

# Dr. G. Umamageswari

Assistant Professor of Education | Educational Researcher & Psychometrician

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## Academic Identity:

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Researcher ID: <https://www.webofscience.com/wos/author/record/JEP2228-2023>

Website: <https://draft.blogger.com/blog/posts/5134838176408965167>

You Tube [https://www.youtube.com/channel/UC3ZLTAfqb\\_b8NBpBRuWUxA](https://www.youtube.com/channel/UC3ZLTAfqb_b8NBpBRuWUxA)

## EXECUTIVE SUMMARY

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Dynamic, research-driven Assistant Professor of Education with 5+ years of consecutive higher education teaching experience and robust interdisciplinary expertise bridging Educational Psychology, ICT Integration, and Quantitative Research Methodology. Recognized specialist in educational aspiration, emotional/spiritual intelligence, mindfulness, and cognitive flexibility, with proven success in psychometric tool development and advanced quantitative modeling (SEM and ANN). Highly active academic leader, curriculum panelist, and speaker dedicated to advancing student-centered pedagogy, NEP 2020 alignment, and holistic learner development.

## CORE COMPETENCIES

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- **Pedagogy & Curriculum Development:** NEP 2020 Framework Alignment, Learner-Centered Pedagogy, Inclusive Education, Language & Mathematics Curriculum Design.
- **Research Methodology & Analytics:** Advanced Psychometrics, Structural Equation Modeling (SEM), Artificial Neural Networks (ANN), Regression Analysis, Survey Construction.
- **EdTech & Digital Skills:** ICT Integration in Teaching, Virtual Classrooms, SPSS, AMOS Graphics, ANN Analytical Tools, Online Evaluation Platforms.
- **Academic Leadership & Mentorship:** Postgraduate Thesis Supervision, FDP Delivery, Institutional Governance, Student Counseling & Wellness.

## TEACHING EXPERIENCE

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**Assistant Professor of Education** | *Stella Matutina College of Education (Autonomous), Chennai* | 5+ Years (Present)

- Deliver core courses in B.Ed. and M.Ed. programs focusing on Education, Educational Technology, and Educational Psychology.
- Mentor undergraduate and postgraduate student teachers in research design, teaching practicums, and modern classroom pedagogy.
- Guide postgraduate dissertations, serving as active research supervisor for M.Ed. scholars.
- Integrate interactive ICT tools and self-paced digital learning environments into classroom instruction.

## EDUCATION

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**Ph.D. in Education** | *Tamil Nadu Teachers Education University (2018–2022)*

- **Dissertation:** Educational Aspiration in relation to Emotional Intelligence, Spiritual Intelligence, Mindfulness, and Cognitive Flexibility of Higher Secondary Students.
- **Methodological Highlights:** Standardized custom psychometric tools (Educational Aspiration Questionnaire, Cognitive Flexibility Questionnaire); applied Regression, Structural Equation Modeling (SEM), and Artificial Neural Network Analysis (ANN) to validate complex behavioral predictors.
- **M.Sc. in Psychology** | Advanced Behavioral Science & Counseling
- **M.Phil. in Education** | Educational Research & Foundations
- **M.Ed. (Master of Education)** | Advanced Pedagogy & Administration
- **M.Sc. in Mathematics** | Quantitative Foundations

## CERTIFICATIONS & NATIONAL ELIGIBILITY

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- **UGC NET (Education)** – Qualified (2017)
- **TNSET (Education)** – Qualified (2017)
- **CTET (Central Teacher Eligibility Test)** – Qualified (2015)

## RESEARCH PUBLICATIONS & SCHOLARLY OUTPUT

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- **Journal Publications:** 10 Peer-Reviewed Journal Articles covering ICT integration, AI in education, metacognition, and educational psychology.
- **Book Chapters:** 6 Published Chapters in edited books of National & International repute.
- **Conferences & Seminars:** 35+ Paper Presentations and Academic Participations at National and International Conferences.
- **Workshops & FDPs:** Attended 25+ Specialized Faculty Development Programs and Workshops.

**Standardized Research Tools Developed & Standardized:**

- 1. Educational Aspiration Questionnaire
- 2. Cognitive Flexibility Questionnaire

## INVITED KEYNOTES & RESOURCE PERSON ENGAGEMENTS

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- **Mental Wellness:** Resource Person, 'Mental Wellness Workshop', Hindustan Institute of Technology & Science (Deemed to be University).
- **NEP 2020 Implementation:** Keynote Speaker, 'Understanding NEP-2020: Shifting Focus from Knowledge Transmission to Skill Development', Sri Vidya College of Arts and Science.
- **Curriculum Design:** Member of Panel Discussion for the Revision of Mathematics Curriculum, Department of School Education, Government of Tamil Nadu.
- **Digital Pedagogy:** Resource Person, National FDP on 'Digitalization and Teaching Languages', Justice Basheer Ahmed Sayeed College for Women (SIET).
- **Innovation & Youth Mentorship:** Resource Person, Student Innovation Council, Kendriya Vidyalaya.

## AWARDS & ACADEMIC RECOGNITION

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- **Humanitarian Award** – Rotary Club of Chennai Crown (2024)
- **Emerging Ingenious Teacher Educator Award** – Novel Research Academy (National Level, 2022–2023)

## ACADEMIC LEADERSHIP & INSTITUTIONAL ROLES

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- **UMIS Nodal Officer** (2023–Present)
- **Committee Secretary:** Technical & Website Committee | Discipline & Monitoring Committee
- **Active Member:** National Service Scheme (NSS) Committee | Women's Cell | Calendar & Magazine Committee

## TECHNICAL & ANALYTICAL SKILLS

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| Category                          | Skills & Software Tools                                                        |
|-----------------------------------|--------------------------------------------------------------------------------|
| Statistical & Analytical Software | SPSS, AMOS Graphics (Basics), Artificial Neural Network (ANN) Analytical Tools |
| EdTech & Survey Tools             | Google Forms, Online Survey Design Tools, LMS Platforms, Virtual Classrooms    |
| Office & Presentation Suites      | MS Word, MS Excel, MS PowerPoint                                               |