

# Faculty Profile



**Dr. S. Padma , MS (By Research), PhD**  
Assistant Professor (OG) – CIVIL

## **HIGHLIGHTS:**

- Number of Journal Publications:18
- H-Index:06
- Project Funding Received: NIL
- Patents Published: 01
- Patents Granted: NIL

## **PROFESSIONAL LINKS:**

- Scopus ID: 57214517649
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57214517649>
- Google Scholar ID: <https://scholar.google.com/citations?user=yoCar9gAAAAJ&hl=en>
- Anna University Faculty ID: 261641, COE ID: 2122268
- AICTE Faculty ID: 1-2518635321
- Anna University Supervisor ID: NIL
- LinkedIn: <https://www.linkedin.com/in/padma-s-srinivasaperumal-331672343/>

## **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: 10 years
- Industrial Experience: 3 months

## **INTERNATIONAL EXPOSURE:**

- Reviewer of International Journals namely SoftwareX, Remote Sensing Letters, Environmental Monitoring and Assessment
- Presented a research paper titled ‘Spectral Correlation and Jeffries-Matusita based matching algorithm for improved information extraction from Hyperspectral Images’, 37<sup>th</sup> Asian Conference on Remote Sensing, 17-21 October 2016, Colombo, Sri Lanka.

## **AREA OF SPECIALIZATION:**

- Remote Sensing
- Geographical Information Systems
- Satellite Image Processing

- Geospatial applications

**Ph.Ds AWARDED WITH DETAILS: NA**

**Ph.Ds GUIDING: NA**

- **Full Time Scholars: NA**
- **Part Time Scholars : NA**

**SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:**

- Applied for CSIR-ASPIRE project proposal scheme (2023)
- Applied for ISRO-RESPOND project scheme (2024)
- Completed a project titled “Modeling the vulnerability to Malaria and Cholera in the Chennai region of Southern India using Remote Sensing and GIS and development of Decision Support System” under Student Innovative Projects Programme of Center for Technology Development and Transfer, Anna University, India (2011).

**PATENTS PUBLISHED/GRANTED:**

1. Patent awarded to Padma S by Intellectual Property India for “Automated Air Quality Monitoring System in Real Time Cabin Environment and Enhanced Driver Health”. Patent Number: 202341038755 (01-Sep-2023)

**COURSES CERTIFIED:**

- Certified by National Programme on Technology Enhanced Learning (NPTEL) for the Courses – Sustainable Transportation Systems (2024), Remote Sensing and GIS (2023), Municipal Solid Waste Management (2022), Advanced Geomatics (2022), Introduction to Research (2019), Earth Sciences for Civil Engineering (Part I & II) (2018) and Electronic Waste Management-Issues and Challenges (2018)
- Certified in the Short Term Training Programme through ICT Mode on Environmental Pollution: Laboratory and Testing organized by NITTTR Kolkatta (2022)
- Certified by INSPIRE-Softtech Solutions in the Three Days International Online Workshop on "Multivariate Analysis and its Interpretation using SPSS" (2022)
- Certified in the FDP-SI UHV Online - “AICTE Incorporating Universal Human Values in Education (An AICTE Initiative)” organized by AICTE (2021)
- Certified by National Water Academy for completing the Distance Learning Programme on Introduction to Python Programming & Its Applications in Water Resources Sector (2021).
- Certified by Indo-Universal Collaboration for Engineering Education (IUCEE) in International Engineering Educator Certification Programme (IEECP) (2019)
- Certified by Cognizant Academy in Information Technology Infrastructure Library Services (ITIL v3) (2012)
- Certified by Cognizant Academy in Level 0: Information Technology Infrastructure Services IT IS Yellow Belt (2012)

**ACHIEVEMENTS AND AWARDS:**

- Certified as “NPTEL Star” in the Discipline of Civil Engineering by South Zone, NPTEL (Dec 2024)
- Recognized with “Best Paper Award” in the Innovative Solutions and Challenges in Civil Engineering (**ISCCE**) organized by Saveetha Engineering College (2020)
- Awarded **second place** in the quiz contest of **GeoConnect workshop** organized by Indian Institute of Space Science, Trivandrum (2018)

- Certified as “Best passed out student in BE Geoinformatics” through the **1957 Guindians Endowment, Dr. V.C. Kulandaiswamy Endowment** and **Namakkal Kavingnar Endowment** in the year (2013).
- Recognized as “Best Outgoing student of BE Geoinformatics” through **Ramana Gold Medal Endowment’12**
- Awarded with **Mrs. Anandavalli Sundaram Memorial Prize’12** for General Proficiency in Geoinformatics by the Alumni Association, College of Engineering, Guindy.
- Completed a project titled “Modeling the vulnerability to Malaria and Cholera in the Chennai region of Southern India using Remote Sensing and GIS and development of Decision Support System” under **Student Innovative Projects Programme** of Center for Technology Development and Transfer, Anna University, India (2011).
- Secured **II prize** in the Paper Presentation and **I prize** in the Poster Presentation at **Celestia’10** (Anna University, India)
- Secured **II prize** in the Paper Presentation at the National Level Technical Fest **Teckriti’11** (Indian Institute of Technology, Kanpur, India)
- Recognized as ‘**School Topper**’ in the Standard XII Examination conducted by State Board of School Education, India.
- Recognized as ‘**School Topper**’ in the Standard X Examinations conducted by Anglo Indian Board of School Education, India

#### **SPECIAL SESSIONS DELIVERED:**

- Delivered lecture in the IEI Seminar on Remote Sensing & GIS Applications on Water Resources Engineering (March 03-04, 2023)
- Resource Person for guest lectures titled ‘Become a Cartographer’ (2022), ‘Geospatial Technologies for Disaster Management’ (2021) and ‘Three days FDP on Geographical Information Systems’ (2019) at St. Joseph’s Engineering College and St. Joseph’s Institute of Technology, OMR, Chennai.

#### **CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:**

- Certified in FDP on Recent Trend in AI Innovation & Solutions for Contemporary Challenges by Department of ECE, Saveetha Engineering College (2024)
- Attended 3-days webinar based training program on ‘Bhuvan Overview’ conducted by National Remote Sensing Centre, Indian Space Research Organization (2024)
- Attended Winter School in Geospatial Science and Technology (Level 2) organized by Chennai Institute of Technology (2024) in association with DST-SERB.
- Certified by GH Raison Institute of Engineering & Technology Nagpur Diploma in Engineering for participating in FDP on Productivity Enhancement through Stress Management (2023)
- Certified in NAAC sponsored workshop on NEP2020 organized by Guru Nanak Institute of Engineering and Technology (2023)
- Certified in FDP on Sustainable Repair and Rehabilitation of Constructed Facilities organized by Vellore Institute of Technology (2023)
- Presented a research paper in the 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC) (pp. 1047-1054). IEEE (2023)
- Attended Summer School in Geospatial Science and Technology (Level 2) organized by Chennai Institute of Technology (2022) in association with DST-SERB.
- Presented research works in the DST-SERB sponsored International Conference on Sustainable Practices and Advancements in Civil Engineering (2022) organized by PSG Institute of Technology and Applied Research (2022)

- Presented a research paper in the 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N) (pp. 2376-2381). IEEE. (2022)
- Attended Summer School in Geospatial Science and Technology (Level 2) organized by Chennai Institute of Technology (2022) in association with DST-SERB.
- Participated in the DST-SERB funded One-Day Workshop on “Progressive Innovations in Land Surveying” organized by SRM Institute of Science and Technology (2021)
- Attended a FDP on Citation Styles and References Lists organized by Siva Sivani Institute of Management (2021)
- Attended an FDP on Industry 4.0 organized by Ramaiah Institute of Technology (2021)
- Attended the 5 Days Online Faculty Development Programme on “Applications of Image Processing” organized by St. Joseph’s College of Engineering, OMR, Chennai (2020)
- Presented a case study report in the Mini-Symposium on Project/Problem Based Learning (MS-P2BL) organized by IUCEE (2021)
- Trained in the PBL tools through Regional Research Symposium on Problem Based Learning (RRSPBL) (June 18-19, 2021) organized by Karnataka State Higher Education Council Bengaluru (India) in Collaboration with Aalborg Centre for Problem Based Learning in Engineering Science and Sustainability under the auspices of UNESCO, Aalborg University, DENMARK
- Trained on Open Source GIS at KCube Consultancy Services, Chennai, India (2010).
- Studies the trend of Intelligent Transport Systems in the Summer Fellowship Programme of Indian Institute of Technology, Madras, India (2011)
- Introduced to the basics of BIG DATA in the “Two days Workshop on BIG DATA ANALYTICS” in Madras Institute of Technology (2014)
- Introduced to the core of advanced teaching tools in a “Two-Week ISTE STTP on Pedagogy for effective use of ICT in Engineering Education” conducted by IIT Bombay (2015)
- Trained on the application of environmental engineering in a “Two-Week ISTE STTP on Environmental Studies” conducted by IIT Bombay (2015)
- Introduced to the core aspects of Structural Engineering in the “ISTE STTP Workshop on Structural Engineering” conducted by IIT Kharagpur (2016)
- Certified in the course on “Educational Technology for Engineering Teachers” hosted by IIT Bombay (2016)
- Trained on the use of technical communication in engineering in the “ISTE STTP Workshop on Technical Communication” conducted by IIT Bombay (2016)
- Trained on the basics of STAAD PRO in a “Two days Faculty Development Programme on STAAD PRO” conducted by Bentley Systems in Saveetha Engineering College. (2017).
- Attended a one-week workshop on Advanced remote sensing technologies: Hyperspectral and LiDAR in IIST, Trivandrum (2018) and utilized the SVC Spectroradiometer for spectral data measurement of weathered rock samples collected from Kasargod, Kerala. (2018)
- Introduced to the basics of BIG DATA in the “Two- d a y Workshop on BIG DATA ANALYTICS” in **Madras Institute of Technology** (2014)
- Studied the trend of Intelligent Transport Systems in the **Summer Fellowship Programme of Indian Institute of Technology**, Madras, India (2011)
- Trained on **Open Source GIS** at **KCube Consultancy Services**, Chennai, India (2010).
- Carried out field-based spectral data collection of mangroves and associated species in Pichavaram forest, southern India
- Carried out water sample collection for hyperspectral radiometry experiments from River Cooum, southern India
- Carried out Total station and micro-optic theodolite surveys in Ooty, southern India

## **PROFESSIONAL MEMBERSHIPS:**

- Life Member in Indian Society for Remote Sensing – L 5909

## **OTHER DETAILS (If any):**

- Internal academic auditor from the Department of Civil Engineering, Saveetha Engineering College (since 2021)
- Autonomous Coordinator of the Department of Civil Engineering, Saveetha Engineering College (since 2018)
- Core Member of Saveetha Teaching Learning Centre (STLC) (2021-22)
- Organized a National Level Conference on **“Remote Sensing and its Applications”** in Department of Civil Engineering, Saveetha Engineering College (2015)
- Member of the organizing team for the **UGC sponsored Workshop on Advances in Image Processing and its Applications**, Anna University (2014)
- Organized and coordinated the events of National Level Geospatial Conference **“Geohorizon’12”**
- Served as the **Lady General Secretary** of the **Society of Geoinformatics Engineers of Anna University** (2011-2012)
- Organized the **“Image Processing using MATLAB”** workshop in the National Level Technical Fest Kurukshetra’11