



GURUNANAK COLLEGE OF PHARMACY & GURUNANAK TECHNICAL INSTITUTE Nagpur

INDOCTRINATE



IQAC NEWSLETTER-13

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16 June 2016

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Technical Article

Dr. N. P. Sapkal
Professor

COMPUTERIZATION IN PHARMACEUTICALS

Since early 90s, the use of computer systems is constantly increasing in Life Sciences Industry. Now computerized systems have become the integral part of pharmaceutical manufacturing, testing, clinical research, sales & distribution, documentation, training, pharmacovigilance etc. The use of these systems has transformed the concept of these operations from manual to automated. Computer systems are increasingly reducing the time between the registration of a patent and product approval. Since use of computers results in more efficient operations at reduced cost with improved quality of services, so pharma and Life Sciences industries have adopted it wholeheartedly.

The pharma & Life Sciences industry is subject to GxP regulations such as the World Health Organization (WHO)'s resolution, European Union's Directives, Japanese Manual on Computer Systems, US Code of Federal Regulations, Australian Code of Good Manufacturing for Therapeutic Goods etc. In 1987, the FDA published a document entitled 'FDA Guidelines on General Principles of Process Validation'. It states that validation should be applied to any process including process managed / controlled by computer systems.

Keeping pace with the technological developments, all these regulatory agencies are regularly publishing evolved guidelines so that a control on these systems can be exercised. WHO in its 2007's supplementary annexure, EU in its Annex 11, US FDA in CFR 21, Part 11 have already included guidelines for the validation of computerized systems/electronic records. As the operations conducted by these automated systems do influence product quality, safety and efficacy thus, it is very important that these systems are fit for purpose from a business and regulatory perspective. To make the process harmonized amongst the manufacturers of countries across the globe organizations like ICH, PIC/S and ISPE came forward with the guidelines that provide detailed guidance in line with the quality management system requirements of all the regulatory agencies.

TYPES OF COMPUTERIZED SYSTEMS

Various software applications are available for different functions of pharmaceutical/life science industry. Examples of some of the software applications are given below:

ERP (Enterprise Resource Planning): This is vital business management software used to record, store, manage and interpret information related to:

- Purchase & Inventory Management
- Production Planning & Management
- Dispatch & Shipping
- Marketing & Sales
- Purchase orders & Payments

Number of ERP software are available commercially. To name a few are, BatchMaster™, SAP™, Syspro™, IBM OpenPro™, Oracle™, MARG™, SAGE™, Tally™ etc. ERP is an integrated tool that covers most of the activities done in pharmaceutical industry.

LIMS (Laboratory Information Management System): This software application is used for sample management, data recording, mining and analysis for all the analytical results obtained in laboratory tests. LIMS is used in all the Life Sciences industry both for commercial and research sample analysis laboratories. Some examples of commercially available LIMS software are Labware™, Maxim™, Darwin™, LanWorks™, Labware™ etc.

CTMS (Clinical Trial Management System): Siebel™, Allegro™, Bio-Optronics™, agClinical™, etc. are CTMS used to manage clinical trials of new drugs in humans. The system maintains and manages planning, performing and reporting functions, along with participant contact information, tracking deadlines and milestones. It is used by contract research organizations, pharmaceutical and biotechnology industries. Functions like randomization, trial supply management, electronic data capturing and maintenance of patient diaries facilitates the management of clinical trials effectively.

PV (Pharmacovigilance System): This software is used in pharmaceutical and biotechnology industries that are the marketing authorization holders of drug products. This software performs functions like collection of adverse events, their management, signal detection and reporting to regulatory agencies about the safety of drug products. Various commercially available software are, ARISg™, Ennov™, Oracle AERS™, Argus™, Clintrace™, PVNET™, RepClinical™ etc.

Apart from these activities various software are available to perform activities like, Document management, change control management and training management. Application of all the above listed software in routine working of Life Science industry has resulted in streamlining of the work flow and effective control on activities that leads to better compliance to the regulatory guidelines. Use of such software also results in minimum/zero errors. But error free working using computerized systems is only possible if these are properly validated as per the regulatory guidelines.

As per definition, Computer System Validation (CSV) is; "Establishing documented evidence which provides a high degree of assurance that a specific process will consistently produce a product meeting its predetermined specifications and quality attributes." This definition is widely adopted by all the regulatory authorities.

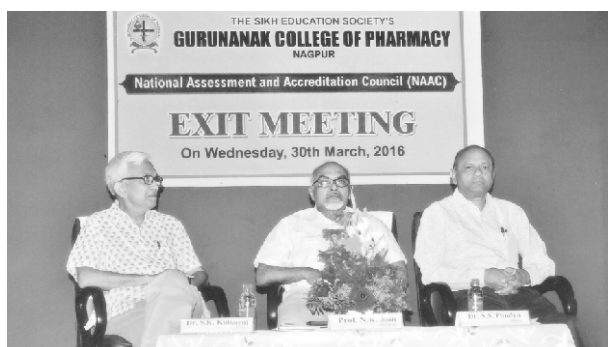
CSV is a systematic approach for the assessment, control, communication and review of risks associated with the use of computer systems that affect patient safety, product quality and data integrity. Ensuring compliance is the responsibility of regulated company which can be ensured through the proper knowledge of validation of these computerized systems.

● **NAAC PEER TEAM VISIT AND CERTIFICATION** ●

Gurunanak College of Pharmacy, Nagpur recently assessed by the National Assessment and Accreditation Council, New Delhi: an autonomous body of the University Grants Commission meant for the accreditation of the educational institutions on 28-30 March, 2016.

The committee comprised of Chairperson Dr. N. K. Jain, Co-ordinator Dr. S. K. Kulkarni and Member Dr. S. S. Pandya whom are the eminent personalities in pharmaceutical academic field. The committee visited the administrative block, laboratories, library and other utility areas and assessed teaching learning process, infrastructure, facilities. They also inspected documentation by college and interacted with management members, teaching staff, non-teaching staff, students, alumniees and parents.

The peer team submitted their inspection report and the college was awarded with 'B' grade (CGPA 2.3) by the council held on 25th May 2016.



Sports News

Students of GNCP participated in the cricket tournament "Pharma Cricket League 3" organized by Dadasaheb Balpande college of Pharmacy, Besa and the students have qualified for quarter finals. The event was organised during 8 - 13th Jan 2016



Republic day celebration:

College celebrated 66th Republic day with zeal and zest. The flag hoisting was carried out by Sardar Parshan Singhji Kalsi, Ex MLC and General Secretary of the Sikh Education Society. The function was followed by cultural programme and refreshment for staff and students.



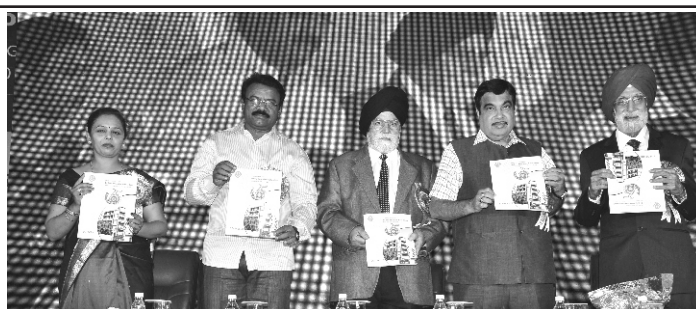
ACHIEVEMENTS

Following students of GNCP qualified GPAT – 2016.

Class	Name of student	AIR
B. Pharm III	Trushna Jamgade	854
	Manjeet Singh Ramgadiya	1354
B. Pharm IV	Anmol Shahu	105
	Shivam Wankhede	144
	Rashi Gupta	371
	Pranita Kanojia	411
	Sonal Shahu	569
	Karan Parwe	854
	Roshni Sarode	2384
	Neha Tekam	2384
	Akansha Nagdeve	3702
	Prashik Ramteke	4900
	Prachi Ramteke	5315
Archana Pal	1489	
M. Pharm	Dhananjay Sheshkar	4900
B. Pharm	Rasika Rangari	3702

International Women's Day Celebration

International Women's Day (IWD) was celebrated on 08 March 2016. All the girl students and female teachers were present. A brief introduction of IWD was given by Mrs. Shobha Ubgade, Asst. Prof. and a only female club 'Shefem' of the college was made to address issues pertaining to growth and development of women.



Hon. Nitin Ji Gadkari, Minister for Road Transport and Highways and Shipping & **Dr. Milind Mane**, MLA visited the college campus on 12 March, 2016 as a chief guest on occasion of silver jubilee function of Guru Harkishan Public School, Bezon Bagh, Nagpur

ACCOLADES

Mr. G. K. Lohiya, Asst. Professor submitted his Ph. D. thesis to Rashtrasant Tukadoji Maharaj Nagpur University, under guidance of Dr. (Mrs.) J. G. Awari, Professor, UDPS, Nagpur

EVENTS

Zenith & Zest 2015-16

The annual social gathering 'Zenith and sports events 'Zest' 2015-16 was organized and enjoyed by the students of GNCP and GNTI with zeal. Zest was inaugurated at the hands of our beloved Principal sir Dr. A. M. Ittadwar and was conducted on 23-31 Dec 2015 and the inauguration of 'Zenith 2015-16' was done at 2.00 pm on 31 Jan, 2015 by the chief guest **Mr. Sanang Uppanlawar**, Director ICAD, Nagpur. The various sports and cultural events conducted with the prize winners are as follows



Event	Winner/Runner (Class)	Name of Student/Staff Member
Cricket Boys	Winner (B. Pharm IV)	Gaurav Jain, Shubham Dhotarkar, Ajinkya Virgamwar, Ankush Sen, Manmay Makkad, Shivam Wankhede, Chetan Pokar, Ujwal Kitalikar, Vaibhav Nagpure, Anand Shrivastave, Hitesh Dewani, Rohit Kumar
	Player of the Match	Shubham Dhotarkar
	Runner (B. Pharm III)	Manjeet Ramgadiya, Vaishnav Borkar, Swapnil Deshmukh, Zahan Panjwani, Sachin Asnani, Tushar Pathak, Athar Ansari, Nikhil Chawala, Simranpreet Bajaj, Abhishek Sharma, Atharva Bhide, Rajat Pahava, Satyajeet Sankade
Cricket Girls	Winner (B. Pharm IV)	Dhara Lodaya, Anmol Shahu, Barkha Shahu, Kiran Yadav, Ankita Hulde, Dipali Prasad, Neha Tekam, Kalyani Khune, Akansha Nagdeve, Ankita Waghmare, Vinita Manwatkar
	Player of the Match	Neha Tekam
	Runner (B. Pharm III)	Pranita Kale, Nikhat Anjum, Shrutika Jain, Kalyani Kale, Shivani Dani, Shraddha Shahu, Dipti Bhagchandani, Mahima Kale, Ankita Somkuwar, Kajol Gupta, Priyanka Bobade, Sneha raut, Shalaka Sahare
ThrowBall	Winner (B. Pharm IV)	Anmol Shahu, Dhara Lodaya, Neha tekam, Neha Riyal, Barkha Shahu, Vinita Manwatkar, Dipali Prasad, Rovina Wadhvani
ThrowBall	Runner (M. Pharm)	Roshni Kunte, Anmol Kalantri, Archana Pal, Manju Nair, Monika Ramgadiya, Sneha Arkhel, Aditi Mool, Charulata Chetule
VolleyBall	Winner (B. Pharm IV)	Shubham Dhotarkar, Gaurav jain, Manmay Makkad, Ankush Sen, Ujwal Kitalikar, Chetan Pokar, Ajinkya Virgamwar
VolleyBall	Runner (B.Pharm III)	Vaishnav Borkar, Manjeet Ramgadiya, Sachin Asnani, Swapnil Deshmukh, Athar Ansari, Satyajeet Sankade, Abhishek Sharma
Chess (Girls)	Winner (M. Pharm I)	Monika Ramgadiya
	Runner (B. Pharm IV)	Neha Riyal
Chess (Boys)	Winner (Staff Member)	Mr. Sumit Arora
	Runner (M. Pharm II)	Shreyas Dupare
Carrom (Girls)	Winner (B. Pharm IV)	Vinita Manwatkar
	Runner (M. Pharm I)	Roshni Kunte
Carrom (Boys)	Winner (B.Pharm IV)	Tushar Raut
	Runner (D. Pharm II)	Akshay Dakhore

Carrrom Doubles (Girls)	Winner (M. Pharm I)	Archana Pal, Anmol Kalantri
	Runner (M. Pharm I)	Sneha Arkhel, Monika Ramgadiya
Carrrom Doubles (Boys)	Winner (B. Pharm IV)	Tushar Raut, Ujwal Kitalikar
	Runner (B. Pharm IV)	Vaibhav Nagpure, Chetan Pokar
Badminton Singles (Girls)	Winner (M. Pharm I)	Roshni Kunte
	Runner (B. Pharm II)	Sonakshi Singh
Badminton Singles (Boys)	Winner (M. Pharm I)	Pradip Dugane
	Runner (B. Pharm IV)	Manmay Makkad
Badminton Doubles (Boys)	Winner (B. Pharm III)	Ajinkya Virgamwar, Shubham Dhotarkar
	Runner (B. Pharm III)	Manjeet Ramgadiya, Vaishnav Borkar
Spellathon (Scrabble) Group 'A'	Winner (B. Pharm IV)	Pranita Kanojiya, Shruti Ukey
	Runner (B. Pharm IV)	Ankush Sen, Rashi Gupta
Spellathon (Scrabble) Group 'B'	Winner (B. Pharm III)	Sachin Asnani, Nikhil Chawala
	Runner (B. Pharm III)	Abhishek Sharma, Satnam Singh Khokar
Table-Tennis (Boys)	Winner (B. Pharm IV)	Prashik Ramteke
	Runner (B. Pharm IV)	Shubham Dhotarkar
Table-Tennis (Girls)	Winner (M. Pharm I)	Roshni Kunte
	Runner (B. Pharm IV)	Prachi Ramteke
Table-Tennis Doubles	Winner (B. Pharm IV)	Prashik Ramteke, Ankush Sen
	Runner (B. Pharm IV)	Shantanu Kurzadkar, Shivam Wankhede
Armology (Boys)	Winner (B. Pharm IV)	Rohit Kumar
	Runner (B. Pharm III)	Satnam Singh Khokar
Armology (Girls)	Winner (B. Pharm IV)	Neha riyal
	Runner (B. Pharm IV)	Ankita Hulde
100 m. Sprint (Boys)	Winner (B. Pharm II)	Harshpal Singh Wahi
	Runner (D. Pharm I)	Roshan Padwal
100 m. Sprint (Girls)	Winner (B. Pharm IV)	Ankita Hulde
	Runner (D. Pharm II)	Yogita Radke
Inaugural Dance Participants		Barkha Shahu, Rovina Wadhwani, Deepali Prasad, Shayana Khobragade, Bhagyashree Borade, Snehal Itankar, Shreya Goyal, Ashwini Nampalliwar, Rahul Kriplani
Dance (Solo)	Winner (B. Pharm IV)	Pranita Kanojiya
	Runner (B. Pharm III)	Trushna Jamgade
	2 nd Runner (M. Pharm II)	Dhananjay Sheshkar
Dance (Duet)	Winner (D. Pharm II)	Jayshree Shamkule, Priya Paunekar
	Runner (B. Pharm IV)	Saurabh Thakre, Latika Patil
Dance (Group)	Winner (B. Pharm IV)	Shubham Dhotarkar, Gaurav Jain, Ankush Sen, Himanshu Chawala, Prashik Ramteke, Manmay Makkad, Rovina Wadhwani, Neha Riyal, Barkha Shahu, Shreya Goyal, Dipali Prasad, Anmol Shahu, Rashi gupta, Kiran Yadav, Kalyani Khune, Harshita Jain, Rasika Mankar, Neha tekam, Roshni Sarode
	Runner (B. Pharm III)	Ayushree Raut, Ankita Somkuwar, Priyanka Bhaisare, Poonam Patil, Rakhi Sarpate
	2 nd Runner (D. Pharm II)	Kiran Deshbhratar, Pranjali Patil, Pooja Bahe, Arjita Raut, Pallavi Kadukar, Nikhil Panjwani, Chandraprakash Gupta
Fashion Show	Winner (D. Pharm II)	Pallavi Kadukar, Nikhil Panjwani, Chandraprakash Gupta, Arjita raut, Swapnil Sukhdeve, Shivang Deshbhratar, Naved Khan, Ankita Ambulkar, Pooja Baahe, Manoj Kohale, Yogita Radke Rahul Kriplani, Vaishnav Borkar, Satyajeet Sankade, Nikhil Chawala, Simran Kukreja, Aayushree Raut, Poonam Patil, Trushna Jamgade Najish Qureshi, Swapnil Deshmukh
	Runner (B. Pharm III)	Pradip Dugane, Ashish Zanwar, Ankita Malwar, Himanshu Purohit, Rahul Dubey, Dhananjay Sheshkar, Ashwini Nampalliwar,
	2 nd Runner (M. Pharm)	Bhagyashree Borade, Snehal Itankar

Extempore	Winner (B. Pharm II)	Kundan Singh
	Runner (B. Pharm IV)	Pranita Kanojiya
	2 nd Runner (B. Pharm III)	Abhishek Sharma
Quiz	Winner (B. Pharm I)	Suhasini Chaurasia, Hassan Hussain, Krishna Thakrani
	Runner (B. Pharm IV)	Masarrat Ali, Ankita Hulde, Shubham Dhotarkar
Rangoli	Winner (B. Pharm III)	Shraddha Shahu
	Runner (D. Pharm I)	Ranjana Nikhare
	2 nd Runner (B. Pharm IV)	Hetal Patel
Mehandi	Winner (B. Pharm II)	Yogita Jain
	Runner (B. Pharm IV)	Vinita Manwatkar
	2 nd Runner (B. Pharm II)	Ummiyah Rusheen
Singing	Winner (D. Pharm II)	Ritesh Yadav
	Runner (B. Pharm IV)	Vinita Manwatkar
	2 nd Runner (B. Pharm IV)	Rovina Wadhvani
Drama	Winner (B. Pharm III)	Manjeet Singh Ramgadiya, Rahul Kriplani, Vaishnav Borkar, Satyaajeet Sankade, Simran Kukreja, Atharva Bhide
Painting	Winner (B. Pharm II)	Lukesha Zade
	Runner (D. Pharm II)	Ritesh Yadav
	2 nd Runner (M. Pharm I)	Roshni Kunte
Click-Flick (Photography)	Winner (B. Pharm IV)	Roshan Ramteke
	Runner (D. Pharm II)	Ritesh Yadav
	2 nd Runner (B. Pharm IV)	Bhavna Hirudkar

Technical Article by Student -

**Yash Santosh Dubey
B. Pharm Sem III**

ONLINE PHARMACY-THE SCENARIO AND ITS EFFECTS

As the involvement of online marketing has been increased in almost all the goods and accessories brought in daily use, the life saviours and protectors- drugs, medicines and health aids are no more an exemption to it. The web has ample platforms viz. NetMeds, MChemist, Medidart, etc. all over to sell and procure the medicaments online to the customers, thus giving rise to the whole new sector 'ONLINE PHARMACY'.

Ease of ordering, wide range of options, home delivery and payment convenience- like any other provision this sector too has following benefits, making it a favourite choice for many. Elimination of middlemen has helped in bringing down the cost required as well. Thus a good base of consumers has been developed for it unanimously!

But just like the darker side of the corner, there are many issues and drawbacks which have drove criticism all over frequently. One major concern is the Irrational Uncontrolled Distribution of all sorts of drugs. Though few of the sites demand a scanned prescription copy first on requisition of Scheduled drugs, ample sites sell all type of drugs (including the Schedule 'H' and 'X' drugs) without required verification. It has been an access for the notorious section of society for fulfilling their addiction quota. The medicines leading abortion and the medical termination of pregnancy (MTP) kits are also sold and ordered irrationally. Crimes like illicit abortion, premarital mating, prostitution, rape, etc. are getting a quick safe way to escape!! Procurement or delivery of these drugs to customers also carries a major concern. They undergo different phases of temperature, humidity and storage, which may affect the quality & shelf life of the medication. The time taken for delivery may exceed the treatment period of the ailment. Improper stocking methodologies may also cause supply of expired drugs. Self-medication gets undue excessive emphasis, which is undoubtedly risky and hazardous. Many fraud companies and agencies sell bogus drugs and medicines by this method; Maharashtra State Pharmacy Council has raided many such centres in Mumbai, Pune, and Thane during Oct-Nov 2015. Customers often get cheated by such fraudulent procurers. The Art of dispensing medicines against prescriptions is an integral aspect of pharmacy profession which would lose its grounds if this practice becomes a large scale one!!

Still, owing to the certain points, the whole system cannot be considered at fault, the fast growing modern world is actually helped a lot because of this. There is actually a need of more stringent and vigilant regulations over it. The companies and the website maintainers must see to it, that the drugs demanded are sold as per their schedules in The Drug and Cosmetics Act, 1945. Drugs requiring prescription (or controlled prescription) must be ordered only on having a scanned prescription of verified medical practitioner and fair pricing is practised for them. Proper verification must be done on both the sides before order placement. There should be centres sufficient enough to provide the required medicines in minimum time to the patients so as to save the time and lives! The centres must be registered in The Pharmacy Council of State/Territory. There should be a healthy mind-set among the suppliers to serve the patients rather than profit making by unfair means.

Customers too should be wise and judgemental enough to choose the correct provider platform and trust between them should be ensured. Also it's necessary that the services must be used for proper eligible reason rather than for some malpractice or illegal activity!!

Regulations and ethical working from both the sides would make this system surely a boon for the society.

INNOVATIONS IN FORMULATIONS, DRUGS & THEIR ADMINISTRATION (iFDA-2016)



A national level conference was organized at Gurunanak College of Pharmacy on the theme “Innovations in Formulations, Drugs & their Administration (iFDA-2016)” on 19th - 20th Feb, 2016. The conference was inaugurated at the hands of Sh. Anwar S. Daud, Managing Director, Zim Laboratories Ltd. Sh. Daud, in his keynote address discussed the recent innovations that pharma industry has witnessed. S. Sarabjeet Singh Kalsi, Joint secretary of The Sikh Education Society, presided over the program. On first day, Mr. G. Sundar delivered talks on regulatory aspects of Quality based design. He also presented a case study on QbD of MR tablets. Dr. Shriniwas Savale spoke about the challenges and opportunities in Bioequivalence studies. On day one, various session speakers also presented their research work to the delegates.

On the second day, Dr. Sanjay Mandhane, General Manager, Sun Pharma discussed various nano-therapeutics in overcoming different limitations of suboptimal therapeutics by enhancing efficacy, imparting higher selectivity, reducing toxicity, and prolonging clearance time. Dr. Mrudula Bele, a renowned columnist and associate professor at MPV college, Nashik, highlighted various unique features of Indian Patent Act. Dr. Jayant Khandare, professor at MIT College, Pune and entrepreneur, motivated the young innovators and urged them to pursue novel research ideas. Dr. Shriniwas Savale in another lecture discussed a relatively recent class of medicines, “Biosimillars”.

A Poster competition was also organized on the second day. Ms. Neeta Brahme was the winner in the competition. S. Ravleen Singh Khurana, Managing Director, Nikita Pharmaceutical Specialities Pvt. Ltd. Was the chief guest of valedictory program. Dr. A. M. Itadwar, Principal of college and Convenor of the conference gave the concluding remarks and Dr. S. K. Tiloo, Joint Secretary of the conference proposed vote of thanks.

Industry Visit to Vama Pharmaceuticals and Dipti Pharmaceuticals

Industry visit was organized for D. Pharm students on 21 Jan, 2016 to Vama Pharmaceuticals, Wadi, Nagpur and Dipti Pharmaceuticals, Nagpur.

Seven students guided by faculty members Mrs. S. V. Naidu, Dr. S. K. Arora and Mr. A. M. Pathak took advantage of this event.

MODEL MAKING COMPETITION & JIGNYASA – 2016

Model Making Competition & Jignyasa 2016 was conducted successfully in Pharmaceutics (UG) Laboratory on 30th Jan, 2016.

The event was huge success with participation of about 75 students from B. Pharm and M. Pharm. Dr. George Williams, Senior Scientist, NEERI and Mr. Sulabh Khandelwal, Innova Pharmactives presided over the event as judges. Students exhibited varieties of ideas and working models with great zeal and enthusiasm.

A model titled 'Solcast ' by Gaurav Jain, Dhananjay Sheshkar, Ankita Hulde and Payal Shahu won the first prize. Second prize was bagged by Roshani Sarode, Ankush Sen and Rashi Gupta for the model 'FBD and Wurster Coater', while third prize was awarded to Pranay Gajbhiye, Gaurav Sharma, Abhilash Burde, Darshan Mendhe and Prafull Fulwani of first sem B.Pharm for the model 'Hydraulic Crane with use of Syringes'.

Model making competition was followed by Jignyasa 2016 on the same day. The competition comprised of oral presentation on Working Model as well as posters by the students. First prize was for 'Hydraulic Crane by Syringes', second prize went to 'Solcast, Tention' and third prize was awarded to 'Hollow Micro balloons'

Dr. A.M. Itadwar, Principal, GNCP & GNTI, Dr. V.V. Kale, HOD, Pharmaceutics graced the occasion with their full time presence.



Personality Development Tour to Pachmari

An Personality Development tour to Pachmari was organized for B. Pharm students on 1-4 Feb, 2016. In this 34 students with faculty members Dr. V. V. Kale, Mrs. M. K. Bhurchandi, Mr. G. A. Gurunani enjoyed the beauty of the place known as queen of Satpura Hills.

Educational Tour to Goa



Educational cum industrial tour to Goa was organized for the students of B. Pharm II and III Year on 18- 24 Jan, 2016. In this students visited Cipla Pharmaceuticals Ltd, Glenmark Pharmaceuticals Ltd and Tulip Diagnostics, Zaphire Diagnostics along with various scenic places of Goa. 64 students were accompanied by faculty members Dr. S. K. Tiloo, Dr. S. B. Waikar, Dr. N. P. Sapkal, Mr. V. B. Pande, Mr. G. A. Gurunani and Mr. T. M. Rasala

Pharma Patrol Contest

An Intercollegiate Pharma patrol contest was organized for D. Pharm students on 19/01/2016 at Sardarni Paramjeet Kaur Kalsi Auditorium, Gurunanak Technical Institute, Nagpur.

GUEST LECTURES

Prof. Lindsay Brown, University of Southern Queensland, Australia delivered a guest lecture on "Functional foods for metabolic syndrome in India" on 08 February 2016.

Dr. Nikhil Pande, Psychiatrist delivered guest lecture cum counselling session on "Management of anxiety, depression and related problems" on 04 March 2016.

Dr. V. V. Kale delivered a lecture to D. Pharm students on topic 'Personality Development' on 21/12/2015

Mr. Kalyan Wagh delivered a lecture to D. Pharm students on 'Industrial Skill and Motivation' on 18/01/2016

Mr. Amar Damle, Assistant Professor, Deptt. of Psychology, Smt. Binzani Mahila Mahavidyalaya, Nagpur delivered a lecture to D. Pharm students on 'Personality Development and Motivational Skills' on 20/01/2016

Dr. M. M. Bodhankar delivered a guest lecture on 'Entrepreneurship Skill Development' on 29/01/2016 to the students of Gurunanak Technical Institute.

RESEARCH & DEVELOPMENT ACTIVITIES**Research Paper Publication**

- **Dhanashree A. Mundhey, Nidhi P. Sapkal**, Anwar S. Daud; 'Simultaneous quantification of Buprenorphine HCL and Naloxone HCL by Vierordt's method. International Journal of Pharmacy and Pharmaceutical Sciences, 2016, 8 (1), 101-107.
- **Reshma P. Gawate, Vaishali A. Kilor, and Nidhi P. Sapkal**; 'Application of analytical methods for standardization of mandur bhasma. International J Pharm. Pharm sci. 2016;8(4): 327-32.
- **Dhanashree A Mundhey, Nidhi P Sapkal**, Anwar S Daud; Advances in noninvasive drug delivery systems of opioids: formulations and clinical perspective. Asian J Pharm. Clin. Res. 2016;9(4).
- **Subhash R. Yende**, Uday N. Harle, **Abhay M. Ittadwar**; Insignificant anticonvulsant activity of *Padina tetrastratica* (Brown macroalgae) in mice. Journal of Pharmaceutical Negative Results, 2016, 7(1), 33-36.
- **Subhash R. Yende**, Uday N. Harle, **Abhay M. Ittadwar**; Anxiolytic activity of marine macroalgae *Sargassum ilicifolium* and *Padina tetrastratica* in mice. International Journal of Pharmacy and Pharmaceutical Sciences, 2016, 8(5), 97-101.
- **G. K. Lohiya**, J. G. Awari; 'Optimization of feed composition for spray drying of probiotics'; J. of Inn. in Pharm. and Bio. sci. 2016 3 (1), 154-161.

Research Paper Publication

- Paper presented in 3rd International Congress by SFEC held at Pt. Ravishankar Shukla University, Raipur on 18th to 20th Feb 2016.

Sr. No.	Authors	Title of Paper
01	Minakshi Waghmare, Kalyani Kale, Deepti Bhagchandani, Shekhar Waikar	Evaluation of anti microbial activity of flavonoid rich fraction of aerial parts of the plant <i>Sphaeranthus indicus</i> Linn.
02	Roshan Ramteke, Simran Kukreja, Shruti Motwani, Arti Shanware.	Evaluation of anti-microbial activity of flavonoid rich fraction of aerial parts of the plant <i>Tephrosia purpurea</i> Linn.
03	Rakhi Sarpate, Priyanka Bhisare, Poonam Patil, Arti Shanware.	Evaluation of anti microbial activity of flavonoid rich fraction of aerial parts of the plant <i>Bridelia retusa</i> spreng.
04	Shital Nikhar, Shiwani Dani, Pranita Kale, Shekhar Waikar, Rajesh Limsay.	Evaluation of anti microbial activity of flavonoid rich fraction of aerial parts of the plant <i>Clerodendrum infortunatum</i> Linn.
05	Swapnil Deshmukh, Nikhil Chawala, Atharv Bhide, Shekhar Waikar.	Evaluation of anti microbial activity of flavonoid rich fraction of aerial parts of the plant <i>Fagonia arabica</i> .
06	Roshan Shahu, Bhavana Hirudkar, Shekhar Waikar, Arti Shanware.	Evaluation of anti-microbial activity of flavonoid rich fraction of aerial parts of the plant <i>Phyllanthus maderaspatensis</i> .
07	Bhavana Hirudkar, Minakshi Waghmare, Roshan Shahu, Bindu Jacob, Chetan Pokar.	Evaluation of Anti-bacterial activity of various extracts of <i>Pimpinella anisum</i> seeds.
08	Dipika Kalambe, Amar Deshpande, Shekhar Waikar, Arti Shanware.	Formulation and Evaluation of Flavonoid rich Fraction of Different Varieties of Turmeric for their Antifungal and Antibacterial Activity.

- Paper presented in national level conference on “Innovations in Formulations, Drugs & their Administration (iFDA-2016)” on 19th & 20th February, 2016, held at Gurunanak College of Pharmacy, Nagpur.

Sr. No.	Authors	Title of Paper
01	Abhijeet Thakur*, Ankita Malwar, Vinita Kale	Nozzle and lances for fluidized bed granulation and coating
02	Subhash R. Yende, Jamila Siddhpurwala*, Sumit K. Arora, Shekhar B. Waikar	Phytochemical screening of <i>Sargassum ilicifolium</i> (turner) c. Agardh
03	Shilpi Biswas*, Pooja Dudhe, Ashwini Sharma and Shrikant Tiloo	Co-processed excipients: A New Approach To Pharmaceutical Formulation
04	Nikita Kapgate*, Ashwini Sharma and Govind Lohiya	Multiple tip tooling: An Advantage In Pharmaceutical Manufacturing
05	Ashish V. Zanwar, Govind K. Lohiya	Data requirement for filling dossier in different Regulatory Authorities
06	P. Birade*, R. Pandey*, V. A. Killor.	Drug Delivery Through Nail
07	Pooja Dudhe*, Shilpi Biswas, Ashwini Sharma and Shrikant Tiloo	Recent Advances In Pelletization Techniques
08	Charulata C. Chetule, Pradip V. Dugane	Bioenhancers
09	Aditi Mool , Abdul Fahim , Suhas Padmane , Shilpriya Walde , Sarika Ghatode	Evaluation and Formulation of Flavonoid Rich Fraction of Aerial Parts of <i>Hemidesmus indicus</i> Linn for its Antibacterial Activity in Gel
10	Neha Makde*, Priyanka Bakane and Pornima Kodape	Herbs and spices used in treatment of breast cancer
11	Madhura Upadhye and Archana Pal	Transformed topical drug delivery: Film Forming Solutions
12	Sneha Arkhel , Snehal Pimpalshende	Microsponges as innovative drug delivery system
13	Rashi Gupta	A Novel Approach to Transdermal Drug Delivery System: Microsponges

Lecture Delivered

- In two days in-house training program on Laboratory conduct following faculties delivered lectures

Mrs. S. A. Ubgade	Effective Laboratory Management
Ms. P. G. Gondane	Calibration of minor instruments
Mr. K. S. Moharir	Safety in Laboratory
Mr. S. P. Padmane	Good Laboratory Practices
Dr. V. V. Kale	Behavioral Management
- Mrs. Shobha Ubgade participated as session speaker in two days national level conference on "Innovations in Formulations, Drugs & their Administration on 19 & 20 Feb, 2016 organized by Gurunanak College of Pharmacy, Nagpur

QIP / SDP attended

- Mrs. S. V. Naidu** and **Mrs P. S. Shrikhande** attended two weeks induction phase I programme from 30th may, to 10th June at Government polytechnic, Sadar, Nagpur
- Mr. A. M. Ubgade** and **Mr. V. S. Patil** attended two weeks induction phase II programme from 6th June, to 17th June at Datta Meghe Polytechnic, Wanadongari, Nagpur
- Mr. A. M. Ubgade** and **Mr. V. S. Patil** attended two weeks induction phase II programme from 6th June, to 17th June at Datta Meghe Polytechnic, Wanadongari, Nagpur

Seminar/Conference/Workshop attended

- Dr. N. P. Sapkal** attended iPHEX-2016, International Exhibition for Pharma & Healthcare, held at Mumbai 27 - 29 April, 2016.
- Dr. V. A. Kilor** attended workshop on "Patent and Related issues" organised by R T M Nagpur university, Technology Park, on 10th March 2016 at Gurunanak Bhawan, Nagpur.
- Dr. Sheelpriya Walde** attended NIPICON-2016, 3rd Nirma Institute of Pharmacy International Conference entitled 'Global Challenges in Drug Discovery, Development and Regulatory Affairs' on 21-23 Jan, 2016 at Institute of Pharmacy, Nirma University, Ahmedabad.

ENTREPRENEURSHIP DEVELOPMENT CELL NEWSLETTER



Gurunanak college of pharmacy has constituted an
Entrepreneurship development Cell- **VISION-2016**.

The cell was constituted by Dr. M.M. Bodhankar with a view to encourage students to consider self-employment as a career option. The objectives of cell would be to provide training and guidance through motivational talks by faculty, guest lectures, workshops and training programmes, interaction with the alumni who are successful Entrepreneurs.

Entrepreneurship development in-house awareness programme was conducted by Dr. Mitali Bodhankar for all the classes during First Week of February.

Entrepreneurship and skill development. Vision- 2016

Dr. Mitali M. Bodhankar
Associate Professor

In the fast-changing world of business and economy and with an advent of advance technology in every field, there has been a rise in the needs of skillful graduates in India. In order to create a more competitive and sustainable atmosphere, India needs to enhance its investment in knowledge and people as well as provide them with the relevant skills, especially entrepreneurial, creative and leadership qualities to foster the creation of new ideas and transform them into innovative products, services and jobs. Skill development and entrepreneurship is all about upgrading the skills of prospective entrepreneurs to improve the decision making capabilities resulting in higher productivity and efficiency. It also emphasises on developing student's capability to anticipate and respond to societal changes.

Role of Government

The formation of a separate ministry last year — Ministry of Skills Development and Entrepreneurship, issued a lot of proposals in the skill development sector in every field. This new ministry is tasked to ensure that India meet its target of skilling and up-skilling 500 million Indians by 2022. Formerly, a variety of departments and agencies were tasked with development of skill and entrepreneurship in the nation. In the earlier period, the Ministry of Micro, Small and Medium Enterprises (MSME) worked around entrepreneurship, while the National Skill Development Agency (NSDA) was involved in skill development.

The new ministry also aimed to create an ecosystem that eliminates bottlenecks which makes business easier and encourages entrepreneurship. However, the steps taken by the Government in the previous years are now being given the requisite momentum. The Government will bring on various norms that will provide support for strengthening the institutional structures for effective coordination of skill training and development of a common database of trainees allowing flexibility to meet the requirements of different parts of the country or different socio economic groups.

Recognition of Indian education in global standpoint and ability of Indian players to compete globally will be enhanced immensely. Foreign governments will also be optimistic to set up skill centres and universities to participate in the content creation, design of curricula and delivery of training.

Scope

Vocational training can be used as a strategic approach for achieving youth empowerment. The required competencies in people can easily be addressed through vocational options leading to the beneficiaries of self-employment and economic self-sufficiency. By raising the level of awareness among key stakeholders for entrepreneurship and enterprise creation as a viable and realistic option for career development this goal can be achieved.

The curriculum will be developed in discussion with industry representatives, experts and academic circles by the proficient bodies to meet the objectives of providing quality training and gainful employment with the latest market trends. Practitioners and students will be in complete focus on clear career pathways which can provide access to lifelong learning and sustainable employment. The education programme will focus mainly on the soft skills and IT skills, curriculum alignment and rapid training programmes. Increasing adaptation of technology, where technology solutions are gaining grounds in form of campus management software correspondence.

Growth

Experts believe that the contribution of India in the world GDP is estimated to increase from 6 per cent to 11 per cent by the year 2025, while on the flip side the input of US in world GDP is presumed to decline from 21 per cent to 18 per cent. This indicates towards the emergence of India as the third biggest global economy after US and China.

The appraisal is supported by the largely development in all the sectors in India, in which the prime sector is the industry zone. Every nation tries to accomplish maximum economic development. It depends mainly on human

resources . But human resource alone can't fabricate economic development, there must be dynamic entrepreneurs. So the need for leaders, managers and entrepreneurs has increased significantly. They examine the role that business leaders play in shaping industries to build a strapping India.

Entrepreneurship based on originality has immense growth potential in the coming years which can also create jobs for the youth. So, a successful entrepreneur must possess the following traits like mental ability, clear objectives, human relations ability, effective communication, technical knowledge, decision making and last but not the least the self confidence to pull off your goals.

Challenges will be to widen learning organisations, how to promote knowledge cultures, enhance learning processes and how to develop learning communities. For every obstacle, addresses a variety of theory, research and practice. Organisational and individual learning are at the heart of the competitive strategy.

Importance Of Entrepreneurship

The need for such training can't be undermined. We've trained manpower for a long time now. Companies also have their own internal training facilities. Yet, the demand for such skilled manpower is very high. As of now, this demand is met mostly by persons who have had no formal training in the trades but obtained some working knowledge by working with those in the trade. No law exists which bars a person to pursue any trade even if she/he has not certification to do so. This results in low quality and not always consistent services.

Further, with the rapid velocity in technical developments, most Indian employees find it very exigent to keep up with these developments. As such skills development is extremely important the list of skills is large and region specific for a big nation such as ours. The challenge lies in casing the huge population which needs to be trained. We also need to have adequate and well competent trainers, infrastructure to train and resources to support. It is also important to educate and motivate the beneficiaries of this programme. Given the large scope, the programme will take at least a decade to cover the back-log of people to be trained.

Composition of ED cell:

1. Dr. A. M. Itadwar, Principal
2. Dr. M. M. Bodhankar, Working Chairperson, Entrepreneurship development Cell.
3. Mr. S.R. Manpure, Teaching faculty member.
4. Mr. Gopal Gandhi (Giriraj Hydrocarbons) Alumni Entrepreneur
5. Mr. Dhiraj Chandel, (Swaraj Green tea/instant Tea) Alumni Entrepreneur
6. Ms. Swapna Gajghate, Non-teaching member.
7. Student representatives of ED cell-
 President- Mr. Sachin Asnani
 Vice-president- Ms. Shruti Motwani
 Treasurer- Mr. Zahan Panjwani and Mr. Nikhil Chawla
 Secretary- Mr. Jash Parikh
 Report- Ms. Taranpreet kaur Bamrah & Ms. Karishma Asnani
 Photography- Mr. Indresh Khungar
 Hospitality and INR- Mr. Manjeetsingh Ramgadia and Mr. Atharva Bhide
 Resources- Ms. Asawari Navghare
 Systems- Mr. Hasan Hussain

Functions of ED cell:

- To introduce the concept of entrepreneurship in curricula at diploma and degree levels.
- To inculcate the spirit of 'Entrepreneurship' in youth.
- To augment the supply of competent entrepreneurs through training and interaction.
- To augment the supply of entrepreneur trainer-motivators,
- To promote knowledge based and innovation driven enterprises.
- To facilitate generation of entrepreneurship and self-employment opportunities.
- To create an environment for Self-employment, Promote Innovation Incubation and Entrepreneurship development through formal and non-formal programs.
- To participate in institution building efforts.
- To develop and disseminate new knowledge and insights in entrepreneurial theory and practice through research.
- To set up business incubation centre at college level

Training Program on 'Laboratory Conduct' for Laboratory Staff

The two days in house program on Laboratory Conduct was focused for laboratory staff of Gurunanak College of Pharmacy and Gurunanak Technical Institute, Nagpur to refresh the skills for day to day smooth conduct of laboratory work on 21-22 Jan, 2016. In this Dr. Vinita Kale, Mr. S. P. Padmane, Mr. K. S. Moharir, Ms. P.G. Gondane and Mrs S. A. Ubgade trained laboratory staff members.

Mr. Dilip Shanghvi**SUCCESS STORY OF AN ENTREPRENEUR**

Born	1 October 1955 (age 60) Amreli, Gujarat, India
Nationality	Indian
Occupation	Founder and MD of Sun Pharmaceuticals

Early life, family and education

Mr. Dilip Sanghavi was born in small town of Amreli in Gujarat to Shantilal Sanghvi and Kumud Sanghvi .Shanghvi earned a Bachelor of Commerce degree from the University of Calcutta.He is an alumnus of J. J. Ajmera High School and Bhawanipur Education Society College, from where he did his schooling and graduation, respectivelyHe is married to Vidhi.The couple have a son, Aalok and daughter Vidhi from their marraige. Both of whom are currently working in Sun Pharmaceutical,

Career

He started by helping his father in his wholesale generic drugs business in Kolkata .It was during his work as a drugs distributor at Kolkata, he thought of manufacturing his own drugs instead of selling others' products

Dilip Shanghvi started Sun Pharmaceutical Industries with capital of Rs 10,000 in 1982 at Vapi , with one psychiatry drug and a partner, Pradeep Ghosh. In 1997, Sun acquired Caraco Pharma, a loss-making American company, with the aim of expanding Sun's reach in the United States. Sun also acquired Israel's Taro Pharma in 2007. Shanghvi stepped down as Chairman and CEO in 2012 and chose Israel Makov, formerly CEO of Teva Pharmaceuticals, as his successor; Shangvi became Managing Director. In April 2014 Sun, Ranbaxy, and Daiichi Sankyo (the majority shareholder in Ranbaxy) agreed that Sun would acquire all outstanding shares of Ranbaxy for \$3.2B in Sun stock and that Sun would take on \$800M in Ranbaxy debt; the deal closed in March 2015 and made Sun the largest drug company in India and the fifth largest in the world, and made Daiichi the second largest shareholder in Sun.As of August 2014, he had a net worth of \$17.2 billion.

Contributed By:
Mr. Rahul Kriplani
B. Pharm IV

Heartiest Congratulations

to Staff, Alumni, Students, Parents & All Stake Holders
of GNCP & GNTI on getting

NAAC Accreditation

from:

Sikh Education Society & Principal, GNCP & GNTI

GURUNANAK COLLEGE OF PHARMACY

&

**GURUNANAK TECHNICAL
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