

PHARMA QUEST

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**Shri Vile Parle Kelavani Mandal's
Institute of Pharmacy, Dhule**



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From the Desk of Principal

SVKM's Institute of Pharmacy, Dhule is one of the premier institutes in the region of North Maharashtra for quality education and has been progressing at an exponential rate since 2017. The ways we teach and the ways our students learn are unique and creative. The knowledge base and adaptability is high among today's students. The entire calendar of events was diligently followed with complete effective execution. Each festival and occasions of importance to pharmacists were celebrated in a big way. Many notable achievements have been recorded since then. These merits and credits have seldom been known to public and the authority due to the lack of showcasing or projecting through a medium. This E-bulletin is a medium which will bridge the gap between achievements and publicity.

Dr. Sameer Goyal

Form Editor

Dear Friends,

We, the Editorial committee have the great privilege to welcome our First E-Bulletin from SVKM's Institute of Pharmacy, Dhule. It highlights the events, activities academic skills achievements of the students and staff of this college and other updates in the field Pharmacy which are of common interest to the Pharma family. We extend our sincere thanks to our beloved Principal Dr. Sameer Goyal and all faculties for their valuable suggestions and encouragement for release this E-bulletin which will serve as a platform for today's pharmacists to share the knowledge and recent advances pertaining to the pharmacy profession. We are planning to publish this bulletin quarterly and we would very much welcome your input for each issue.

Best wishes....

Dr. Vijay Khedkar

Bio-automation in Drug Design and Discovery

Failure of the drug design and discovery increases the economic burden on researcher. The complex and an interdisciplinary drug design and discovery is long term and expensive process, that costs billions of dollars. The analysis of cost associated with drug discovery process in 2014 by Tufts Center for the Study of Drug Development showed the 150% increase in the last decade. The increased cost is mainly due to high failure rate during drug discovery and sometimes in clinical trials the candidate fails to get the FDA approval to reach the market. The failure in drug discovery process contribute the 75% cost of drug design and discovery project. Pharma companies are now looking for rejection of initial phase screening of non-drug like molecules. The application of robotic automation in biochemical processes reduces the materialistic requirement such as man power and biochemical material & can screen the thousands of molecules within short span of time. High throughput Virtual Screening used to avoid the screening of large number of ligands that involve the costly biological screening. Hence bio-automation got an attention in Pharma industries.

Computer Aided Drug Design helps to reduce the number of ligands which are going to be used for biological screening. In-silico or virtual screening of ligands gives the best or possible drug like candidate that should enter the preclinical or clinical studies. In addition to cost of the project the CADD also reduces the time or duration of drug design and discovery process. Various approaches such as Structure Based Drug Design, Ligand Based Drug Design, HTVS, QSAR, 3D QSAR, Molecular modeling & Molecular Dynamics Simulation are now used for the generation of more validated in-silico data. Certain CADD tools also predict the side effects, bioavailability, toxicities, alteration in the physicochemical properties or lead optimization of molecules etc. Thus from the drug design to lead identification and then lead optimization, CADD has the influential effect on development of new chemical entities.

Dr. Mohd. Usman Mohd. Siddique, Asst. Professor

Professional courses vs Conventional courses - The present scenario!

When students complete intermediate/ 12th, some of them think that it is better to choose professional courses than conventional one whereas some think that conventional courses increase the basic knowledge level. The conventional bachelor degree needs the students to study a wide variety of topics which are useful not just in professional life but are also in their personal life. They enable a person to think from different angles. The scope for a student in post graduate courses is wider if he passes out his graduation with a traditional degree. People usually choose between traditional and specialized courses with money as their yardstick. An advantage of professional courses is that students get practical exposure where students get to learn new things related to practical fields, they get to understand how an organization works. There exists a difference between quick earning and good earning. The choice of course should be based on interest in a particular subject and not its earning potential. Rather than wanting to start earning right after bachelor degree, the students should aim to specialize in their post-graduation and take up some paid internships, which will further help them to increase their value in the market. Although the Indian mentality leans towards how quickly can money be made while selecting the course to be pursued and the choice of course to pursue is personal depending on the long term goals, interest, potential, time factor and

Financial resources. In professional courses theoretical

knowledge is imparted to the students when compared with conventional courses. So in a hurry to start earning quickly, one may take up professional course, but a nearly bird need not necessarily fear for taking a conventional course.

Dr. Manoj Gadewar,

Asst. Professor

College Events



World Hepatitis Day (WHD) was celebrated on 28 July 2019 under the theme "Invest in Eliminating Hepaf World Hepatitis Day, the students of Third Year B. Pharm were participated in various activities by making the posters of hepatitis information. They gave awareness regarding hepatitis to all the teaching and non-teaching faculty of institute.

Faculties Achievement

- Dr. Sameer Goyal was invited as a resource person for two day's state level seminar on, "Clinical Trials-The Role of Pharmacy and Opportunity" on 8th and 9th Feb at Kai. Bhausahab Hiray Smarnika Samiti Trust's Institute of Pharmacy, Malegaon. He delivered talk on, "The Role, Opportunity and Challenges for Pharmacist in Clinical Trials".
- Dr. Girija B. Bhavar presented poster on topic entitled "Development and Validation of UV Spectrophotometric Method and High-Performance Thin-Layer Chromatographic Method for Estimation of Sofosbuvir in Pharmaceutical Formulation" in two days State level conference on "Recent trends in Spectroscopy and chromatography" sponsored by Savitribai Phule Pune University at Samajshri Prashantdada Hiray College of Pharmacy Malegaon, MS. Dr. Kiran Aher was co-authored.
- Dr. Sameer Goyal published research article entitled, "Disulfiram and Its Copper Chelate Attenuate Cisplatin-Induced Acute Nephrotoxicity in Rats via Reduction of Oxidative Stress and Inflammation in Biol Trace Elem Res.

2019 Mar 1. doi: 10.1007/s12011-019-01683. Impact factor: 2.361

- Mr. R. R. Wadekar published book entitled, "Natural Products: Commerce, Industry, and Regulations" Nirali Prakashan ISBN number: 938768614.
- Abdulla Sherikar and Dr. Sameer Goyal published a book chapter entitled, "Antioxidants and Antihypertensive Potency" Nova Science Publishers, Inc. USA
- Mr. Mahesh More published research article entitled, "Design and development of thiolated graphene oxide nanosheets for brain tumor targeting" in International Journal of Polymeric Materials and Polymeric Biomaterials. 2019 Apr 16:1-1. Impact factor: 2.127.
- Dr. Manoj Gadewar delivered a guest lecture at SNJB's Shriman Sureshdada Jain College of Pharmacy, Chandwad on topic Tissue Engineering and Regenerative Medicine on 10.4.19
- Dr. Aarti Belgamwar has presented research paper entitled, "Ayurveda in management of Neuro-AIDS" in Arogya Sangoshthi: An Exclusive International Seminar on Ayurveda for Lifestyle Disorders organized by NamoGange 7th edition Arogya Sangoshthi at New Delhi on 11th May 2019.
- Mr. Rajiv Junne has published research paper entitled, "Role of race and history in the identity formation in white teeth" in Literature Endeavor (ISSN 0976-299X) Vol X: Issue 2 (April 2019).

Students Achievements

- SY Students viz. Rupesh Ishi, Ujawal Sonawane and Rishikesh Mahajan had participated in atomic Energy Sponsored One Day National Symposium on "Radio-Pharmaceuticals Enhancement by Drug Delivery System" at ARA College of Pharmacy, Nagaon Dhule on 19th Jan 2019.
- Institute academic toppers of 2017-18 Ms. Payal Gajghate, Ms. Pradnya Jain and Ms. Rachi Agarwal were awarded with trophies.



Shri Vile Parle Kelavani Mandal's
Institute of Pharmacy, Dhule

Approved by AICTE, PCI, New Delhi, DTE (Govt. of Maharashtra), Mumbai, Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere and MSBTE, Mumbai

Courses Offered

B. Pharma (Intake100)

Silent Features

- Highly qualified and dedicated faculty
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- Air conditioned classrooms
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- Counseling to students for curricular activities



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