

## **Dr. Ramith Ramu – Visiting Professor at Nicolaus Copernicus University, Poland**

Dr. **Ramith Ramu**, **Associate Professor**, Department of Biotechnology & Bioinformatics, JSS Academy of Higher Education & Research (JSS AHER), Mysuru, was awarded **18,512 PLN (₹4,15,000/- INR)** under the *Call for Professors Incoming to the Nicolaus Copernicus University in Toruń, Poland*, as part of the “**Excellence Initiative – Research University**” (IDUB) programme. This award was granted following his successful submission in the **11th edition of the Mobility Competition**, which aims to promote the internationalisation of scientific research and education at NCU.

As part of this programme, Dr. Ramith undertook a **Visiting Professorship at the Department of Physical Chemistry, Faculty of Pharmacy, Collegium Medicum, Nicolaus Copernicus University (NCU), Bydgoszcz, Poland**, from **28 July to 17 August 2025**.

The visit commenced on **28 July 2025** with a **scientific seminar** organized at the Department of Physical Chemistry. Dr. Ramith delivered a **monographic lecture** on the application of **computational methods in the study of biologically active compounds**. Faculty members of the department also presented their research, leading to meaningful discussions and the proposal to co-author a **joint review article** on **deep eutectic systems** and **natural bioactive compounds** such as fermentation-derived products and phenolic acids.

Between **29 July and 17 August 2025**, Dr. Ramith engaged in **research activities** utilizing the department’s computational infrastructure. His work focused on **molecular modelling techniques** to explore intermolecular interactions and structural features of peptides, proteins, and fermentation-derived compounds. He also contributed to the conceptual refinement and development of a **collaborative project on diabetic nephropathy**, integrating computational insights for future publication.

Beyond his primary work at Bydgoszcz, Dr. Ramith expanded his academic engagements through interdisciplinary interactions across other NCU departments:

- On **11 August 2025**, he visited the **Department of Microbiology (Bydgoszcz)**, where he held an in-depth scientific meeting with **Dr. Krzysztof Skowron** and **Dr. Katarzyna Grudlewska-Buda**. He delivered a lecture on **microbial peptides, host–pathogen interactions, and computational approaches in antimicrobial discovery**, opening potential collaboration in **bacterial metabolites and therapeutic bioactives**.
- On **13–14 August 2025**, he visited the **Faculty of Chemistry, Toruń campus**, at the invitation of **Professor Alina Sionkowska**. He delivered a seminar titled “*Structure–Activity Relationship of Bioactive Peptides and Molecular Modelling Approaches in Drug Discovery*”, presenting research on **biopolymers, peptide therapeutics, and**

**computational chemistry.** The visit led to promising discussions on joint research in **biomaterials, wound healing, and natural product chemistry.**

These academic activities across Bydgoszcz and Toruń significantly enriched the scientific outcomes of the visit and aligned with the goals of the **IDUB programme.** The visit strengthened institutional ties between **JSS AHER and NCU**, laying the foundation for **sustainable international collaborations** in biotechnology, pharmacy, chemistry, and interdisciplinary biomedical sciences.



*Dr. Ramith Ramu, Associate Professor, JSS AHER, during academic engagements with scholars and faculty members of Nicolaus Copernicus University, Bydgoszcz and Toruń (July–August 2025)*

