

CURRICULUM VITAE



Dr. P. KARTHICK, M.Sc., Ph.D.

ASSISTANT PROFESSOR

PG AND RESEARCH DEPARTMENT OF GEOLOGY
NATIONAL COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI

E- mail: geokarthi00@gmail.com; karthickp@nct.ac.in

Contact no: +919524886866; +918667032880



PERSONAL INFORMATION

Date of Birth : 25.06.1990

Sex : Male

Nationality : Indian

Mother Tongue: Tamil

ACADEMIC CHRONICLE

Ph.D. (Remote Sensing)	8.0 GPA
Bharathidasan University, Tiruchirappalli, Tamil Nadu, India	
M.Sc, GEOSCIENCES (Five Year Integrated Programme)	6.95 CGPA
Bharathidasan University, Tiruchirappalli, TamilNadu, India [May 2013]	
Higher Secondary	65%
A.M.RC, Hr.Sec.School, Tiruchirappalli, Tamil Nadu [March 2008]	
High School	57%
A.M.RC, Hr.Sec.School, Tiruchirappalli, Tamil Nadu [March 2002]	

ADDRESS

Dr. P.KARTHICK
S/o. Pandian,
302/A, M.G.R Nagar,
Seplanthoppu,
Thondaiman Nallur (Po),
Kulathur,
Pudukkottai - 622
515. Tamil Nadu,
India.

PROFESSIONAL EXPERIENCE

<u>Organization</u>	<u>Position</u>	<u>Period</u>
Department of Geology National College (Autonomous) Tiruchirappalli – 620001. Tamil Nadu, India.	Assistant Professor	March- 2024 Till date
NABARD Consultancy Services (NABCONS) Bandra-Kurla Complex, Bandra East, Mumbai - 400 051 Maharashtra, India.	Remote Sensing and GIS Analyst	Feb- 2021 March- 2024
NABARD Consultancy Services (NABCONS) Bandra-Kurla Complex, Bandra East, Mumbai - 400 051 Maharashtra, India.	Senior Project Consultant	Oct - 2020 Feb -2021
Land Use & Cover Monitoring Division (LUCMD), National Remote Sensing Centre (NRSC/ISRO), Balanagar, Hyderabad- 500037, Telangana, India.	Junior Project Scientist	Sep - 2018 Sep - 2020

Department of Remote Sensing
Bharathidasan University,
Tiruchirappalli - 620024
Tamil Nadu, India.

**University Research
Fellow**

April - 2014
Aug - 2018

Software Exposure

Package

ArcGIS Pro, ArcGIS 10.8, Arc Server 10.2.2, ArcGIS Viewer for Flex 3.7, Google Earth Engine, ERADAS Imagine 2022, Auto CAD - 2012, Map Info, Global Mapper, GPS Total Station, MS Office, ENVI 5.1, Sigma Plot 11.0, SPSS , Surfer 12, IPI2win (Geophysics), Aquachem 4.0 (Geo chemistry)

Instrumental Knowledge

Geochemistry

Spectrophotometer, Flame photometer, BOD & COD analyzer and Titration Techniques.

Geophysics

Geophysical resistivity Terrameter (SAS 300C) and 3D Locator 500.

Surveying

Total stations, GPS, Ground Penetrating Radar (GPR)

PROJECTS SUBMITTED TO

Bharathidasan University

CWRDM

ONGC

Bharathidasan University

ACADEMIC PROJECTS

Ph.D. Thesis “SUSTAINABLE DEVELOPMENT OF SOIL AND GROUNDWATER RESOURCES: A CASE STUDY OF PERAMBALUR TALUK, TAMIL NADU USING GEOSPATIAL TECHNOLOGY”
Department of Remote Sensing, Bharathidasan University, Tiruchirappalli.

M.Sc. Dissertation “AN INTEGRATED STUDY ON GROUNDWATER POLLUTION AND SALINITY INTRUSION OF THE COASTAL AQUIFERS IN COCHIN AREA” Centre for Water Resources Development and Management (CWRDM), Kunnamangalam, Kozhikode - 673 571, Kerala.

Summer Internship in “FAMILIARIZATION ON LABORATORY STUDIES, GIS, CORELDRAW, AND GEOPHYSICAL HYDROCARBON EXPLORATION TECHNIQUES” at Oil and Natural Gas Corporation (ONGC) and Regional Geosciences Laboratory, Chennai.

Summer project work in “GROUNDWATER QUALITY ASSESSMENT IN CAUVERY RIVER BASIN, TAMIL NADU” at Department of Remote Sensing, Bharathidasan University, Tiruchirappalli-620023.

<u>ORGANIZATION</u>	<u>RESEARCH PROJECTS</u>
<p>Pradhan Mantri Gram Sadak Yojana (PMGSY) under the Ministry of Rural Development</p> <p>Government of India</p> <p>NABARD</p>	<p>National Project on Use of Geo-Informatics for Monitoring of Rural Road Projects Under PMGSY at National Remote Sensing Centre (NRSC/ISRO), Hyderabad.</p> <p>Geotagging of Agriculture Storage Godown in Pan India at NABARD Consultancy Services (NABCONS), Mumbai.</p> <p>Real time monitoring of NABARD / NRDM sponsored watershed projects in India using Remote Sensing and GIS technology at NABCONS, Mumbai</p>
<u>ORGANIZERS</u>	<u>RESEARCH PAPERS PRESENTED SEMINARS AND CONFERENCES</u>
<p>Department of Remote sensing, Bharathidasan University</p> <p>NIRD&PR</p> <p>Department of Remote sensing, Bharathidasan University</p>	<ol style="list-style-type: none"> 1. “Groundwater Development through Artificial Recharge Using Remote Sensing and GIS In Over Exploited Perambalur Taluk, Tamil Nadu.”National Seminar on Multi-Disciplinary (4G) Approach for Mineral Exploration” 17th February 2017, Department of Remote sensing, Bharathidasan University, Tiruchirappalli-620023. 2. “Assessment of Landuse and Land Cover Changes through Remote Sensing and GIS in Perambalur Taluk, Tamil Nadu, India. National Conference on “Geo-informatics Applications in Natural Resource Management” held during 18-19 March, 2016 at National Institute of Rural Development & Panchayati Raj (NIRD&PR) Ministry of Rural Development, Government of India, Hyderabad. 3. “Identification of Groundwater Recharge Areas and Suggestion of Suitable Recharge Structures for Thuraiyur Taluk Using Remote Sensing and GIS.” National Conference on “UGC- SAP- DRS-1 National Seminar on Remote Sensing and GIS for Disaster Mitigation and Management”13-14, March 2015 Department of Remote sensing, Bharathidasan University, Tiruchirappalli-620023.

SEMINARS, CONFERENCES AND WORKSHOPS PARTICIPATED

Anna University	1. National Training Programme on “Geospatial Technologies”(DST-NRDMS), Department of Mining Engineering, College of Engineering, Anna University, Chennai, 08 - 10 Feb 2017.
Bharathidasan University	2. National Workshop on “Geoinformatics for Watershed Management” Organized by Department of Geography, School of Geosciences , Bharathidasan University, Tiruchirappalli-24 from 27- 31 January 2017.
National Institute of Technology, Tiruchirappalli	3. National Workshop on “Advanced Soft computing Tool in Water Resources and Coastal Engineering (ASCWRC)” Organized by Civil Engineering, National Institute of Technology, Tiruchirappalli on 08-10 September 2016.
Bharathidasan University	4. National Seminar on “Library Technology for Teaching, Learning and Research” Bharathidasan University, Tiruchirappalli, 12 th August 2016.
Periyar Maniammai University	5. National Workshop on “Capacity Building on Bhuvan Map Based Skill Set” Periyar Maniammai University, Thanjavur, 14 - 15, July 2016.
Bharathidasan University	6. National Seminar on “Principles And Application of Ground Water Penetrating Radar” Centre for Remote sensing, Bharathidasan University, Tiruchirappalli, 14-15 th November 2014.
Presidency College	7. State Workshop on Rainwater Harvesting (2013-2014), Department Of Geology, Presidency College, Chennai, 30.12.2013
Bharathidasan University	8. Census–2011 Data Dissemination Workshop on Houses, Household Amenities & Assets” Department of Geography, School of Geosciences, Bharathidasan University, Tiruchirappalli-24, 31 July 2012.
Bharathidasan University	9. National Level Workshop on “Advanced GPS Surveying (WAGS), Department of Geography, School of Geosciences, Bharathidasan University, Tiruchirappalli-620 024.
Bharathidasan University	10. National Seminar on “Geo Informatics for River Basin Studies 2012. Department of Geography, School of Geosciences, Bharathidasan University, Tiruchirappalli-24, from 03-04 April 2012.
Bharathidasan University	11. National Seminar on “Second Green Revolution Issues and Challenges” Department of Geography, Bharathidasan University, Tiruchirappalli- 24, from 25- 27 March 2011.
Bharathidasan University	12. National Seminar- Cum - Workshop on "Dissemination of Remote Sensing Technology and Disaster Mitigation Programmes to Geography Teachers” Department of Geography, Bharathidasan University , Tiruchirappalli – 24, 25- 27 February 2011.
Bharathidasan University	13. Frontier Areas of Research & Teaching in Geosciences, School of Geosciences, Bharathidasan University, Tiruchirappalli, 26-28 Feb 2010.

SHORT TERM COURSE AND TRAINING PROGRAM

Internal Quality Assurance Cell (IQAC) of Gauhati University, Assam

Attended the One Week National Level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research, organised by the Internal Quality Assurance Cell (IQAC) of Gauhati University, Assam in association with ipsr solutions limited from 17 April 2024 to 24 April 2024.

National College (Autonomous), Tiruchirappalli

Attended Faculty Orientation Program held from Monday, 11 March 2024 to Saturday, 16 March 2024 at National College (Autonomous), Tiruchirappalli.

ERSI India.

ArcGIS Pro: Essential Workflows Conducted by ERSI India. Held at National Bank For Agriculture And Rural Development-NABARD Mumbai. (20.11.2023 to 22.11.2023)

Central Groundwater Board, South Eastern region Chennai.

Tier II Training Course on “Aquifer Information System and Aquifer Management Plan Conducted by CGWB (Central Groundwater Board, South Eastern region Chennai.) Held at Tiruchirappalli, Tamil Nadu. (06-01-2014 to 10-01-2014).

Off Campus Outreach Certificate Program

Off-Campus Outreach Certificate Advance Training Course on “Remote sensing, Geographical Information System and Global Positioning System” Conducted by Bharathidasan University, Tiruchirappalli-24. (06-08-2012 to 22-10-2012).

Off-Campus Outreach Certificate Advance Training Course on “Hyperspectral Remote sensing” Conducted by Bharathidasan University, Tiruchirappalli-24. (13-02-2012 to 30-03-2012).

AWARDS AND SCHOLARSHIPS

University Research Fellowship to Pursue Ph.D.

Awarded **University Rank Holder (Second Rank) in M.Sc., Geosciences**, Bharathidasan University, 2013

JOURNALS

IJMS

RESEARCH PAPERS PUBLISHED

1. P.Karthick and C. Lakshumanan (2018) “Identification of groundwater recharge sites and suitable recharge structures for Thuraiyur Taluk using Geospatial Technology”, Indian Journal of Geo Marine Sciences, Vol.47 (10), pp. 2117-2125.

IJGESE

2. P.Karthick, C.Lakshumanan and S.Sivakumar (2017) “Landuse change detection analysis using temporal satellite data in Perambalur Taluk, Tamil Nadu, India”, International Journal of Earth Sciences and Engineering, Vol.10 (03), pp. 478-483, DOI:10.21276/ijee.2017.10.0303.

IRJES	3. P.Karthick, C.Lakshumanan and. P. Ramki (2017) “Estimation of soil erosion vulnerability in Perambalur Taluk, Tamil Nadu using revised universal soil loss equation model (RUSLE) and geo information technology” International Research Journal of Earth Sciences, Vol.5(8), pp. 8-14.
IRJES	4. V.Govindaraj, P.Karthick and C. Lakshumanan (2017) “Assessment of groundwater potential zones using remote sensing and GIS techniques in Gomukhi River basin of Tamil Nadu, India” International Research Journal of Earth Sciences, Vol.5(11), pp.1-12.
SSRG-IJGGS	5. J. Rajesh, C. Lakshumanan, V.Govindaraj and P.Karthick (2016)“Sea Level Rise Vulnerability Assessment Model for Coastal Area of Nagapattinam”, SSRG International Journal of Geo informatics and Geological Science (SSRG-IJGGS) – Vol.3 (1), pp. 1-8 .
JEAT	6. J. Rajesh, C. Lakshumanan, V.Govindaraj and P.Karthick (2016) “Environmental Impacts Assessment of Brackish Water Aquaculture Activity in Nagapattinam Region, South East coast of India”, Journal of Environmental & Analytical Toxicology, Vol.6 (3), pp. 01-11 DOI:10.4172/2161-0525.1000367
JCCS	7. J. Rajesh, C. Lakshumanan, V.Govindaraj and P.Karthick (2016) “The Groundwater Quality Monitoring of Nagapattinam, Taluk, Tamil Nadu, India”, Journal of Chemistry and Chemical Sciences, Vol.6 (1), pp. 33-51.
IJRSG	8. S. Sivakumar, C. Lakshumanan, J. Rajesh and P.Karthick (2015) “Identification of Groundwater Potential Zones In Hard Rock Terrain of Thiruvannamalai-Tamil Nadu, India – A Geomatics Based Approach”, International Journal of Remote Sensing & Geoscience, Vol.4 (1), pp. 1-6.
IJIAREC	9. Rajesh J, Lakshumanan C, Karthick P and Sivakumar S (2014) “Land Use/Land Cover Studies Using Remote Sensing And GIS For Muthupet”, International Journal of Intellectual Advancements and Research in Engineering Computations, Vol.02 (06) pp. 151-162.
ISIWRM	10. Priju C.P, Karthick P, Kumar A, Abdul Hameed E, Madhavan K and Narasimha Prasad NB.(2014) “Electrical resistivity sounding and hydrochemical investigation for delineating saline water intrusion in shallow aquifers of Ernakulam – Alappuzha coast” International Symposium on Integrated Water Resource Management (IWRM-2014) pp.1164-1172.