

1. Details of the Teacher/ Academic :

Name & Date of Birth :	Professor (Dr.) M. S. Nathawat 10th March 1958
Date of Joining in IGNOU:	18/07/2011
Current Designation :	Professor of Geography, School of Sciences
Pay Scale as on date :	2,11,800 (Cell no. 14)
Qualifications :	M.Phil., Ph.D., PGDip. Geology and Geomorphology -Remote Sensing and GIS

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

Name of the recipient,	Honour /Award/ Fellowship name	Agency name /Name of statutory body/ institution/ Apex body	Period
Nathawat, M.S.	Awarded Baden-Wuerttemberg Fellowship	(Under Indo-German Cultural Exchange Programme)	2009-10
	Member State Advisory Committee on Environment & Climate Change	Bihar State Disaster Management Authority	2014-2016
	Member 6th Survey of Research in Geography	ICSSR, GOI Member	2008-2009
	Expert Committee Member NNRMS SC-B,	MoEF, Govt. of India	2004-2015
	Expert Committee Member	University Grant Commission	2009-2010
	Member Governing Body	School of Open Learning, University of Delhi	2018 to till date
	Member Governing Body	Jharkhand Space Application Centre	2008-2010
	Expert Committee Member	SC/ST R & D Scheme" Natural Resources Data Management System" (NRDMS) Programme DST GOI	2018 to till date
	Member	"Natural Resources Data Management System" (NRDMS) Programme DST GOI	2019 to till date

	Member Board of Studies etc.	Member Board of Studies etc.- Delhi University, IIS University, S. Gyan Vihar University, Central University Haryana, Guru Ghasidas University, Bilaspur, MDS University, Ajmer, BHU Varanasi, NEHU Shilong, Jammu University, Jammu, IP University, Delhi, Central University Jharkhand	2001 to till date (period varies with each Universities)
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3. Books/Book Chapter:

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

Books:							
S. No.	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.	Rai Praveen Kumar and Nathawat, M.S.	Geoinformatics in Health Facility Analysis	Switzerland	Springer International Publishing	(2017)		ISBN: 978-3-319-44624-0
2.	Kanga S., Sharma L.K., and Nathawat M.S.	Himalayan Forest Fires Risk Management: A Geospatial Approach	Germany	Lambert Academic, Publishing	(2015)		ISSN/ISBN No. 97838465180007
3.	Suman Sinha, Nathawat M.S. , L.K. Sharma	Geospatial Approach for Managing Relocation and Distribution of Tigers	Germany	Lambert Academic Publishing	(2014)		ISBN : 978-3-659-52104
4.	Rai Praveen Kumar and Nathawat M.S.	Remote Sensing & GIS in Glacier Mapping	Germany	Lambert Academic Publishing	(2013)		ISBN: 978-3-659-43454-9-1
5.	Nathawat, M.S. and Pandey A.C.	Geoinformatics for Decentralized Planning and Governance	India	Rawat Publication	(2008)		ISBN 81-316-0117-X.
Chapters in Books:							
1.	Nathawat M.S.	Land use, land capability and land evaluation, ICSSR Research Surveys and Explorations – ECONOMIC GEOGRAPHY	Delhi	Oxford University Press, Delhi	(2016)	pp.35-61	
2.	Pandey, P.C.,	Spatial integration of				pp. 35-52	

	Raghubanshi , S.A., Mandal, V., Tomar, V., Katiyar, S., Ravishankar, N., Kumar, P., and Nathawat, M.S.	Rice-based Cropping Systems for Soil and Water Quality Assessment using Geospatial Tools and Techniques					
3.	Sinha, S., Nathawat, M.S. & Jeganathan, C. Naithani, S.	Uses of MultiPolarized ALOS PALSAR Data for Biomass Assessment of Tropical Forests: A step towards REDD	India	Remote Sensing and GIS in Environmental Resource Management. aura Books India Pvt. Ltd	(2014)	pp. 183-192	ISBN: 978-81-929248-0-9
4.	Sinha, S., Nathawat, M.S. , Sharma, L.K., Kumar, P., Kanga, S. & Pandey, P.C. , Mukherjee, S., Gupta, M. & Srivastava, P.K.	Remote estimation of land surface temperature for different LULC features of a moist deciduous tropical forest region/ Remote Sensing Techniques in Earth Sciences	Switzerland	Springer, Springer International Publishing	(2014) Doi: 10.1007/9783-319-05906-8_4	pp. 57-68	
5.	Nathawat, M.S. , Sharma, L.K. & Sinha, S. In: Sharma, H.S., Padmaja, S. & Sharma, G.	Tiger habitat suitability and potential relationship with forest biomass in Sariska Wildlife Reserve, India: A geospatial perspective /Climate Change, Bio-Diversity and Green Economy	India	Concept Publishing Company Pvt. Ltd., New Delhi, India	(2013) DK No.: DK-236697	pp. 137-143	
6.	Pandey, P.C., Kanga, S., Sinha, S., Sharma, L.K. & Nathawat, M.S.	Spectral modelling for green moist vegetation demarcation using geospatial techniques		8 Band Research Challenge World View-2 Imagery, Digital Globe	(2012) Inc. Limited, Available online: http://dgl.us.neolane.net/res/img/2fb18203e87481fb04c52d74f57cce3.pdf		

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7.	Nathawat M.S. and Avishek K/ Ed. H.S. Sharma, P.R. Binda	Landscape Ecological assessment using Hemero by model/ Modeling in resource management and environment through geomatics	India	Concept publisher	(2007)	pp. 113-123	
8.	Nathawat M.S./ Ed. Sharma H.S, Binda	Environmental modeling using geo- informatics/ P.R. Modeling in resource management and environment through geomatics	India	Concept publisher	(2007)	pp. 124-138	
9.	Krishna A.P., Kumar N. and Nathawat M.S.	Natural Hazard Assessment through Remote Sensing and GIS – A Case Study from Sikkim State, India: Disaster Management (Eds. N.C. Mahanti et al)	India	Publ. Narosa Publishers	(2006)	pp. 73-83	
10.	Nathawat M.S. Ed. Dr. T.S. Chouhan and Dr. K.N. Joshi	Combating Desertification through irrigation development - in studies in arid land management			(1993)	pp.141-146	
11.	Nathawat M.S. and Sharma H.S./ Eds. Dr. Mukherjee, A. and Agnihotri	Land Transformation and Environmental degradation in Jaipur urban complex. In: Environment and Development-Views from the East and the West	India	V.K., Publication Concept, Delhi	(1992)	pp. 91-105	
12.	Nathawat M.S. Ed. H.S. Sharma	Remote Sensing tool for assessing environmental effects present state, changes and ecological significance of reservoir system in semi arid region. Indian Geomorphology			(1991)	pp.313-319	
13.	Nathawat M.S. / Ed. H.S. Sharma	Application of Remote Sensing data for Geomorphology and Environmental			(1991)	pp.308-312	

		Conservation studies/ Indian Geomorphology					
14.	Nathawat M.S. / Ed. H.S. Sharma & A.K. Sinha	Remote Sensing capabilities for monitoring desertification - in land and water management: Dry land experience.			(1989)	pp. 154-159	

4. Research Articles/Publications:

S. No	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	Sinha, S., Santra, A., Sharma, L.K., Jeganathan, C., Nathawat, M.S. , Das, A.K. Mohan, S. & Mitra, S.,S.	Regression-Based Integrated Bi-sensor SAR Data Model to Estimate Forest Carbon Stock	Journal of the Indian Society of Remote Sensing			May(2019) DOI: 10.1007/s12524-019-01004-7	ISSN 0255-66X
2.	Sinha, S., Santra, A., Sharma, L.K., Jeganathan, C., Nathawat, M.S. , Das, A.K. Mohan, S. & Mitra, S.,S.	Accounting tropical forest carbon stock with synergistic use of space-borne ALOS PALSAR and COSMO-SkyMed SAR sensors	International Society for Tropical Ecology			April (2019) DOI: 10.1007/s42965-019-00011-6	ISSN 0564-3295
3.	Sinha, S., Santra, A., Sharma, L.K., Jeganathan, C., Nathawat, M.S. , Das, A.K. & Mohan, S.	Multi-polarized Radarsat-2 satellite sensor in assessing forest vigor from above ground biomass	Journal of Forestry Research	29(4)	1139-1145	(2017)	
4.	Rai, P.K., Mishra, V.N., Singh S. Prasad, R. and Nathawat, M.S.	Remote sensing based study for evaluating the changes in glacial area: : A case study from Himachal Pradesh, India	Earth System and Environment (Springer)	1 (1)	pp.1-13	(2017) DOI 10.1007/s41748-017-0001-2.	ISSN: 2509-9434 (electronic version)
5.	Sinha, S., Santra, A., Sharma, L.K., Jeganathan, C., Nathawat, M.S. , Das, A.K. Mohan, S.	Forest vigor assessment in terms of above ground biomass using multi-polarized Radarsat-2 satellite sensor	Journal of Forestry Research			October (2017) DOI: 10.1007/s11676-017-0511-7	
6.	Sinha, S., Jeganathan, C.,	Developing Synergy	Journal of Earth System Science	125(4)	pp. 725-735	(2016) DOI:	

	Sharma, L.K., Nathawat, M.S. , Das, A.K. & Mohan, S	Regression Models with space-borne ALOS PALSAR and Landsat TM sensors for retrieving tropical forest biomass				10.1007/s12040- 016-0692-z	
7.	Sharma, L.K., Kanga,S. and Nathawat, M.S.	Forest Fire Simulation Modeling using Remote Sensing & GIS: A Case Study of Taradevi Forest (H.P.), India	Journal of Sciences and Ecology			(2016)	ISSN No. 1674- 764x
8.	Sinha, S., Sharma, L.K. Nathawat, M.S.	Improved Land- use/Land-cover classification of semi-arid deciduous forest landscape using thermal remote sensing	Egyptian Journal of Remote Sensing and Space Science	18(2)	pp. 217- 233	October(2015) DOI: 10.1016/j.ejrs.20 15.09.005	
9.	Pandey, P.C. , Kumar, P., Tomar, V. and Nathawat, M.S.	Modelling spatial variation of fluoride pollutant using geospatial approach in the surrounding environment of aluminium industries	Environmental Earth Sciences	74(12)		(2015) DOI: 10.1007/s12665- 015-4563-8	ISSN 1866- 6280
10.	Sinha, S., Jeganathan, C., Sharma, L.K. Nathawat, M.S.	A review of radar remote sensing for biomass estimation	International journal of Environmental Science and Technology,	12(5)	pp. 1779- 1792	(2015) DOI: 10.1007/s13762- 015-0750-	
11.	Kumar, R.N., Rathore, V.S., Reddy, K.S. Nathawat, M.S.	Simulation of grape crop future water requirement using CROPWAT model in semi- arid region	International Journal of Applied Engineering Research	10(3)	pp. 5867- 5880	(2015)	
12.	Sinha, S., Sharma, L.K., Jeganathan, C., Nathawat, M.S. , Das, A.K. & Mohan, S	Efficacy of InSAR coherence in tropical forest remote sensing in context of REDD	International Journal of Advancement in Remote Sensing, GIS and Geography	3(1a)	pp. 38-46	(2015)	ISSN 2321 - 835
13.	Ghosh,S., Pandey, A.C., Nathawat, M.S. , Bahugana, I.M., Ajai	Contrasting Signals of Glacier Changes in Zanskar Valley, Jammu & Kashmir, India Using Remote Sensing and GIS	Journal of the Indian Society of Remote Sensing	42(4)	pp. 817 - 827	December(2014) 42:817-827 DOI 10.1007/s12524- 014-0368-6	ISSN 0255- 660X

14.	Parihar,N., Das,A.K., Rathore,V., Nathawat, M.S. , Mohan,S.,	Analysis of L-band SAR backscatter and coherence for delineation of land-use/land - cover	International Journal of Remote Sensing	35(18):	6781– 6798	October (2014) DOI: 10.1080/0143116 1.2014.965282	
15.	Baby, S., Nathawat, M.S. , Mohammad A. Al-Sarawi	Major Impacts from Anthropogenic Activities on Landscape Carrying Capacity of Kuwaiti Coast	Polish Journal of Environmental Studies	23(1)	pp. 7-17	(2014)	
16.	Singh S.K., Pandey A.C., Rathore V.S., Nathawat, M.S.	Evaluating factors responsible for contrastic signature of wasteland development in northern & southern Ganga plains (Bihar State, India) with focus on water logging	Arabian Journal of Geosciences, Springer Publication			DOI 10.1007/s12517- 013-1094- z.(Impact factor: 1.152)	
17.	Ghosh S., Pandey, A.C. and Nathawat M.S.	Mapping of debris- covered glaciers in parts of the Greater Himalaya Range, Ladakh, western Himalaya using Remote Sensing and GIS	Journal of Applied Remote Sensing	8	083579- (1-17)	August (2014) DOI:10.1117/1.JR S.8.083579	
18.	Rai, P.K., and Nathawat M.S.	Utilization of Health Care Services in Varanasi District: A Geographical Analysis	Malaysian Journal of Society and Space	10 (2)	pp. (14 – 33)	April (2014)	ISSN 2180- 2491
19.	Kanga S., Sharma, L.K. Pandey P.C. and Nathawat M.S.	GIS Modelling Approach for Forest Fire Risk Assessment and Management	International Journal of Advancement in Remote Sensing, GIS and Geography	2 (1)	pp. 30-44	January (2014)	ISSN 2321- 8355
20.	Rai, P.K., and Nathawat M.S.	GIS in Healthcare Planning: A Case Study of Varanasi, India	Forum Geografic	12(2)	pp. 153-163	December (2013) doi.org/ 10.5775/fg.2067 - 4635.2013.180.d	
21.	Gupta ,A.K., Nathawat, M.S. and Nair, Sreeja.S.	Indices for Drought Hazard mapping, Monitoring and Risk Assessment: Analysis of Existing	Journal of the National Institute of Disaster Management	7(1)		December (2013)	ISSN: 0973- 6700

		Tools, Techniques and Approaches					
22.	Kanga, S., Sharma, L.K., Pandey, P.C., Nathawat, M.S. and Sharma, S.K.	Forest Fire Modelling to Evaluate Potential Hazard to Tourism Sites Using Geospatial Approach	Journal of Geomatics	7(1)	pp. 93-99	2013	
23.	Rai, P.K., Nathawat, M.S. and Rai, S.	Using the information value method in a geographic information system and remote sensing for malaria mapping: A case study from India	Informatics in primary care	21(1)	pp. 43-52	December (2013) DOI: 10.14236/jhi.v21i1.38	
24.	Tirkey, A., Nathawat, M.S. and Pandey, A.C.	Use of high-resolution satellite data, GIS and NRCS-CN technique for the estimation of rainfall-induced run-off in small catchment of Jharkhand India	Geocarto International	29(7)	pp. 778-791	November (2013) DOI: 10.1080/10106049.2013.841773	
25.	Rai, P.K., Nathawat, M.S. and K, Mohan	Glacier Retreat in Doda Valley, Zaskar Basin, Jammu & Kashmir, India	Universal Journal of Geoscience	1(3)	pp. 139-149	October (2013)	
26.	Pandey, P.C., Rani, M., Srivastava, P.K., Sharma, L.K., and Nathawat, M.S.	Land Degradation Severity Assessment with Sand Encroachment in Ecologically Fragile Arid Environment: a Geospatial Perspective	A Qatar Foundation Academic Journal		pp. 2-17	September(2013) Ms. No.CONNECT-D-13-00050R1	ISSN: 2223-506X
27.	Dasgupta, Arunima, Sastry, K.L.N., Dhinwa, P.S., Nathawat, M.S. , and Rathore, V.S.	Identifying Desertification Risk Areas using Fuzzy Membership and Geospatial Technique - A Case Study, Kota District, Rajasthan	Journal Earth System. Science	122(4)	pp. 1107–1124	August (2013)	
28.	Singh, S.K., Pandey, A. C. Nathawat, M. S. and Rathore, V.S.	Evaluating factors responsible for contrasting signature of	Arabian Journal of Geosciences	7(10)	pp. 4175-4190	August (2013) DOI: 10.1007/s12517-013-1094-z	

		wasteland development in northern and southern Ganga Plains (Bihar State, India) with focus on water logging					
29.	Kumar, P., Sharma, L. K., Pandey, P.C., Sinha, S., and Nathawat, M.S.	Geospatial Strategy for Tropical Forest-Wildlife Reserve Biomass Estimation	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing	6(2)	pp. 917-923.	(2013)	
30.	Tirkey, Anamika Shalini, Pandey A.C., Nathawat M.S.	Use of Satellite Data, GIS and RUSLE for Estimation of Average Annual Soil Loss in Daltonganj Watershed of Jharkhand (India)	Journal of Remote Sensing Technology	1(1)	PP. 20-30.	(2013)	
31.	Sharma, L.K., Nathawat, M.S. & Sinha, S.	Top-down and bottom-up inventory approach for above ground forest biomass and carbon monitoring in REDD framework using multi-resolution satellite data	Environment Monitoring Assessment	185(10)	pp. 8621–8637	April (2013) 185(10):8621-37. doi: 10.1007/s10661-013-3199-y. Epub 2013 Apr 20	
32.	Kumar, R. Nagarjuna., Reddy,K. Srinivas, Nathawat, M. S. , and Patel, N., Rahore, V.S.	Climate Change Implications on Water Resources in India-Review	Environment & Ecology	31 (2C)	pp. 1085—1091	April (2013)	ISSN 0970-0420
33.	Sailaja, B., Voleti, S. R., D. Subrahmanyam., Nathawat, M. S. , Rao, N.H.	Validation of Oryza2000 model under combined nitrogen and water limited situations	Indian Journal of Plant Physiology	18(1)	pp. 31–40	March (2013) DOI: 10.1007/s40502-013-0001-7	
34.	Sinha, S., Sharma, L.K. and Nathawat, M.S.	Integrated Geospatial Techniques for Land-use/Land-cover and Forest Mapping of	Universal Journal of Environmental Research and Technology	3(2)	pp. 190-198	January (2013)	

		Deciduous Munger Forests (India)					
35.	Kumar, N.R., Reddy, k.S., Nathawat, M.S. , Patel, N., Sharma, L. K., Rathore, V., Chary, R.G., Shankar, G.M., Bhogireddy, S., and Raju, N.S.	Long-term rainfall analysis of Ranga Reddy district of Andhra Pradesh using GIS	Journal of Agrometeorology	2		January (2013)	
36.	Rai, P.K. and Nathawat, M.S.	Application of GIS & Statistical Methods to Select Optimum Model for Malaria Susceptibility Zone and Verification of the Susceptibility Methods by Area Under Curve (AUC)	University of Iasi – Geography series (SciGeo Journal, Romania)	59(2)	pp. 73-94	January (2013)	ISSN 1223 - 5334
37.	Sinha, S., Sharma, L.K. and Nathawat, M.S.	A Habitat Suitability Model For Conservation Of Tigers (Panthera Tigris) In The Sariska Wildlife Reserve, India	Journal of Conservation Planning	9	pp. 1-20	(2013)	
38.	Rai, P.K. Nathawat, M.S. and Mohan, K.	Geo-Aspect Analysis an Area Altitude Distribution of Glaciers Doda Valley, Zaskar Basin, Jammu & Kashmir, India	National Geographical <i>Journal of India</i>	58 (4)	pp. 107-116	(2012)	ISSN: 0027-9374
39.	Dasgupta, A., Sastry, K.L.N., Dhinwa, P.S., Pathan, S.K. and Nathawat, M.S.	Fuzzy logic model for desertification vulnerability risk assessment – A case study, district Bellary, Karnataka	Journal of Geomatics	6 (2)	pp. 76 - 84.	(2012)	
40.	Rai, P.K., Nathawat, M.S. and Onagh, M.	Application of Multiple Linear Regression Model through GIS and Remote Sensing for Malaria Mapping in Varanasi District, INDIA	Health Science Journal	6(4)	pp. 731-749	October (2012)	ISSN 1108-7366E). Available at http://www.hs.j.gr/volume6/issue4/6414 .
41.	Pandey, A.C., Nathawat, M.S. ,	Evaluation of Fluoride	Journal of Applied Sciences	12(9)	pp. 882-887	September (2012) DOI:	ISSN 1812-

	and Shekhar, S.	Contamination in Groundwater Sources in Palamu District, Jharkhand, India				10.3923/jas.2012.882.887	5654
42.	Pandey, S., Pandey, A. C. Nathawat, M. S. , Kumar, M. & N. C. Mahanti	Drought hazard assessment using geoinformatics over parts of Chotanagpur plateau region, Jharkhand, India	Natural Hazards	63(2)		September (2012) DOI: 10.1007/s11069-012-0093-9	ISSN 0921-030X
43.	Pandey, A.C., Ghosh, S., Nathawat, M. S. and Tiwari, R.K	Area Change and Thickness Variation over Pensilungpa Glacier (J&K) using Remote Sensing	Journal of the Indian Society of Remote Sensing	40(2)	pp. 245-255	June (2012) DOI: 10.1007/s12524-011-0134-y	
44.	Sharma, L.K., Nathawat, M.S. and Pandey, A.C.	Assessment of land consumption rate with urban dynamics change using geospatial techniques	Journal of Land Use Science	7(2)	pp. 1-14	June (2012) DOI: 10.1080/1747423X.2010.537790	ISSN: 1747-423X
45.	Pandey, A.C., Nathawat, M.S. and Ghosh, S.	Morphometric control on glacier area changes in the Great Himalayan Range, Jammu and Kashmir, India	Current science	102(8)	pp. 1188-1193	April (2012)	
46.	Sinha, S., Sharma, L.K. & Nathawat, M.S.	Tigers losing grounds: Impact of anthropogenic occupancy on tiger habitat suitability using integrated geospatial-fuzzy techniques	The Ecoscan	1(Spl.is s.)	pp. 259-263	(2012)	
47.	Tirkey,L., Pandey, A.C, and Nathawat, M.S.	Groundwater Level and Rainfall Variability Trend Analysis using GIS in parts of Jharkhand state (India) for Sustainable Management of Water Resources	International Journal of Environmental Sciences	3 (3)		2012	ISSN 0976 – 4402
48.	Tirkey Anamika Shalini, Pandey A.C. and Nathawat M.S.	Glacier Retreat in Doda Valley, Jammu and Kashmir, India.	International Research Journal of Environment Sciences	1(4)	pp. 24-31	(2012)	ISSN 2319–1414
49.	Rai, P.K.,	Role of GIS and	Journal of GIS	2(1)	pp.	December	

	Nathwat, M.S., Mishra, A., Singh, B.H. and Onagh, N.	GPS in Vector Born Disease Mapping: A Case Study	Trends		20-27	(2011)	
50.	Ghosh, S., Pandey, A.C., Nathawat, M.S., Bahuguna, I.M., Kulkarni, A.V., and Ajai.	Evaluating geological, geomorphological control on glacier changes in Great Himalayan Range, Jammu & Kashmir, India	Journal of Geomatics	5(2)	pp. 79-84	November (2011)	
51.	Sinha, S., Sharma, L.K., Nathawat, M.S.	Comparative assessment of crisp and fuzzy analytic hierarchy process for multi- criteria decision making in geographic information system (GIS)- based site suitability analysis for relocation of tigers	Geocarto International			July (2011) DOI: 10.1080/1010604 9.2011.604139	
52.	Pandey, A.C., Ghosh, S. And Nathawat, M.S.	Evaluating patterns of temporal glacier changes in Greater Himalayan Range, Jammu & Kashmir, India	Geocarto International,	6 (4)	pp. 321 — 338	July (2011) DOI: 10.1080/1010604 9.2011.554611	
53.	Pandey, A.C., Sharma, L.K. and Nathawat, M.S.	Geospatial strategy for sustainable management of municipal solid waste for growing urban environment	Environmental Monitoring and Assessment	184(4)	pp. 2419- 2431	June (2011) DOI: 10.1007/s10661- 011-2127-2	
54.	Hazra, M., Avishek, K., Pathak, G., Nathawat, M.S.	Water Stress Assessment in Jharkhand State using Soil Data and GIS	Journal of applied Sciences and Environmental Management (Springer)	15 (1)	pp. 63-67	June (2011) DOI 10.1007/s10661- 011-2127-2	ISSN: 1119- 8362
55.	Sinha, S., Sharma, L.K., Pandey, P.C., Nathawat, M.S. & Kanga, S.	Impact of human intrusion on tiger habitat and conservation using integrated geospatial techniques	International Journal of Earth Science and Engineering,	4(3)	pp. 39-45		
56.	Kanga, S., Sharma, L.K.,	Forest Fire Susceptibility	International Journal of Earth	4(3 spl.)	pp. 80-87	May (2011)	

	Pandey, P.C., Nathawat, M.S. & Sinha, S.	Mapping With GIS Modelling	Science and Engineering				
57.	Sharma, L.K., Pandey, P.C., Nathawat, M.S. , Sinha, S. and Kanga, S.,	Assessing Human Intrusion on Tiger Habitat and Conservation using Integrated Geospatial Techniques	International Journal of Earth Sciences and Engineering	4(3 spl.)	pp. 39-45	May 2011	
58.	Kanga S., Sharma, L.K., Sharma, S.K. and Nathawat M.S.	Geospatial Approach for Forest Fire Risk Modeling: A Case Study of Taradevi Range of Shimla forest Division in (H.P), India	The Indian Forester	137 (3)	pp. 296- 303	2011	
59.	Baby S. & Nathawat, M.S.	Formulating coastal management strategies (CMS) for preserving the endangered coastal morphological landscape (CML) in 'the state of kuwait', from anthropogenic activities using SWOT	International Journal of Oceans and Oceanography	5(1)	pp. 85-109	January (2011)	
60.	Sinha, S., Sharma, L.K. & Nathawat, M.S.	Retrieving tiger habitats: conserving wildlife geospatially	Applied Remote Sensing Journal	2(1)	pp. 1-5	2011	
61.	Pandey, A.C. Ghosh, S and Nathawat, M.S.	Management Strategies (CMS) for reserving the Endangered Coastal Morphological Landscape (CML) in „The State of Kuwait“, from Anthropogenic Activities using SWOT	Geocarto International	26 (4)	pp. 321- 338	(2011) DOI: 10.1080/1010604 9.2011.554611	
62.	Baby S. & Nathawat, M.S.	Geospatial strategy for sustainable management of municipal solid	International Journal of Oceans and Oceanography	5 (1)	pp. 85- 109	(2011)	

		waste for growing urban environment. Environmental Monitoring And Assessment					
63.	Singh, S.K., Pandey, A.C., and Nathawat, M.S.	Rainfall Variability and Spatio Temporal Dynamics of Flood Inundation during the 2008 Kosi Flood in Bihar State, India	Asian Journal of Earth Sciences	4(1)	pp. 9-19	January (2011) DOI: 10.3923/ajes.2011.9.19	ISSN 1819-1886
64.	Singh, B., Nathawat, M.S. , Mohan, S., Mehta, R.L., Parihar, N., and Sinha, A.	Land Surface Feature Extraction using PALSAR and AVINR-2 Data - Applying Data Fusion Technique				January (2011)	
65.	Londhe, S., Nathawat, M.S. , Subudhi, A.P.	Erosion susceptibility zoning and prioritization of mini watersheds using Geomatics approach				January (2011)	
66.	Kanga, S., Sharma, L.K., Nathawat, M.S. , Pandey, P.C. & Sinha, S.	Geospatial approach for allocation of Potential Tourism Gradient sites in a part of Shimla District in Himachal Pradesh, India	Journal of GIS Trends	2 (1)	pp. 1-6	January (2011)	
67.	Pandey, A.C., Singh, S.K., Nathawat, M.S. and Saha, D.	Assessment of surface and subsurface waterlogging, water level fluctuations, and lithological variations for evaluating groundwater resources in Ganga Plains	International Journal of Digital Earth	6 (3)	pp. 1-21	January (2011) DOI: 10.1080/17538947.2011.624644	
68.	Rathore, V., Nathawat, M.S. and Champatiray, P.K.	Palaeochannel detection and aquifer performance assessment in Mendha River catchment,	Journal of Hydrology	395 (3-4)	pp. 216-225	December 2010 DOI: 10.1016/j.jhydrol.2010.10.026	

		Western India					
69.	Singh, S.K., Pandy, A.C., and Nathawat, M.S.	Waterlogging and flood hazards vulnerability and risk assessment in Indo Gangetic plain	Natural Hazards	55(2)	pp. 273-289	November (2010) DOI: 10.1007/s11069-010-9525-6	
70.	Schmidt, S., Nüsser, M., Nathawat, M.S. , Ghosh, S., Pandey, A.C.	Glacier Change in the Western Himalayas: A Case Study of Suru Glacier, Northern India				May (2010)	
71.	Kumar, P., Rani, M., Pandey, P.C., Mazumdar, A., Nathawat, M.S.	Monitoring of Deforestation and Forest Degradation Using Remote Sensing and GIS: A Case Study of Ranchi in Jharkhand (India)		2(4)		April (2010)	
72.	Mohanta, D.K., Singh, M., Jha, R.C., Nathawat, M.S. and Rathore, V.	Electrical Consumer Indexing Incorporating Geographical Information System (GIS)	IEEE International Test Conference (TC)			March (2010) DOI: 10.1109/ITC.2010.99	
73.	Londhe, S. and Nathawat, M.S.	Large-Scale Soil Mapping Techniques for Granitic Terrain using high Resolution Satellite Data	Trends in Soil & Plants Science Journal	1 (1)	pp. 19-31	2010	
74.	Nathawat, M.S.	Monitoring & analysis of wastelands and its dynamics using multi-resolution and temporal satellite data in part of Indian state of Bihar	International Journal of Geomatics and Geosciences	1 (3)	pp. 297-307	January (2010)	ISSN: 0976-4380
75.	Sharma, L.K., Kanga, S., Nathawat, M.S. , Sinha, S. and Pandey, P.C.	Fuzzy AHP for Forest Fire Risk Modeling. Disaster Prevention and Management	Emerald Group Publishing Ltd.		pp. 2-22	(2010) MS ID: DPM- Oct—2010- 0078.R1	
76.	Sharma, L.K. Nathawat, M.S.	Assessment of tree volume and	Nature Environment and	8(3)	pp. 619-626	September (2009)	

	and Mishra, M.	growing stock in Kharagpur forest range of Bhimbandh Wildlife Sanctuary in Bihar - An integrated geospatial approach	Pollution Technology, An International Quarterly Scientific Approach				
77.	Sharma L.K., Nathawat M.S. and Mishra M.	Assessment of tree volume and growing stock in Kharagpur forest range of Bhimbandh wildlife sanctuary in Bihar-An integrated geospatial approach	Nature Environment and Pollution Technology	8 (3)	pp. 619-626.	(2009)	
78.	Avishek, K., Pathak., Nathawat, M.S., and Kumari, N.	Water quality assessment of Majhiaon block of Garwa district in Jharkhand with special focus on fluoride analysis	Environmental Monitoring and Assessment	167 (1-4)	pp. 617-23	June (2010) DOI: 10.1007/s10661-009-1077-4	
79.	Rai P.K., Nathawat M.S. and Pandey A.C.	Glacier Domain Mapping through Image Processing Techniques in Doda Valley, Zaskar Basin, Ladhak, J&K	National Geographic Journal of India	55(2)	pp. 47-52	(2009)	
80.	Avishek, K., and Nathawat, M.S.	Identifying the Driving Forces of Landscape Change using Geoinformatics: A Case Study for Kanke, Namkum & Ratu blocks of Ranchi District, India	International Journal of Earth Sciences and Engineering	2 (2)	pp. 112-119	2009	ISSN:09 74- 5904
81.	Pandey, A., Singh, S. and Nathawat, M.S.	Analysing the impact of Anthropogenic Activites on Waterlogging Dyanimcs in Indo-Gangetic Plains, Northern Bihar, India	Internal Journal of Remote Sensing		pp. 1-16	(2009)	
82.	Sailaja B., Subrahmanyaswa	A combination for Regional Rice Area	Asian Journal of Geoinformatics	9 (3)	pp. 1-9	(2009)	

	ra, Rao, P., Nathawat M.S. and Rao, N.H.	Estimation using Remote Sensing					
83.	Sailaja B., Voleti S.R., Nathawat M.S. and Rao, N.H.	Validation of <i>Orzya</i> with irrigated low land field experiment of rice	International Journal of Tropical Agriculture@ Serials Publications	27 (1-2)	pp. 229-233	2009	ISSN: 0254- 8755
84.	Rai, P.K., Nathawat M.S. , Pandey, A.C. and Raju, K.N.	Morphometric Characteristics of Glaciers in Doda Valley, Zanskar basin, J&K.	Trans. Inst. Indian Geographers	31 (2)	pp. 136-.141	(2009)	
85.	Nathawat, M.S. , Rathore, V.S. and Sarkar, A.	Innovative Approach towards creating Thematic maps for urban information system a study for patna city in india	ABACUS	4 (2)	pp. 53-60	2009	
86.	Mishra, B.K., Nathawat, M.S. and Gautam, N.C.	A study of Drinking Water Demand and Population Dynamics in an agro Based Rural watershed: A case study in Chhoti Narmada watershed, Chhatisgarh,	India, Geo- Spectrum Interface	4 (1)	pp. 28-32	(2009)	
87.	Rai, P.K., Nathawat M.S.	Temporal Behaviour of Waterlogged Area using Multi- Temporal Satellite Data	The Deccan Geographer	46(2)	pp. 67-74	(2008)	ISSN- 0011- 7269
88.	Ray, C.P., Nathawat, M.S. and Rathore, V.	Influence of neotectonic activity on groundwater salinity and playa development in the Mendha river catchment, western India	International Journal of Remote Sensing	29(13)	pp. 3975- 3986	(2008) DOI: 10.1080/0143116 0801891861	
89.	Mandal, N.R., Nathawat, M.S. and Khare, A.	Community Participation in the construction of new School Building under the District Primary Education Programme in India	ABACUS	3 (2)	pp. 63- 68	(2008)	
90.	Mishra, M.,	Quantification of	Eastern	XIV (1)	pp.	(2008)	ISSN

	Sharma, L.K. and Nathawat, M.S.	Biomass in Kharagpur Forest Division in Bihar Using RS & GIS	Geographer		7-12		0973-7642
91.	Nathawat, M.S. and Rathore, V.	Remote Sensing for Deriving Neotectonic Evidences from Disorganized River Course and Riverine Geomorphology of Mendha River Area, Rajasthan	The Icfai University journal of Earth Sciences	2 (4)	pp. 62-72	(2008)	
92.	Mishra, B.K., Nathawat, M.S. and Gautam, N.C.	Integrated Assessment of Groundwater Resources in an Agro-based Rural Watershed of Hard Rock Terrain in India: A case study in Chhoti Narmada watershed, Chhattisgarh, India	India, Geo-Spectrum Interface	3 (1)	pp. 62-66	(2008)	
93.	Mishra, B.K., Nathawat, M.S. and Gautam, n.C.	A Qualitative Assessment of Groundwater as a Source of Drinking Water-A Case Study in Chhoti Narmada Watershed, Chhattisgarh	ECO-Chronicle	3 (1)	pp. 43-46	(2008)	
94.	Avishek, K., Nathawat, M.S. and Pathak, G.	Ecosystem Assessment and Management using Geospatial Technology	Journal of Regional Science	XXXX (2)	pp. 77-83	(2008)	
95.	Sailaja B., Rao P.S., Nathawat M.S. and Rao N.H.	Combination of Image Analysis Techniques for Rice Area Estimation	Environment & Ecology	26 (1)	pp. 219-227	(2008)	ISSN 0970-0420
96.	Nathawat, M.S. and Avishek, K.	Urban Wetland change and Vulnerability analysis using Geoinformatics	ECO-Chronicle	3 (2)	pp. 119-126	(2008)	
97.	Nathawat, M.S. , Rathore, V.S., and Sinha, A.k.	A Geoinformatics Approach for Water Resources Development in Hydro logically Disturbed Coal	The Eastern Geographer	13 (1)	pp. 38-41	(2007)	ISSN 0973-7642

		Mining Area					
98.	Arun, P.S., Nathawat, M.S. , Jana, R.	A Rule base physiographic characterization of a drought prone watershed applying remote sensing and GIS	Journal of the Indian Society of Remote Sensing	33(2)	pp. 189-201	(2005) DOI: 10.1007/BF02990035	
99.	Saini R.R., Nathawat M.S. , Punia M. and Raj S.	Mapping sand encroachment and changes in the Mendha river course with Landsat	International Journal of Applied Earth Observation and Geoinformation	2	pp. 112-114	(1989)	

5. Policy Documents Reports/ Mimeos:

S. No.	Title	Institution/ Agency	Year
-	-	-	-

6. Book Review published :

S. No.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1	-	-	-	-	-	-	-

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

S. No.	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference	City	Date and Year
1.	Nathawat M.S.	Biodiversity: It's Issues and Solutions	S.S. Jain Subodh P.G. (Autonomous college), University of Rajasthan	Workshop	Jaipur, Rajasthan	28-29 September, 2018
2.	Nathawat M.S.	Risk and Resources mapping Database and GIS Enabled System	NIDM jointly with JNU, NIC and SCO	Workshop	New Delhi	11 May 2017
3.	Sinha, S., Santra, A., Mitra, S.S., Jeganathan, C., Sharma, L.K., Nathawat,	Multi-frequency SAR capabilities for forest biomass and carbon inventory for REDD monitoring. In:	The 38th Asian Conference on Remote Sensing-Space Applications: Touching Human Lives (ACRS-2017)	Conference	(2017)	23-27 October, 2017

	M.S., Das, A.K., & Mohan, S.					
4.	Nathawat M.S.	Understanding linkages between ancient Indian trade highways and the Silk Road in International Conference on Ecology, Environment and Sustainable Development of Silk Road Economic Zone, Chinese Academy of Sciences	Chinese Academy of Sciences	Conference	Beijing, China	15-16 June 2014
5.	Mohanta, D. K., Singh, Mayank, Jha, R. C., Nathawat, M.S. and Rathore, V.S.	Electrical Consumer Indexing Incorporating Geographical Information System (GIS)	International conference, ITC 2010	Conference	Kochi, Kerala	12-13 March 2010
6.	Gupta H.S. and Nathawat M.S.	Elephant movement in Jharkhand, India – A GIS Analysis for Wild Life Managers	13 th World Forestry Congress	Conference	Buenos Aires, Argentina	18-23 October 2009
7.	Avishek K., Pathak G. and Nathawat M.S.	Landscape Ecological Mapping: A Tool Towards Green Productivity	7 th International Eco-city Conference	Conference	San Francisco, USA	22-26 April 2008
8.	Nathawat M.S. , Pandey A.C., Kumar P. and Bahuguna I.M. (2008)	Spatio-temporal dynamics of glaciers in Doda valley, Zaskar range, Jammu & Kashmir, India”	International workshop on snow, ice, glacier and avalanches	Workshop	IIT- Bombay- Mumbai	7-9 January 2008
9.	Nathawat M.S. , Lala M.G.N. and Sisodia G.S.	Spatial Decision Support System for Need Assessment of Educational Facilities in Tribal Dominated District	7 th International Workshop on Geographical Information System (IWGIS'07)	Workshop	Beijing, P.R. China	14-15 September, 2007
10.	Pandey A.C., Nathawat M.S. and Gulab Singh	Evaluating Geo-aspects implications on land sliding in Himalayan Terrain in a part of Aizwal district, Mizoram State using remote	International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences	Conference	Aizwal, INDIA	

		sensing and GIS				
11.	Sivakumar R., Krishna A.P., Nathawat M.S.	Need of Advanced Curriculum for Geoinformatics	Education, MAP INDIA	Conference	INDIA	2006
12.	Pandey A.C. and Nathawat M.S.	Hydrogeomorphological Mapping Using Remote Sensing Techniques for Water Resource Management of Yamunanagar District, Haryana	International Symposium on Resource and Environmental Monitoring (ISPRS) Proc	Conference	Hyderabad, India	02-04 December., 2003
13.	Shrivastava U., Nathawat M.S.	Disposal sites around Ranchi urban complex using remote sensing and GIS techniques		Conference		2003
14.	Nathawat M.S.	GIS Programme With A Holistic Approach	23 rd ACRS	Conference	Kathmandu	25-29 November, 2002
15.	Nathawat, M.S. and Sharma R.N.K.	Establishing a Corridor for the Elephants of Jharkhand, India using Remote Sensing and GIS	Map Asia	Conference	Bangkok, Thailand	7-9 August, 2002
16.	Sharma R.N.K, Nathawat M.S. and Pandey A.C	Evaluation of biological richness using remote sensing and GIS- A case study of BirsaMunda Zoological park	23 rd ACRS	Conference	Jharkhand	2002
17.	Pandey A.C. and Nathawat M.S.	Land use-Land cover Mapping through Digital Image Processing of Satellite Data- A case study from Panchkula, Ambala and Yamunanagar districts, Haryana State, India	MAP ASIA 2002	Conference	Bangkok	7-9 August 2002
18.	Raj S., Nathawat, M. S. and Saini R.R.	Assessment of Erosion Intensity in Rangeet Catchment (Sikkim): A case study based on aerial photographs and T.M. data products	9 th ACRS	Conference	Bangkok	23-29 November 1988

19.	Ghosh, Swagata, Pandey, A.C., Nathawat, M.S.	How fast the glaciers are changing in the western Himalaya: A satellite based temporal assessment	2 nd National Conference on Geospatial Technologies and Applications	Conference	REA, CSRE, IIT Bombay	24 -27 February, 2011
20.	Dasgupta, Arunima, Sastry, K.L.N., Dhinwa, P.S., Pathan, S.K. and Nathawat, M.S.	Desertification vulnerability risk based on fuzzy classification, a case study Bellary District, Karnataka, Abstracts of the "Geomatics 2011	National Conference	Conference	M.D.S. University, Rajasthan	2011
21.	Parihar, N., Das, A., Rathore, V.S., Nathawat, M.S. and Mohan, S.,	Analysis of L-band SAR backscatter and coherence for delineation of land use/land cover	National conference on climate change	Conference	ISRO Ahmadabad	4-6 February, 2010
22.	Pandey P.C., Sharma L.K. and Nathawat M.S.	Solid Waste management using geospatial technology in Bhagalpur Urban region	Urban Governance and Need for Information System	Seminar	Banaras Hindu University, Varanasi	March 16-17, 2009
23.	Kumar P., Pandey A.C. and Nathawat M.S.	Glacier Hazards monitoring using remote sensing data. National seminar on Geomorphology in disaster management	XX annual conference of Indian Institute of Geomorphologist (IGI)	Conference	Banaras Hindu University, Varanasi	15-17 February, 2008
24.	Arya A.S., Ramakrishnan S.S., M.S. Nathawat, Romshoo S., Pandey A.C., Dhinwa P.S. and Ajay	Mapping of indicators of desertification using satellite based SAR data: a case study	Project towards microwave remote sensing data utilization (JEP-MW)	Conference	Ahmedabad	May 2007
25.	Sailaja B., Rao P.S., Nathawat M.S. and Rao N.H.	Combination of Image Analysis Techniques for Rice Area Estimation	Paper presented in Second ESRI, Asia-Pacific User Conference	Conference	Taj Palace Hotel, New Delhi, India	18-19 January, 2007
26.	Nathawat M.S. and Krishna A.P	Geoinformatics Education: Trends and Opportunities	25 th ISRS Annual Convention and National Symposium	Conference	BIT, Mesra, Ranchi	6-9 December, 2005
27.	Kumar P.,	Integrated	25 th ISRS Annual	Conference	BIT, Mesra,	6-9

	Krishna A.P., Nathawat M.S. and Bhatnagar R.	Geoinformatics approach for disaster mitigation and management, Emergence of Geoinformatics for Development: Trends & Opportunities	Convention and National Symposium		Ranchi	December, 2005
28.	Rathore V.S. and Nathawat M.S.	Implication of Neo-tectonic Activities on Geomorphic Features, Structure and Hydrodynamic	Proceedings of 25 th ISRS Annual Convention and National Seminar	Conference	BIT, Mesra. Ranchi.	2005
29.	Avishek, K., Nathawat M.S. and Pathak G.	Ecosystem Monitoring & Green Productivity	Two days national seminar on "Green Productivity & Sustainable Development, organized by Environmental science & Engineering Group	Seminar	BIT, Mesra, Ranchi	10 – 11 March, 2005
30.	Sailaja B., Voleti S.R., and Nathawat M.S.	Validation of <i>Orzya</i> with irrigated low land field experiment of rice	Poster presented in national seminar on Rice and Rice based system for Sustainable Productivity	Seminar	India	September 2005
31.	Nathawat M.S. , Naithani S., Kumar V. V.H and Sivan M.	"Geoinformatics for planning processes using GIS (Decision Support System): A NRDMS Vision"	Geospatial Technology for Developmental Planning	Seminar	India	
32.	Nathawat M.S. , Kanungo, A. and Biswas, D.J.	Ranchi City Region' Growth Implications Stating the Role of Tribal Intermingled Residential Patterns	A RS & GIS Approach, Map India	Seminar	New Delhi	28-31 January, 2004
33.	Ghose, A., Nathawat, M.S. and Srivastava, D.	Policy Needs for Utilizing Geoinformatics for natural Resource Management in Bihar & Jharkhand	Role of Geoinformatics in Decentralized Planning for better Governance	Seminar	Department of Remote Sensing B.I.T., Mesra	7-8 October, 2004
34.	Nathawat, M.S. , Rathore V.S., Sinha, A.K. and Kumar, P.	Water Resources Development in Hard Rock Terrain	A Geo-informatics Approach, Role of Geoinformatics in Decentralized Planning for better Governance	Seminar	Department of Remote Sensing, B.I.T., Mesra,	7-8 October, 2004
35.	Tanima, S. and Nathawat,	Application of Radar data and Interferometry with	Role of Geoinformatics in Decentralized	Seminar	Department of Remote Sensing,	7-8 October,

	M.S.	Optical data in Urban Growth Sprawl Measurement in and around Kolkata, West Bengal	Planning for better Governance		B.I.T., Mesra,	2004
36.	Arun, P.S., Jana, R. And Nathawat, M.S.	Characterization of Soil-Slope of Drought Prone, Residual Chottonagpur Plateau,	Role of Geoinformatics in Decentralized Planning for better Governance	Seminar	Department of Remote Sensing, B.I.T., Mesra,	7-8 October, 2004
37.	Avishek, K. and Nathawat, M.S.	Human Intervention Analysis on Landscape Ecology Using Geo-spatial Technology	ISRS-National Symposim	Seminar	Jaipur	3-5 November. 2004
38.	Avishek, K. and Nathawat, M.S.	Repercussions of Urbanization on the Wetlands of Ranchi MNC using Geospatial Technology	7 th International Conference of MAP INDIA,	Conference	New Delhi	28- 29 January 2004
39.	Vijendra ,M.R., Nathawa, M.S. and Ravindranath, S.	Ancillary Data Application in A Digital Environment: A Case Study of Bangalore-Mysore Corridor with A Special Emphasis on Bangalore Cosmopolitan	Hub, Map India	Conference	New Delhi	28-31, January 2004
40.	Nathawat, M.S., Kanungo, A. and Biswas, D.J.	Ranchi City Region' Growth Implications Stating the Role of Tribal Intermingled Residential Patterns	A RS & GIS Approach, Map India	Conference	New Delhi.	28-31 January, 2004
41.	Kumar, P., Sinha, A.K, Nathawat M.S. and Singh, A.K.	Application of Geo-informatics in Quantifying Water Supply Status and its Futuristic Demand in and around Ranchi City	Role of Geoinformatics in Decentralized Planning for better Governance Department of Remote Sensing	Seminar	B.I.T., Mesra. Ranchi	7-8 October, 2004
42.	Nathawat, M.S. Pandey, A.C., Srivastava, A.and Rathore, V.S.	Water Resource Mapping and Management Using Remote Sensing Technique, A case Study in Panchkula Dist., Haryana	National Conference on Water Resource Development & Management	Conference	Ranchi	9-10 February, 2002
43.	Nathawat,	Watershed	National conference	Conference	Ranchi	6-7 August,

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

	M.S. and Rathore, V.S.	Management in Chotagamharia Macro watershed using Remote Sensing & GIS": the Institution of Engineers	on Water Resources Management in Jharkhand State			2002
44.	Nathawat, M.S. and Ghosh, M. L.S.	Spatial Decision Support System using GIS based Infrastructures Planning Health & Education for Ranchi District	MAP INDIA	Conference	New Delhi	2002
45.	Nathawat, M.S., Srivastava, A., Lala, S.	Predicting Temporal Variation in Urban Development of Ranchi City using Remote Sensing and GIS	National seminar on the Challenges for Development of Urban Areas in the newly Formed States	Seminar	Ranchi	6-8 December, 2001 15-19 December, 2001
46.	Nathawat, M.S. and Sharma, H.S.	Monitoring Urban Land Transformation in Jaipur and its Environs. Souvenir-	XIV Indian Geography Congress National Association of Geographers	Conference	Jaipur	27-29 December, 1992

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

S. No.	Details of the tour	Name of coordinating body	Duration
-	-	-	-

9. Consultancy assignment (if any):

S. No.	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):

S. No.	Name of the funding agency (AICTE/Others)	Name of the Scheme	Programme Title	Year of Funding	Duration	Amount In Lakhs Of Rupees	Status Completed/Ongoing
1.	NNRMS, DOS, Bangalore	AVP	Migratory Trend of Desert Sands	1992	6 months	Rs. 1.00	Completed
2.	Do En., GOI, New Delhi.	NNRMS	Mapping of wetlands: Phiclola & Sambhar lake areas using Remote Sensing	1995	22 months	Rs. 1.50	Completed
3.	Dept. of Irrigation, GoR through their World Bank Consultants		Landuse/ Landcover mapping Rajasthan using Image Processing Techniques.	1996	12 Month	Rs.43.00	Completed
4.	National remote Sensing Agency Hyderabad	IMSD	Integrated Mission for Sustainable Development (Jaipur & Ajmer)	1997	24 Months for each district	Rs. 12.00	Completed
5.	DST, GOI	NRDMS	Decentralized planning Panchkula, Ambala and Yamuna Nagar (Haryana) and Oprationalisation of state NRDMS	1998	24 Months	Rs. 21.97	Completed
6.	National Remote Sensing Agency Hyderabad	RGNDWM	Water Resources Mapping	2003	12 Months	Rs. 30.00	Completed
7.	National Remote Sensing Agency Hyderabad	Waste Land Mapping	Up Gradation of Waste Lands	2003	12 Months	Rs. 1.67	Completed
8.	DST Gol	NRDMS	Development of NRDMS Data Centre Ranchi	2003	36 Months	Rs. 29.60	Completed
9.	SAC DoS (Gol)	JEP-MW (RISAT)	Mapping of Indicators of Desertification using satellite based SAR data	2005	12 Months	Rs.4.50 +Data	Completed
10.	SAC DoS (Gol)	JEP-MW (RISAT)	Interferometric and Clinometric Analysis of	2005	24 Months	Rs.5.00 +Data	Completed

			RADAR data for estimation of tree/stand height				
11.	National Remote Sensing Agency DOS, Hyderabad	Waste Land Mapping	WL mapping of Bihar	2007	12 Months	Rs.6.12	Completed
12.	National Remote Sensing Agency DOS, Hyderabad	NUIS	Five Cities of Bihar	2008-09	18 Months	Rs.27.00	Completed
13.	SAC DoS (GoI)	Glacier Studies	Mass balance studies	2007	36 Months	Rs.33.34	Completed
14.	DST, GOI	FIST	Up gradation of Infrastructure	2006	60 Months	Rs.38.00	Completed
15.	UGC , GOI	SAP	Land & Water Audit studies	2007	60 Months	Rs.36.00	Completed
16.	SAC (ISRO)	ALOS RA	Interferometric studies for vegetation & land subsidence	2008-09	18 Months	Rs. 10.00 + Satellite Data	Completed
17.	SAC (ISRO)		Evaluation of Polimetric, interferometric Differential interferometric techniques for Vegetation & Land Subsidence Study	Nov. 2008	24 Months	Rs. 8.00	Completed
18.	SAC (ISRO)		COSMO-Skymed	April 2010	24 Months	Rs. 6.00	Completed
19.	SAC (ISRO)		Polarimetric study under desertic environment.	Oct 2010	36 Months	Rs.13.00	Completed
20.	NRSC (ISRO)		NUIS-Allahabad	Nov 2010	14 Months	Rs. 20.44	Completed
21.	NRSC (ISRO)		NUIS-Dharmshala	Nov 2010	12 Months	Rs. 2.83	Completed
22.	SAC (ISRO)		Snow & Glaciers-Phase II	April 2011	36 Months	Rs. 32.15	Ongoing
23.	NRSC (ISRO)		Rajiv Gandhi National Drinking Water Mission Phase-IV Groundwater Quality Mapping	July 2011	24 Months	Rs. 45.25	Completed
24.	NRSC (ISRO)		Irrigation potential Mapping	July 2011	12 Months	Rs. 2.00	Completed
25.	MoRD (GoI)		Integrated watershed	2011	5 years	Rs. 592.16	Completed

			management programme (IWMP)				
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11. Details of PhD and MPhil Scholars (including those awarded degree):

S. No.	Name and enrolment no:	Research Topic	Year of registration	Year of completion/ award
1.	Mr. Ajay Shrivastava	Effect of Subsurface Features on the Geomorphology of Gangatic Plain: An Integrated Approach Using Remote Sensing & Geographic Information System	2001	2005
2.	Mr. V.S. Rathore	Assessment of Water Bearing Potential of palacochannel of Mendha River System (Rajasthan) using Remote Sensing & GIS Technique	2002	2011
3.	Ms. B. Sailaja	Decision support System (DSS) for rice management using Geographical Information System (GIS)	2004	2010
4.	Mr.. H.S. Gupta	Spatio – Temporal Assessment of Forest Cover in Ranchi District and Forest Management Issues	2004	2009
5.	Ms. Kirti Avishek Ph.D./15/05	Ecosystem Management & Audit through Geospatial Technology	2005	2011
6.	Mr. N.R. Mondal	Alternative sustainable livelihood for farmers synthesizing natural resources self-help and appropriate technology through responsive administrative strategies	2004	2011
7.	Mr. Sunil Londhelalsahib	Integrated approach of Remote Sensing and GIS in characterization and evaluation of land resources in Subarnarekha Sub Catchment, Jharkhand for agricultural planning	2006	2013
8.	Ms. Shruti Kanga	Forest Fire Susceptibility, Risk Modeling and Management: A Geoinformatics Approach	2009	2013
9.	Mr. Praveen Kr. Rai	GIS based assessment of population dynamics and health management plan in Varanasi Dist. U.P.	2009	2013
10.	Ms. Swagata Ghosh	Assessment of Glacier Dynamics in parts of great Himalayan Range, Ladakh, India, using Geoinformatics.	2009	2013
11.	Mr. B.K. Mishra	Strategic Planning for Sustainable water Resource Management – A Geospatial Model for Implementation at Watershed Level	2005	2013
12.	Ms. Suman Sinha	Mutli-sensor SAR-optical synergic modeling in retrieving forest parameters for wildlife habitat management	2010	2017
13.	Ms. Saji Baby	Depicting Coastal Morphologic Evolution & Management for Coast in Crisis in the state of Kuwait.	2008	2015
14.	Ms. Arunima Dasgupta	Desertification vulnerability risk assessment and prediction model using fuzzy algorithm	2009	2016
15.	Ms. Sreeja S. Nair 138000475	Climate Change, Draught Risks and Mitigation Strategies: Study of Bundelkhand Region, India	2013	2019

16.	Mr. Amarjeet 138001151	Regional Disparities in the Level of Socio-Economic Development of Bundelkhand : An Inter-State Analysis	2013	Pursuing
17.	Ms. Shuchi 138001144	Food Security in India :An Inter-State Analysis	2013	Pursuing
18.	Mr. Ghanshyam Singh Yadav 179342549	Assessment of Water Poverty in Bundelkhand Region: An Inter-District Analysis	2017	Pursuing
19.	Mr. Mahendra Yadav 179342484	An Assessment of Change in Common Property Resources and its Impacts on Socio-Economic Condition in Sonbhadra District, UP	2017	Pursuing
20.	Ms. Alpana Kumari 179342406	Health Care Facilities and Health Status in Bihar: Geographical Analysis	2017	Pursuing
21.	Mr. Nitish Kumar Singh 188500206	Assessment of Urban Expansion and Land Use Dynamics of Varanasi City	2018	Pursuing

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

S. No.	Programme	Course	Unit (print)/ Audio/ Video/ eSLM	Coordinated/Written/ Edited (content/ language/ format)/ Translated	Period
Programme Coordination					
1.	BDP Geography			Coordinated	2011
2.	Ph.D. Geography			Coordinated	2012-2014
3.	PG Diploma in GIS and GeoSpatial Analysis			Coordinated	2011
Course Coordination					
1.	B.Sc. General Programme in Geography (CBCS)	Physical Geography		Coordinated	Since 2014
2.	Ph.D. in Geography	RGG 005: Remote Sensing and GIS Techniques in Geospatial Research		(Coordinated jointly Dr. Vijay Kumar Baraik)	2013-2016
Unit Writing					
1.	B.Sc. General Programme in Geography (CBCS)	Physical Geography	Unit 1:Origin of Earth	Written	2019
2.	B.Sc. General Programme in Geography (CBCS)	Physical Geography	Unit 4:Concepts of Isostasy	Written	2019

Transformation and Editing					
1.	Post Graduate Certificate Programme in Geoinformatics	MGY-001 Introduction to Geoinformatics	Block 4- Scope and Application of Geoinformatics	Edited	
2.	B.Sc. General Programme in Geography (CBCS)	Physical Geography	Unit 2:Earth- A Living Planet	Transformation	2019
3.		Physical Geography	Unit 3:Interior of The Earth: A Structure and Composition	Transformation	2019
4.		Physical Geography	Unit 5: Materials of the Earth's Crust: Rocks and Minerals	Transformation	2019
5.		Physical Geography	Unit 6: Continental Drift, Mountain building and Plate Tectonics	Transformation	2019
6.		Physical Geography	Unit 7: Endogenetic Forces	Transformation	2019
7.		Physical Geography	Unit 8: Exogenetic Processes- I	Transformation	2019
8.		Physical Geography	Unit 9: Exogenetic Processes- II	Transformation	2019
Video programmes					
S. No.	Programme	Course	Unit Videos	Coordinated	Period
1.	B.Sc. General Programme in Geography (CBCS)	Physical Geography	Observing Weather	Content Coordinator	https://youtu.be/EKWrrk1xrY
2.		Physical Geography	Predicting Weather	Content Coordinator	https://youtu.be/ZJE2VrdFxDg

- Courses/ Units translated and period
- Audio programmes (title, Course, period)
- Video programmes(title and Course, period)

13. Training programmes designed and conducted, duration and dates

S. No.	Programme	Dates	Place	Number of Participants
1.	workshop on "User awareness workshop on remote Sensing data products & Services	1 March 2002	Department of Remote Sensing, Birla Institute of Technology, Mesra, Ranchi	15
2.	DST Gol sponsored One Week, Short Term Training Programme on "Natural Hazards Management in Integrated Regional Planning: Geoinformatics Approach"	19-24 Nov. 2007.	Department of Remote Sensing, Birla Institute of Technology, Mesra, Ranchi	20
3.	Organized Online EDUSAT based	19/09/200	Department of	50

	training programme on: "Remote Sensing GIS and GPS" in collaboration with IIRS Dehra Dun	7 - 03/12/2007	Remote Sensing, Birla Institute of Technology, Mesra, Ranchi	
4.	Organized Online EDUSAT based training programme on: "Remote Sensing GIS and GPS" in collaboration with IIRS Dehra Dun	, Aug. 2008 – December 2008	Department of Remote Sensing, Birla Institute of Technology, Mesra, Ranchi	50
5.	Organized Online EDUSAT based training programme on: "Remote Sensing GIS and GPS" in collaboration with IIRS Dehra Dun	Aug. 2009 – December 2009	Department of Remote Sensing, Birla Institute of Technology, Mesra, Ranchi	50
6.	Organized Online EDUSAT based training programme on: "Remote Sensing GIS and GPS" in collaboration with IIRS Dehra Dun	Aug. 2010 – December 2010	Department of Remote Sensing, Birla Institute of Technology, Mesra, Ranchi	50

14. Details of Counselling sessions conducted:

S. No.	Programme	Course	Place	Dates	Duration	Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other)
1	B.Sc. Gen, Physical Geography	The Relevance of Geography in Contemporary World and Career Prospects	Gyan vani 105.6 MHz)	October 8, 2013	5.00-6.00 pm	Interactive Radio Counselling session

15. Details of Patents granted (if any):
16. Contribution to IGNOU's corporate life:

S. No.	Chairperson/ Member of Committee	Name of the Committee	Date/ period
1.	Chairman	Committee of House Allotment Committee, Indira Gandhi National Open University (IGNOU), New Delhi	September 2017 to January 2019
2.	Member	CBCS Committee, Indira Gandhi National Open University (IGNOU), New Delhi	May, 2016 to till date

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

3.	Member	School Board of the School of Sciences , Indira Gandhi National Open University (IGNOU), New Delhi	July, 2011 to till date
4.	Member	Technical Purchase Recommendation Committee (TRPC), EMPC, Indira Gandhi National Open University	6 August, 2018
5.	Member	Academic Council Committee, Indira Gandhi National Open University (IGNOU), New Delhi	2014-2015 2016-2019

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

S. No.	Designation	Period
1.	Director, School of Sciences, Indira Gandhi National Open University (IGNOU), New Delhi	July 2016 to July 2019
2.	Director, Research Unit Indira Gandhi National Open University (IGNOU), New Delhi	August 2014 to January 2016
3.	Discipline Group Coordinator	6 th August 2012 to 5 th August 2013
4.	Research Programme Coordinator	2013-2015

18. Any other contribution/information
Role and Responsibilities Prior to Joining IGNOU:

- Professor & Head, Department of Remote Sensing, Birla Institute of Technology (BIT), Mesra, Ranchi (April 2011- July 2011)
- Project Director, State NRDMS Centre, Dept. of Science & Technology, Govt. of Haryana (1998-2001)
- Senior Scientific Officer & In charge, Dept. of Remote Sensing, B.M. Birla Science & Technology Centre, Jaipur (1993-1998)
- Scientist/ Lecturer, Dept. of Remote Sensing, B.M. Birla Science & Technology Centre, Jaipur (1985-1993)
- Research Fellow, South Asia Study Centre, University of Rajasthan (1982-1984)

Signature of Teacher /Academic
Signature of Director/ Head