Curriculum Vitae

DR. KOYEL SAM

M.A. (Gold Medalist), P.G. Diploma (Geoinformatics), Ph.D. (Geography)





Department of Geography,







Present Position

- **State Aided College Teacher** (Category-I) in Geography at Dr.BhupendraNath Dutta Smriti Mahavidyalaya, PurbaBardhaman.
- **Year of Teaching Experience:** More than 5 years

Fields of Specialization

- Environmental Issues in Geography
- Applied Remote Sensing and GIS

Certification

- CITA in Computer Application
- Communicative English
- Web GIS using Open Layers
- **SAR Image Processing**
- Programing in ArcGIS with Python
- GNSS surveying and Mapping using Android phone
- Analysis and Simulation of Urban Growth from Remote Sensing Data
- LiDAR and UAV
- Basic Python & It's Application in Google Earth Engine with QGIS

Dr. B.N.D.S. Mahavidyalaya Hatgobindapur,

> PurbaBardhaman, Pin: 713407

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Mob: 9932924842

Value Addition

- Software Known: Arc-GIS, Q-GIS, Erdas Imagine, ENVI, Mapinfo, Fragstats, SNAP, SPSS and R-Studio
- **Programming Language:** Java, Python- Its application in Mapping and Spatial Analysis

Language Known

Bengali, English, Hindi

Research Details

- Title of the Ph.D. Thesis: "Changing Forested Landscape and Climate in Bengal Duars and Its Impact on Life and Livelihoods"
- Name of the Supervisor: Prof.Namita Chakma, Department of Geography, The University of Burdwan.
- Research Interests: Climate Change, Adaptation to Climate Change, Forest and Urban Landscape,
 Change Detection, Simulation and Modelling
- **Year of Experience:** More than 10 years

Award and Achievements

- University "Gold Medal" for securing First position in First Class, M.A. Examination, 2013 in Geography, The University of Burdwan.
- UGC-Junior Research Fellowship (2014)
- UGC-Senior Research Fellowship (2017)
- 1st positioninoral presentation (Earth Science Section) of 2nd Regional Science and Technological congress(WR), Govt. of West Bengal, 2017

Workshops/ Short-term Courses/Training Programme Participated

Sl. No.	Workshops/Short-term Training/Courses	Duration	Organized by
1	Workshop on "Statistical Techniques used in Research"	16-19 Feb, 2016	Dept of Statistics, The University of Burdwan.

2	GIAN (MHRD) Training Course on''Climate Change Impact Analysis''	23 May - 03 June, 2016	IIEST, Shibpur
3	Technical Knowledge Exchange Workshop for Bangladesh and India on "Vulnerability of Sundarban in Changing Climate"	5 th Feb, 2017	The World Bank, Kolkata
4	Faculty Development Programmeon''Research Methodology"	27 th Jan, 2018	The department of commerce, St. Xavier's College, Burdwan
5	Workshop on "Species Distribution Modelling"	24 th – 27 th Feb, 2018	IIT-Kharagpur
6	A short course on "Understanding Statistical Analysis in Geography"	May 20 -July 31, 2018	The Indian Society of Spatial Scientists, Chandernagore
7	GIAN (MHRD) Training Course on "Land Cover and Land Use Changes and Their Impacts on Climate"	29 th Oct - 2 th Nov, 2018	IIT- Kharagpur
8	GIAN (MHRD) Training Course on "Improved Climate Change Adaptation Strategies in Water Resources"	12 th -16 th Nov, 2018	IIT- Kharagpur
9	International Course on "Earth Observation Data for Forest and Agriculture Carbon Modelling"	18 th -22 nd Feb, 2019	CORAL, IIT-Kharagpur
10	Workshop on"Drone Mapping"	03-07 Feb, 2020	Jadavpur University, Kolkata
11	National workshop on "Thermal Remote Sensing & Its Application in Research"	16- 20th Oct, 2020.	Integrated Institute for Advanced Research and Information
12	Online training course on "Assessment of Reservoir Sedimentation using Geo- Spatial Technique and QGIS"	19 - 20 Nov, 2020.	National Institute of Hydrology (NIH), Roorkee
13	3-day Webinar based Training on "Hyperspectral Remote Sensing"	6 – 8 th April, 2021	NRSC/ISRO, Hyderabad
14	75 th IIRS Outreach Programme on "Geoinformatics for Disaster Management"	5-16 th April, 2021	IIRS-ISRO, Dehradun
15	International workshop on "Lidar: A Spatial Tool In Research"	17- 18th April, 2021 .	Integrated Institute for Advanced Research and Information
16	81st course on "Overview of Web GIS Technology"	21st June- 02nd July, 2021	IIRS-ISRO, Dehradun
17	83 rd course on "Geospatial technology for hydrological	19-30 th July, 2021	IIRS-ISRO, Dehradun

	modelling"		
18	Faculty Development Programme / Summer Training on "Climate Change analysis using R and Cloud Computation"	19-26 July , 2021	Department of Geography, School of Basic and Applied Sciences, Adamas University
19	5-days Webinar based Training on "Geospatial Technologies for Climate Studies"	22-26 th Nov, 2021	NRSC/ISRO, Hyderabad
20	Online course on "Geo-spatial Applications for Forest Ecosystem Analysis"	20-25 th June, 2022	IIRS-ISRO, Dehradun
21	Online Course on "Advances in Monitoring and Modeling of Hydro-Meteorological Hazards using Geospatial Technology and Process based Models"	05-09 th Dec, 2022	IIRS-ISRO, Dehradun

Seminars and Conference Attended

Sl. No.	Title of Conference / Seminar	Organized by	Whether International / National/State/College Level
1	"Contemporary Issues in	Govt. college of	National
	Education "	Education, Burdwan. 6th	
_		May, 2015	
2	"Health Education"	Institute of Preventive	National
		Awareness, 18th Mar,	
		2015	
3	One Day International Seminar on "	Department of	International
	Environment, Public Health and	Geospatial Science, The	
	GIS"	University of Burdwan.	
		26th Aug, 2016	
4	One Day International Webinar Talk	Department of	International
	on "Climate Change and Earth's	Geography, KaziNazrul	
	Landscape"	University, Asansol, 24th	
		Jun, 2020	
5	International Webinar on	Department of	International
	"Challenges of Climate Change	Geography, School of	
	and Sustainable Development	Basic and Applied	
	Goals"	Sciences, Adamas	
		University, 29th Jun	
		2020.	
6	A webinar on "Recent trends of	Symbiosis Institute of	International
	Space Technology in Geographical	Geoinformatics from 1st	
	Science"	- 2nd Feb, 2021	

Seminars and Conference Participated

Sl.	Title of the Paper	Title of Conference /	Organized by	Whether
No	Presented	Seminar		International
•				National/State
1	"Change detection of	International Conference	Dept. of Geography,	International
	vegetation cover in forest	on Urbanisation and	University of Calcutta,	
	areas of Alipurduar	Regional Sustainability	28-30 January, 2016.	
	district, West Bengal,			
	using Normalized			
	Difference Vegetation			
2	Index technique" "Change detection of	UGC Sponsored National	Dept. of Geography&	National
	vegetation cover in forest	Seminar on Remote	Applied Geography,	National
	areas of Alipurduar	Sensing and GIS in	University of North	
	district, W.B. using	Environmental	Bengal. Held on 02-03	
	NDVI technique"	Management	February, 2016.	
3	"Geospatial Changes in	International Seminar on	Dept. of Geography,	International
	Forested Landscape of	Environment and Society:	University of Burdwan.	
	Himalayan Foothill of	Historical Perspectives	Held on 28-03 March,	
	Alipurduar District, W.B.	and Contextual Reality"	2017.	
	: A Sub-Himalayan			
4	Dilema"	Oth T 1	T 1' T .' C	T 1
4	"An Account of Climatic	9 th International Conference on	Indian Institute of	International
	Oscillations in Fragile Geomorphological	Geomorphology	Geomorphologists (IGI) at VigyanBhawan, New	
	Settings of Himalayan	Geomorphology	Delhi. 6-11 Nov, 2017.	
	Foothills, India"		Denn. 0 11 1101, 2017.	
5	" The Changing Climate	2 nd Regional Science and	the university of	Regional
	of Bengal Duars through	Technological congress	Burdwan and	
	100 years' Trends and	(Western Region), 16-17	Department of Higher	
	Oscillation analysis"	Nov, 2017	Education, Science and	
			Biotechnology	
			(DHESTBT) Govt. of	
			West Bengal, during	
6	"Future Climate of	3rd International Seminer	November 16-17, 2017 Dept. of Geography, The	International
0	Bengal Duars: A Fragile	on System Dynamics,	University of Burdwan,	Themational
	Geomorphological Set	Human-Nature	18th Nov, 2017	
	up"	Interaction & Societal	10011101, 2017	
	-1	Discourse		
7	"Changing Climate and	2 nd International	IIT Kharagpur, from 24 th	International
	Vulnerability Profiles of	Workshop on	– 27 th February, 2018.	
	Forested Landscape in	Biodiversity and Climate		
	Bengal Duars"	Change		

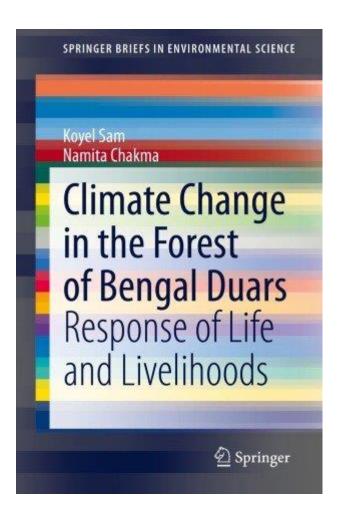
8	" The Changing Climate of Bengal Duars through 100 years' Trends and Oscillation analysis"	25 th West Bengal State Science and Technology Congress, 2018	Department of Higher Education, Science and Biotechnology, Govt. of West Bengal, held on 4th & 5th March, 2018, at the Science City, Kolkata.	State
9	"Evaluating Past and	The 7 th ANGIS	Dept. of Geography &	International
	Present Scenario of Forested Landscape in Bengal Duars, India"	International Conference, on GIS-Connecting Geography, History & Economics Looking Beyond Where	Dept. of Geospatial Science, University of Burdwan. held on 29 th - 1 st December, 2018	
10	"Vulnerability Assessment of Forested Landscape to Climate Change in Bengal Duars using Geospatial Technology"	31st IGI Conference and National Seminer on Application of Geospatial Technology in Geomorphology and Environment	Dept. of Geography & Applied Geography, University of North Bengal. held on 12-13 November, 2019.	National
11	"Forest Villager's Perception and Adaptation Attitudes to Climate Change in Himalayan Foothills"	4 th Regional Science and Technological congress (Western Region),	The University of Burdwan and Department of Higher Education, Science and Biotechnology (DHESTBT) Govt. of West Bengal, during 09- 10th December, 2019	Regional
12	"Perception and Adaptive Capacity of Forest Villagers to Climate Change in Himalayan Foothills"	XIV International Geographical Union (IGU)-India, International Conference on Agriculture, Food, Water, Biodiversity and Health in Changing Climate	Dept. of Geography, University of Burdwan. held on 6-8th March, 2020.	International
13	"Forest Dependency and Rural Livelihood: A Strategically Survival of People in Forested Landscape of Bengal Duars"	International Conference on Rural Transformation: from Natural to Cultural	CRDIST, IIT-Kharagpur, 5-6 th May, 2021	International

International and National Publication of Articles in Journal / Book Chapter

Sl. No	Title of the Book /Chapter/Paper	Name of the Journal/ publisher	International /National/Sta te	ISSN/I SBN numbe rs	Year of Publica tion	Whether Peer- reviewed/ UGC -
						Approved/ Impact factor, if any.
1	"Changing land use and land cover in fringe area using GIS: A case study of Barddhaman town, West Bengal"	International Journal of Geomatics and Geosciences	International	ISSN:0 976- 4380,	2014	Peer reviewed
2	"Analysis of Population Growth Dynamics- Situation and Trend: A Study on Barddhaman Planning Area (BDA), West Bengal, India"	International Journal of Current Research	International	ISSN:0 975- 833X.	2014	Peer reviewed
3	"An Inter-Block Level Analysis of Regional Disparity in the Youngest Alipurduar District of West Bengal"	Space and Culture, India,	International	e-ISSN 2052- 8396	2016	Peer reviewed, UGC- approved
4	"Spatio-Temporal Change Detection of Vegetation Cover in Forest areas of Alipurduar District, West Bengal, using Normalized Difference Vegetation Index Technique"	Remote sensing and GIS in Environmental Management, North Bengal University Press,	State	ISBN 978-81- 921692 -8-6	2017	-
5	"Vulnerability profiles of forested landscape to climate change in Bengal Duars region, India"	Environmental Earth Sciences, Springer	International	ISSN: 1866- 6280 (Print) 1866- 6299 (Online	2018	IF (TR): 1.7 (Peer reviewed, UGC- approved)
6	"Discourse on Forested Landscape	RhitoPrakashan,	State	ISBN: 978-81-	2018	-

	of Bengal Duars, Eastern India"			9380 90-8-2		
7	"An exposition into the changing climate of Bengal Duars through more than 100 years' trend and climatic oscillations	Indian Acadamy of Sciences & Journal of Earth System Science, Springer	International	ISSN: 2347- 4327 (Print) 0973- 774X	2019	IF (TR): 0.89, (Peer reviewed, UGC- approved)
	analysis"			(Online		
8	"Variability and trend detection of temperature and rainfall: A case study of Bengal Duars"	Mausam, India Meteorological Department	International	ISSN: 252941 6	2019	IF (TR): 0.467 (Peer reviewed, UGC-approved)
9	"Transformation of Forested Landscape in Bengal Duars: A Geospatial Approach"	Spatial Modeling in Forest Resources Management Rural Livelihood and Sustainable Development, Environmental Science and Engineering, Springer,	International	ISBN: 978-3- 030 - 56542- 8 (e Book)	2020	-
10	"Modeling the effectiveness of natural and anthropogenic disturbances on forest health in Buxa Tiger Reserve, India, using fuzzy logic and AHP approach"	Modeling Earth Systems and Environment, Springer	International	ISSN: 2363- 6211	2021	Peer reviewed, UGC - approved
11	"Forest Dependency and Rural Livelihood: Strategical Survival of People in Himalayan Foothills of Bengal Duars Region"	Environmental Management and Sustainability in India: Case Studies from West Bengal, Springer	International	ISBN: 978-3- 031- 31398-1	2023	-
12	"Responses of rural livelihood with limited access to water resources: a case from waterscarce region of West Bengal, India"	Environment, Development and Sustainability	International	ISSN: 1387- 585X	2023	IF (TR): 4.7 (Peer reviewed, UGC- approved)

Published Book



Climate Change in the Forest of Bengal Duars - Response of Life and Livelihoods (2021).

DOI: <u>10.1007/978-3-030-73866-2</u>

Publisher: Springer, Cham

ISBN: 978-3-030-73865-5

https://doi.org/10.1007/978-3-030-73866-2

Reviewer of Journals

- 1. Physical Geography(WOS): Taylor and Francis Group.

 IF:1.183.https://www.tandfonline.com/toc/tphy20/current
- 2. Human Ecology: Springer Science(WOS). IF: 1.683. https://www.springer.com/journal/10745/
- 3. SN Applied Sciences: Springer Nature. https://www.springer.com/journal/42452/
- 4. Environment, Development and Sustainability (WOS).IF: 2.19. https://www.springer.com/journal/10668/
- 5. ActaGeophysica: PAS and Polish Academy of Science; Springer, IF: 1.39 https://www.springer.com/journal/11600
- 6. Journal of Urban Affairs: Taylor and Francis https://www.tandfonline.com/toc/ujua20/current
- 7. Theoretical and Applied Climatology (WOS): IF 3.4 https://www.springer.com/journal/704/

Research Profiles

- https://www.researchgate.net/profile/Koyel_Sam
- https://www.webofscience.com/wos/author/record/5-2223-2019
- https://scholar.google.com/citations?user=Z-vkPOIAAAAJ&hl=en

Declaration

I hereby declare that all statements present in this document are completeand correct to the best of my knowledge and belief.