


BIODATA

Name: - Dr. Hemant Pathak	
Date of Birth: - 09 May 1981	
Designation:- Assistant Professor	
Date of joining:- 01 Dec. 2006	
Total Experience of Teaching and Research:- 14 year	
Contact No.:- 9770385716	
Email ID:- hemantp1981@yahoo.co.in	
Address:- Chemistry department, Govt. Indira Gandhi Engineering college, Baheria, Sagar, Madhya Pradesh, India, pin code:-470004	

Qualifications:-

Name of course	Institute/University	Year of Passing	Remark
B.Sc.	Jiwaji university Gwalior	2001	Merit Scholarship
M.Sc.(Physical Chemistry)	Jiwaji university Gwalior	2003	Gold Medalist
Ph D	Dr. H. S. Gour Central University Sagar	2012	
Research Interests	Aqua Science, Ecosystem, Environment and Analytical Toxicology		

Sponsored/Research/Consultancy Projects undertaken so far:-

S.No.	Title of The Project	Name of the Sponsoring Agency	Total Cost of the Project	Year of completion
1.	Study of Drinking Water quality Parameters of Sagar city with Reference to Health Impacts	External funding by MPCONT Bhopal	Rs. 70000/-	2017

List of Projects Supervised for BE First year (Environmental Science) students

1. Lakha banzara pond pollution: Sources of pollutant, Management plan
2. Drinking Water quality assessment of Makronia area, Sagar city and Health Impacts.
3. Sources of Air Pollution in Sagar city.
4. Green Journalism/ Responsibility and efforts of newspapers and magazines to expand awareness about environments.
5. Environmental legislation and awareness among common people of Sagar city.
6. Fertilizers and Pesticides uses and effect on environment of Sagar city.
7. Waste disposal policy of Sagar Municipal Corporation.
8. e-Waste
9. Power line pollution (In Context of Sagar city)
10. Municipal sewage system of Sagar Municipal Corporation.
11. Environmental impact assessment of Industries worked in Sagar city.
12. Mobile tower pollution (In Context of Sagar city)
13. Sound pollution (In Context of Sagar city)
14. Soil pollution (In Context of Sagar city)
15. Biomedical Waste (In Context of Sagar city)
16. Effect of water pollutants on Human health
17. Global Warming and human responsibility
18. Climate change and human responsibility
19. Water scarcity In Context of Bundelkhand region
20. Acid rain

List of Publications:

I. Research papers published in International/National Journals

* In below mentioned published research paper Dr. Hemant Pathak has in capacity of Principal Author (Corresponding Author)

1. Pollumeter: A Water Quality Index model for the assessment of water quality in Sagar city, M.P., India. The *Green Pages: Directory for Environmental Technology*, 2011. <http://www.eco-web.com/edi/110128.html>
2. Study of seasonal variation in ground Water quality Chemical parameters of Sagar city (M.P.) by principal component analysis and evaluation, vol. 8(4), E-Journal of chemistry, 2011, ISSN: 0973-4945, www.ejchem.net/PDF/V8N4/2000-2009.pdf
3. Interdependency between physicochemical water pollution indicators: a case study of river Babus, Sagar, M.P., India. *Analele Universităţii din Oradea – Seria Geografie*, Year XXI, no. 1/2011 (June), ISSN 1454-2749, E-ISSN 2065-1619, http://istgeorelint.uoradea.ro/Reviste/Anale_Art/...1/02_AUOG_515_Hemant.pdf
4. A mathematical modeling with respect to DO for environmentally contaminated drinking water sources of Sagar city (M.P.), India: A case study, *Ovidius University Annals of Chemistry*, Vol. 22(2), 2011. ISSN-1223-7221, www.univ-ovidius.ro/anale-chimie/chemistry/2011-2/2_pathak.pdf
5. Seasonal study with interpretation of the chemical characteristics of water pond in reference to quality assessment: A case study, *Analele Universităţii din Oradea – Seria Geografie*, vol. 2/2011 (Dec.), ISSN 1454-2749, E-ISSN 2065-1619.
6. Assessment of Physico-Chemical Quality of Groundwater in rural area nearby Sagar city, MP, India, *Advances in Applied Science Research (Pelagia Research Library)*, 2012, vol. 3 (1), pp. 555-562, ISSN: 0976-8610
7. Studies on the physico-chemical status of two water bodies at Sagar city under anthropogenic Influences, *Advances in Applied Science Research (Pelagia Research Library)*, 2012, vol. 3 (1), pp. 31-44, ISSN: 0976-8610

8. Multivariate evaluation of fluoride contamination in ground water samples of Sagar city, M.P., India: A case study, Instasci Journal of Chemistry, 2012, 2(1), ISSN: 2277-6931
9. Ground and Tap water Quality assessment of Sagar city especially in terms of saturation index, The Polytechnic Institute of IAȘI, 2012, vol. 2, Fasc. 4. ISSN: 0254 – 7104
10. An water quality index mathematical modeling of water samples of Rajghat, water supply reservoir Sagar (M.P.) with respect to total dissolved solids: A regression analysis, The Polytechnic Institute of IAȘI, 2012, Vol. 1, 2012, ISSN: 0254 – 7104
11. Assessment of Physico-Chemical Quality of municipal water samples of Makronia sub-urban area of Bundel khand region, India, Analele UniversităŃii din Oradea – Seria Geografie, vol. 1/2012 (May), ISSN 1454-2749, E-ISSN 2065-1619.
12. Assessment of Physico-Chemical Quality of Groundwater by Multivariate Analysis in some Populated Villages nearby Sagar City, MP, India, Journal of Environment and Analytical Toxicology, 2012, vol. 2(5), ISSN:2161-0525, <http://dx.doi.org/10.4172/2161-0525.1000144>
13. Eutrophication: Impact of Excess Nutrient Status in Lake Water Ecosystem, Journal of Environment and Analytical Toxicology, 2012, vol. 2(6). ISSN: 2161-0525, <http://dx.doi.org/10.4172/2161-0525.1000148>
14. Indicators of the deteriorate water quality status of reservoir, Sagar city, MP, India by multivariate analysis, Ovidius University Annals of Chemistry, Vol. 23(2), 2012. ISSN-1223-7221.
15. Evaluation of ground water quality using multiple linear regression and mathematical equation modeling, Analele UniversităŃii din Oradea – Seria Geografie, vol. 2/2012, ISSN 1454-2749, E-ISSN 2065-1619.
16. Water quality Studies of two Rivers at bundelkhand region, MP, India: A case study, U.P.B. Sci. Bull., Series B, Vol. 75, Iss. 2, 2013, ISSN 1454-2331

17. An environ-economical mathematical modeling of water pollution impact assessment in reference to Indian scenario, *Analele Universităţii din Oradea – Seria Geografie*, vol. 1/2013 (June), ISSN 1454-2749, E-ISSN 2065-1619.
18. Effect of water borne diseases on Indian economy: A Cost- Benefit analysis, *Analele Universităţii din Oradea – Seria Geografie*, vol. 1/2015 (June) pp. 74-78, ISSN 1454-2749, E-ISSN 2065-1619.
19. Assessment of Eutrophic Status of water resources of Madhya Pradesh, India: A review, *International Journal of Innovative research & Growth*, vol. 1(1), Nov - 2015, pp. 1-5, ISSN: 2455-1848.
20. A review on air quality status of Madhya Pradesh, *International Journal of Innovative research & Growth*, vol. 1(2), 2015, pp. 5-7, ISSN: 2455-1848.
21. Effect of water quality parameter on fish culture in Lake with reference to statistical approach, *The Polytechnic Institute of IAŞI*, vol. (2), 2015, pp. 15-20, ISSN: 0254 – 7104.
22. E-waste disposal In India: A critical Overview, *International Journal of Scientific Research & Growth*, vol. 1(2), June 2016, pp. 68-71, ISSN 2456-1363.
23. Socio-economical, Environmental evaluation of Ken-Betwa River link project, India, *Present Environment and Sustainable Development*, vol. 10(2), Oct. 2016, ISSN 1843-5971.
24. Effects of Mobile Tower Radiations and Health impacts: A case study *International Journal of Scientific Research & Growth*, vol. 1(3), Sep. 2016, pp.35-42, ISSN 2456-1363.
25. Rivers Conservation Challenges and Opportunities: a case study of BundelKhand, Madhya Pradesh, India, *Present Environment and Sustainable Development (Accepted)*, vol. 11(1), May 2017, ISSN 1843-5971.

II. Research papers presented in Conference/Seminar/Workshop

International Conferences

1. Evaluation of Drinking Water Quality and Its Impact on Human Health in Sagar city of Madhya Pradesh, India, International Conference on Global Innovation in Science, Agriculture Engineering & Technology, 27th - 28th February 2017, organized by SVNU, Sagar, sponsored by DST, New Delhi and MPCST, Bhopal (M.P.).
2. Application of Monte Carlo simulation method to evaluate Uncertainties in water quality models, International Conference on Challenges in Environmental Science & Technology, 27th - 28th February 2016, organized by SVNU, Sagar, sponsored by DST, New Delhi and MPCST, Bhopal (M.P.).
3. Evaluation of Pond Effluent Quality and Pollutant Loading Estimation using Simpson's equation modeling, International Conference on Innovative trends in Engineering and Basic Sciences, 24th -25th February 2015, Organised by, NITM, Gwalior, sponsored by MPCST, Bhopal.
4. Physico-chemical Study of fresh Water Reservoir Tighra, Gwalior (M.P.), International Conference on Recent Trends in Science & Technology, 27th - 28th February 2015, organized by SVNU, Sagar, sponsored by MPCST, Bhopal (M.P.).
5. A mathematical modeling for environmentally polluted water soluble impurities: A case study (Proceedings of the 45th Annual convention of chemists and international conference on recent advances in chemistry, Organised by, Indian chemical society Hosted by, Karnataka university, Dharwad November 23-27, 2008)

National Conferences

1. Empowering the youths for National development through vocational education in Madhya Pradesh, India, 19-20 March 2017, National conference on Restructuring Higher education & Technical education, Organized by EMMAS & International Journal of Engineering Management & Medical Research, IMEC, Sagar.
2. Needs of Restructuring Higher education in context of India: A review, 18-19 December 2015, National conference on Restructuring Higher education & Technical education, Organized by EMMAS & International Journal of Engineering Management & Medical Research.
3. Hydrological modeling of waste water discharges in Sagar Lake, September 2012, National conference on Recent Advances in Chemical Sciences; Emphasis on Healthy Life, Organized by ITM, Gwalior, Sponsored by, M.P. Council science and technology, Bhopal
4. Contaminant evaluation of boreholes water (drinking water sources) in Gambhiria village, Sagar (MP), April 2012, National symposium on Advances in Environmental chemistry and green technologies, Organised by RJIT Tekanpur, Gwalior, Sponsored by, M.P. Council science and technology, Bhopal
5. Assessment of Physico-Chemical Quality of municipal water samples of Sagar city, MP, India, 2012, (National Seminar on Soil, Air and Water Resource Management, Organised by, Govt. Auto. Girls P.G. College, Sagar, Sponsored by, U.G.C., New Delhi)
6. Participated in 26th conferences of Indian Council of Chemists held at Dr. H. S. Gour University, Sagar on 26th-28th February, 2008.

Seminars

1. Physico-chemical Analysis of Ground Water Samples of Sagar city with respect to water soluble pollutants (National Seminar of Environment protection & waste management, 2009, Organised by, Govt. P.G. College, Bina, Sponsored by, U.G.C., New Delhi)
2. Statistical Study on Physico-Chemical Parameters and Water Quality assessment of Lakha banzara pond, Sagar (M.P.) (National Seminar of Environment Safety and solid waste management, 2010, Organised by, Govt. Arts and Commerce College, Sagar, Sponsored by, U.G.C., New Delhi)
3. Evaluation of Water Quality: Physico – Chemical Characteristics of Rajakhedi Village at Sagar city (MP) by using Correlation Study, National Seminar on Recent trends in Environmental sciences, 5th june 2012, Organised by, NRI college of engineering and management, Gwalior (MP).
4. Interpretation of Ground Water Quality Data Variation in Sanodha Village at Sagar city (MP) by using PCA Study, (National Seminar on Recent trends in Environmental sciences, 5th june 2012, Organised by, NRI college of engineering and management, Gwalior (MP).
5. Evaluation of Water Quality: Physico – Chemical Characteristics of Ground Water of Banda village, Sagar city by using Correlation Study, National Seminar on Recent trends in Environmental Engineering, 9 April 2013, Organised by, NRI college of engineering and management, Gwalior (MP).
6. Statistical Study on Physicochemical Characteristics of Rajghat reservoir water in Sagar city, National Seminar on Recent trends in Environmental Engineering, 9 April 2013, Organised by, NRI College of engineering and management, Gwalior (MP).

7. Aquatic pollution in Sagar Lake, National Seminar on chemistry and applied sciences for sustainable development, Feb. 15- 16, 2014, Organised by, Govt. S. L. P. P. G. College, Gwalior, Sponsored by, U.G.C. CRO- Bhopal.
8. Role of Technical education in Poverty alleviation in context of India: A review, National Seminar on Role of Technical Education in Reduction of Poverty and Inequality, 16-09-2016, Organised by, S.R. Government polytechnic College, Sagar (M.P.), Sponsored by Directorate of Technical Education – M.P., Bhopal

Workshops

9. Participated in district level workshop on soldering technique,2003, organized by Govt. S. M. S. Model science college, Gwalior (M.P.)
10. Participated in workshop on Madhya Pradesh state action plan on climate change, organized by M.P. Govt., EPCO, UNDP, CEE at Sagar dated on February 22, 2011.
11. Participated in workshop on MPCOST sponsored, Rural development through application of technology, at S. V. Govt. Polytechnic Sagar dated on February 17-18, 2012.
12. Participated in divisional workshop on Disaster management organized by disaster management institute, Bhopal (MP) at Sagar dated on 23 July 2012
13. Participated in first workshop on Utilizing virtual lab organized by MP directorate of technical education Bhopal (MP) at Bhopal dated on 08 February 2014.
14. Participated in second workshop on Utilizing virtual lab organized by MP directorate of technical education Bhopal (MP) at Ujjain dated on 12 March 2014.
15. Participated in Intellectual Property Rights Workshop, 25th April 2015, Organised by IGEC, Sagar, sponsored by MPCST, Bhopal.

III. Published Books/Book Chapters in Edited books:-

1. Multivariate Statistics: An approach for water quality assessment, Lambert Academic Publication, Germany, ISBN: 978-3-8454-2367-8
2. A Guide for environmental impact assessment, Lambert Academic Publication, Germany, ISBN: 978-3-8473-2336-5
3. Water Pollution, IPCS , ISBN-13: 978-1481254366, ISBN-10: 1481254367
4. Hand book of water quality assessment in reference to Environmental significance, IPCS, ISBN-13: 9781481843195, ISBN-10: 1481843192
5. Assessment of Water Quality by Principal Component Analysis, Kindle publication, IPCS, ISBN-13: 9781481868839, ISBN-10: 1481868837
6. Water quality and GIS, IPCS, ISBN: 1482380331, ISBN-13: 978-1482380330
7. Eutrophication: The Death of a Water body, IPCS, ISBN-13: 978-1484171424, ISBN-10: 148417142X
8. Environmental Economics, IPCS, ISBN-13: 978-1484171462, ISBN-10: 1484171462
9. Kedar Nath tragedy: A shriek of abrupt Himalayan Environment, IPCS, ISBN-13: 978-1484171462, ISBN-10: 1484171462
10. A Hand book of Environmental protection act, IPCS, ISBN-13: 978-1490512679, ISBN-10: 1490512675
11. Industrial pollution, IPCS, ISBN-13: 978-1492361169, ISBN-10: 149236116X
12. Air pollution, IPCS, ISBN-13: 978-1492390718, ISBN-10: 1492390712
13. Soil pollution, IPCS, ISBN-13: 978-1492762362, ISBN-10: 1492762369
14. Energy Audits, IPCS, ISBN-13: 978-1492920359, ISBN-10: 1492920355
15. A Hand Book of Energy conservation and Management, IPCS, ISBN-13: 978-1492920397, ISBN-10: 1492920398

16. Energy Sustainability: Planning, Policy, IPCS, ISBN-13: 978-1492920434, ISBN-10: 1492920436
17. Renewable Energy Resources, IPCS, ISBN-13: 978-1492920441, ISBN-10: 1492920444
18. Light pollution, IPCS, ISBN-13: 978-1492896302, ISBN-10: 1492896306
19. Jammu and Kashmir flood crisis: A grim reminder of increasing climate change, IPCS, ISBN: 1502530791, ISBN-13: 978-1502530790
20. 7.8 magnitude Earthquake in Nepal: Walking of Disaster on Himalaya, IPCS, ISBN-13: 978-1512123234, ISBN-10: 1512123234
21. Climate change, IPCS, ISBN-13: 978-1503363380, ISBN: 1503363384
22. Environmental Audit, IPCS, ISBN-13: 978-1503363588, ISBN: 1503363589
23. Interlinking of Rivers in India: A Socio-economic Environmental evaluation, IPCS, ISBN-13: 978-1530033478
24. Photochemical Smog, IPCS, ISBN-13: 978-1541065680

Academic/Administrative Responsibilities held at Institute / State level
(From 01.12.2006 to April 2017)

1. Professor Incharge of Scholarship section- Postmetric (sc/st/obc), Vikramadiya, Awas Sahayta yojna (SC/ST), Minorities etc.
2. Deputy coordinator of RGPV nodal center.
3. Professor Incharge of Registration/ Coordination in Tech-Fest 2017.
4. Member of House allotment committee.
5. Professor Incharge of student section.
6. Professor Incharge NIRF work.
7. Professor Incharge library.
8. Professor Incharge store
9. Assistant Superintendent examination
10. Representation officer, principal member of different departmental enquiry committee.
11. Observer of PEB, RGTU examination.

Awards/Recognitions (if any)

1. Best student-2003 (Govt. S. M. S. model science college, Gwalior (M.P.))
2. Merit Scholarship given by M.P. Govt. (Up to graduate level)
3. Winner of 50 (approximate) awards in indoor & outdoor games.
4. Participated & winner in various cultural activity.
5. Certificate in Computer Application -2004 with 69% (First Division)
6. Jal Star award- 2011, Nominated by Dainik Bhaskar national news paper.
7. NCC A certificate.

Expert lecture delivered

1. Participated as Resource person/Invitee and presented a lecture entitled Industrial pollution, Environmental Impact Assessment & Legislation in the National seminar on Innovation and Developments in Mechanical, Civil and Agricultural Engineering, organized by SVNU, Sagar held in 4th May 2017.
2. Participated as Resource person/Invitee and presented a lecture entitled Electronic Waste in the National seminar on Global Innovative Engineering Techniques for Sustainable Development, organized by SVNU, Sagar held in 2nd May 2017.
3. Participated as Resource person/Invitee and presented a lecture entitled **Engineering Ethics** in the National Conference on New Challenges in Structural, Manufacturing Engineering and Quality Management, organized by SVNU, Sagar held in 27th April 2016.
4. Faculty development program organized by MPCON, Bhopal (Feb. 2013)

Guide

Empanelled as Guide/Faculty for post graduate diploma in Environmental Management (PGDEM) course of EPCO Institute of Environment Studies, Bhopal.

Member of International Journals Boards/ Societies

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| 1. | IAENG Society of Chemical Engineering | Member |
| 2. | International Society for Environmental
Information Sciences | Member |
| 3. | World Research Journal of Chemistry | Advisory Board
Membership |
| 4. | International Journal of Industrial Engineering and
Technology (IJIET) | Editorial Board
Membership |
| 5. | Chemistry Journal | Editorial Board
Membership |
| 6. | Indian Journal of Chemistry and Chemical
Engineering (IJCCE) | Editorial Board
Membership |
| 7. | Green Earth Research Network (GERN),
http://www.gejournal.net/ | Editorial Board
Membership |
| 8. | International Journal of Innovation in Engineering
research and Management | Editorial Board
Membership |
| 9. | Accent Journal of Economics Ecology &
Engineering | Editorial Board
Membership |
| 10. | International Journal of Multidisciplinary
Innovative Studies | Editorial Board
Membership |
| 11. | Journal of Environmental Chemistry and
Ecotoxicology | Reviewer |
| 12. | Journal of Scientific Research and Reports | Reviewer |

Advisory Board Membership

1. [World Research Journal of Chemistry](http://bioinfopublication.org/journal.php?opt=azjou&jouid=BPJ0000295&detail=editorial)
<http://bioinfopublication.org/journal.php?opt=azjou&jouid=BPJ0000295&detail=editorial>

Executive Editor

1. International Journal of Scientific Research & Growth,
<http://www.ijsrg.com/ijsrg/editorial-board/>

Academic Expert

Academic Exchange Information Centre (AEIC), <http://en.keoaeic.org>.

Member ID : AEICCN0985E

Reviewer board(s) Membership

- Reviewer board Member of World Congress on Engineering 2013.
- The International Conference of Applied and Engineering Mathematics (ICAEM)
- Reviewer board Member of Hydrology, <http://www.sciencepublishinggroup.com/j/hyd>
- Bulletin of the World Health Organization
- Journal of Environmental Chemistry and Ecotoxicology (JECE), www.academicjournals.org/JECE
- Global advanced research journal of environmental science and toxicology, [www.http://garj.org/garjest/index.htm](http://www.garj.org/garjest/index.htm)
- <http://www.iceesd.net>
- Scientific Research and Essays, ISSN 1992-2248
- International Research Journal of Pure and Applied Chemistry
- Journal of Scientific Research and Reports
- Environment Protection Engineering
- Journal of Global Ecology and Environment (ISSN: 2454-2644)
- Journal of Applied Life Sciences International (ISSN: 2394-1103)
- Asian Journal of Mathematics and Computer Research [ISSN: 2395-4205 (Print), 2395-4213
- British Microbiology Research Journal, ISSN: [2231-0886](http://www.bmrj.com)

Also reviewed articles of more than 40 International Journals.

Sl. No.	Name of Training	Organization where training was received	Year	Duration
1.	Technical teacher's training Programme	MPCT, Gwalior (M.P.).	2006	01 week
2.	Induction and Pedagogy	CRISP Bhopal	2008	02 week
3.	Total quality management in technical education	IGTR Indore	2011	01 week
4.	Faculty development programme in entrepreneurship	MPCON Ltd., Bhopal (M.P.), Sponsored by, D.S.T., New Delhi	2012	02 week (19.3.12-31.03.12)
5.	Faculty development programme (Academic Research: A tool to improve the quality of research)	Organized by, Adina institute of pharmaceutical sciences, Sagar (MP), Sponsored by, AICTE New Delhi	2013	02 week (17 th to 30 th June)
6.	Faculty development programme in entrepreneurship	MPCON Ltd., Bhopal (M.P.), Sponsored by, NSTEDB, D.S.T., New Delhi	2014	02 week (06 th to 18 th Feb.)
7.	Faculty development programme in entrepreneurship	Organized by, CRISP Bhopal (M.P.), Sponsored by, NSTEDB, D.S.T., New Delhi	2016	02 week (28 th June to 9 th July)