i. ICSBCADD'2022:

Department of Bioinformatics organized five days International Conference cum Workshop on **"*Recent Trends in Structural Bioinformatics and Computer Aided Drug Design*"** ICSBCADD'2022 from 21st November to 25th November 2022. 38 distinguished scientists and eminent academicians from across India and countries like the USA, Singapore, Taiwan, and Japan participated. More than 200 participants from various countries across the world attained knowledge in Computational and Experimental Methodology regarding the problems in the healthcare sector which promotes a better understanding of biomolecular structure for the discovery of potent drugs against various diseases. It helped participants to develop technical proficiency in handling computational tools to respond to biological issues in the areas of Structural Biology, Structural Bioinformatics, Computer-Aided Drug Design, Database development, Pharmacogenomics, Computational Genomics and Proteomics. It equipped the students and faculties to interact with renowned Scientists/ Experts in the above areas.

Each session focused on topics such as "Structural Biology in terms of advancements in synchrotron radiation and Cryo-EM with more emphasis on membrane proteins and the catalytic reactions of the enzymes". It was followed by a series of talks on "Bench to Bedside: On drug Discovery". In addition, the lectures were on topics such as "how bioinformatics transforms the patient care in terms of drug development and biomedical applications" and "the significant involvement of Machine Learning and Artificial Intelligence in drug development process".

The hands-on training was given by the Schrodinger team to the participants in the areas of molecular modelling and drug discovery in our workshop. Schrodinger team explained the techniques to access the software step by step to develop novel medicines for critical public health needs. More than 200 participants and students acquired knowledge with hands-on work experience in drug discovery. This five-day-long interface has undoubtedly thrown up challenges, illuminating ideas, fresh insights and alternative ways of thinking about the competitive yet cooperative combat that the world of computational identification of compounds that have the potential of becoming better drugs than the existing ones is itself more fascinating.