



LEO MENDEL D. ROSARIO

Assistant Professor and Program Chair

University of the Philippines Open University (UPOU)

1. Academic Leadership

- Serves as Assistant Professor and Program Chair of the Diploma/Master of Research and Development Management at UPOU, providing academic leadership in research management education.
- Coordinates the Adaptive Research-Innovation Systems and Environments (ARISE) program, advancing institutional capacity for innovation systems.
- Engages in capacity-building and training initiatives with higher education institutions and national government agencies, strengthening R&D management practices.
- Associate Member of the UNESCO Chair on Responsible Foresight and Sustainable Development, contributing to international academic and policy dialogues.

2. Specialized Expertise

- Holds a PhD in Physics (Experimental Plasma Physics/Image Processing) from the University of the Philippines Diliman (2017), with earlier degrees in Physics (MS, 2009; BS Applied Physics, 2005).
- Completed a Diploma in Research and Development Management at UPOU (2020), awarded Special Program recognition by FMDS.
- Expertise spans plasma physics, image processing, research productivity, AI adoption in scholarly publishing, micro-credentialing, and gender perspectives in academic research.
- Recognized as a Fellow of the Leaders in Innovation Fellowship Program (Royal Academy of Engineering, UK & AIM, 2019) and participant in Aus4ASEAN Short Course on Skills Forecasting for the Fourth Industrial Revolution (DFAT Australia & Griffith University).

3. International Representation

- Represents UPOU and the Philippines in international research and foresight initiatives, including UNESCO networks.
- Reviewer for multiple Scopus-indexed journals and international publications, ensuring scholarly rigor across disciplines.
- Active in global conferences, presenting 80+ papers and contributing to dialogues on sustainable development, innovation systems, and higher education.

4. Research Productivity & Editorial Works

- Authored 25 journal publications, 1 book chapter, 49 conference papers, and 2 utility models, with an h-index of 8 and 294 citations.

- Research outputs include plasma diagnostics, food safety applications of plasma technology, AI in higher education, and systems approaches to flood resilience and food loss.
- Editorial roles include Area Editor for International Journal of Open and Distance e-Learning (IJODEL) and Editor for Journal of Aeronautics and Aviation Studies (JAAS).
- Serves as reviewer for over 20 journals and book series, including IEEE Access, Philippine Journal of Science, Frontiers in Education, and Agenda: Empowering Women for Gender Equity.

6. Engagement in Policy & Practice

- Co-authored policy briefs such as Accelerating Innovation: A Policy Framework for the University of the Philippines Spin-offs (UP CIDS, 2026).
- Writes op-eds in national media (Rappler, Philippine Daily Inquirer) on technology innovation and sustainability.
- Provides consultancy and training for R&D organizations, focusing on risk management, innovation systems, and sustainability frameworks.
- Actively bridges academic research with national development priorities, embedding foresight and systems thinking in policy innovation and practice.