**CURRICULUM VITAE**

**Dr. SAUBHAGYA RANJAN MAHAPATRA**

**Home : AT/PO-Kendupalli, Dist-Cuttack , Odisha – 754009**

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**E-mail :** [**geomahapatra@gmail.com**](mailto:geomahapatra@gmail.com)

**DOB : 03/06/1990**

**Sex : Male**

**Languages : Odia, English & Hindi**

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| CAREER SUMMARY |

* **ASSISTANT PROFESSOR AND HOD (MARCH 2020 ONWARDS)** DEPARTMENT OF PETROLEUM ENGINEERING CHANDIGARH UNIVERSITY, PUNJAB
  + **Assistant Professor** (July 2017 - February 2020) Department of Petroleum Engineering Chandigarh University, Punjab
  + Taught several subjects like: Introduction to Petroleum Eng., Coal bed methane and Gas hydrate, Petroleum Field Instrumentation & Control, Geoscience for Petroleum Engineer, Sedimentary Petroleum Geology, Remote Sensing and GIS, Oil and Gas Asset Management.
  + Got several licenses like *“kappa engineering software”, “rock flow dynamics software- t navigator” , “petex” and “IGI”* for free of cost to the Institute for students project work and Staff Development.
  + Placement and Industrial Relationship Coordinator. (Established contact between Industries and university students for internship program).
  + NAAC and NBA Coordinator (Technical documentation)
* **RESEARCH AND TEACHING ASSISTANT (MAY 2014 - JUNE 2017) UNIVERSITY OF MADRAS, CHENNAI**
* Conducted research on Hydrology, Environmental Geology, Remote Sensing and GIS which later on converted to my PhD dissertation:
  + “G*eochemical evaluation of north Chennai city lakes: impact of rapid urbanization*”
* Supervised several Master’s and Bachelor’s thesis and project works.
* Taught several subjects; Oceanography, Economic Geology, Geomorphology and Geochemistry.
* **RESEARCH STUDENT (AUG 2012 - AUG 2013) UNIVERSITY OF MADRAS, CHENNAI**
* Conducted research on Micropaleontology which later on converted to my M.Phil. dissertation:
* “*Near shore benthic foraminifera from Nizampatnam Bay”*

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| ACADEMIC QUALIFICATION |

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| Course | Discipline/ Specialization | School/College | Board/ University | Year of Passing | Percentage |
| Ph.D | Applied Geology | University of Madras, Chennai | University of Madras, Chennai | Thesis  Awarded  (January 2018) |  |
| CSIR-UGC-NET | EARTH SCIENCES | CSIR-UGC-NET | CSIR-UGC-NET | June, 2017 | 56.7%, Rank-33 |
| M.Phil | Applied Geology | University of Madras, Chennai | University of Madras, Chennai | 2013 | 80.1% |
| M.Sc. | Geology | Ravenshaw University, Cuttack | Ravenshaw University, Odisha | 2012 | 71.4% |
| B.Sc. | Geology | Banki Autonomous College, Banki | Utkal University, Odisha | 2010 | 75% (HONS)  63.4% (TOTAL) |
| 10+2 (Science) | PCBM | K.D.A. College, Kalapathar | C.H.S.E Odisha | 2007 | 44.7% |
| H.S.E. | All Subjects | K.D High School, Kalapathar | B.S.E. Odisha | 2005 | 44.4% |

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| FELLOWSHIP AWARDED |

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| Name of Fellowship | Duration | Organization |
| DST PURSE Phase II | 15/12/2014-30/06/2017 | University of Madras |

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| MEMBERSHIP OF PROFESSIONAL BODIES |

* Society of Petroleum Engineers
* Indian Society of Remote Sensing

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| PROFESSIONAL HONOURS |

* Award for Best Internship Record (All India) 2nd Position on the occasion of Internship Day held on 25th August 2021 from Internshala.
* Award for Best Leadership on Teachers Day 2021 at Chandigarh University

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| FACULTY DEVELOPMENT PROGRAMME |

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| Course Name | Duration | Organization |
| Natural Gas Engineering | Jul- Sep 2019 (8 weeks) | NPTEL - AICTE |
| Mining & Mineral Processing | Nov 23 -27, 2020 (1week) | AICTE Training And Learning |
| GIS & Remote Sensing | Jan 4-8, 2021 (I week) | AICTE Training And Learning |
| Vision Scenario and Future Pathways towards Sustainable Development | Oct 5 - 10, 2020 (1week) | Gaya College of Engineering, Gaya |
| Advanced Excel with Data Visualization | July 5 – 10, 2021 (1 week) | IIT Kanpur |
| Systematic Literature Rivew & Biblography analysis | July 12 – 13, 2021 | Chandigarh University |

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| PAPER PUBLISHED |

* **Mahapatra S. R. and** Nimmy P. M. (2021). Groundwater contamination with heavy metals in Chennai city, India – A threat to the human population. IOP Conf. Series: Earth and Environmental Science. 889: 1-16, ISSN:1755-1315. DOI: 10.1088/1755-1315/889/1/012037.
* Nirlipta P.Nayaka, AbhinavJaina, **Saubhagya Ranjan Mahapatra** (2022). Application of Mine Excellence software in flyrock prediction & mitigation. Materials Today: Proceedings. 48 (5): 1271-1276, ISSN: 2214-7853. DOI: 10.1016/j.matpr.2021.08.282
* Nimmy P. M., Rajeshwara Rao N., Neelavannan K., Hussain S. M. and **Mahapatra S. R.** (2021). The coupling of Orbulina universa diameter with the warming and cooling events in the Arabian Sea over the past 40,000 years. Current Science. 120 (4): 694-698. ISSN: 0011-3891. DOI: 10.18520/cs/v120/i4/694-698.
* Mohammed Ismail Iqbal, **Saubhagya Ranjan Mahapatra**, Ibrahim Alrajawy, Osama Issac, and Ali Ameen (2020). Sand consolidation by chemical treatment using indigenously developed chemicals. 57(8): 3748-3751. ISSN: 0033-3077.
* **Mahapatra, S. R**., Venugopal, T., Shanmugasundaram, A., Giridharan, L. and Jayaprakash, M. (2020). Heavy metal index and geographical information system (GIS) approach to study heavy metal contamination: a case study of north Chennai groundwater. *Applied Water Science.* 10(238):1-17. ISSN: 2190-5487. DOI 10.1007/s13201-020-01321-0
* **Mahapatra,** **S. R.,** Shanmugasundharam, A., Casey, K. E. and Jayaprakash, M. (2019). A Multidimensional Polluti3on Threatened to Odiyur Lagoon, South East Coast of Tamil Nadu, India. *International Journal of Current Advanced Research*. 08(03):17839-17846. ISSN: 2319-6505.
* **Mahapatra**, **S. R.,** Suresh, K., Giridharan, L., Kalaivanan, R. and Jayaprakash, M. (2016). Geochemical Characteristics and Chemometric Interpretation of Surface Water from South Chennai City Lakes, Tamil Nadu, India. *EnviroGeoChimica Acta.* **3** (1):108–123, ISSN 2348 -7259.
* Shanmugasundharam, A., Kalpana, G., **Mahapatra**, **S. R.,** Sudharson, E. R. and Jayaprakash, M. (2015). Assessment of Groundwater quality in Krishnagiri and Vellore Districts in Tamil Nadu, India. *Applied Water Science.* **7**(4):1869–1879, ISSN: 2190-5487. DOI 10.1007/s13201-015-0361-4.
* Shanmugasundharam, A., **Mahapatra**, **S. R.,** Kalpana, G. and Jayaprakash, M. (2015). High Fluoride concentration in the Groundwater of Uttangarai Taluk, Krishnagiri District, Tamil Nadu. *EnviroGeoChemica Acta.* 2(1): 1–9. ISSN 2348 -7259.
* Rajeshwara Rao, N., **Mahapatra**, **S. R.** and Jayaprakash, M. (2014). Benthic foraminifera: Indicators of Inner Shelf Environments - A case study from the Nizampatnam Bay, East coast of India. *EnviroGeoChimica Acta.* 1(5):318–329. ISSN 2348 -7259.
* Rajeshwara Rao, N. **Mahapatra**, **S. R.** Anbalagan S. and R. Pasupathi (2014). Near-shore Benthic foraminifera from the Nizampatnam Bay, East coast of India. *International Journal of Environmental Science,* 4(5):906–918, ISSN 0976-4402. DOI : 10.6088/ijes.2014040404529

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| BOOK CHAPTER PUBLISHED |

* **Mahapatra, S. R**., Shanmugasundaram, A., Tamilarasan K., and Jayaprakash, M. (2019): Assessment of Trace Elements in Groundwater and their Spatial Distributions around the Chennai City, East Coast of India, in: *Climate Change in Water Resources.* Eds. Anbazhagan, S., Jothibasu, A. and Balamurugan, G. 164-184. ISBN: 978-93-87997-82-0.

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| PAPER PRESENTATION |

* Presented a paper entitled **“Assessment of trace elements in Groundwater and their special distributions around the Chennai City, east coast of India”** in ‘International Conference on Impact of Climate Change on Water resource (ICWR’2018) held during 12-13, July 2018 at Periyar University.
* Presented a paper entitled **“Assessment of trace element accumulation in surface sediments off urban lacustrine environment after El Nino in Chennai city, Southeast coast of India”** in ‘National workshop on Advances in stratigraphy and geochronology in Indian Sedimentary basins and road ahead’ held during 27th Feb 2019 at University of Delhi.
* Presented a paper entitled “**A multidimensional pollution threatened to Odiyur Lagoon, Southeast coast of Tamil Nadu, India**” in the ‘*National Conference on* *‘Recent Developments in Engineering and Technology*’ NCRDT – 2018 held on 11th and 12th July 2018 at Chandigarh University.
* Presented a paper entitled “**Geochemical Characterization and Chemometric Interpretation from South Chennai City Lakes, Tamil Nadu**”. In the ‘*National Seminar Groundwater and Costal Aquifers* held during 9th and 10th March 2016 at University of Madras.
* Presented a paper entitled **“Geochemical distribution of Trace metal pollutants in water and sediment of Odiyur Lagoon Southeast coast of Tamil Nadu”.** In ‘*Recent Advances in Environmental Geology*’ during 21-22 March 2015.
* Presented a paper entitled **“Benthic Foraminifera an Indicator of Inner Shelf Environments – A case study of from Nizampatinam Bay, East Coast of India”**. In the *‘International Conference “Environmental Earth Science, Accomplishments, Planes and challenges’* during 19th -22nd March 2014.

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| TRAINING ATTENDED |

* Workshop on “**Outcome Based Education**” conducted by University Institute of Teachers Training and Research, Chandigarh University from 27th May 2021 to 28th may 2021.
* E-Training on “ Fundamental of Mapping Techniqes in Tertiary conducted through GSITI website, Hyderabad from 28.09.2021 to 28.10.2021.
* E-Training on “Application of GIS in Mineral Exploration and RMT” conducted by RTD, ER, GSITI, Kolkata from 27.09.2021 to 01.10.2021.
* Training Course on “Participatory Groundwater Management in the Himalayan Region” conducted from 2nd to 16th December 2014 organized by People’s Science Instute.
* Participated Tier II Training Course on “**Sustainable Development and Management of Ground Water Resources**” held at Puducherry from 13.10.2014 to 17.10.2014 organized by **CGWB**, South Eastern Costal Region.
* Workshop on “**Basic Geostatistical analysis for Experimental Datasets**” held on 25th and 26th March 2014 organized by the Department of Geology, University of Madras, Guindy Campus, Chennai.
* Three weeks training on “**Winter school for Capacity Building and training for Geospatial Technology**”, Sponsored by **NRDMS AND DST**, organized by the center for Remote Sensing and Geoinformatics, Sathyabama University, Chennai, from 22nd January – 11th February 2014.
* Attended **UGC** sponsored “**Short term course on Research Methodology, Techniques of writing research articles for SCI Journals and Ph.D. thesis preparation**” organized by Department of Geology, Anna University, Chennai-25 held on 6th-7th March 2013.
* Participated in the **Ministry of Earth Science** sponsored training program on “**Hydrogeochemical Modeling using PHREEQC and MODFLOW**” from 21st to 31st January 2013, at the Department of Earth Science, Annamalai University.

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| SEMINAR ATTENDED |

* One day Workshop on “**Ion Chromatography and it’s implication on Earth Sciences**” organized by the Dept. of Geology, University of Madras, on 13th August 2015.
* One day Workshop on “**Atomic Absorption Spectrometer and it’s implication on Earth Sciences**”. Organized by the Dept. of Geology, University of Madras, on 31st July 2015.
* Participated in National Conference entitled “**Climate Change Impact and Costal Area Management**” held during 27-28 February 2015organized by the Dept. of Geology, University of Madras.
* Actively participated in the one day workshop on “**Recent advances in the geology of Tamilnadu**” organized by Department of Geology, Presidency College, Chennai on 22.10. 2013.
* Attended one day workshop on “**Costal Climate Change**” organized by the Dept. of Geology, University of Madras, Chennai on 30th September 2013.
* Participated in the workshop in “**Chromatography Techniques**” conducted by the Dept. of Analytical Chemistry, University of Madras, Chennai on 25th February 2013.

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| WORKSHOP / SEMINAR ORGANISED |

* National Workshop on ‘Coal Bed Methane and Shale Gas Potential of India’ on 4th & 5th March, 2019 at Petroleum Engineering Department Chandigarh University.
* Workshop on ‘Deepwater Systems and Career Discussion’ on 27th & 28th March, 2019 at Petroleum Engineering Department, Chandigarh University.
* Workshop on ‘EOR Technology - Today Need To Enhance Oil Production’ on 15th & 16th October, 2019 at Petroleum Engineering Department, Chandigarh University.
* Seminar on ‘Multidisciplinary Technologies in Oil Industry’ on 12 Sep, 2020 at Petroleum Engineering Department, Chandigarh University.

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| PERSONAL QUALITIES |

* NCC 'B' and 'C' certificate
* **NSS** activity participated in the seven days special camping program on the theme “Empowering the Youth of the Nation”.

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| INSTRUMENT HANDLED |

* Atomic Absorption Spectroscopy (AAS)
* Ion Chromatography (IC)
* Gas Chromatography (GC)
* CHNS elemental analyzer
* X-ray fluorescence (XRF)
* UV-Spectrometer, Fluorimeter
* Flame photometer, pH meter, ORP meter, D.O. meter, Multi-parameter.
* Petrological microscope, Stereoscopic microscope
* Liquid porosity, Liquid permeability, Gas Permeability, Core Plugging

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| SOFTWARE SKILLS |

* GIS Softwares : ArcGIS, QGIS
* Image processing software : SAGA, ERDAS Imagine
* Geomodeling software : Surfer, Matlab, Triplot, PAST, Geochemical Workbench, PHREEQC, and MODFLOW
* Oil industry Software : Petex, KAPPA, tNavigator, IGI
* Statistical software : SPSS, Statistica
* Packages : MS-Office
* Digital imaging software : Photoshop,Corel draw

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| Declaration |

I hereby declare that the above mentioned information is true to the best of my knowledge and belief.

**Place**: Yours faithfully,

**Date**:

**(Dr. SAUBHAGYA RANJAN MAHAPATRA)**

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| References |

1. Dr. R. R. KRISHNAMURTHY (Professor & Head)

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1. Dr. Udayanath Sahoo, Senior manager, OCL India Limited,

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1. Dr. SHREERUP GOSWAMI, (Professor and Head)

Department of Earth Sciences, Sambalpur University, Odisha.

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1. Dr. D. K. Srivastava, (Professor)

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