Computer Aided Drug Design

Course Abstract

Drug discovery and development is a time consuming and expensive process., taking about 10 years and costing about US 1.0 B dollars. Several candidates that enter clinical trials fail because of several reasons. Computer assisted drug design can speed up the process, reduce surprises and predict the properties, thereby reduce the cost of R&D. The course will cover structure and target based design, molecular modeling, quantum mechanics, drug likeness properties, QSAR and pharmacokinetic and dynamics using several softwares that are freely available.

The course if being provided by the NPTEL, IIT Madras. The Faculty, undergraduate and post graduate students can opt for this course, where is after appearing for exam they are being provided with the certificate.

https://nptel.ac.in/courses/102106070