



PHARMAVOICE

College Newsletter...

VOL 5 ISSUE 1

JULY - SEPT 2019

VISION

- To be amongst the top ten Pharmacy colleges in India by imparting excellence in Pharmacy education.
- Instilling research temperament in Pharmacy students.
- Continuous up gradation of infrastructure to maintain high standards of education

MISSION

- Inculcating timeless values of caliber, competence, confidence and conscience in budding pharmacists.
- Indoctrinate quality in all aspects of Pharmacy education thereby enabling provision of better healthcare services.

QUALITY POLICY

- The AISSMS College of Pharmacy is committed to empower our students to meet global challenges in Pharmacy profession through excellence in education.
- Our highly qualified and committed faculty is constantly exploring newer frontiers of knowledge with the intention to build quality pharmacist.
- We believe in honing the overall persona of our students through excellence in academics, co curricular and extracurricular activities.
- We strive to develop a sense of social obligation and discipline among our students not only to make a better technocrat but also a better human being.

OBJECTIVES

- To provide sufficient understanding of scientific principles and techniques of pharmaceutical sciences.
- To develop commitment for the quest of science.
- To provide comprehensive knowledge and experience.
- To provide exposure to latest techniques and technologies.
- To teach pharmacy ethics to students.
- To cater to manpower for globally growing pharmaceutical industry and for implementation of drug laws for compliance to regulatory norms.

All India Shri Shivaji Memorial Society's
College of Pharmacy
Kennedy Road, Pune-411 001

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EDITORIAL

“Just when the caterpillar thought the world was ending, he turned into a butterfly.”

Believing that each of us are caterpillars of our own life and evolving towards being a butterfly, flying towards the sky, here at AISSMSCOP we not only take up challenges but also impel to prevail them! The first three months truly changed the perspective of life. These months due to incessant rains caused havoc in Kolhapur city and the determination to help, the students travelled to Kolhapur with the **Kolhapur Relief and Rebuild Mission.**

With this, Welcoming the new batch of students and excelling in the **58th National Pharmacy Week** we strive to grow and evolve by confronting every challenge and gaining as much as experience, inspiration and motivation to fly towards a new sky!

On this with immense pleasure and honor we bring you this new issue of PharmaVoice!

Keep scrolling for insights of happenings and also to update your knowledge.

Happy reading!

Team Pharmavoice.



TEAM PHARMAVOICE

(Sitting From L to R)

Mr. Vaibhav Raut (M. Pharm. I year)

Dr. Santosh Gandhi (Faculty Member)

Dr. Ashwini R. Madgulkar (Principal)

Mrs. Shital Patil (Faculty Member)

Ms. Sayali Sheth (M. Pharm. II year)

(Standing From L to R)

Ms. Purva Kalel (B. Pharm. I Year)

Ms. Kshitija Abhang (B. Pharm. II Year)

Ms. Samruddhi Pande (B. Pharm. III Year)

Mr. Saurabh Rohom (B. Pharm. IV Year)

NEWS & EVENTS



1. Day in Nature: NSS unit spent a day with farmers in order to understand the agriculture and help them in rice planting. The place selected was rice farms at village Khubavali, Tal Mulshi, Dist. Pune. On 1st July, 2019. NSS volunteers reached the place at 10.30 in the morning. Mr. Kiran Satpute, the farmer, explained the process of rice planting. First part of the work was to remove the grown seedlings of rice and tie them in small bunches. These bunches were carried to the plantation farm site. Students stepped into the farms full of mud and systematically



If you want to achieve greatness stop asking for permission. ~Anonymous

carried out the rice plantation. They learnt about the crop duration, care and harvesting from the farmers.



The farmers also explained the surround ecosystems including life cycle of crabs occurring in rice farms. The NSS unit contributed for a total of 90 man hours as a help to the farmers. Mr. Rahul Padalkar, Program Officer NSS, Dr. Sachin Tembhurne and Mrs. Vidya Wable coordinated the activity under the guidance of Principal Dr. Ashwini R Madgulkar.

2. Demonstrative Learning: As per IQAC initiative, the post graduate students were trained for use of HPLC by Mr. Devendra Surve, Service engineer from M/s Anatek, Mumbai. The training was done on 4th July 2019. The activity was coordinated by Dr. M. C. Damle and Dr. Santosh Gandhi.



3. Train the Trainers: Media team of AISSMSCOP comprising of Mrs. K. D. Asgaonkar, Mrs. S. M. Patil and Mrs. S. H. Rao attended a three



day workshop on “Effectiveness of Marketing Communications” organized by AISSMS Media and Marketing Department from 3rd- 5th July 2019. Event was organized at College of Hotel Management and Catering Technology, Pune. The session was conducted by Mr. Bhushan Palkar, Marketing Consultant. Objective of the workshop was to understand the importance of marketing communication at centralized level and to design Brand communications for AISSMS. A session on how to write news in newspaper was conducted during this workshop by Sakal Executive.

4. HPTLC Training Workshop: One day workshop cum training program (Concept, Theory, Hands on Training) was conducted for M. pharm. students of AISSMSCOP by Mr. Prateek; Application scientist from Anchrom Enterprises India (P) Ltd. for operation of Camag High Performance Thin Layer Chromatography instrument on 24th July 2019. Dr. Santosh V. Gandhi co-ordinated the activity.



5. Train the Trainers: Dr. Santosh Gandhi and Dr. Mangesh Bhalekar attended technical seminar held on 31st July 2019 organized by **Labindia Analytical Instrument Pvt Ltd.** at Hotel Pride, Shivajinagar, Pune. The program had an interactive session, questioning as it covered maximum knowledge on NMR, FTIR spectroscopy and microwave technology.

6. Patriotism: NSS unit participated in the celebration of Independence Day (15th August 2019). The unit gathered in the college at 7 am for the flag hosting ceremony. Students delivered speeches about freedom fight and meaning of independence. The activity was co-ordinated by Program Officer Mr. Rahul Padalkar with the help of Dr. Sachin Tembhurne under the guidance of Dr. Ashwini Madgulkar.



7. Kolhapur Flood Relief and Rebuild (Disaster Management): This month due to incessant rains Kolhapur city had to brace for a deluge. This deluge



caused enormous damage to Kolhapur city. ALL INDIA SHRI SHIVAJI MEMORIALSOCIETY is always willing to help needy people affected by natural calamities. On 19th August, 2019 250 students from the RTO campus which included those in National Service Scheme (NSS) as well as those volunteering for mission left for Kolhapur city. In Shahpuri from collecting the garbage brought by flood they also met collector of Kolhapur city who



applauded their efforts and thanked them for their goodwill. Students also visited Prayag Chikhli village, Kumbhar Wada, Ambewadi, Laxumi High School where they interacted with the villagers and were apprised of the damage caused by floods. Students began their work by collecting garbage spread in surroundings, cleaning of ground floor, class rooms, walls, arranging wet books for drying on third floor, moving benches out from first two floors and rest cleaning the ground floor of the school. Finally with satisfaction of helping people affected by flood replacing tired look on their faces students returned to Pune with everlasting memories.

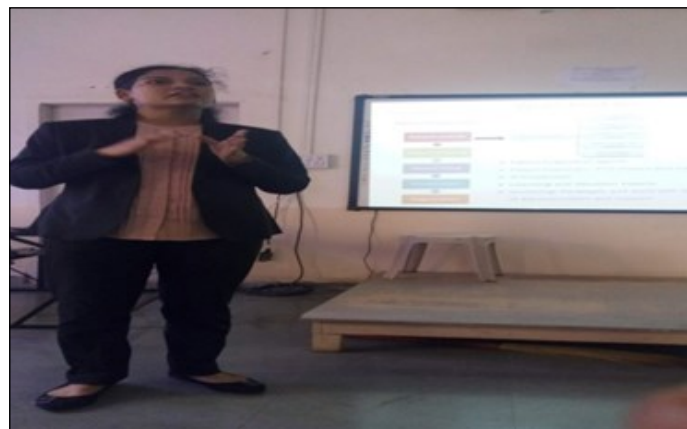
The activities were co-ordinated by Mr. Rahul Padalkar, Program Officer NSS, Dr. Mithun Bandiwadekar, Student Development Officer and Dr. Sachin Tembhurne under the guidance of Dr. Ashwini Madgulkar.

8. Personality Development Workshop: Training and Placement cell organized a 30 hr personality



development workshop for 49 students of M Pharm (3rd Sem) from 19th August to 23rd August 2019 by Mahindra Pride School, Pune which undertakes such programs as part of their corporate social responsibility. The trainer, Ms. Neha Pant-Tiwari was very experienced and developed a good rapport with the students. The sessions focused on presentation skills, communication skills, body language, grooming, official email writing, telephonic interviews, group discussions and mock

program was to acquaint students with the college; the management, infrastructure available and various activities that are run in and by the college. The session opened in presence of Principal Dr Ashwini Madgulkar and staff members. The students were briefed about infrastructure and extracurricular activities, internal systems and syllabus, general rules, APGA (the alumni association), Training and placement and student welfare activities by Dr. S. V. Gandhi, Dr M R



interviews. The workshop involved number of activities as well as theoretical teaching sessions making the sessions very interesting and fun-filled besides being informative. Dr. Monica RP Rao, Mr. Rahul Padalkar and Mr. Jitendra Gajbe of Training and Placement Cell coordinated the entire workshop. **9. Orientation Session** for M Pharm I year batch admitted in academic year 2019-20 was conducted on Friday; 23rd August 2019. The purpose of this

10. Orientation programme for First Y. B.

pharm. and directly admitted S.Y. B. Pharm. was conducted on 26th August 2019. 94 Students and 51 parents were present for the programme. During this programme, Scope of Pharmacy, Rules and Regulations, infrastructure, activities, achievements



of College, Welfare schemes, examination pattern, APGA, Scholarship offered were explained in detail to audience. First five CET topper students were also felicitated by the college. The programme was co-ordinated by Mrs. Shital M. Patil under the guidance of Dr. Ashwini R. Madgulkar.

11. Welcome New Comers: Fresher's Party for F. Y. B. Pharm. and directly admitted S.Y. B. Pharm. students was organized on 28th Aug 2019. The fresher's party with the theme of "Red Carpet" was filled with excitement, joy, music, enthusiasm, laughter and happiness. The programme started by welcome speech by Ms. Soha Baldota and Mr. Rutuj Baldota. Compeering for the games was done by Ms Bhairavi Bakhale and Mr K. Anantha.



Various games were organized and the awards were given by APGA advisor, Dr. Shashikant Bhandari, Student president, Mr. Rohan Thorat and the working committee members Ms. Samruddhi Kelkar, Ms. Ravina Khandelwal, Ms. Shivani Godbole and Mr. Akshay Kale. The program ended with Vote of thanks presented by Class representative Ms. Kshitija Abhang and Mr. Ayush Khater. Various Awards given to the students were-



- **Mr. and Ms. Fresher's:** Mr. Pranshul Soni and Ms. Bhumika Khalane
- **Mr. Stylish and Ms. Stylish** -Mr. Fenil Jethava and Ms. Vaibhavi Shingade
- **Mr. Enthusiastic and Ms. Enthusiastic:** Mr. Pranish Gaikwad and Ms. Jyoti Kumari

The program was co-ordinated by class teacher of S.Y. B. Pharm. Mrs. K.D Asgaonkar and S.Y B.Pharm class representatives, Ms Kshitija Abhang and Mr Ayush Khater under the guidance of Dr. Ashwini R. Madgulkar and support from AISSMS Management.

12. FIT INDIA MOVEMENT: To inculcate concept of fitness among youth and all citizens as well as to promote awareness amongst people, "Fit India Movement" was initiated on National Sports Day, 29th August 2019. The programme was organized in classroom with direct broadcasting of speech of Hon. Prime Minister Shri Narendra Modi.

Followed by which oath was taken by all Ph.D. Student Welfare Officer of the college participants and walk was arranged on ground. Dr. informed the parents about Earn and Learn scheme. Santosh V. Gandhi, Mr. Rahul R. Padalkar and Dr. The parents were informed about IQAC established M. M. Baniwadekar co-ordinated the activity. at college for continuous monitoring and

13. Parents Meet: The annual event, Parents meet improvement of institute performance. Parents' was held on 30th August 2019 for SY B. Pharm, in suggestions in this regard were invited. The morning and for TY + Final Yr B. Pharm., in the importance of attendance was highlighted. Career the afternoon. The respective class teacher briefed the guidance session by Mr. Sumedh Ramteke, audience about college achievements, concept of Manager, Clinical Research, Savitribai Phule Pune Class teacher and Mentor system, explained the rules and regulations regarding attendance at college and various statutory committees at the college.



The parents were made aware that their wards can approach the appropriate committee in case of any problem viz. Internal Complaints Committee, Anti-ragging Committee and Grievance redressal Committee. A senior faculty member explained in SY class, the career opportunities after B.Pharm., importance of higher studies highlighting the facilities available for the research at M.Pharm. and

University on “Career Opportunity in Clinical Research” was organized for TY and Final Year students with their parents. Mrs. Patwardhan/ Mrs. Kane, representatives of IHHI, Pune addressed the parents and students about importance of Counseling, a facility available at college. Feedback regarding facility and faculty was obtained from the parents and analyzed, positive remarks and suggestions from the parents were noted. In general, the feedback regarding faculty, facility and “Inhouse Projects” is Good. Felicitation of Mr. Sumedh Ramteke, Manager, Clinical Research, Savitribai Phule Pune University and his associate after his session on “Career Opportunity in Clinical Research”



14. Blood Donation Camp: AISSMS had organized a Blood Donation Camp in Association with Sassoon Hospital, Pune on 4th September 2019. There were more than 400+ student registrations for the blood donation Camp. The Blood Donation camp

was inaugurated by Shri Milind Deouskar, Divisional Railway Manager, Pune Division, Central Railway; Dr. Murlidhar Tambe, Dean, BJ Medical College and Sassoon Hospital; Mrs. Bageshree Manthalkar, Senate Member & Co-ordinator of Blood Donation Camp, Maharashtra; Dr. Nalini Kadgi, In-charge of Blood Bank, Sassoon Hospital and Dr Leena Nakate, HOD Pathology B J Medical College & Sassoon Hospital.



Shri Milind Deouskar invited Sassoon hospital authorities to have blood Donation camp in Railways. Mrs Bageshree Manthalkar expressed her views about initiatives taken by the youth for this noble cause. "Blood makes up about 7 percent of body's weight and one donor can saves 3 peoples life. Donating blood saves life and improves health" said by Dr Leena Nakate. Hon. Joint Secretary, Shri Suresh Shinde; Shri Nikhil Khanse, Shri Moze and Shri Taware; members of AISSMS were present to guide the students. Dr Abhijit Mancharkar, Director, AISSMS IOM welcomed the gathering. Program was compared by Prof Archana Raut and Prof Ursula Sumant proposed the Vote of thanks.

15. TEACHERS DAY CELEBRATION AT COLLEGE- Teachers Day was celebrated at AISSMS College of Pharmacy on 9/9/2019 to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan - First Vice President of India and

the Second President of India and an educationist at heart. Lecturer and practical at undergraduate and



postgraduate were taken by the students of Final year B.Pharm and M.Pharm students. Best teacher were selected for the day and awarded by certificate and trophy sponsored by the APGA. Teacher's day committee members well organized the event. Special guidance for the event was given by Dr. Mithun Bandivadekar, Rahul Padalkar and Dr.Sashikant Bhandari. Dr.Ashwini Madgulkar, Principal AISSMS college of Pharmacy being the chief patron for the event.



Teacher's day committee members were Principal- Mr Om Nagras; Vice-principal- Mr Akash Yadav; Sports Secretary- Mr vinay Rathod; NSS President- Mr Omkar More; APGA PRESIDENT-Mr Rohan Thorat; Cultural secretary-Mr Atharva Kulkarni & Mrs Vaibhavi Kardile.

16. A Video and Photo Workshop was conducted on 9th September 2019, by media and marketing

Good things come to people who wait, but better things come to those who go out and get them. ~Anonymous

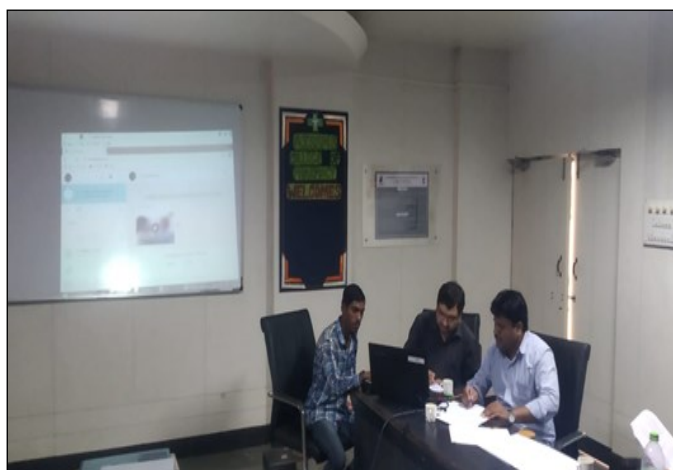
committee of AISSMS organisation at AISSMS Maharaj and it is the birth place of Chhatrapati COE (College of Engineering), organised by head of Sambhaji Maharaj. The fort has great importance in media and marketing committee Mrs Shasha Shelke the history of Marathas. It is known for the great for all the media and marketing representative battle of Purandar where Murarbaji and his soldiers students and their respective guides. An expert, Mr showed highest bravery. The fort is currently Anirudh of media and marketing was present for maintained by the armed forces and used as a guiding all the representatives and their guide. On training centre. Public transport was used to reach the following topics:- the destination. Students collected plastic and other

- ♦ How to select a good content and topic for the videos. littering by tourists and visitors and collected in a cloth bin. Team leader discussed the history of the
- ♦ Which software's and apps to be used for video editing. fort and events associated with it. Students were guided about the historical water storage and
- ♦ What should be the format and flow of video. irrigation system. The visit motivated the students
- ♦ How to be spontaneous to select content for news. to learn and conserve the historical monuments. Mr.
- ♦ How these thing's will help in our academic life Rahul Padalkar, Program Officer NSS, Dr. Sachin and also industrial marketing skills. And many Tembhurne and Mrs. Vidya Wable coordinated the activity under the guidance of Principal Dr. Ashwini more points were discussed.

All the representatives from all the colleges of R Madgulkar.

AISSMS organisation were gathered and **18. National Pharmacy Week 2019:** WhatsApp enthusiastically participated in this workshop. After Quote Competition on 25th September 2019. The the workshop all the queries and doubts were cleared major focus of NPW celebration is to create awareness amongst the public, other healthcare providers and the authorities, about the NPW theme in specific and about the pharmacy profession and role of pharmacist in general. Indian Pharmaceutical Association, Pune local branch and pharmacy colleges of Pune district jointly organized 58th National Pharmacy Week 2019 from 23rd September

17. Fort Visit: National Service Scheme unit visited Fort Purandar on 11th September 2019 for the purpose of conservation and cleaning activities. Purandar fort was built by Chhatrapati Shivaji



Success is walking from failure to failure with no loss of enthusiasm.
~Winston Churchill

to 28th September 2019. As part of organizing institutes, ours AISSMS's College of Pharmacy, Pune organized WhatsApp Quote competition. The competition was organized by Dr. S.V. Bhandari, NPW convener and NPW coordinator of AISSMSCOP and Dr. Rahul Padalkar, WhatsApp Quote Competition coordinator of AISSMSCOP.

Results for WhatsApp Quote

	Winner	Runner-up
Diploma	Deokate Ankita <i>D.Y. Patil IOP, Akurdi</i>	Tamboli Mubin <i>MCE's Institute Of Pharmacy, Azam Campus, Pune</i>
UG	Nausheen Bare <i>Rajarshee Shahu College of Pharmacy, Tathawade</i>	Abhishek Pathak <i>AISSMS's College of Pharmacy, Pune</i>
PG	Omkar Gadhe <i>Siddhant College of Pharmacy, Talegaon</i>	Sarosh Momin <i>BVDU Poona College of Pharmacy, Pune</i>

Two judges were appointed by IPA, Pune branch, Dr. Dilnawaz Pathan (Asst. Professor, Allana College of Pharmacy, Pune) and Dr. Bhagwat Chavan (Asst. Professor, JSPM, Hadapsar). Huge number of response and participation was received for the competition. The theme for WhatsApp quote was "*Pharmacist's Role in Patient Safety & Efficacy of medicines*".

19. Certificate Course: A six months course on Intellectual property rights has been started at our campus in collaboration with Geniobrain IP solutions. 26 students are attending the course

20. Environment Sustainability: 25th September

was observed as No Vehicle Day at our college – AISSMS College of Pharmacy. 22nd September is observed all over the world as a World car free day, as a small step towards greener environment. There was holiday on 22nd September so college decided to celebrate it on 25th September. The students of the institute adopted ways like carpooling, use of public transport and a few even adopted bicycles as means of transport. Students and others on the campus were informed of the day by using posters and social communication media. There was a positive response from students as well as staff members on the day. Many students used public transport buses, some even shared auto rickshaws. The day was a huge success with enthusiastic response and active participation by everyone. The principal madam of the institute, Dr. Ashwini Madgulkar appreciated this innovative idea of no vehicle day and inspired the students about eco friendly lifestyle.

21. Interactive Learning: To encourage students to look beyond their textual knowledge and ascertain a relationship between theory and application of the learnt concepts, a quiz competition was organized for Second Year B. Pharm students. Quiz was conducted on 30th September 2019 and was based on topics related to Pharmaceutical Organic Chemistry. Quiz was designed to promote a fun way to study



the subject. It also helped to build interest of students for the subject and enhance critical thinking. Activity was coordinated by Ms. Akshata Jadhav and Mr. Sachin Mehta under the guidance of subject teacher Mrs. K. D Asgaonkar. The quiz comprised of five rounds which included multiple choice questions, Rapid fire round, word puzzle, writing reactions and mechanisms. Students whole heartedly participated and enjoyed the quiz. Girl's team was the winners of the competition.

UPCOMING EVENTS



1. Training session for dissolution test apparatus by expert from LabIndia instruments.
2. Animal Handling workshop for students of Pharmaceutics who will be doing animal experiments by Dr. S. V. Tembhurne.
3. Educational tour for Final Yr. B. Pharm students
4. Faculty Development Programme

STUDENTS' ACHIEVEMENTS



1. Achievements of AISSMS COP's Students in different events organized under National Pharmacy Week 2019 by Indian Pharmaceutical Association, Pune Branch.

Event	Category	Result	Student Name
Pharma Detailing Competition	UG	Winner	Shivani Godbole
Debate	PG	Winner	Pradnya Shirude & Krishna Wadhkar
Interview skills	PG	Runner up	Tejas Athawale
Group discussion	UG	Runner up	Anish Panwalkar & Samruddhi Pande
	PG	Winner	Tejas Athwale & Srushti Suryawanshi
Paper presentation	UG	Winner	Atharva Kulkarni
	PG	Winner	Sayali Sheth
Patient counseling	UG	Winner	Bhairavi Bakhale & Team
	PG	Winner	Rohit Kharade & Team
Elocution	UG	Runner up	Athrav Kulkarni
Extempore	UG	Winner	Anish Panwalkar
Whatsapp quote	UG	Runner up	Abhishek Pathak
General aptitude	PG	Runner up	Kajal Kabra

2. Ms. Bhumika Khalane studying in first year B pharm participated in VEDANT 2019 programme held on 7th of September at BJ Government Medical College, Pune (BJGMC). Fetching a fascinating opportunity

Whenever you see a successful person you only see the public glories, never the private sacrifices to reach them. ~Vaibhav Shah

Bhumika has been Successful in heightening our college's name. She has been awarded for being runner up in Under 19 Chess Classic Competition with a certificate and a medal by a BJGMC.

3. Ms. Sneha Kamble of third year B. Pharm Won State level Modeling Competition organized by Samtha Sainik Dal on 22nd September, 2019 at Ambedkar Bhavan. She also participated in an event organised by Silver Star Company on 28th September, 2019 at Publiq Mall, Nanded where she was announced as Runner up and also won the Best Ramp Walk.



COLLEGE ACHIEVEMENTS



In the year 2019-20, All India Shri Shivaji Memorial Society has instituted Excellence awards for the staff of its various institutes. The awardees were shortlisted on the basis of scores earned for various parameters of **“Performance Based Appraisal”** viz. Teaching-Learning, Co-curricular, Extension and Profession Development activities, Research Publications and Academic contributions, etc.

From AISSMS College of Pharmacy, Dr. Mrinalini C. Damle, Professor-Quality Assurance, received First Rank with PBA score of 289.05 for the year 2018-19. The award consisted of a memento and Rs. 50,000/-. Mr. Ajay Kolambe, received the best Lab Assistant award for the year 2018-19. The award consisted of a memento and Rs 25,000/-. The awards were given on 5th Sept. 2019 at a special ceremony organised on the occasion of teacher's day at the auspicious hands of Chief Guest, in the august presence of Hon. Shri Malojiraje Chhatrapati, Hon. Secretary, AISSMS, Shri Suresh Shinde, Jt. Secretary AISSMS and Shri Ajay Patil, Treasurer, AISSMS.



Dr. Mrinalini C. Damle receiving the “AISSMS Excellence Award”



Mr. Ajay Kolambe receiving the “AISSMS Excellence Award”

DID YOU KNOW: AN AVOCADO A DAY KEEPS THE HEART DISEASE AWAY



In today's world where people are busy running the rat race they face stress and depression which ultimately is an invitation to heart disease not only in 60's but the teens as well. More than one-third (35.7%) of adults are considered to be obese and almost 3 in 4 men and women (74%) are considered to be overweight or obese and these individuals are at risk for a host of negative health outcomes, such as type 2 diabetes, heart disease, high blood pressure, fatty liver disease and many more. The simplest and best solution to this is an AVOCADO! Avocados contain fiber, potassium, and magnesium, all of which are associated with cardiovascular health.

A single avocado almost contains ~690 mg Potassium and 39 mg Magnesium!! Not only this but it also consists of ~10% Monounsaturated and Polyunsaturated (MUFA's) which is known as "good fat". The USA Heart Association strongly recommend substituting MUFAs in place of SFAs and trans fatty acids for both primary and secondary CVD. The reason behind this is avocados get the green light and that help lower LDL levels and provide your body with essential fats and HDL it needs, keeping the cholesterol level in control which makes it a truly magical remedy for a healthy heart.



The carbohydrates (80% dietary fiber) = Preventing cardiovascular disease ; Potassium = Reduction in blood pressure in patients and even those without antihypertensives. Magnesium = Decreased risk of CVD, including fatal ischemic heart disease.

SCOPE OF PHARMACY-RESEARCH AND DEVELOPMENT



The research and development (R&D) process is a critical stage in drug development in the pharmaceutical (Pharma) industry. The process starts after an initial candidate drug is identified and encompasses the rigorous research tests that determine its therapeutic suitability. This includes factors like its affinity for the biological target and interaction with biological systems. Alternative private sector employers, for example biotechnology companies and contract research organizations (CRO's), also use an identical approach on a smaller scale.

Qualification- Bachelors Degree or Masters

Fields for research positions-

Common fields for research positions that are involved in the in vitro and in vivo testing of drug candidates include, pharmacology, immunology, molecular biology, virology, microbiology, cell biology and neuroscience. Compounds are also tested for toxicity by researchers.

Try not to become a person of success, but rather try to become a person of value. ~Albert Einstein

Most entry level research jobs, after completing a PhD. or postgraduate course, have a title of ‘Scientist’ or ‘Senior Scientist.’ Promotional paths include moving on to a Lab Head or Team Lead role, then the Head of a particular department or research area and subsequently, Director or R&D manager.

What to work-

As an entry level researcher, your core day-to-day work will focus on conducting research at the bench as part of the drug screening and characterization process.

The individuals who work successfully in commercial research enjoy their involvement in applied research projects.

Average Salary for R&D Jobs- At entry level anything from 5-7 lacs can be expected in a good firm.

Tip for fresher candidates-

If this is your first transitional role to Industry, tailoring your application, including your CV to highlight the specific skills valued by the sector is advised.

- 1) It’s essential to educate yourself about the sector. Learn how research processes work in industry. Reading relevant pharmaceutical journals can help fill you in on recent trends and developments.
- 2) Tailor your CV for an industry role. Your CV usually acts as an primary screen for an Industry employer. It’s best to limit it to two pages, and make sure the most relevant information is included on the first page. Highlight any previous industry work experience.
- 3) Emphasize specialist knowledge of your core discipline and technical expertise stated as essential in the job advert. Recruiters will be expecting sound knowledge of your core discipline. You may have acquired a broad range of technical expertise but space is at a premium on a resumé, so state those that are relevant to the role.
- 4) Adaptability and excellent communication are seen as key skills in Industry. You will need to work as part of a multi-disciplinary team and may change projects frequently. Be sure to provide examples in your CV
- 5) Find out what your goals and objectives may be in your industry role. They will differ greatly to those in academia. Think of how you might approach them to help pre-empt interview questions.

SCIENTIFIC CONTENTS: PHARMACY INDUSTRY– GLENMARK PHARMACEUTICALS

Glenmark Pharmaceuticals is a pharmaceutical company headquartered in Mumbai, India that was founded in 1977 by Gracias Saldanha as a generic drug and active pharmaceutical ingredient manufacturer; he named the company after his two sons. The company initially sold its products in India, Russia, and Africa. The company went public in India in 1999, and used some of the proceeds to build



Great minds discuss ideas; average minds discuss events; small minds discuss people. ~Eleanor Roosevelt

its first research facility. Saldanha's son Glenn took over as CEO in 2001, having returned to India after working at Price water house Coopers. By 2008 Glenmark was the fifth-biggest pharmaceutical company in India.

By 2011 the founder of the company was one of the richest men in India, and Glenmark had worldwide sales of \$778 million, a 37% increase over the last year's sales; the growth was driven by Glenmark's entry into the US and European generics markets.

In the mid-2010s the generics industry in general began transitioning to the end of an era of giant patent cliffs in the pharmaceutical industry; patented drugs with sales of around \$28 billion were set to come off patent in 2018, but in 2019 only about \$10 billion in revenue was set to open for competition, and less the next year. Companies in the industry responded with consolidation or trying to generate new, patented drugs.

Glenn Saldanha took the company down the path of seeking innovation, which was controversial within the company and with share holders. The company focused on new drugs and biosimilars in the fields of cancer, dermatology and respiratory diseases, which it sought to monetize by partnering with major pharmaceutical companies. In 2016 it had four such drugs in clinical trials. For the financial year 2016–2017 its sales were around 81 billion INR (ca. \$1.25 billion), making it the fourth-biggest Indian pharmaceutical company. In May 2019, Yasir Rawjee is elected as CEO of Glenmark Life Sciences.

Founded	1977
Founders	Gracias Saldanha
Headquarters	Mumbai, India
Products	Medicines and vaccines
Business area of the company	Drug Discovery and Formulations Business

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I have not failed. I've just found 10,000 ways that won't work. ~Thomas A. Edison

LEADING EDGE



MR. CHANDRAKANT KATHOTE

SITE HEAD AND VICE PRESIDENT- OPERATIONS

LUPIN LIMITED-BIOTECH DIVISION

1. Could you kindly provide glimpse of your organization? What role do you play in the organization?

Lupin is a well-established Pharmaceutical company with 18 manufacturing sites approved by USFDA, EMA (EU), PMDA (Japan) and other regulatory agencies and 9 Research sites across the globe. It is the 3rd largest Indian company and 8th largest generic company globally, by sales. It sells its products in over 100 countries and employs more than 20,000 people globally.

Chandrakant Kathote heads the entire site operations (Manufacturing, Engineering, Warehouse, Administration, EHS, Finance, Procurement, etc.) of the Biotech Division of Lupin.

2. Could you brief us about your educational details? Both school life and University life.

Chandrakant Kathote has completed his schooling from Nagpur and accomplished B. Pharm degree from Nagpur University Campus. He completed his M.Tech in Bioprocess Technology from Institute of Chemical Technology, Mumbai. To acquire general management skills, he also completed a one year on-campus Executive General Management Program from IIM Bangalore.

3. How did you break into the field you are in today?

I always wanted to do something different than a routine M. Pharm after my B. Pharm degree course and I learnt that Biotechnology was a emerging field at that point in time. I took a detour that time in my career and I am glad I did that as the future belongs to Biotechnology and many critical diseases can be cured or controlled by Biotech driven therapies.

4. What are the most interesting and/or current developments in your field?

The development of Biotech drugs from laboratory to the commercial front is very challenging, time consuming and highly capital intensive. One of the important blocks of the entire chain of activities is

If you don't value your time, neither will others. Stop giving away your time and talents- start charging for it. ~Kim Garst

the manufacturing facility and cost of operations. The current focus in Biotech Industry is on use of single use (Disposable) components/equipments which can be established with lesser capital investment and offers lot of flexibility with shorter cycle times.

5. Given the current circumstances, what do you feel about pursuing higher studies in the Healthcare field in a foreign country i.e. USA, Canada etc.?

India has some of the best Institutes offering courses in healthcare. I am not against pursuing a career in a foreign country but our country needs talent and the students should come back to our country and improve the overall healthcare system. India's export of Pharma drugs is around 20 Billion USD (140,000 Crore Rs) and we are one of the fastest growing country in the world.

6. What kind of opportunities does the Indian market promise as compared to foreign markets e.g. North America/Europe?

We are a big country with huge population and the government healthcare system does not cover a majority of population at the moment. The Government is proposing to roll out healthcare system to majority of population and that would open up bigger opportunity for the Indian players. The North American market certainly offers a much better pricing and hence the focus has to combine both the markets

7. Do you believe it is a good time to start up on your own- here in India? Or do you suggest the job security of a conventional 9-5 job?

I guess you are talking about start-up for a Pharma business. As you now, the Pharma Industry is highly regulated and the regulations are going to be stricter going forward to ensure patient security. Moreover, the industry is high on capital demand and requires special talent, hence I would not personally recommend starting on our own at this point in time. However, one can always explore opportunities in consulting business if they have relevant expertise and experience.

Also, one has to be flexible enough and constantly learn and adapt new things/technologies to sustain the ever changing job requirements.

8. What do you see lacking in young recruits today? What improvements would you suggest?

I have seen that the current generation is very sharp and knowledgeable than I was at similar age. I think the current generation needs to have patience; they seem to do so many things at the same time and get distracted. They should try to see the big picture of their career while making career choices or changing jobs.

9. We would love to hear what you think about the Pharmacy course in India. Kindly express your views.

Honestly, I haven't been keeping track of the course contents in the recent past but I guess it is changing for better. The course should balance the core technical aspects and what the Industry demands. Outside of India we see a lot of Industry-Academia interaction which I see missing in India. Once the Industry gets confidence that the Academic institutes would add value to the Industry requirements, the interaction can improve.

A successful man is one who can lay a firm foundation with the bricks others have thrown at him. ~David Brinkley

10. What is your message to young graduates/postgraduates in Pharmacy ...

The young graduates of today are very smart and I would advise that they should constantly keep track on the developments in the Pharma/Biotech Industry rather than only after completing the course. This would help them to understand the Industry needs on the knowledge front and they can modulate their focus accordingly.

11. Is there anything else you would like to share with us?

I think I have covered most aspects I wanted to and I am willing to help the students in whatever way I can.

