

CURRICULUM VITAE

1. **Name** : **Dr. MADAN MOHAN**
2. **Designation** : Assistant Professor of Geography (Sr. Scale) & Principal Investigator, MRP-UGC.
3. **Address (Off.)** : Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia (Central University), New Delhi - 110 025, INDIA.
Phone : 91-11-2698 1717 – 3312 (O);
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E-mail : drmdnmohan@gmail.com (O);
4. **Specialisation** : Geoinformatics, Urban and Regional Development & Planning



5. **Academic & Professional Qualifications:**

| <i>Examinations Passed</i> | <i>University/Institution</i> | <i>Year</i> | <i>Subject</i> |
|--|--|-------------|-----------------------|
| D-Geoinformatics <i>Joint IIRS-ITC Program</i> | IIRS & Int. Inst. for Geo-Information Sc. & Earth Observation (ITC), Enschede, Netherlands | 2008 | GEOINFORMATICS |
| Ph.D. | Jawaharlal Nehru University, New Delhi. | 1998 | ECOLOGY & DEVELOPMENT |
| Adv. Cert. P.C. Application | National Institute of Information Technology (NIIT), New Delhi. | 1997 | COMPUTER APPLICATION |
| U.G.C. (NET) | University Grants Commission, New Delhi. | 1991 | HUMAN GEOGRAPHY |
| M.Phil. | Jawaharlal Nehru University, New Delhi. | 1990 | URBAN GEOGRAPHY |
| M.A. | Jawaharlal Nehru University, New Delhi. | 1987 | GEOGRAPHY |
| B.A. (Hons.) | University of Delhi, Delhi. | 1985 | GEOGRAPHY |

6. **Professional Recognitions, Awards, Grants and Fellowships Received:**

- i. National Education Test (NET) was qualified for the award of Junior/Senior Research Fellowship and eligibility for Lecturership which was conducted by the University Grants Commission (UGC), New Delhi, in 1991. The UGC-JRF/SRF fellowship was availed for M.Phil./Ph.D. research work.
- ii. The International Institute for Geo-Information Science and Earth Observation (ITC) and International Society for Photogrammetry and Remote Sensing (ISPRS) and the Indian National Science Academy (INSA) awarded the grants for research paper presentation and participation in the *XIXth ISPRS Congress Amsterdam 2000*, held at Amsterdam Exhibition and Congress Centre, Amsterdam, The Netherlands.
- iii. The Council for Scientific and Industrial Research (CSIR); the Department of Science and Technology (DST); and the Jamia Millia Islamia (Central University) awarded the grant for research paper presentation and participation in the *XXII FIG International Congress 2002*, held at Marriott Wardman Park Hotel, Washington, D.C., United States of America.
- iv. The Federation of International Geomatics (FIG) and the Local Organising Committee (LOC): Ordre des Géomètres-Experts (OGE); Association Francaise de Topographie (AFT) and Institute Géographique Nationale (IGN) awarded the Young Surveyors Grants based on the best paper for attending the *FIGWW 2003 and 125th Anniversary of FIG*, held at École Nationale des Sciences Géographiques (ENSG) (Cité Descartes – Champs-sur-Marne) Paris, France.
- v. The International Society for Photogrammetry and Remote Sensing (ISPRS) and the Istanbul Technical University (ITU) together awarded the Grants for participation in the *XX ISPRS Congress 2004*, held at Istanbul Convention and Exhibition Centre, Istanbul, TURKEY.

- vi. The Federation of International Geomatics (FIG) awarded the Young Surveyors Grants and the national funding agencies the CSIR and INSA both awarded partial financial assistance (PFA) travel grants towards my participation in the XXIV FIG International Congress 2010, Sydney, Australia.

7. Professional Work Experiences:

Assistant Professor of Geography

Jamia Millia Islamia (Central University), New Delhi, 24th October, 2000 to date (10+ yrs);
Jawaharlal Nehru University, New Delhi, 25th March, 1996 to 23rd October, 2000 (4½ yrs).

8. Higher Education Research Work Completed for Award of Degrees/Diplomas on following Themes:

2008 Urban Sprawl Impact Analysis using GIS and Entropy Model: A Study of NOIDA City, INDIA
(*PG Dip. Geoinformatics*);

1998 Ecology and Development in the Indo-Gangetic Divide and the Adjoining Region (*Ph.D.*);

1990 Processes of Urbanisation and Economic Development in Maharashtra: 1961-81 (*M.Phil.*).

9. Post-Doctoral Research Degree/Diploma Completed:

2008 Post-Graduate Diploma in Geoinformatics, a joint program of the Indian Institute of Remote Sensing (IIRS), Dehradun and International Institute for Geo-Information Sciences & Earth Observation (ITC), Enschede, Netherlands was successfully completed and awarded in April 2008 at the IIRS Campus, Dehradun, Uttaranchal.

10. Research Experiences/Publications:

a. Books:

| | |
|-------------------|---|
| Already Published | 1 |
| Under Publication | 5 |

b. Research Papers:

| | |
|---------------------------|---|
| Internationally Published | 9 |
| Nationally Published | 5 |
| Under Publication | 4 |

c. Research Reviews:

| | |
|--------------------------|---|
| Article Review Published | 2 |
|--------------------------|---|

11. Research Projects Undertaken:

| | |
|-------------------------------|---|
| Major Project – UGC (ongoing) | 1 |
| Projects Completed | 4 |

12. Research Guidance & Supervision:

| | |
|--|---|
| a. Ph.D. Degree (Awarded) | 1 |
| b. Ph.D Thesis (on-going) | 1 |
| c. M.A./M.Sc. Research Project (completed) | 2 |
| d. ADRSGIS Project Report (completed) | 1 |

13. List of Publications:

A. Books Published:

1. Mohan, Madan (2000) *Ecology and Development*, Jaipur (INDIA), New Delhi, Rawat Publications.

B. Peer-Reviewed Research Papers/Articles Published:

1. Mohan, Madan (2010) “Geospatial information for urban sprawl planning and policies implementation in developing country’s NCR Region: A study of NOIDA City, India” in *XXIV FIG International Congress Proceedings*, Sydney, Australia.

2. Mohan, Madan (2009) "GeoSpatial Information Integration, Modeling and Digital Mapping of Urban Sprawl: A Study of NOIDA City, India" *24th International Cartographic Conference Proceedings*, Santiago, Chile, South America.
 3. Mohan, Madan (2005) "Urban Land Cover/Land Use Change Detection in National Capital Region (NCR) Delhi: A Study of Faridabad District", in *FIG Working Week 2005 and GSDI-8 Proceedings*, International Federation of Surveyors (FIG), Cairo, Egypt, pp. 1-15.
 4. Mohan, Madan (2004a) "Spatial Data Modeling in GIS for Historical Restoration and Conservation of Cultural Heritage of Seven Cities of Delhi", in Orhan, M. Altan (ed.) *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XXth ISPRS Congress 2004, Istanbul, Turkey, Vol. XXXV, Part B, Commission V, pp. 676-682.
 5. Mohan, Madan (2004b) "Historical Information System for Surveying Monuments and Spatial Data Modeling for Conservation of Cultural Heritage in Delhi", in *FIG 27th Working Week Proceedings*, International Federation of Surveyors (FIG), Athens, Greece, pp. 1-17.
 6. Mohan, Madan (2003a) "Land Encroachment Mapping Through GIS on the Northern Flank of Aravalli Mountain Hills – The Delhi Ridge" in *FIG Working Week 2003 and 125 Anniversary of FIG Congress Proceedings*, International Federation of Surveyors (FIG), Paris, France, pp. 1-16.
 7. Mohan, Madan (2003b) "GIS-Based Integrated Approach for Monitoring and Modeling of Hyper Urbanisation for Sustainable Environmental Development in Delhi" in *2nd FIG Regional Conference Proceedings*, International Federation of Surveyors (FIG), Marrakech, Morocco, pp. 1-15.
 8. Mohan, Madan (2002) "GIS-Based Spatial Information Integration, Modeling and Digital Mapping: A New Blend of Tool for Geospatial Environmental Health Analysis for Delhi Ridge" in *XXII FIG International Congress Proceedings*, International Federation of Surveyors (FIG), DENMARK, pp. 1-14.
 9. Mohan, Madan (2001) "Spatial Data for Environmental Management: A GIS-Based Monitoring of Ecological Restoration for Delhi Ridge", in Muralikrishna, I.V. (ed.) *Spatial Information Technology: Remote Sensing and Geographical Information Systems*, B S Publications, Hyderabad, Vol. II, pp. 546-553.
 10. Mohan, Madan (2000) "Climate Change: Evaluation of Ecological Restoration of Delhi Ridge using Remote Sensing and GIS Technologies", in Beek, K. J. and M. Molenaar (ed.) *International Archives of Photogrammetry and Remote Sensing*, XIXth ISPRS Congress Amsterdam 2000, The Netherlands, Vol. XXXIII, Part B7, Commission VII, pp. 886-894.
 11. Mohan, Madan (1998) "Quarrying Activities on the Northern Flank of the Aravallis - An Environmental Impact Analysis", *Indian Geographical Journal*, Vol. 73, No. 2, pp. 130-140.
 12. Mohan, Madan (1992) "Ecology and Development", *JNU NEWS*, Vol. XIII, No. 7, pp. 10-12.
- C. Research Papers/Articles Reviewed:**
13. Mohan, Madan (1999) "Agricultural Exports, Poverty and Ecological Crisis: Case Study of Central American Countries", *ICSSR Journal of Abstract and Review: Economics*, Vol. 1, No. 2, pp. 32.
 14. Mohan, Madan (1999) "Economic Analysis of Energy Use in Punjab Agriculture", *ICSSR Journal of Abstract and Review: Economics*, Vol. 1, No. 2, pp. 106-107.
- C. Peer-Reviewed Research Papers / Articles and Books under Publication:**
1. Mohan, Madan (2011) "Urban Sprawl Impact Analysis using GIS and Entropy Model: A Study of NOIDA City, India", *Journal of the Indian Society of Remote Sensing*, Dehradun, Utranchal.
 2. Mohan, Madan (2011) *Urban Sprawl: A GIS Approach for Digital Mapping*, New Delhi, KK Books.

14. Major Research Projects (MRP-UGC) Completed/ In-Progress by Faculty Member:

Madan Mohan (2009), *Principal Investigator*, “GeoSpatial Information Integration, Modeling and Digital Mapping of Urban Sprawl: A Study of NCR Region, Delhi”, University Grants Commission (UGC), New Delhi (on-going).

15. International/National Congresses/Conferences:

A. Paper Presented in International Congresses/Conferences:

2010 “*Geospatial Information for Urban Sprawl Planning and Policies Implementation in Developing Country's NCR Region: A Study of NOIDA City, India*”, presented in *XXIV FIG International Congress 2010* – main theme was “*Facing the Challenges – Building the Capacity*” organized jointly by the International Federation of Surveyors (FIG) and the Surveying and Spatial Sciences Institute (SSSI) at Sydney Convention Centre, Sydney, Australia, 11-16 April 2010.

2004 “*Spatial Data Modeling in GIS for Historical Restoration and Conservation of Cultural Heritage of Seven Cities of Delhi*”, presented in *XXth ISPRS Congress 2004*, main theme was “*Geo-Imagery Bridging Continents*” organized by Istanbul Technical University (ITU) and International Society for Photogrammetry and Remote Sensing (ISPRS), held at Istanbul Convention & Exhibition Center, Istanbul, Turkey, 12-23 July 2004.

2003 “*Land Encroachment Mapping Through GIS on the Northern Flank of Aravalli Mountain Hills – The Delhi Ridge*” presented in *FIG Working Week 2003 and 125th Anniversary of FIG Congress*, main theme was “*Still on the front line*” organised by Ordre des Géomètres-Experts (OGE); Association Francaise de Topographie (AFT); Institute Géographique National (IGN); and International Federation of Surveyors (FIG), held at École Nationale des Sciences Géographiques (ENSG) (Cité Descartes – Champs-sur-Marne), Paris, France, April 13-17, 2003.

2002 “*GIS-Based Spatial Information Integration, Modeling and Digital Mapping: A New Blend of Tool for Geospatial Environmental Health Analysis for Delhi Ridge*” presented in *FIG XXII 2002 International Congress*, main theme was “*Geomatics and Property Valuation for Global Sustainable Development*”, organized by International Federation of Surveyors (FIG), American Congress on Surveying and Mapping (ACSM), American Society for Photogrammetry and Remote Sensing (ASPRS) and Appraisal Institute (AI), held at Marriott Wardman Park Hotel, Washington, DC, United States of America (USA), 19-26 April, 2002.

2001 “*Spatial Data for Environmental Management: A GIS-Based Monitoring of Ecological Restoration for Delhi Ridge*”, presented in *International Conference on Remote Sensing and GIS/GPS (ICORG 2001). Fifth Conference ICORG 2001*, focal theme was “*Spatial Information Technology*”, organised by Centre for Spatial Information Technology, Jawaharlal Nehru Technology University, held at Hyderabad, India, 2-5 February 2001.

2000 “*Climate Change: Evaluation of Ecological Restoration of Delhi Ridge using Remote Sensing and GIS Technologies*”, presented in *XIXth ISPRS Congress Amsterdam 2000*, main theme was “*Geoinformation For All*”, organised by International Institute for Geo-Information Science and Earth Observation (ITC) and International Society for Photogrammetry and Remote Sensing (ISPRS), held at Amsterdam RAI International Exhibition and Congress Centre, Amsterdam, The Netherlands, 16-23 July 2000.

B. International Symposia/Conferences/Workshops/Congresses – Attended:

i. “*Geo-Imagery Bridging Continents*”, the XXth ISPRS Congress 2004 was organised by the Istanbul Technical University (ITU) and International Society for Photogrammetry and Remote Sensing (ISPRS) held at Istanbul, Turkey, 12-23 July 2004.

ii. “*Status of GIS in European Union and South Asia*”, the Inter-GIS: Train-the-Trainer Workshop, co-funded by the European Commission – ‘EU-ASIA Higher Education Networking’ organized by Centre for the Study of Regional Development and University of Salzburg, Austria, held at

Jawaharlal Nehru University (JNU), New Delhi, India, 7-9 November 2003.

- iii. ***“Still on the front line”***, the FIG WW 2003 & 125 Anniversary of FIG Congress was organised by Ordre des Géomètres-Experts (OGE); Association Française de Topographie (AFT); Institut Géographique National (IGN); and International Federation of Surveyors (FIG), held at École Nationale des Sciences Géographiques (ENSG) (Cité Descartes – Champs-sur-Marne) Paris, France, 13-17 April 2003.
- iv. ***“Sustainable Agriculture, Water Resources Development and Earth Care Policies”***, the BVF IInd International Conference was organized by Bhoovigyan Vikas Foundation (BVF) (Foundation for Earth Sciences Development), held at New Delhi, India, 18-20 December 2002.
- v. ***“Geomatics and Property Valuation for Global Sustainable Development”***, the FIG XXII 2002 International Congress was organized by International Federation of Surveyors (FIG), American Congress on Surveying and Mapping (ACSM), American Society for Photogrammetry and Remote Sensing (ASPRS) and Appraisal Institute (AI), held at Washington, DC, United States of America, 19-26 April 2002.
- vi. ***“Sustainable Development and Sustainable Life Style”***, the BVF Ist International Conference was organised by the Bhoovigyan Vikas Foundation (BVF) (Foundation for Earth Sciences Development), held at the Jawaharlal Nehru Auditorium, NCUI, New Delhi, India, 22-23 April 2001.
- vii. ***“Spatial Information Technology”***, the Vth International Conference on Remote Sensing and GIS/GPS (ICORG 2001) was organised by Centre for Spatial Information Technology, Jawaharlal Nehru Technology University, held at Hyderabad, India, 2-5 February 2001.
- viii. ***“Geoinformation For All”***, the XIXth ISPRS Congress Amsterdam 2000 was organised by International Institute for Geo-Information Science and Earth Observation (ITC) and International Society for Photogrammetry and Remote Sensing (ISPRS), held at Amsterdam, The Netherlands, 16-23 July 2000.
- ix. ***“Population Growth in Developing Countries”***, the International Symposium was organised by Centre for the Study of Regional Development (CSR) and International Geographical Union (IGU), held at Jawaharlal Nehru University (JNU), New Delhi, India, 20-24 December 1993.

C. National Symposia/Conferences/Workshops/Convocations/Congresses – Attended:

- i. ***“CV Raman International Fellowship for African Researchers”***, the launch ceremony jointly organized by the Department of Science and Technology (DST) and Federation of Indian Chambers of Commerce and Industry (FICCI) attended on 19th February 2010 at FICCI, Federation House, Tansen Marg, New Delhi.
- ii. ***“Geoinformatics for Society”***, seminar was organised by Centre for the Study of Regional Development (CSR), School of Social Sciences, held at Jawaharlal Nehru University (JNU), New Delhi, 23 March 2007.
- iii. ***“Geospatial Digital Learning India – 2007”***, conference was organized by Department of Geography, Kirori Mal College, University of Delhi, Delhi during 17-18 January 2007.
- iv. ***“Our Planet: Humanity, Habitat and Development”***, conference was organized by the Kamala Nehru College, University of Delhi, New Delhi, 12-13 December 2006.
- v. ***“Education and Democratic Citizenship: Beyond the Textbook Controversy”***, seminar was organised by the Academy of Third World Studies, Jamia Millia Islamia (Central University), New Delhi, 17 January 2005.
- vi. ***“Religion, Culture and Society: North India in the Nineteenth and Twentieth Centuries”***, seminar was organised by the Centre for Jawaharlal Nehru Studies and Academy of Third World Studies, Jamia Millia Islamia (Central University), New Delhi, 17-19 December 2004.

- vii. ***“The Nehruvian Agenda Revisited”***, seminar was organised by the Centre for Jawaharlal Nehru Studies, Jamia Millia Islamia (Central University), New Delhi, 7-9 December 2004.
- viii. ***“Remote Sensing: Today and Tomorrow”***, the Remote Sensing Day 2004 Celebration was organised by the Indian Society of Remote Sensing, Delhi Chapter and University of Delhi, Department of Geography, Delhi School of Economics, Delhi University (North Campus), New Delhi, 18 August 2004.
- ix. ***“Agenda for Geography in the First Quarter of 21st Century”***, seminar was organised by the Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia (Central University), New Delhi, 31 March 2004.
- x. ***“Water and Peace”***, seminar was organized by Faculty of Engineering & Technology, Jamia Millia Islamia (Central University), New Delhi, 28-29 March 2003.
- xi. ***“Emerging Research Themes in Contemporary Geography”***, seminar was organised by Centre for the Study of Regional Development (CSR), School of Social Sciences, held at Jawaharlal Nehru University (JNU), New Delhi, 4-5 March 2003.
- xii. ***“Management of Higher Education: 21st Century Challenges”***, seminar was organized by the Faculty of Engineering & Technology, Jamia Millia Islamia (Central University), New Delhi, 9th February 2002.
- xiii. ***“The Ridge and The City”***, seminar was organised by School of Planning and Architecture (SPA), held at the Auditorium, Architecture Block, School of Planning and Architecture (SPA), New Delhi, 7th November, 2001.
- xiv. ***“MicorStation ‘J 7.1 Features & Benefits’ and ‘Business Strategies for GeoEngineering Automation’***, Bentley FORUM was organised by the Bentley Systems Pvt. Ltd., held at New Delhi, 5th November 1999.

D. Presidential Address/ Chairman/ Chief Guest:

- i. Chief Guest, Annual Day Function, Department of Geography, Shaheed Bhagat Singh College, University of Delhi, Saket, New Delhi on 15th March 2011.

E. Orientation Programs/Short Courses/Workshops – Attended:

- i. ***“13th 3-Weeks Refresher Course in Geography & Environmental Studies”*** was attended at UGC-Academic staff College, Jamia Millia Islamia (Central University), New Delhi, during 15th February - 9th March 2011.
- ii. ***“221st 3-Weeks Refresher Course in Geography”*** (RC-221) was attended at UGC-Academic staff College, Himachal Pradesh University, Himachal Pradesh, Shimla, during 10th -30th June 2010.
- iii. ***“67th 4-Weeks Orientation Program”***, was organized by UGC-Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 6th April to 7th May 2004.
- iv. ***“Development of Quality Question Paper”***, workshop was organized by the UGC-Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 10th -13th January 2003.

16. Seminars & Conferences Organized by Faculty Member:

- 2009 ***“Empowerment of Young Geographers”*** one day seminar was organized in the Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia (Central University), New Delhi, 19th February 2009.

17. Higher Education – Ph.D. Research Guidance/Supervision:

a. Doctoral Thesis Supervision

- 2005 “Impact Analysis of Climate Change on the Dynamics of Glaciers in Bhagirathi River Basin, Garhwal Himalaya” (awarded in 2011).
- 2010 “Special Economic Zones’ Impact on Physical Landscape and Socio-economic Development in Faridabad and Gurgaon Districts of Haryana” (on-going).

b. ADRSGIS Project Report Supervision:

- 2005 Project Report on “*Delhi Ridge*” was supervised of the Advance Diploma in Remote Sensing and GIS Applications (ADRSGIS) (completed).

c. MA / MSc Project Report Supervision:

- i. “Trends and Patterns of Population Distribution in the World with special reference to India”
- ii. “Urbanisation and Squatter Settlements processes in the World with special reference to India”.

18. Teaching Post-Graduate & Higher Education Level Courses:

2010-2011

- a. **Post-graduation (M.A./M.Sc.):**
Settlement Geography (Theory Paper II) – I Sem.
Remote Sensing & Image Interpretation (Practical-I) – II Sem.
Population Geography – Project Supervision – M.A./M.Sc. (F)
Systematic & Regional Geography of India (Theory Paper VII).
- b. **Advanced Diploma (ADRSGIS):**
Photogrammetry and Cartography (Theory Paper I) – I Sem.
Urban Mapping and Planning (Theory Paper VIII) – II Sem.
Geographic Information Systems & GPS (Practical III) – I Sem.
Urban Area Interpretation (Practical VI) – II Sem.
- c. **Ph.D. Program:**
Environment and Development (Theory Paper II) – I Sem.

2008-2010

- a. **Post-graduation (M.A./M.Sc.)**
Human Geography (Theory Paper III)
Geographic Information Systems (Practical VII)
- b. **Advanced Diploma (ADRSGIS & ADCAC)**
Remote Sensing and GIS in Urban Area Analysis (Theory Paper V)
Geographic Information Systems in Urban Area Analysis (Practical IV)
Computer-Assisted Mapping (Practical III)

2007-2008

- a. JMI Central University deputed on-duty for doing Joint PG Diploma in Geoinformatics of the Indian Institute of Remote Sensing (IIRS), Dehradun, India and International Institute for Geo-Information Science & Earth Observation (ITC), Enschede, The Netherlands.

2005-2007

- a. **Post-graduation (M.A./M.Sc.)**
Human Geography (Theory Paper III)
Geographical Information System (Practical VII)
- b. **Advanced Diploma (ADRSGIS & ADCAC)**
Principles of RS & Image Interpretation (Theory Paper I)
GIS in Urban Area Analysis (Practical IV)
Computer-Assisted Mapping (Practical III)

2002-2005

- a. **Under-Graduate (B.A./B.Sc.)**
 Geography of India (Theory Paper IV)
 Systematic Geography of India (Theory Paper V)
- b. **Post-graduation (M.A./M.Sc., ADRSGIS & ADCAC)**
 Geographical Information System (Practical VII)
 Remote Sensing: Concepts and Principles (Theory Paper I)
 Geographic Information Systems in Urban Area Analysis (Practical IV)
 Computer-Assisted Mapping (Practical III)

2000-2002

- a. **Under-Graduate (B.A./B.Sc.)**
 Human Geography (Theory Paper II)
 Geography of Resource & Environment (Theory Paper III)
 Statistical Methods & Representation of Population & Economic Data (Practical II)
 Geography of India (Theory Paper IV)
 Systematic Geography of India (Theory Paper V)
- b. **Advance Diploma (ADCAC)**
 Topographic and Thematic Mapping (Practical II)

19. Lectures/Presentations Delivered:

- A. A series of lectures were delivered in the workshop on “*GIS and ARC/INFO Application to Regional Development*”, organised by Centre for the Study of Regional Development, held at Jawaharlal Nehru University, New Delhi, 14-26 November 1999 on the of topics mentioned below:
 - i. DIGITIZATION: Using ARCEDIT Subsystem of ARC/INFO.
 - ii. DIGITIZATION: Using ADS Subsystem of ARC/INFO.
 - iii. TOPOLOGY CREATION: Using BUILD & CLEAN Subsystems of ARC/INFO.
 - iv. DATABASE MANAGEMENT: Using TABLES & JOINITEM Subsystems of ARC/INFO.
 - v. MAP PROJECTION: Digitizer to Real-World Coordinates.
 - vi. PERFORMING GEOGRAPHICAL ANALYSIS: Using BUFFER & OVERLAY Subsystems of ARC/INFO.
- B. Lectures delivered in the *UGC sponsored Refresher Course in Geography* on the following themes:
 - i. “*Fundamentals of GIS and Geospatial Information Abstraction from Real World*”, lecture was delivered in the 12th 3-weeks Refresher Course in Geography at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 22nd January 2010.
 - ii. “*Latest development in Geography and Research Opportunities*” a half-day interaction was organized for the participants of the 12th 3-weeks Refresher Course in Geography at the Department of Geography on-behalf of the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 4th February 2010.
 - iii. “*ArcGIS Capabilities for Real World Problems Solutions*” revelation was given in the 11th 3-Weeks Refresher Course in Geography at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 31 January 2009.
 - iv. “*GIS Application in Environmental Studies for Sustainable Development*” lecture was delivered in the 9th 3-Weeks Refresher Course in Geography at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 8 October 2006.
 - v. “*GIS Application Techniques for Regional Development and Planning*” lecture was delivered in the 8th 3-Weeks Refresher Course in Geography at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 27 December 2005.
 - vi. “*Learning to Solve Environmental Problems through Geographic Information System*” lecture was delivered in the 1st 3-Weeks Orientation Programme in Environment at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 28 September 2005.

- vii. **“Basics of Computer System Operations and working with Micorsoft Word”**, lecture was delivered in the 1st 3-Weeks Orientation Programme in Environment at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 27 September 2005.
- viii. **“Demonstration on ArcGIS”** lecture was delivered in the 7th 3-Weeks Refresher Course in Geography at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 7 January 2005.
- ix. **“GIS: A New Blend of Tools for Geo-Spatial Analysis and Regional Development”** and **“Demonstration of J T Maps”** lectures were delivered in the 7th 3-Weeks Refresher Course in Geography at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 4 January 2005.
- x. **“Aerial Photo Acquisition and its Interpretation”**, lecture was delivered in the 7th 3-Weeks Refresher Course in Geography at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 3 January 2005.
- xi. **“GIS-Based Spatial Information Integration and Digital Mapping”**, lecture was delivered in the 5th 3-Weeks Refresher Course in Geography at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 15 October 2001.
- xii. **“Fundamentals of Remote Sensing and Photo Interpretation”**, lecture was delivered in the 5th 3-Weeks Refresher Course in Geography at the Academic Staff College, Jamia Millia Islamia (Central University), New Delhi, 12 October 2001.
- C. Lectures delivered in the **School Teacher Refresher Course in Geography** on the following themes:
 - i. **“Geographic Information System and its Application in Utility Management”** was delivered for In-Service Course for P.G.T. (Geography) at Institute of Advanced Studies in Education (IASE), Department of Teacher Training, Jamia Millia Islamia (Central University), New Delhi, 20 June 2005.
 - ii. **“Spatial Data Modeling and Mapping in GIS”**, was delivered for In-Service Course for P.G.T. (Geography) at Institute of Advanced Studies in Education (IASE), Department of Teacher Training, Jamia Millia Islamia (Central University), New Delhi, 16 June 2005.
 - iii. **“Geographic Information System: Historical Background and Development ”**was delivered for In-Service Course for P.G.T. (Geography) at Institute of Advanced Studies in Education (IASE), Department of Teacher Training, Jamia Millia Islamia (Central University), New Delhi, 9 June 2005.
 - iv. **“Spatial Data Integration and Analysis in GIS”** was delivered for In-Service Course for P.G.T. (Geography) at Kendriya Vidyalaya, Vigyan Vihar, Delhi, 13 May 2005.
 - v. **“Computer Cartographic Techniques and Methodologies for Spatial Database Management and Thematic Presentation”**, was delivered at Institute of Advanced Studies in Education (IASE), Department of Teacher Training, Jamia Millia Islamia (Central University), New Delhi, 18-19 June 2002.
 - vi. **“On-Screen Interactive Digitization in AutoCAD Environment”**, was delivered at Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia (Central University), New Delhi, 14 June 2002.
 - vii. **“Digital Geographic Information and Spatial Data Model Management Systems”**, was delivered at Institute of Advanced Studies in Education (IASE), Department of Teacher Training, Jamia Millia Islamia (Central University), New Delhi, 4 June 2002.
 - viii. **“GIS Feasibility in Sustainable Environmental Development for Delhi Ridge”**, was delivered at Senior Secondary School, INA Colony, organized by the Kendriya Vidyalaya Sangthan, New Delhi,

on 2 June 2002.

D. Lectures and Talks delivered by Faculty Members:

- i. “*Spatial Data Modeling in GIS: A Blend of Digital Tool to Study the Historical and Cultural Heritage Sites in Delhi*”, Geospatial Digital Learning India – 2007, organized by Department of Geography, Kirori Mal College, University of Delhi, Delhi during 17-18 January 2007.
- ii. “*Urban Sprawl Impact Analysis using GIS and Entropy Model: A Study of NOIDA City: INDIA*”, presentation was delivered for the award of PG Diploma in Geoinformatics at the IIRS Campus, Dehradun, Uttranchal, April 2008.
- iii. “*Spatial Operations – Buffer and Overlay Analyses*” two demonstrations were given for the training program for M.A./M.Sc. students of the Govt. Amar Singh College, Srinagar, Jammu and Kashmir at the Department of Geography, F/o Natural Sciences, Jamia Millia Islamia (Central University), New Delhi during 6th - 7th March 2010.
- iv. “*SEZ’ vs Urban Sprawl process in NCR Region, Delhi*”, two lectures were delivered in the Annual Day function at the Department of Geography, Shaheed Bhagat Singh College, University of Delhi, Saket, New Delhi on 15th March 2011.

20. Academic and Professional Societies/Organisations Memberships:

A. Membership of Academic Bodies:

- a. Faculty Committee Member of the Faculty of Natural Sciences, Jamia Millia Islamia (Central University), New Delhi, since 2008 till to present.
- b. Post-Graduate Board of Studies (BOS) member for the M.Sc. Applied Geology & PG Diploma in Remote Sensing & GIS Courses of the Department of Geology & Geophysics, University of Kashmir, Srinagar, Jammu & Kashmir since 2009 till to present.
- c. Editorial Manager online submission and peer review tracking system for Journal of the Indian Society of Remote Sensing (JISRS) since 2010.

B. Life membership of the

- i. *Journal of the Indian Society of Remote Sensing*, Indian Institute of Remote Sensing (IIRS) Campus, Dehradun, Uttranchal.
- ii. *Annals of the National Association of Geographers, India*, Department of Geography, Delhi School of Economics, University of Delhi, Delhi.
- iii. *Association of Population Geographers of India*, Department of Geography, Punjab University, Chandigarh.
- iv. *Association of Punjab Geographers, India*, Department of Geography, Patiala University, Patiala, Punjab.

C. Associate membership of the

- i. *Boovigyan Vikas Foundation* (Foundation for Earth Sciences Development), New Delhi.

21. Alumni of International Institutes and Universities:

- i. *International Institute for Geo-information Science and Earth Observation (ITC)*, Enschede, Netherlands.
- ii. *Indian Institute of Remote Sensing (IIRS)*, Department of Space (Govt. of India), Dehra Dun,

Uttranchal.

- iii. **Jawaharlal Nehru University (JNU)**, Centre for the Study of Regional Development, School of Social Sciences, New Delhi.
- iv. **Delhi University (DU)**, Department of Geography, Saheed Bhagat Singh College, New Delhi.

22. Special Responsibilities, Significant Academic Contributions and Achievements:

i. Computer Lab Expansion

DSA Coordinator, UGC, at the Jawaharlal Nehru University, New Delhi appointed me as a special invitee member of the purchase committee for the establishment and expansion of the Computer-Aided Cartographic and Remote Sensing Laboratory at the Centre for the Study of Regional Development (CSR D), SSS, JNU, ND, during 1998-99.

ii. Thematic Mapping Through Computer Cartography:

Using the PC ARC/INFO (Ver. 3.4.2.D), M11DRAW, dBASE IV, QuarttoPro and SPSS PC+ software packages, a series of maps were generated for the book entitled: **Social Geography**, 1999, by A. Ahmad, published by Rawat Publications, Jaipur (INDIA).

iii. Computer Lab Incharge:

GIS & Computer-Aided Cartographic Laboratory, Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia (Central University), New Delhi, during the academic year 2001-2002.

iv. Socio-economic Primary Field Survey:

A Socio-economic Primary Field Survey was supervised of the M.A. (Pre.) students of the Department of Geography, Jamia Millia Islamia (Central University), New Delhi. The field survey covered 33 per cent or nearly 500 households from all the four selected villages the Rojka Meo, Raiska, Agon and Raipur from the Mewat Region of the Gurgaon District, Haryana State, which was conducted during 26th to 28th October, 2001.

A Socio-economic Primary Field Survey was supervised of the M.A./MSc. II Sem. Students of the Department of Geography, Jamia Millia Islamia (Central University), New Delhi. The field survey was conducted in the Mewat Region of the Gurgaon District, Haryana State, which was conducted during 2nd to 5th February, 2011.

**v. Advisor, Jamia Geography Association:
2002-03**

During this academic year a number of academic and co-curricular activities were organized for the student at the Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia (Central University), New Delhi.

2008-09

During this academic year student's related co-curricular, extension and field based academic activities were conducted. The Jamia Geography Association, Geography Newsletter for the months of February and March 2009 was brought out and recorded all the academic events and programs conducted for the students at the Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia (Central University), New Delhi.

vi. Academic Contributions

Assistant Superintend, Bachelor of Engineering (B.E.) Entrance Test 2010-11, held on 29th May 2010 at the Patna City for Bihar State at the Centre No. 56, Kendrya Vidayala No. 2, Baily Road, Patna, Bihar, was conducted from 27th to 29th May 2010.

vii. GIS & RS Labs Incharge:

GIS & RS Labs Incharge, Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia (Central University), New Delhi, during the academic year 2010-2011.

- viii. **Education Counseling:**
- a. Counseling for Foundation Course in Science and Technology (FST) since 2002 till to present for the Indira Gandhi National Open University (IGNOU), at the Jamia Millia Islamia Study Centre, on weekend days at the Department of History, Faculty of Humanities and Languages, Jamia Millia Islamia (Central University), New Delhi.
 - b. Counseling and teaching Geography subject at the Centre for Coaching and Career Planning, Jamia Millia Islamia (Central University), New Delhi since November 2009.
- ix. **Tabulation of Undergraduate Results:**
The Controller of Examination of the JMI Central University assigned the responsibility of the Tabulation and Compilation of Undergraduate Results for the Faculty of Natural Sciences, at the Office of Controller of Examination, Jamia Millia Islamia (Central University), New Delhi, 24th June - 15th July, 2002.
- x. **Academic Visits to the Universities by the Faculty Member:**
- a. PG Diploma in RS & GIS 2008-09 viva-voce examination was conducted at the *Department of Geology, Kashmir University* (KU), Srinagar, Jammu & Kashmir during 7-8 September 2009.
 - b. PG Diploma in RS & GIS 2009-10, external examiner, *Geography Department, Maharshi Dayanand University* (MDU), Rohtak, Haryana.
 - c. M.Tech in Geoinformatics 2009-10, external examiner, *Geography Department, Guru Jambheshwar University of Science & Technology* (GJUST), Hissar, Haryana.
 - d. M.Sc. in Environmental Studies 2010-11, external examiner, viva-voce examination was conducted at the *School of Environmental Studies, University of Delhi*, Delhi.
- xi. **Designing of New Course and Curricula:**
- a. “**Land Evaluation**” a new course was designed for the semester system curricula for the Post Graduate Diploma in Remote Sensing and GIS Applications, D/o Geography, F/o Natural Sciences, JMI, N.D.
23. **Academic Foreign Travels/Countries Visited:**
- 2010** *The Australia, Sydney* was visited during 11-16 April 2010. During the visit I had participated and presented a research paper in the *XXIV FIG International Congress 2010*, Sydney, the **AUSTRALIA**.
- 2004** *The Turkey, Istanbul* was visited during 12-23 July 2004. During the visit I had participated and presented a research paper in the *XXth ISPRS Congress 2004*, Istanbul, the **TURKEY**.
- 2003** *The France, Paris* was visited during 13-17 April 2003. During the visit I had participated and presented a research paper in the *FIG Working Week 2003 and 125th Anniversary of FIG Congress*, Paris, the **FRANCE**.
- 2002** *The United States of America (USA), Washington, D.C.* was visited during 19-26 April 2002. During the visit I had participated and presented a research paper in the *XXII FIG 2002 International Congress*, Washington, DC, the **UNITED STATES OF AMERICA**.
- 2000** *The Royal Netherlands (Holland), Amsterdam* was visited during 16-23 July 2000. During the visit I had participated and presented a research paper in the *XIXth ISPRS Congress Amsterdam 2000*, Amsterdam, the **NETHERLANDS**.

Date: 8th August 2011
Place: New Delhi.

Dr. Madan Mohan