communication (CEC), New Delhi.
- Member of Expert Committee in Geology for compilation of comprehensive scientific terminology in Hindi by Commission of Scientific and Technical Terminology (MHRD), New Delhi.

**(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)**

- Member, Board of Studies at Central University of Bhatinda, Meerut University, Ladakh University.
- Acting as external examiner at Delhi University, Sagar University, Meerut University, Nagpur University, Bikaner University, Jammu University and Kumaon University.
- Mentor in Inspire Science Camps organized by DST.
- Member of Board of Management, Arunachal University of Studies, Arunachal Pradesh.
- Secretary, Geological Society of India - Regional Center, Delhi.

**25. Articles contributed in Hindi-06**

- Meenal Mishra (2018) Satat Vikas. Published in Ashmika Vol. 22, from Wadia Institute of Himalayan Geology, Dehradun, p. 27-28
- Meenal Mishra (2016) Chikitsa Bhuvigyan. Published in Deepshikha published from IGNOU, New Delhi., p. 23-25.
- Meenal Mishra (2014) Prachin Bharat main. Published in Ashmika Vol. 21, from Wadia Institute of Himalayan Geology, Dehradun, p. 65-67.
- Meenal Mishra (2014) Durasth shiksha pranali main bhuvigyan ke badhte kadam. Published in Ashmika Vol. 20, from Wadia Institute of Himalayan Geology, Dehradun, p. 27-29.
- Meenal Mishra (2014) Bhuvigyan aur manav samaj. Published in Ashmika Vol. 20, from Wadia Institute of Himalayan Geology, Dehradun, p. 7-9.
- Meenal Mishra (2013) Ratno Ka Rahasya. Published in Ashmika Vol. 17, from Wadia Institute of Himalayan Geology, Dehradun, p 6-9.

**26. Contribution to E-Pg Pathshala (MHRD–ALL 4 Quadrants)**

**Course- M.Sc. (Environmental Science); Paper-Environmental Geology**

1. M-02 Plate Tectonics
2. M-03 Rock Types and Rock Cycle
3. M-08 Geological Work of Wind and its Impact
4. M-27 Structural Geology

Link: [https://epgp.inflibnet.ac.in/view\\_f.php?category=274](https://epgp.inflibnet.ac.in/view_f.php?category=274)

**27. Past Assignments**

- **Associate Professor** at School of Sciences, IGNOU, New Delhi from 2013-2016
- **Reader** at School of Sciences, IGNOU, New Delhi from 2010-2013
- **Assistant Professor** at Department of Geology, BHU, Varanasi from 2004-2010

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**(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)**

- **Lecturer** at Mizoram University, Aizwal in 2004
- **Scientist 'C'** at JNU, New Delhi during 2003-2004
- **Principal Investigator** in DST Fast Track project at JNU from 2001-2003
- **Pool Officer** (CSIR) at SES, JNU, New Delhi from 1999-2001

**Signature of Teacher /Academic**

**Signature of Director/ Head**