

NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)

COIMBATORE

STAFF PROFILE

NAME : Dr. Jyothirmayi P.
DESIGNATION : Head & Assistant Professor
DEPARTMENT : Geography
QUALIFICATION : M.Sc., Net & JRF, Ph.D
EXPERIENCE : Teaching:12 Research: 16
AREAS OF SPECIALIZATION : Geomorphology, GIS and Remote sensing
E-MAIL : drjyothirmayip@gmail.com,
pjyothirmayi@gmail.com
ACADEMIC QUALIFICATIONS :

DEGREE	YEAR OF COMPLETION	NAME OF THE INSTITUTION	CLASS
PhD awarded 2013	2013	Kannur University	
UGC-NET & JRF	2009	UGC	
M.Sc. Applied Geography	2004	University of Madras	First Class, First rank
B.Sc. Geography	2002	Government College, Kariavattom, Thiruvananthapuram	First Class with Distinction, Second Rank

ADDITIONAL QUALIFICATIONS:

DIPLOMA/ VOCATIONAL/ CERTIFICATION	AREA OF SPECIALIZATION	NAME OF THE INSTITUTION/ UNIVERSITY/ AGENCY	YEAR
Diploma-PGDCA	PGDCA	Bharathiar University, Coimbatore	2022

RESEARCH GUIDANCE:

PROGRAMME	NO. OF SCHOLARS	
	COMPLETED	PURSUING
Ph.D	1	3
M.Phil	1	-

GRANTS RECEIVED

Event Title	Agency	Amount	Date
Seed Money Project	Nirmala College for Women	Rs.10,000	2021-2022

PROJECTS COMPLETED

Project Title	Agency	Amount	Duration
Resource Mapping and Atlas of Local Water Features	Nirmala College for Women	Rs.10,000	1 Year
“Improving Access to public health services in Rural India - Modelling the accessibility of service providers in a nested network with ArcGIS , As part of the study “Strengthening micro health insurances for the poor in India.”	Collaboration of Department of Cooperative studies & Department of Geography of University of Cologne, Germany and University of Madras	12,0000	2005, 1 year

RESEARCH PUBLICATIONS:

INTERNATIONAL:

- [1] Nagarathinam S.,Jyothirmayi P,Akisha OP:An Analysis of the Spatial and Temporal Trends of Precipitation from 1991 to 2020 in the Coimbatore District of Tamil Nadu: Journal of Neonatal Surgery:2025 vol.14,issue 16s.ISSN (Online):2226-0439 (Scopus indexed).
- [2] S.Nagarathinam Jyothirmayi P:Estimation of Potential Rainwater Harvesting sites at NCW Campus,Coimbatore,Tamil Nadu: International Research Journal of Management ISSN 2250 – 1959(Online) Vol 16 Issue 1 [Year 2025]
- [3] Dr. Jyothirmayi P & Akisha: Analysis of Road Transportation System with special reference to vehicle flow and Accidents Kozhikode Corporation, Kerala: International Journal of Natural Sciences April – 23 ISSN-0976-0997
- [4] Helan Jenifer S &Dr. Jyothirmayi P: A study of Urbanization in Coimbatore City Corporation, Coimbatore using Geographic Information System: International Journal of Natural Sciences, April – 23 ISSN-0976-0997
- [5] Nagarathinam S &Dr. Jyothirmayi P;Geospatial Analysis of Land Use Land Cover Change in Coimbatore City : Indian Journal of Natural Sciences Vol.14 / Issue 77 /April / 2023 International Bimonthly (Print) – Open Access ISSN: 0976 – 0997
- [6] Vanangamudi K &Dr.Jyothirmayi P: Traffic Network and Accident Analysis in Coimbatore Corporation, Tamil Nadu : International Journal of Natural Sciences, April – 23 ISSN-0976-0997
- [7] Helan Jenifer S & Dr.Jyothirmayi P: Trends of Urban Population Growth in Tamil Nadu, India: International Journal of advance and Applied Research; Aug-22-2347-7075
- [8] Jyothirmayi, P., & Sukumar, B. (2019). Role of Relief and Slope in Agricultural Land Use: A Case Study in Valapattanam River Basin in Kannur District, Kerala Using GIS and Remote Sensing. Journal of Geography, Environment and Earth Science International, 21(2), 1-11. <https://doi.org/10.9734/jgeesi/2019/v21i230123>

- [9] Dr.Jyothirmayi P & B.Sukumar ; Prioritization of areas for water conservation in Valapattanamriver Basin Kannur district, Kerala-A geospatial Approach, International Journal of research in social sciences Vol.9, issue3 (2) March 2019, ISSN 2249-2496.
- [10] Helan Jenifer, Dr.Jyothirmayi P.(2019) A temporal analysis of maximum, minimum and mean temperature trends in Andra Pradesh. Nirmala Annual Research Congress(NARC – 2019).
- [11] Ponmani Vetrichelvan Dr.Jyothirmayi P(2019) A temporal Analysis of land use change in Vazhapady Taluk,Tamilnadu ,India: Nirmala Annual Research Congress (NARC – 2019).
- [12] Dr.Jyothirmayi P.(2019) Innovative Learning Approaches in Geography: National Assessment and Accreditation Council (NAAC – 2019)
- [13] Jyothirmayi .P,Ahalya Sukumar& B.Sukumar(2016); Erosion prone areas and watershed management in Valapattanam River Basin In Kannur District, Kerala, Applications of Remote sensing, GIS and GPS technologies, ISBN:978-93-84193-61-4,pp-245-250
- [14] Jyothirmayi P ,R.Anil Kumar 2013.Changing Land use pattern and some environmental Implications in the Valapattanam river basin ,Kannur district of Kerala, Sustainable Natural resources management under changing Climatic Scenarios, Proceedings of the Third international geography Congress.ISBN:978-81-8424-774-9
- [15] Jyothirmayi.P and Sukumar.B (2009) Mitigation and Management of hazard Prone areas of Valapattanam River Basin, Kannur District Kerala Using Geospatial Tools, Proceedings of the International Conference on Disaster management and Mitigation ICDMM-2009, PSNA College of Engineering and Technology, Dindigul, Tamil Nadu, pp 599-610

NATIONAL:

- [1] Jyothirmayi. P, Ahalya Sukumar& B. Sukumar (2016); Erosion prone areas and watershed management in Valapattanam River Basin In Kannur District, Kerala, Applications of Remote sensing, GIS and GPS technologies, ISBN:978-93-84193-61-4,pp-245-250
- [2] Jyothirmayi P,R. Anil Kumar 2012 .Terrain analysis in Valapattanam river basin ,Kannur District ,Kerala using Geospatial techniques” Research Volume on population and Resources, Vol.- II-2012,ISBN-B-978-81-910533-1-9,pp283-289.
- [3] Jyothirmayi P, R. Anil Kumar 2010. Ground water potential zones of Valapattanam River Basin: A Study using Satellite Remote Sensing and GIS, Indian Cartographer, Vol 30.Pp144-148
- [4] Jyothirmayi P, Diji V, P.Deepthi, U.M.Divya, Savitha Vijayan, M.Sulfikkar, Ahalya Sukumar and B.Sukumar (2009) Mitigation and management for Agricultural drought prone areas in Kannur district, Kerala using GIS, Proc. National Workshop on Natural Hazards, Disaster mitigation and Management held at Thiruvananthapuram 25-26 August 2009, Centre for Earth Science Studies, pp. 38-39

- [5] Jyothirmayi P 2007. Village Information System, A case study of Salem Taluk, Indian Cartographer, Vol 26.Pp 347-352 12)

PRESENTATIONS IN CONFERENCE:

NATIONAL:

- [1] Helan Jenifer, Dr.Jyothirmayi P.(2019) A temporal analysis of maximum, minimum and mean temperature trends in AndhraPradesh.Nirmala Annual Research Congress(NARC – 2019),
- [2] Ponmani Vetrichelvan Dr.Jyothirmayi P(2019) A temporal Analysis of land use change in Vazhapady Taluk,Tamilnadu ,India:Nirmala Annual Research Congress(NARC – 2019)
- [3] Dr.Jyothirmayi P.(2019) Innovative Learning Approaches in Geography:National Assessment and Accreditation Council (NAAC – 2019)
- [4] B.Sukumar,Ahalya Sukumar, P.Jyothirmayi P.“Hazard zonation mapping of Valapattanam river basin in Kannur district of Kerala, using GIS and Remote sensing” Proceedings of International Geomorphology conference at Kanyakumari 2011
- [5] .Sukumar B, Ahalya Sukumar, V.Diji, P.Deepthi, P.Jyothirmayi, M.Sulfikkar and Savitha Vijayan (2010) A study of Demographic aspects along the Kerala coast, Proc. Nat. Conf. Coastal Processes, Resource and Management, Thiruvananthapuram 5-7 Feb.2010, Centre for Earth Science Studies pp.101-103.

PARTICIPATION IN CONFERENCES:

- [1] International Conference on Disaster Management and mitigation ICDMM Tamilnadu, PSNA college of Engineering and Technology, Dindigul2009 PSNA college of Engineering and Technology, Dindigul Presented paper titled “Mitigation andmanagement of hazard prone areas - Valapattanam river basin, Kannur District, Kerala, using Geospatial tools.
- [2] 3rd International Geography Congress National Association of Geographers, India.2011held at CWRDM, Calicut Presented paper on “Changing land use pattern and some environmental implications in the valapattanam river basin, Kannur district, kerala
- [3] National Seminar EMFROG 2011Madurai Kamaraj University2011Madurai Kamaraj University Presented Paper on “Terrain Analysis of Valapattanam River Basin using Geospatial tools”
- [4] National level- A temporal Analysis of land use change in Vazhapady Taluk, Tamil Nadu, India Internal Quality Assurance Cell, Nirmala Annual Research Congress(NARC – 2019) on 27.11.2019 , Red Fields, Coimbatore – 18.
- [5] 9&10.01.2020 , presented a paper titled “Innovative Learning Approaches in Geography” in the National Assessment and Accreditation Council (NAAC – 2019), Red Fields, Coimbatore18

PARTICIPATION IN SEMINARS:

- [1] International Seminar on the topic “GIS Development Methodologies, Prospects and Applications and Workshop on Web GIS. Dept of Geography, University of Madras 2003.
- [2] National Seminar on the topic “Need of resource mapping at Panchayat level for rural development by Department of Geography, Govt. College for Women, Kumbhakonam through online mode on 17.07.20.
- [3] National level Orientation program on Disaster management Directorate of student services of Kannur University & department of environmental studies through online mode on 17.8.20 to 18.8.20.

PARTICIPATION IN WORKSHOPS:

- [1] National Workshop on Natural Hazards, disaster mitigation and management & Release of the District level Multi-Hazard Maps CESS, Trivandrum. 25-26 August 2009, CESS, Trivandrum. Presented a paper on Mitigation and Management for Agricultural Drought Prone Area in Kannur District, Kerala Using GIS,
- [2] Workshop (UGC sponsored Program) “Outcome based Education” IQAC, Nirmala College for Women, Coimbatore. 24.3.2018 Nirmala College for Women, Coimbatore.
- [3] Workshop (UGC sponsored Program) “Outcome based Education” IQAC, Nirmala College for Women, Coimbatore. 22.6.2018 & 23.6.2018
- [4] Nirmala College for Women, Coimbatore. Workshop (UGC sponsored Program) “Outcome based Education” IQAC, Nirmala College for Women, Coimbatore. 13.10.2018
- [5] Nirmala College for Women, Coimbatore. Workshop (UGC sponsored Program) “Intellectual Property Rights, Patents & Copyrights” IQAC, Nirmala College for Women, Coimbatore. 2.2.2019, Nirmala College for Women, Coimbatore. WORKSHOP
- [6] Online Workshop (UGC-HRDC-Indore) Workshop on MOOCS, E-content development & OERs-(Open Educational resources) 11.05.2020-16.05.2020
- [7] 4.03.21 to 5.03.21 workshop on the topic “Changing Paradigm of Geoscience, Bioscience & Eco science.” By International IIARI in collaboration with DERO

PARTICIPATION IN ORIENTATION PROGRAMME/ INDUCTION PROGRAMME/ SHORT TERM COURSES:

- [1] 119th Orientation Program UGC- Human resource Centre, Bharathiar University, Coimbatore. 17. 5.2018 to 13.6.2018
- [2] 1st Refresher Course in Geography UGC- HRDC Rani Durgavati Viswavidyalaya, Jabalpur 2. 12.2019 to 14.2.2019
- [3] II refresher Course in Geography UGC-HRDC Bharathidasan University, Trichy.

PARTICIPATION IN FACULTY DEVELOPMENT PROGRAMMES:

- [1] 3/5/2020 to 5/5/2020, Dr.Jyothirmayi P., National Level FDP- Webinar on “Current Research Trends In Social Science” PSGR Krishnammal College for Women in Online
- [2] 19.10.20 to 23.10.20 Dr.Jyothirmayi P Innovations in teaching and learning-“Traits of empowerment of self” National level FDP by Bharathi Women’s College, Department of Geography. Chennai..
- [3] E-content skill Development 14.06.2021 to 19.06.2021 Department of Mathematics, Nirmala College for Women, CBE - 18

CONFERENCE/ SEMINAR/ WORKSHOP ORGANIZED:

- [1] National Symposium Organizing Secretary for the ICSSR sponsored symposium “Exploration of Research Innovations: Its Trends and Challenges” 11.01.2020 Department of Library Science, Nirmala College for Women, Red Fields, Coimbatore

INVITED SPEAKER/ SESSION CHAIR- CONFERENCE/ SEMINAR/ WORKSHOP:

- [1] Resource Person in the Two Days National Level Geospatial Thinking Training Programme on 09th October, 2025, sponsored by BECH-RUSA 2.0, held at the Department of Remote Sensing, Bharathidasan University, Tiruchirappalli–23.
- [2] Bharathiar University Inspection Committee member for provisional affiliation of New Courses and inspection of Geology Department of Government arts College Coimbatore on 08.08.2025.
- [3] Resource Person for Short Term Course in Disaster Management and Climate Change on the topic “Disaster Management: Geoinformatics for Damage and loss Assessment” at MMTTC Kannur University on 05.3.25.
- [4] Resource person for an online session for short term course in disaster management & climate change on the topic, “Climate change impact on water resources and models to reduce the disasters”, at UGC-HRDC Kannur University, Kannur Kerala on 23.09 2023
- [5] Resource person for Hands on training session on “Applications of GIS in master plans and its uses for the urban governance and management” conducted by Centre for symbiosis of technology, environment & management at KCT, Coimbatore on 22.08.2023
- [6] Delivered online lecture on “Geographical information system in biological science”, at School of Biosciences and Biotechnology, VIT, Vellore, on 2.12.2021.
- [7] Rendered an online special lecture on the topic “Outbreak of covid 19 pandemic: challenges and the road ahead from a geographic perspective”, at Government Raza PG College, Rampur, Uttar Pradesh in the Second Webinar of International webinar series on 26th May 2020.
- [8] Delivered an online lecture on the topic “Challenges, opportunities and future pathways in Higher education”, at PG department of History, Carmel College, Mala, Kerala, on 26th June 2020.

BOOK PUBLICATIONS:

- [1] Course material on Geomorphic Landforms (Nov,2025) ISBN-978-81-992660-4-9
- [2] Book chapter titled “Geoinformatics for Loss And Damage Assessment” in Geoinformatics in Disaster Management Course book of IGNOU (Sept,2025) ISBN:978-93-6106-948-2
- [3] Earth unveiled: Structure, Rocks, and Dynamic Forces shaping our planet (Jan,2025): ISBN-978-93-342-1748-3
- [4] Course Material on Fundamentals of Geomorphology, November (2024): ISBN -978-81-982494-5-6
- [5] Land evaluation for Sustainable development in Valapattanam river basin, Kannur, Kerala (2021): ISBN 978-93-5578-736-1

MEMBER IN BOARD OF STUDIES:

- [1] Bharatiyar University Board of studies Member for Geography for 3 years.
- [2] University nominee for BOS of Vellalar College for women, Erode for 3 years

EDITORIAL/ REVIEW BOARD MEMBER:

- [1] Joint Secretary for INCA Chennai Branch from 2021 to 2024
- [2] SALIS Library Ambassador Award for the year 2024 and 2025 for outstanding contribution and support to promote Library services among the students.
- [3] Best Teacher Award 2024-2025-Vocational Excellence award of rotary Club of Chennai Crown.

MEMBERSHIP IN PROFESSIONAL BODIES:

- [1] Life member in Institute of Indian Geographers, India,
- [2] Life member in Indian National Cartographic Association
- [3] National Association of Geographers
- [4] Nature Science Foundation