

## Dr. Maria Josephine Arokia Marie. S

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Assistant Professor,

Department of Education,

Indira Gandhi National Tribal University, Lalpur, Anuppur,

Madhya Pradesh (MP), India- 484887



**OBJECTIVE** : To presume a challenging research career and integrate innovative teaching strategies in my profession also update myself and to grow along with your esteemed organization.

### EDUCATION

- Doctor of Philosophy (PhD) in Education awarded in December 2017 from School of Education Pondicherry University, India.
- Master of Philosophy (M.Phil.) in Chemistry from Bharathidasan University, Trichy, Tamil Nadu, India in December 2008 – First Class (79.6 %)
- Master of Education (M.Ed.) from Pope John Paul II College of Education, affiliated to Pondicherry University in December 2009 – First Class (77.18 %)
- Bachelor of Education (B.Ed.) from Pope John Paul II College of Education, affiliated to Pondicherry University Puducherry in September 2005 – First Class (79.33 %)
- Master of Science (M.Sc.) in Chemistry from Kanchi Mamunivar Post Graduation Centre, Puducherry affiliated to Pondicherry University in May 2004 – First Class ( 72.18%)
- Bachelor of Science (B.Sc.) in Chemistry from Bharathidasan Women’s college, Puducherry affiliated to Pondicherry University in May 2001– First Class ( 71.51%)
- Higher Secondary from Seventh Day Adventist Higher Secondary School, Puducherry, May 1999 – First class ( 77.9%)
- S.S.L.C from Seventh Day Adventist Higher Secondary School, Puducherry in March 1997 - First class (83.4%)

### ACADEMIC QUALIFICATION AND AWARD

Qualified and awarded the UGC- National Eligibility Test (UGC) - JRF &SRF in the subject of Education (UGC-NET JRF in 2012)

### RESEARCH EXPERIENCE

- PhD Research Scholar in School of Education, Pondicherry University, Puducherry, India from August 2012 to May 2016. (Completed and awarded Ph.D. Degree in 2017)
- Joined as Assistant Professor in Indira Gandhi National Tribal University, Amarkantak, India on 11 May 2016 till date continuing as Assistant Professor Level - 11

## TEACHING EXPERIENCE

- Working as Assistant Professor (Level – 11) in Indira Gandhi National Tribal University, Amarkantak, India from 11 May 2016 till date.
- Worked as Assistant Professor in Education, Vivekananda College of Education, Lawspet, Puducherry affiliated to Pondicherry University from December 2009 to August 2012.
- Worked as Post Graduate Teacher in Blessed Mother Theresa Model Higher Secondary School in Puducherry from October 2005 to March 2007

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## List of Publications/ Research Outcomes (Last Five years):

Published the following research papers:

- 1) A research paper titled **“Constructivist, Objectivist and Cognitivist Instructional Design Strategies for improving pedagogical practices in Teacher Education: A Blended Learning Approach”** in National Journal Quest, Kumaun Central University, Nainital, ISSN: 0974-5041. Vol. 7, Issue. 3, September 2013, Pp. 249 - 255.
- 2) A research paper titled **“Transforming Pedagogy through Social Learning Platform. A Blended Learning Approach”** in International Journal of Management and Social Science Research Review (IJMSRR), ISSN 2349-6738 Volume 1, Issue: 14, August 2015, pp. 360 – 366.
- 3) A research paper titled **“Test item analysis and relationship between difficulty level and discrimination index of test items in an achievement test in teaching of Physical Science”** iManager’s Journal of Educational Technology, Vol. 12. No. 3. October – December 2015, pp. 30 – 36.
- 4) A research paper titled **“Influence Of Blended Learning Programme On Academic Achievement Of Student Teachers”** is published in Indian Journal of Society and Politics, ISSN: 2348-0084 (Print). Vol. 04(02) : 2017
- 5) A research paper titled **“Perception And Satisfaction Of Student Teachers Towards Blended Learning Programme”** is published in Shodh-Prakalp, ISSN – 2278-3911, Vol LXXX, July - Sep, 2017, pp. 17-21.
- 6) A research paper titled **“Perception Of Student Teachers Towards Blended Learning Programme”** is published in Journal of innovation in Education & Psychology, ISSN – 2249- 1481, Vol: 06 No. 10, March, 2017, pp. 5 - 9.
- 7) A research paper titled **“Improving Student Teachers’ Perceptions on Technology Integration Using a Blended Learning Programme”** is published in iManager’s Journal of Educational Technology. DOI:10.26634/jsch.13.2.13829 Vol: 13 No 2, September – November 2017, 31-42.
- 8) A research paper titled **“Depleting the Usage of Plastics to Enhance the Agricultural Land. An Attitudinal Study for Sustainable Generation”** is published in Asian Journal of Education and Social Studies 12(2): 1-6, 2020; Article no. AJESS.62400 ISSN: 2581-6268 <https://doi.org/10.9734/ajess/2020/v12i230305>
- 9) A research paper titled **“Online Learning at the Time Of Covid 19: Pre-Service Teachers Reflections”** published in journal Psychology And Education (2020) 57(9): 4798-4805 ISSN: 00333077

- 10) A research paper titled “**Assessing Pre-Service Teachers Knowledge towards Agronomy skills and Irrigation system. A study for self-sustainability**” is published in Journal of Xi'an Shiyou University, Natural Science Edition ISSN : 1673-064X
- 11) Published a research paper titled “**Improved pedagogical practices strengthens the performance of student teachers by a blended learning approach**” in Social Science and Humanities Open 4 (2021) 100199 Elsevier [www.sciencedirect.com/journal/social-sciences-and-humanities-open](http://www.sciencedirect.com/journal/social-sciences-and-humanities-open)
- 12) Published a research paper titled “**Online schooling at the time of COVID-19: Perception of students and parents of Chirang district of Assam**” in Shodh Sarita UGC Approved Care listed journal, Volume 8, Issue 29, January to March 2021. 174-179 ISSN 2348-2397
- 13) Published a research article titled “**E- Portfolio: A tool to Enhance Constructivist Online Learning Environment (COLE) in Higher Education**” in Asian Journal of Organic & Medicinal Chemistry (AJOMC) 6 (4) October to December 2021 UGC Care approved Journal. ISSN Online: 2456-8937 pp 355 – 360
- 14) Published a research paper titled “**CuS Nanoparticles Trigger Sulfite for Fast Degradation of Organic Dyes Under Dark Condition**” published in ACS Omega on January 27, 2022. <https://doi.org/10.1021/acsomega.1c05697> 7(5) pp 4140–4149 ISSN 2470-1343
- 15) Published a research paper titled “**Incorporating research literature and chemistry textbooks in 5E instructional model to reveal ambiguous oxidation state formalism of CuS for pre-service science teachers**” published in DE GRUYTER, Chemistry Teacher International on March 22, 2022. <http://doi.org/10.1515/cti-2022-0001> 4(1): 103–115
- 16) Published a research paper titled “**Restrictive Academic Well-Being in Deprived Tribal Schools of Madhyapradesh and its Impact on Quality Learning Competencies an Analysis by Six Sigma Method**” published in International Journal of Special Education Vol.37, No.3, 2022, ISSN: 0827-3383
- 17) Published a research paper titled “**Identification And Analysis of Contemporary Teaching Practices of Pre-University teachers in Karnataka**” in Stochastic Modeling & Applications. Vol. 26 (3) (January- June, Special issue 2022 Part -2) UGC Care Approved Journal ISSN: 0972-3641.
- 18) Published a research paper titled “**New Education Policy 2020 Dropout Rate and Universal Access to Education**” in Mekal Mimsa Inter- Disciplinary Double Blind Peer Reviewed UGC Care Listed Half Yearly Research Journal Year-14. Issue 01. Azadi Ka Amrit Mahotsav Special Issue, Jan – June 2022. ISSN – 0974-0118. 37 -46.
- 19) Published a research paper titled “**Enriching E-Learning at the time of ongoing Covid -19 by employing E-Portfolio as an E-Assessment tool in Higher Education**” in Research and Reflections on Education ( A Quarterly Journal ) UGC care approved journal. June 2022, ISSN 0974-648X. 20-25
- 20) Published a research paper titled “**Design and Development of Wisdom APP for Learning Science**” in International Journal of Education and Allied Sciences (IJEAS) Dec. 2021, Volume 13, No. 1, pp. 93-111, ISSN-0975-8380
- 21) Published a research paper titled “**Awareness of e-portfolio applications amongst Student Teacher in Educational Institution**” in Education and Society ( UGC Care listed Journal, The Quaterly dedicated to Education through Social Development and

Social Development through Education. April- June 2023 Year: 46, Issue-3/ Volume-II, ISSN- 2278-6864, pp 251-271

22) Published a research paper titled “ **Student Teachers Perception towards the Self-Blend Model of The Blended Learning Approach**” in Indian Journal of Educational Technology Volume 6, Issue 1, January 2024 ( UGC Care listed Journal) Central Institute of Educational Technology, National Council of Educational Research & Training ISSN 2581-8325, pp 11-25

23) Published a research paper titled “ **Evolving Environmental Concerns on E-Waste Management for Sustainable Well-Being Among Higher Education Students**” in The International Journal of Education and Allied Science (IJEAS), July 2024, Volume 16, No. 1, ISSN: 0975-8380, pp 1-16

24) Published a research paper titled “ **Theoretical Foundation of Gamification in Education: Emerging Trends and innovation in Game-Based Mechanics**” in International Journal of Creative Research Thoughts An International Open Access Peer reviewed Referred Journal. 2025, ISSN: 2320-2882, 13(3), 709-716

25) Published a research paper titled “**Navigating Prospective Teacher's Attitude Towards Blended Learning Approach in Inclusive Classroom**” in Interdisciplinary International Journal of Advances in Social. Sciences Arts and Humanities 2025-06-01, DOI: [10.62674/IJASSAH.2025.VII3.003](https://doi.org/10.62674/IJASSAH.2025.VII3.003), 1(3), e- ISSN:3049-0480

26) Published a research paper titled “ **Latent Structure. Analysis of Gamified Learning Ecosystems: Modeling Mediated and Moderated Effects on Learning Motivation through Structural. Equation Modeling**” in Studies in Science of Science, 22 June 2025, Vol 43, Issue 06. ISSN: 1003-2053, Paper ID SSS-25182

27) Published a research paper titled “ **Gamification as a Catalyst for Transforming School Policies and Practices**” in Educational Administration Theory and Practice 2024, 30 (6), ISSN: 2148-2403. Pp- 10394 Doi: 10.53555/kuey.v30i6.10394

### **Chapter in Books**

1. A research paper titled “ **Integrating Blended Learning Approach in Teaching and Training Programme for Improving Pedagogical Practices in Teacher Education**” is published in Book Title *ICT in Education* with ISBN 978-93-87460-07-2, APH Publishing Corporation, New Delhi, pp – 29- 37.
2. *A research paper title “Developing Learning Community through Blended Learning Approach” is published in Book Title; Teacher Education Issues and Challenges APH Publishing Corporation, New Delhi ISBN; 9789387460324*

3. A research paper title “**Essential Teaching Competencies for successful Blended Learning Environment**”. Book Title: *Quality Teacher Education* Dimapur Publishing Company ISBN; 9789352794737
4. A research paper title “**Educational development of scheduled Tribes in Madhya Pradesh**” Book Title: *Tribal Communication: Myths, Metaphores and Reality*, ISBN: 978-81-937906-9-4, Isha Gyandeeep, New Delhi, 2019, pp.434-440
5. A research paper title “**COVID-19 Pandemic: Perpetuate personal hygiene is a challenging issue for indigenous people**” is published in book title *Coronavirus ( Covid -19): pushes online learning*, LAP LAMBERT Academic Publishing, Mauritius, 2020, ISBN: 978-620-3-04162-0, pp 266-272.
6. A research paper title “**E-Portfolios: An Innovative Online Learning Tool for Personal and Professional Development in Higher Education**” published in book title *Novel Coronavirus Disease-19: Unmasking The New Face Of Education*, H.S.R.A PUBLICATIONS, Bangalore, ISBN 978-93-90415-47-2, 2020, pp-162-178.
7. A research paper title “**E-Portfolios: An Innovative Pedagogical Approach to Develop Employability Skills in Higher Education**” published in book title *Contemporary Social Science Researchs in Indian Universities- Pedagogical and Techno-pedagogical interventions*, Geetanjali Nangia, Ashish Books, Ansari Road, New Delhi, 2022, pp- 151-159
8. **Published** a research paper titled “**Culture and Gender Role: Ideology of Individualism and Collectivism**” in book title *Gender Stereotype Equity and Equality* by Pathak Publisher and Distributors Delhi (India) ISBN 9789391952389, 2022, pp – 102-109
9. A research paper title “ **Constructivist pedagogical approach for strengthening self-developed employability skills through an e-portfolio**” published in book title *Constructivism in Teaching and Learning* Selected papers presented at international Conference on Constructivism in teaching and learning (ICCTLFDL – 2022), 13-14 Oct 2022. Pondicherry University, Puducherry: PU, 2022. XXV, 1- 306; 24x16 cm ISBN: 978-93-5768-275-6. Pp 295- 302
10. A research paper title “ **Improving the self-awareness towards E-waste Management through Blended. Learning approaches in secondary school students**” published in book title *Constructivism in Teaching and Learning* Selected papers presented at international Conference on Constructivism in teaching and learning (ICCTLFDL – 2022), 13-14 Oct 2022. Pondicherry University, Puducherry: PU, 2022. XXV, 1- 306; 24x16 cm ISBN: 978-93-5768-275-6. Pp 158-166
11. **Published** a research paper titled “ **E-Waste – A Gradual National Crisis for India**” in book title *Disaster Risk Reduction Teaching Environmental Concerns*, Edited by Dr. M. Rajendra Nath Babu, published by Shipra publications, Delhi.2022. ISBN: 978-93-91978-32-7. Pp 61-74.

**Lecture delivered**

1. Delivered a lecture as Resource Person on title “**Teaching Drug Discovery and Development : A Translational Research**” during National level e - Faculty Development Programme on “Exploring the novel Pharmaceutical and Biotechnological concepts in the process of Drug Discovery and Development“ organized by Bharat Institute of Technology in association with Indira Gandhi National Tribal University, Amarkantak from June 22nd to 26th 2021.
2. Delivered a lecture as Guest of Honour on title “ **National Education Policy- 2020 in the realm of Rural Colleges of Assam**” in connection with “National Education Day” on 11<sup>th</sup> November, 2021 organised by Bijni College, Assam.
3. Delivered a lecture as a Resource Person on Title “ **Probability Sample Techniques** on 14<sup>th</sup> July 2022 in the Five Days workshop on Research Methodology organized by Faculty of Education, IGNTU Amarkantak from 11 July 2022 to 15 July 2022.
4. Delivered a lecture as a Resource person on title” Blended Learning Approaches in Higher Education” on 23-11-2023 in the NEP 2020 Orientation and Sensitization Programme on Information and Communication Technology (Training Programme ID: MMC-061-2023-NOV-B-00432) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grant Commission (UGC) organized by Malaviya Mission Teacher Training Centre, Indira Gandhi National Tribal University, Amarkantak (MP) during 23-30 November 2023.
5. Delivered Two sessions lecture as a Resource person on title “ Holistic and Multidisciplinary Education” for the Malaviya Mission Teacher Training Programme (MMC-067-2023-DEC-B-00616) on 20-12-2023. W.e.f. 11<sup>th</sup> - 22<sup>nd</sup> December, 2023, organized by the University Grant Commission (UGC) organized by Malaviya Mission Teacher Training Centre, North Eastern Hill University, Shillong.
6. Delivered a lecture as a Resource person on title “**Student Diversity**” on 16-02-2024 in the NEP 2020 Orientation Programme for Teachers of HEIs (Training Programme ID: MMTTC/IUCTE-TRG/2024) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grant Commission (UGC) organized by Malaviya Mission Teacher Training Centre, Inter-University Centre for Teacher Education- Regional Institute of Education (NCERT) during 12-22 February 2024
7. Delivered a lecture as a Resource person on title “**Inclusive Education**” on 19-02-2024 in the NEP 2020 Orientation Programme for Teachers of HEIs (Training Programme ID: MMTTC/IUCTE-TRG/2024) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grant Commission (UGC) organized by Malaviya Mission Teacher Training Centre, Inter-University Centre for Teacher Education- Regional Institute of Education (NCERT) during 12-22 February 2024
8. Delivered a lecture as a Resource person on title “**E-Portfolio as a Self-Regulated learning Tool in Higher Education**” on 28-05-2024 in ICT Applications in Evaluation and Assessment. From 25-05-2024 to 31-05-2024 through online mode organized by Malaviya Mission Teacher Training Centre (Training Programme ID: Lr. No. IGNTU/MMTTC/2024/356), Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh.
9. Delivered a lecture as a Resource person on title “**Innovative Teaching skills: Blended Learning Approach**” on 24-07-2024 in Refresher Course in. Multilingualism and Curriculum Development ( Interdisciplinary). From 19-07-2024 to 27-07-2024 through

- online mode organized by Malaviya Mission Teacher Training Centre (Training Programme ID: Lr. No. IGNTU/MMTTC/2024/551), Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh.
10. Delivered a lecture as a Resource person on title “**Gamification in Education**” on 29-08-2024 in NEP Orientation and Sensitization programme. From 16-08-2024 to 31-08-2024 through online mode organized by Malaviya Mission Teacher Training Centre (Training Programme ID: Lr. No. IGNTU/MMTTC/2024/636), Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh.
  11. Delivered a lecture as a Resource person on title “ **Transforming Education: Innovative Strategies for Engaging Students** ” on 4<sup>th</sup> October 2024 online mode organized by School of Pharmacy, Anurag University, Hyderabad on two days workshop on Latest Teaching Methodologies scheduled from 3<sup>rd</sup> October to 4<sup>th</sup> 2024.
  12. Delivered a lecture as a Resource person on title “**Micro Teaching Skills**” on 6-11-2024 in Faculty Induction Programme ( Guru Dakshata) Scheduled From 01-11-2024 to 30-11-2024 through online mode organized by Malaviya Mission Teacher Training Centre (Training Programme ID: Lr. No. IGNTU/MMTTC/2024/982 ), Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh.
  13. Delivered a lecture as a Resource person on title Innovative strategy as Gamification and Blended Learning” 5-4-2025 NEP orientation and sensitization Programme organized by Malaviya Mission Teacher Training Centre (Training Programme ID: Lr. No. IGNTU/MMTTC/2025/636), Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh.
  14. Delivered a lecture as a Resource person on title EMBRACING DIVERSITY: ADVANCING EDUCATION THROUGH INCLUSIVE TEACHING on 12-06-2025 organized by Malaviya Mission Teacher Training Centre (Training Programme ID: Lr. No. IGNTU/MMTTC/2024/2439), Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh.

### **Book Publication**

1. **Published an edited book titled “ Women and Culture” by Pathak Publisher and Distributors Delhi (India) August- 2022. ISBN- 978-93-91952-45-7**
2. **Published an edited book titled “Gender Stereotype Equity and Equality” by Pathak Publisher and Distributors Delhi (India) August- 2022, ISBN 978-93-91952-38-9.**
3. **Published an edited book titled “ Skill Development in Higher Education” by Manglam Publications Delhi-110053 (India), 2023. ISBN: 978-81-963658-7-5.**
4. **Published an edited book titled” Perspectives in Higher Education” by Manglam Publications Delhi-110053 (India), 2023. ISBN: 978-93-91193-84-3.**

### **PhD Guidance**

1. Guided and awarded Eliwon Thiumai (1801353003) from 27-09-2018 to 29-05-2023 on broad area Educational technology on title “Effect of e-Portfolios on Attainment and Perception of Employability Skills Among Post-graduate Students of Manipur State”.
2. Guiding Paramesh Roy from 2021 on title “ Teaching e-waste management for sustainable development using blended learning approach”.
3. Guiding Kumari Dipti from 01-06-2023 on the title “ Impact of Gamification on Learning Retention and Student Engagement in Physics among Secondary School Students”.

### **M.A Education Guidance**

1. **Guided Jyotika Basumatary 1901227009 from 2020 to 2021 “Parents’ and Students’ Perception towards Online Classes during the period of Covid-19 of Chirang District of Assam”.**
2. **Guided Dali Bhera 20012207001 from 2021 to 2022 “ Impact Of Mid Day Meal Programme On Academic Achievement Of Primary School Students Of Agalpur Block In Odisha”.**
3. **Guided Anjita Basumatary 2101227001 from 2022 to September 2023 on title “A Qualitative Case Study To Examine The Job Satisfaction Of Secondary School Teachers Of Chirang District Of Assam State”**

### **Projects completed**

1. **Agronomy Based Skill Training For Student Teachers- A study of Attitudinal changes towards Self sustainability?” was sanctioned Under ICSSR- IMPRESS project scheme, for the budget of Rs. 600000/-File No. IMPRESS/P1663/0191/2018-19/ICSSR. On 11<sup>th</sup> March 2019**
2. **“Socio - Economical And Lingual Constraints Of Tribal School Students And Its Impact On Quality Learning Competencies – An Analysis By Six Sigma Method”was sanctioned Rajya Shiksha Kendra, Bhopal project scheme, for the budget of Rs.90,000/-. 1. Lr.No. Office of the Director/RSK/2357 dated 29/06/2018**

### **Orientation and Refreshers courses attended**

1. Participated and completed **Refresher Course in Education and Teaching Methods** organized by UGC- HRDC University of Kerala, Trivandram 07-03-2018 to 27-03-2018
2. Participated and completed **Orientation Course** organized by UGC- HRDC Guru Ghasidas Vishwavidyalaya University, Bilaspur from 10-06-2019 to 29-06-2019
3. Participated and completed online 5 days National Workshop on Research Methodology organized by Faculty of Education IGNTU Amarkantak from 26 to 30 May 2020.

4. Participated and completed Two week Capacity Building Programme on Research and publication ethics from 15 to 28 June 2021. And Obtained A+ Grade. Organized by department of tourism and management IGNTU.
5. Participated and completed **Refresher Course in Teacher Educator** organized by UGC- HRDC University of Mysore, Manasangotri from 12-01-2022 to 28-01-2022
6. Participated and completed **Online Refresher Course on Experiential learning and Skilling in Higher Education (Interdisciplinary)** organized by UGC- HRDC Guru Ghasidas Vishwavidhyalaya , Bilaspur from 31-07-2023 to 12-08-2023 (**Reg. ID: S26072023121348 Certificate No: 56/20**)
7. Organized ICSSR sponsored two days National seminar on Reflection of Indian Knowledge system In Digital Era on 28<sup>th</sup> and 29<sup>th</sup> November 2024 as a Convener in Faculty of Education at Indira Gandhi National Tribal University, Amarkantak.(Rs.200000/- funded by ICSSR and Rs. 50000/- Matching Grant by IGNTU )

### **MOOC Courses**

- **Has Successfully completed the *University of London Online Short Course Offering of Understanding Research Methods conducted by Coursera on 27<sup>th</sup> July 2014.***
- **Participated and completed an Online non-credit Course authorized by University of Florida and offered through Coursera“ Personality types at Work” on 22- 05-2018.**
- Participated and completed an Annual Refresher Programme In Teaching on the topic *Latest Trends in Pedagogy and Assessment (ARPIT) 2019*