



VISWANADHA INSTITUTE OF PHARMACEUTICAL SCIENCES

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Approved by PCI & AICTE - New Delhi and Affiliated to JNTUK, Kakinada.

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Workshop: Zonal centre program in association with Makeinturn & Ecell IIT Kharagpur on topic
“Drug Discovery – Designing & Development”

Date: 14th - 16th February, 2019

Venue: Seminar hall, Viswanadha Institute of Pharmaceutical Sciences, Visakhapatnam.

Organized by: Viswanadha Institute of Pharmaceutical Sciences, Visakhapatnam

Speaker: Mr. Jitesh Doshi, Bioinformatics Analyst & Developer

Drug Design, normally particular to as judicious medication outline or simply reasonable plan, is that the innovative strategy for finding new medicines upheld the information of an organic sciences target. This session includes a wide range of theoretical and practical aspects which will help students in their Career development programs.

14.2.19 Day 1 - Session 1

Theory: Computational Drug Design and Strategies (2h)

Structure Based and Ligand Based Drug Design (2h)

Day 1 - Session 2

Demo and Practice: Visualization of biomolecules with Chimera and Pymol Computer aided drug design and their different types were explained. It includes selection of disease, drug molecule and representation of different forms of drug molecules using Marvin sketch.



Afternoon practical session

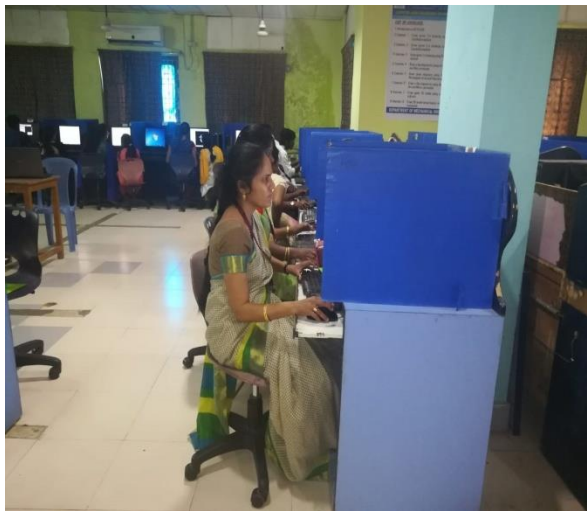
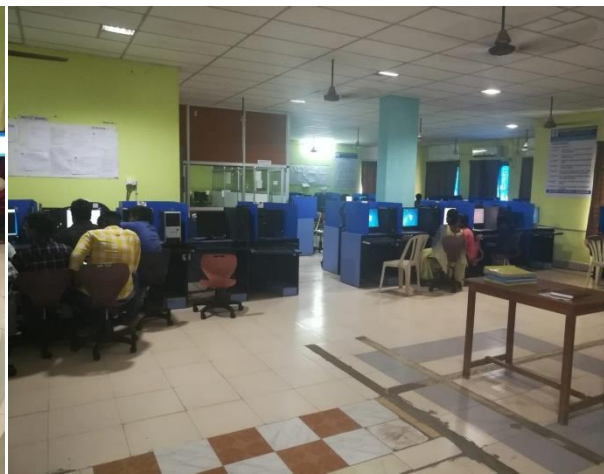
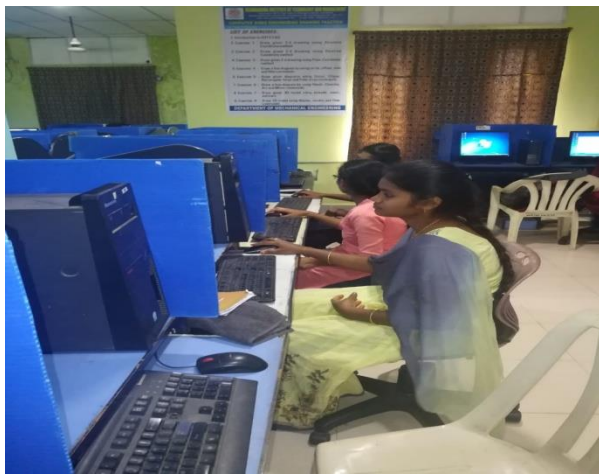


15.2.19 Day 2 - Session 1

Theory: Molecular Modeling Strategies (Homology modeling, threading and *ab initio* modeling)

Day 2 - Session 2

Demo and Practice: Homology Modeling with Modeller



16.2.19 Day 3 – Session 1

Theory: Molecular Docking Simulations – Principles, Virtual Screening

Day 3 – Session 2

Demo and Practice: Molecular Docking with Autodock

Third day includes identification of targets interaction studies between drug and target through molecular docking. Simulation of molecular dynamics and various tools available for docking are explained.

Valedictory function and Certification:

Total 56 students and faculty members were participated in the workshop from all over Andhra Pradesh. On 3rd day online test was conducted based on the previous sessions. Top five merit students were awarded with merit certificates. All Participants would be awarded with the Certificate of Participation, Coordination and Merit.





MERIT PARTICIPANTS List of merit participants

1. Dr. Purna Naga Sree (Faculty, Vignan Inst. Pharmaceutical Technology)
2. Mrs. K. Pushpa Rama Laxmi (Faculty, Viswanadha Inst. of Pharmaceutical Sciences)
3. Ms. G.L. Priyanka (M.Pharm. Student, Viswanadha Inst. of Pharmaceutical Sciences)
4. Ms. K. Nirupama (B.Pharm. Student, Viswanadha Inst of Pharmaceutical Sciences)
5. Mr. Bharat Kumar Jain (B.Pharm. Student, Viswanadha inst of Pharmaceutical sciences)



