

## SRI VENKATESWARA INTERNSHIP PROGRAM FOR RESEARCH IN ACADEMICS (SRI-VIPRA) 2022: An Overview

*'Tis not too late to seek a newer world.*

Alfred Lord Tennyson, Ulysses

Our journey with the SRI-VIPRA Internship Program in 2022 began with tremendous enthusiasm, involving 50 diverse projects, 66 dedicated faculty mentors, and a cohort of 334 undergraduate student interns. It is with immense pleasure that we announce the successful conclusion of SRIVIPRA 2022, with all 50 project reports being submitted. This remarkable achievement is a testament to the hard work, dedication, and collaborative spirit of our entire community—both mentors and students alike.

In the midst of our demanding commitments to teaching, research, and administrative tasks, we came together to make this academic collaboration a resounding success. It's a moment to celebrate not only our accomplishments but also the incredible efforts of the 334 student participants who played a pivotal role in making this endeavor possible. Their curiosity, innovation, and hard work have truly enriched the program.

We extend our heartfelt gratitude to Principal Prof. C. Sheela Reddy, and IQAC Co-ordinator Prof. Swarn Singh for their unwavering support and encouragement throughout this journey. Additionally, we would like to acknowledge our colleagues at ICT for their continuous support and contributions.

As we reflect on the diverse and fascinating themes pursued as part of the SRIVIPRA projects in 2022, it's clear that this program has provided a platform for exploration, discovery, and academic growth. The collaborative spirit and commitment to knowledge exhibited by our community have undoubtedly contributed to the program's success. Thank you all for your invaluable participation in this exceptional academic exercise.

In 2022, SRIVIPRA embarked on a diverse range of research projects, exemplifying the institution's commitment to exploring cutting-edge themes across multiple disciplines. These projects spanned a wide spectrum of topics, addressing both contemporary concerns and frontier technologies. Some projects delved into the immunomodulatory role of hormones and neuropeptides, unraveling the complex interplay between these molecules and the immune system. A set of students explored the genomics and proteomics of Dengue and Zika virus. Meanwhile, others scrutinized the allergenicity profile of pollen grains, contributing to our understanding of environmental allergens and their impact on public health. DNA barcoding of medicinal plants was another avenue of exploration, aiding in the identification and conservation of vital botanical resources. Cancer bioinformatics added new views of studying oncology.

Sustainability was at the forefront with projects on green synthesis of nanoparticles and nanosponges for water treatment, showcasing the institution's dedication to eco-friendly technology. Water quality on campus was rigorously studied, aligning with environmental stewardship principles. Microplastics, a growing environmental concern, were investigated for their presence in water bodies and their potential impact on aquatic ecosystems. Organic chemistry enthusiasts explored cross-coupling reactions, while projects focused on developing skills and attitudes required for success in various industries.

The intersection of consumer behavior and ethical marketing was explored, shedding light on evolving dynamics in the business world. Financial projects delved into risk tolerance in decision-making, the Insolvency and Bankruptcy Code 2016, and the Black-Scholes model. While one of the project focused on productivity of Parliament, another attempted a assessment of Pradhan Mantri Garib Kalyan Anna Yojna (PMGKAY). While the challenge posed by QUAD to multilateralism kept one group pre-occupied, yet another explored links between exchange rates and capital flows in developing economies.

In the realm of technology, researchers worked on app designing using MATLAB and delved into unmanned aerial vehicles. Behavioral ecology and biodiversity conservation were critical subjects, and mathematics and machine learning converged for biomathematical challenges. The projects were as diverse as they were intriguing, encompassing areas such as viroinformatics, neuromarketing, comparative calorie intake estimation, reading the Anthropocene and on Dada Lakhimchand's people's theatre, neuromarketing, multilateralism and quad

Throughout these projects, SRIVIPRA continued to emphasize the development of research skills and a commitment to exploring and addressing pressing issues across various fields.

Thanking one and all for the great success of SRIVIPRA 2023.

Sharda Pasricha

Krishnakumar S

Co-ordinators, SRIVIPRA 2023-24