



ANJUMAN-I-ISLAM'S KALSEKAR TECHNICAL CAMPUS

Approved by : All India Council of Technical Education, Council of Architecture
& Pharmacy Council of India. Affiliated to University of Mumbai

ACCREDITED BY NAAC & CERTIFIED BY ISO 9001:2015

SCHOOL OF PHARMACY



VISION
To be the most sought after academic, research, practice based school of pharmacy that others wish to emulate

MISSION
Creating exuberant pharmaceutical professionals

R_x PLORE

2023-24

Celebrates
Successful Journey of



From modest beginnings, Anjuman-I-Islam has flowered into singular institution, unsurpassed in its efforts to spread education to the marginalized sections of the society.

Anjuman-I-Islam has over a period of time, since its inception, grown by leaps and bounds, continuing to give quality education to its students. Today it runs **97 institutions** and at a time approximately **one lakh ten thousand students** derive benefits from the education imparted by these institutions. It has about 3000 teaching and administrative staff who make these efforts a successful.

Anjuman-I-Islam is leading educational conglomerate and social organization of India, **established in the year 1874**, by a group of visionaries led by **Justice Badruddin Tyabji**. Its first heritage structure came on the piece of land donated by Mr. Mohammed Ali Roghay. The Founders of Anjuman-I-Islam proactively participated in India's freedom struggle and established Anjuman-I-Islam as a symbol of Secularism and National Integration. It was also the beginning of a movement to support community's advancement in education and social standing.

Today, after **150 years**, Anjuman-I-Islam Trust runs under the dynamic leadership of **Dr. Zahir I. Kazi. He is a radiologist by profession.** Anjuman-I-Islam has numerous Institutions from K.G (kinder garden) to diploma in Engineering, graduation and post-graduation in Engineering, Pharmacy, Architecture, Unani Medicine, Law, Arts, Commerce, Economics, Hotel Management and Catering, Management Studies, Home Science and Ph.D. in Engineering and Urdu across Maharashtra in various cities like, Mumbai, Navi Mumbai, Raigad, Pune, Solapur, Panchgani etc.



Anjuman-I-Islam's Kalsekar Technical Campus (AIKTC) established in 2011 and located at New Panvel is approved by All India Council of Technical Education (AICTE), New Delhi; Recognized by the Directorate of Technical Education (DTE) Maharashtra and is Affiliated to the University of Mumbai. AIKTC has state-of-the-art infrastructure and instructional facilities for undergraduate and post graduate students in various functional areas of specialization, viz. School of Engineering & Technology (Civil, Computer, Electrical, Electronics & Computer Science and Mechanical), School of Pharmacy; and School of Architecture. In a very short span of time, AIKTC has become a well-known campus in Navi Mumbai and evolved as a vibrant campus with good governance having well established systems and procedures.



PRESIDENTIAL ADDRESS

Anjuman-I-Islam's Kalsekar Technical Campus (AIKTC) stands as the most modern and high-tech educational campus in Navi Mumbai. AIKTC was established through the visionary efforts of Anjuman-I-Islam, India's foremost prestigious educational and social organization, founded 150 years ago in 1874. On October 17, 2020, Anjuman-I-Islam was honored with the prestigious Sir Syed Excellence National Award by Aligarh Muslim University (AMU) during a virtual ceremony commemorating Sir Syed Day. This magazine has been published to provide insight into the Degree in Pharmacy course. My best wishes to all for the successful culmination of this magazine.

Dr. Zahir I. Kazi

President, Anjuman-I-Islam, Mumbai
(Padma Awardee)



ADDRESS BY CHAIRMAN

At AIKTC, we offer highly sought-after courses to our stakeholders. Following the pandemic, the demand for impactful healthcare courses has risen significantly. The AIKTC School of Pharmacy, established in 2011, was founded with a vision to serve society. I am confident that this endeavor will enable us to thrive amidst the rapidly changing global educational landscape. This magazine aims to compile all activities conducted for the overall development of our Degree Pharmacy students. I extend my best wishes for the grand success of this latest initiative by AIKTC-School of Pharmacy.

Mr. Burhan Harris,
Hon. Executive Chairman,
Board for Institutions in Navi Mumbai,
Anjuman-I-Islam, Mumbai.



MESSAGE BY DIRECTOR

At AIKTC, we provide highly sought-after courses to our stakeholders. In the wake of the pandemic, the demand for impactful healthcare programs has surged significantly. Established in 2011, the AIKTC School of Pharmacy was founded with a vision to serve society. I am confident that this commitment will enable us to excel in the rapidly evolving global educational landscape. This magazine aims to showcase all activities conducted for the overall development of our Degree Pharmacy students. I extend my best wishes for the grand success of this latest initiative by the AIKTC School of Pharmacy.

Dr. Ramjan Khatik
Director,
AIKTC, New Panvel



MESSAGE BY DEAN

Welcome to the latest edition of our vibrant campus magazine! As the Dean of the School of Pharmacy, I am delighted to introduce this creative platform that captures the essence of our diverse community. Prepare for a delightful journey through the corridors of imagination, where words dance and ideas flourish. Our talented writers and contributors have poured their hearts and minds into these pages, bringing you stories that will make you ponder, laugh, and marvel. In this magazine, we celebrate not only the academic achievements of our students and faculty but also their unique talents and passions outside the classroom. From captivating articles on breakthrough research to stunning artwork that transcends boundaries, you will find inspiration at every turn. Let this magazine be a testament to the incredible talent and creativity that thrive within our campus. May it foster a sense of community and inspire each one of us to chase our dreams fearlessly. Thank you to everyone involved in making this magazine a reality. Your dedication and passion have truly brought it to life.

Happy reading, and let your imagination soar!

Dr. Shariq Syed
Dean, School of Pharmacy
AIKTC, New Panvel

Message from Editorial Committee



As the Editorial Committee of Rx PLORE Magazine, we are delighted to present the latest edition of our publication. This issue brings together a rich tapestry of voices, perspectives, and talents from our college community. We extend our heartfelt gratitude to all the contributors who have shared their work with us. Your creativity and dedication are the cornerstone of this magazine, and your efforts endlessly inspire us. We also want to thank our readers for your continued support and engagement. Your feedback motivates us to pursue excellence and innovation in every edition.

Faculty Coordinators:
Prof. Saba Shaikh

Student Coordinators:
**Mr. Sarfaraz, Mr. Kaif Qureshi,
Ms. Alfiya Mujawar, Mr. Ilhan**



STUDENT COUNCIL 2022-23



GENERAL SECRETARY (GS)	: Mr. Rajwad Mohammed Yonus
CULTURAL SECRETARY (CS, GIRL)	: Ms. Khan Rabiya
CULTURAL SECRETARY (CS, BOY)	: Mr. Mohd Munaf Shaikh
SPORTS SECTRETORY (SS, GIRL)	: Ms. Pradnya P. Mandake
SPORTS SECTRETORY (SS, BOY)	: Mr. Mohammed Ainan Ansari
TECHNICAL SECRETORY (TS)	: Ms. Siddiqa Shaikh
TPO STUDENT COORDINATOR	: Mr. Mohd Hasan Gandhi

EVENTS AND WORKSHOP

MERI MAATI MERA DESH 2023 CAMPAIGN

The school of pharmacy celebrated 'Meri Mati Mera Desh' campaign on 6th August 2023. The 'Meri Mati Mera Desh' campaign is an idea to celebrate India's soil and valour. The 'Meri Maati Mera Desh' campaign is a unique and innovative way of celebrating the 77th anniversary of India's freedom. School of pharmacy have participated in this nationwide campaign by taking pledge with soil.



STREET PLAY ON "WORLD OVERDOSE AWARENESS DAY"

The AIKTC School of Pharmacy celebrated World Overdose Awareness Day which was observed on August 31st to raise awareness about drug overdoses, reduce the stigma associated with substance use disorders, and commemorate those who have lost their lives due to overdoses. The students performed street play and gave a reminder of the devastating consequences of drug overdoses and the urgent need for comprehensive solutions, including prevention, treatment, and harm reduction strategies. As the world continues to grapple with this public health crisis, the collective commitment to addressing overdose awareness remains essential in saving lives and reducing the stigma associated with addiction.



FIRST-YEAR PHARMACY ORIENTATION PROGRAM

The first-year orientation program held on September 9, 2023, marked the beginning of an exciting journey for incoming students at our university. The program was meticulously designed to introduce students to campus life, academic expectations, and support services available to facilitate their transition into university education.



CAMPUS PLACEMENT DRIVE

AICE Healthcare Pvt Ltd . Company and team visited AIKTC-SOP on 17th October 2023 . The VP Mr Aji and Regional Sales Manager Mr. Idris Jariwala along with the coordinator Mrs. Deepali Deshmukh conducted orientation to the aspirants and took interviews for the 2023 passed out students.



INDUSTRIAL VISIT TO MAYER ORGANICS

An industrial visit was carried out at Mayer organized for second-year students on 9th November 2023 to explore different unit Operations carried out in the pharmaceutical industry, students got to explore various operating machines for tablet and capsule manufacturing.



PTM – FIRST YEAR B PHARMACY

PTM for first year B pharmacy students was conducted on 25th November 2023 to discuss their progress in exams and workout for the betterment with Parents.



INDUSTRIAL VISIT TO NULIFE PHARMACEUTICALS

The final year B.Pharm students Visited Nulife pharmaceuticals on 16th December 2023 to convert theoretical knowledge to practical content beyond the syllabus. students have exposure to the formulation of ointments, tablet and capsules with the packaging and printing. Lots of experimental knowledge exposure gained by the students regarding production and plant.



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OPHTHALMIC PROJECT COLLABORATION PROPOSAL

Dr. S. Fatima Siddiqui, renowned Ophthalmic surgeon visited our campus on 6th January 2024 to discuss potential ophthalmic projects with our School of Pharmacy Faculty members. Staytuned for innovative collaborations in healthcare!



MEDLEY INDUSTRIAL VISIT

On November 4, 2023, the third-year B.Pharm students had an enriching industrial visit to Medley Pharmaceuticals in Daman. This visit provided the students with valuable insights into the pharmaceutical industry's practical aspects, including drug manufacturing processes, quality control, and regulatory compliance. Such hands-on experiences are crucial for bridging the gap between academic knowledge and real-world applications, enhancing the students understanding of the industry and preparing them for their future careers.



EDUCATIONAL TOUR

Prof. Maria Lal along with final year students visited home and personal care exhibition cum conference on 18-19th January 2024 at Jio world convention centre Bandra.



PCI PRESIDENT VISIT

On March 22, 2024, Dr. Montukumar Patel, the President of the Pharmacy Council of India (PCI), visited the Anjuman-I-Islam Kalsekar Technical Campus in New Panvel. During his visit, Dr. Patel engaged with the pharmacy students, discussing the policies and initiatives implemented by the Government of India (GOI) and the PCI. Dr. Patel elaborated on the PCI's recent advancements and regulatory measures to enhance the quality of pharmacy education and practice in India. He emphasized the importance of staying updated with these policies to ensure that future pharmacists are well-prepared to meet the evolving demands of the healthcare industry. The students had the opportunity to interact with Dr. Patel, gaining insights into the role of the PCI in shaping pharmacy education and the initiatives aimed at improving the overall standards of pharmacy practice in the country.



WORLD PHARMACIST DAY CELEBRATION

Anjuman-I-Islam's Kalsekar Technical Campus hosted a vibrant Pharmacist Week event from 26th to 29th September 2023, aiming to promote health, awareness, and community engagement. The event spanned four days, featuring diverse activities and competitions, health camps, and social initiatives. The event commenced with the exciting unrolling of posters, setting the stage for a week filled with informative activities. Two competitions took center stage: a creative logo-making contest on T-shirts, video making competition and a Healthy Food Stalls competition, encouraging students to explore their culinary skills and promote nutritious eating habits. The second day was dedicated to community health and well-being. Various health camps were set up, providing essential services to attendees. These included bone density check-ups, eye examinations, a typhoid vaccination camp, women's health check-ups, general health check-ups, and dental examinations. Additionally, a blood donation camp in collaboration with Red Cross Society was organized, exemplifying the spirit of giving back to society.





The third day of the event was marked by a student rally led by the SY students, raising awareness about dengue and its prevention. Simultaneously, final-year students visited hospitals, gaining practical insights into pharmaceutical practices. A heart-warming Barapada camp was set up, where multi-specialty camp was organized was a sterling example of collaborative efforts leading to significant community benefits. The final day event was marked with Heckmed competition and expert talk on clinical management of Diabetes. The Pharmacist Week event at Anjuman I Islam Kalsekar Technical Campus proved to be a holistic approach to healthcare and community welfare. By combining educational competitions, health camps, and social initiatives, the event not only empowered the students with knowledge and skills but also emphasized the importance of giving back to the community. Through these efforts, the event not only educated but also inspired, making a significant impact on both the participants and the society they serve.



WORKSHOP ON GPAT EXAM STRATEGIES FOR SUCCESS

On 10th February 2024, Dr. Anwar Shaikh Rafique conducted a highly informative and interactive workshop on strategies to excel in the GPAT (Graduate Pharmacy Aptitude Test) exam. The workshop was organized primarily to benefit third-year (TY) and final-year pharmacy students. It aimed to equip them with the necessary skills and knowledge to crack the GPAT exam successfully.



FACULTY ACHIEVEMENTS

PHD AWARD

Congratulations to Prof. Abusufiyan Shaikh for being awarded a Ph.D. from Jawaharlal Nehru Technological University (JNTU) Hyderabad in the academic year 2023-24. This achievement is a testament to his dedication and hard work in his field of study. Earning a Ph.D. is a significant milestone in any academic career, marking the culmination of extensive research and contribution to knowledge. Prof. Abusufiyan Shaikh's accomplishment will undoubtedly inspire students and colleagues alike.



BEST TEACHER AWARD

Every year Anjuman-I-Islam organizes 'Best Teacher Award' to appreciate and motivate educators to strive for excellence in their teaching practices. Prof. Jayshree Patil recognized as Best Teacher for AY 2023-24. The award is received by Padmashree awardee Dr. Zahir Kazi, President, Anjuman-I-Islam; on the 150th anniversary of Anjuman-I-Islam and 26th January, 2024 at CST.



ONLINE NPTEL CERTIFICATION

Dr. Maryam Qureshi has completed NPTEL online certification 4 weeks course on the topic Teaching and Learning in General Programs: TALG from July to August 2023.



UDAAN 2024 POSTER PRESENTATION

The Udaan 2024 poster competition held on 31st January 2024, hosted by the Department of Lifelong Learning, Mumbai University, was a resounding success. It not only highlighted the innovative capabilities of TY B.Pharmacy students but also emphasized the importance of integrating academic learning with creative expression. The competition reinforced the value of interdisciplinary learning and the role of such events in nurturing the next generation of pharmaceutical professionals.



HPTLC WORKSHOP

The HPTLC training was organized at Anchrom pvt ltd by Prof. Ajaz on 2nd March 2024 for faculty members of pharmacognosy domain. The training aimed to enhance the knowledge and skills of faculty members in the area of HPTLC, enabling them to incorporate this technique into their teaching curriculum and research endeavors effectively.



PLACEMENT DRIVE

On May 3rd, 2024, Mr. Foorkan Fakki, the Training and Placement Officer (TPO), orchestrated a successful campus placement drive for the final year B.Pharm students of the 2023-24 batch at the School of Pharmacy (SoP). The prestigious event saw the participation of IKS Health Care, a renowned multinational corporation (MNC) in the healthcare sector.



LEADERSHIP DEVELOPMENT WORKSHOP

On April 27, 2024, Dr. Bhanuben Nanavati College of Pharmacy and Anjuman-I-Islam Kalsekar Technical Campus (AIKTC) jointly organized a leadership development workshop. This workshop was attended by faculty members from AIKTC, focusing on enhancing leadership skills and fostering professional growth. The event included various sessions designed to equip participants with the necessary tools and insights to effectively lead and manage within academic and technical settings.



PHARMAZEN PROJECT DAY

On 17-05-2024, final year students showcased their hard work, dedication, and innovation at the much-anticipated Project Day! PharmaZen. From groundbreaking research to innovative solutions, their presentations were nothing short of inspiring.



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RESEARCH GUIDE

Prof. Saba Shaikh guidance facilitated the student group's successful participation in Avishkar 2024. Her efforts have significantly contributed to the academic and professional growth of the students.



ACTIVE YRC COUNSELLOR AWARD

Prof. Saba Shaikh got the certificate of honour as "Active YRC Counsellor" for the year 2023-24 from the Indian Red Cross Society at the annual prize distribution function of the Indian Red Cross Society held on 24th February 2024 at Padmashri Homi J.H. Taleyarkhan Memorial Hall, Indian Red Cross Society Building, Fort, Mumbai.



RESEARCH GUIDE

Prof. Jayshree Patil, faculty of Anjuman-I-Islam Kalsekar Technical Campus (AIKTC), successfully guided a student group for the Avishkar 2024 competition. The event took place at Dr. Bhanuben Nanavati College of Pharmacy (BNCP) on December 9, 2023. She played crucial role in mentoring the student group, providing them with comprehensive guidance and support throughout their preparation. Her mentorship encompassed various aspects, including research methodology, project development, presentation skills, and overall strategic planning for the competition.



RESEARCH GUIDE

Prof. Ajaz Sayed was provided unwavering support and expert guidance to the student group delivered an outstanding performance at Avishkar 2024. In acknowledgment of his significant contribution, Prof. Ajaz Sayed was awarded a mentor certificate. This accolade highlights his commitment to fostering academic excellence and his role in the students' successful participation.



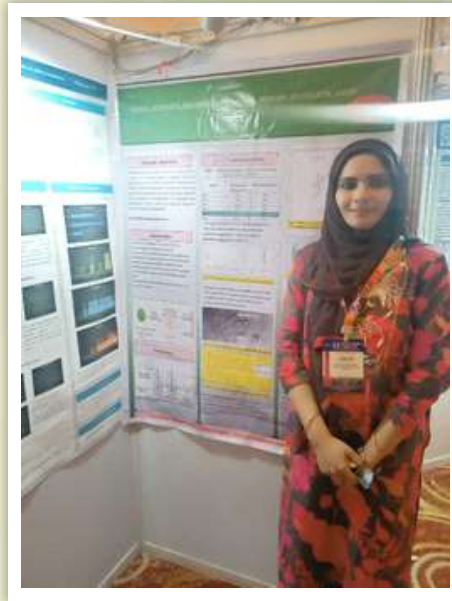
CERTIFICATION

Dr. Abusufiyan Shaikh on successfully completing the course on Prompt Engineering offered by Infosys. This accomplishment highlights his commitment to staying current with advancements in technology and furthering his expertise. Prompt engineering is an emerging and critical field, especially relevant in the context of artificial intelligence and natural language processing.



POSTER PRESENTATION

Prof. Maria Lal presented a poster on “Stimuli responses polymeric carriers for delivery of anti-acne agent” at Controlled Release Society (CRS), Indian chapter on 29th February 2024 to 1st of March.



RESEARCH GUIDE

Prof. Maria Lal mentorship was a key factor in the student group's success at Avishkar 2024. Her dedication and expertise not only facilitated the students' achievements but also contributed to the academic prestige of AIKTC. Prof. Maria Lal efforts exemplify the impactful role of a mentor in guiding and inspiring students towards excellence.



PAPER PRESENTATION

Ms. Sayed Tazeen Zahra presented a paper at the 4th Student Research Congress 2023 hosted by Shri Vile Parle Kelvani Mandal's Dr. Bhanuben Nanavati College of Pharmacy, co-hosted by University of Mumbai, it was an inspiring platform to exchange ideas and insights with peers in the field.



ARTICLE WRITING COMPETITION PARTICIPATION

Ms. Sayed Tazeen Zahra participated in the National Level Article Writing Competition on "Recent Advances in Science and Medicine" organized by Maulana Azad Education Trust's Y B Chavan College of Pharmacy, Aurangabad, in collaboration with Academic Decipher. It was an intellectually stimulating opportunity to explore and discuss the latest breakthroughs in the realm of science and medicine



BEST PROJECT AWARD

Khan Rehan & Muneeba Siddique got second prize in Technoscope 2k24 National-level project competition held on 9th March 2024 at AIKTC.



STUDENT ACHIEVEMENTS

ANCHOR FOR MUMBAI UNIVERSITY DLLE EVENT

Mr. Kaif Qureshi was selected as an anchor for the Mumbai University DLLE event uidaan. uidaan is an event where student shows up their talent through street play, poster making, elocution etc. 130 students participated as a contestant among them only 20 students were chosen for anchoring and Mr. Kaif Qureshi was one among them representing AIKTC at University level.



BEST YRC VOLUNTEER AWARD

Three of our YRC students Qureshi Mohammad Kaif Nasir, Shah Sarfaraz Ahmed, and Shaikh Mohammad Ilhan Imran got the best volunteer certificate from the Indian Red Cross Society at the annual prize distribution function of the Indian Red Cross Society held on 24th February 2024 at Padmashri Homi J.H. Taleyarkhan Memorial Hall, Indian Red Cross Society Building, Fort, Mumbai.



VERNACULAR SPEECH AWARD

Mr. Kaif Qureshi got 1st price in vernacular speech competition held at Bonhomi 2024 AIKTC.



RESEARCH CONTRIBUTION

Editorial: Novel theranostic agents for precision therapeutics

Shahid Karim^{1*}, Nasir Ali Siddiqui², Mohammad Imran Khan³, Muhammad Wahajuddin⁴ and Shariq Syed⁵

¹Department of Clinical Pharmacology, Faculty of Medicine, King Abdulaziz University, Jordan, Saudi Arabia, ²Department of Pharmacology, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, ³Research Center, King Fahad Specialist Hospital and Research Center, Jeddah, Saudi Arabia, ⁴Institute of Cancer Therapeutics, School of Pharmacy and Medical Sciences, Faculty of Life Sciences, University of Bradford, Bradford, United Kingdom, ⁵School of Pharmacy, Arqam Park, Karamah, Technical Campus, Nusa Purabaya, Inda

Keywords: diagnostic, delivery platforms, theranostics (combined therapeutic and diagnostic technology), small molecules, nanotechnology

Dr. Shariq Syed has published editorial article entitled "Editorial: Novel theranostic agents for precision therapeutics" in the Journal of Front. Pharmacol., 17 April 2024 Sec. Experimental Pharmacology and Drug Discovery Volume 15 - 2024



Prof.. Saba Shaikh has published article entitled "Comparative Teratogenic and Skin whitening effect of Herbal extract Glycyrrhiza glabra and Citrus sineus on Zebrafish (Danio rerio) in the Research Journal of Pharmacy and Technology (Scopus Index Journal), 2024; 17(2):659-4. doi: 10.52711/0974-360X.2024.00102



Prof. Maria Lal published article entitled "Formulation and evaluation of layered chewing gum tablet containing Doxylamine succinate" in the Journal of Emerging Technologies and Innovative Research, August 2023, Volume10, Issue-8



Dr. Mirza Salman Baig published article entitled "Formulation and evaluation of Ocuserit Embedded with Ciprofloxacin loaded Nanoparticle" in the journal International Journal of Advancement in Life Sciences Research, Volume-7, 2023



ALUMNI INTERACTIONS

The Alumni Talk Series aimed at fostering connections between current students and accomplished alumni. The series featured talks from distinguished alumni across various fields, providing valuable insights, career advice, and networking opportunities for the students.





KALSEKAR TECHNICAL CAMPUS
 SCHOOL OF PHARMACY

ALUMNI EXPERT TALK SERIES
 Date : 15th September
 10:30 am - 11:30 am

Ms Pradnya Mahadik
Quality Assurance Auditor

Ms Pradnya Mahadik is a meticulous Quality Assurance auditor with experience in conducting in-process Quality audit of analytical phase of studies. She is involved in checking qualifications and calibration records of the equipment.



VENUE
 Pharmacy Seminar Hall



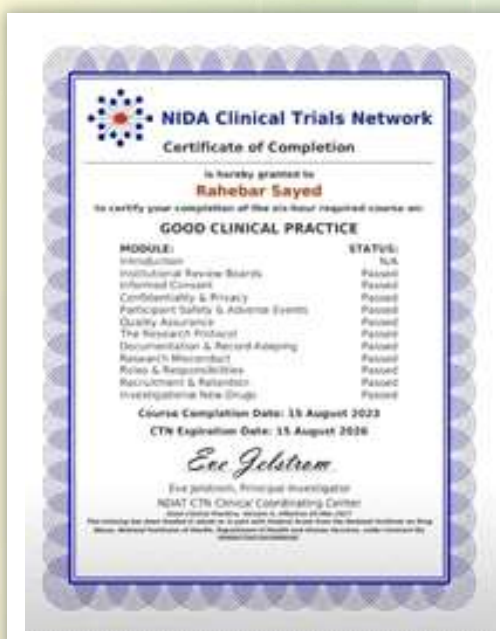
STUDENT ONLINE CERTIFICATION

Sayyed Khawla Hashmi has successfully completed NPTEL course on Research methodology.



STUDENT ONLINE CERTIFICATION

Sayed Rahebar has successfully completed Good Clinical Practice.





Prof. Jayshree Patil published article entitled with "Enhancing Gastrointestinal Tolerance - The Promise of Mutual Prodrugs in NSAID Therapy: A Review" in the International Journal of All Research Education and Scientific Methods (IJARESM) in January-2024: Volume 12, Issue 1, 1227-1241.



Mr. Mohammad Hasan Mohammad Asif Gandhi, a student of TY. B.Pharm published a paper titled "Review on application of one of the most valuable players of amino acids: L-Lysine" in the 2 March to 2 April issue of International Journal of Pharmaceutical Research and Applications.



Prof. Reshma Y published article entitled with "Utilisation of kitchen waste- Derived substrate for Bio-enzyme production: A Comprehensive Review" in the International Journal of All Research Education and Scientific Methods (IJARESM) in March-2024: Volume 12, Issue 3.



KEY STUDENT PLACEMENT

Ms. Snehal Shinde, an alumna of our institution, has been successfully placed at GeBBS Healthcare. This achievement underscores her dedication and the quality of education she received here. We are proud of her accomplishments and wish her continued success in her professional journey.



Ms. Sanskruti Bhoir, an alumna of our institution, has embarked on her journey to pursue higher studies at the University of Bologna in Italy. This significant step highlights her commitment to academic excellence and continuous learning. We are proud of her achievements and wish her great success in her future endeavours.



Mr. Gaurav Bhatti secured admission offers from top-ranked masters programs in Healthcare Informatics. His outstanding academic achievements have paved the way for an exciting research journey ahead.



AIKTC-YOUTH RED CROSS CHAPTER

AIKTC School of Pharmacy started the "AIKTC-Youth Red Cross Maharashtra" chapter on youth development. The Youth Red Cross in Maharashtra is likely a branch or unit of the Indian Red Cross Society, specifically focused on youth involvement and participation in humanitarian activities. The Indian Red Cross Society is a prominent humanitarian organization in India, and its Youth Red Cross wing engages young people in various social service and health-related initiatives.

YRC Coordinator: Prof. Saba Shaikh



DEPARTMENT OF LIFELONG LEARNING AND EXTENSION UNIT [DLLE], AIKTC SCHOOL OF PHARMACY

The Department of Lifelong Learning and Extension [DLLE] has been recognized as a statutory Department of the University of Mumbai since 1994 to promote a meaningful and sustained rapport between the Universities and the community. The DLLE seeks to facilitate the sensitization of students to socio-cultural realities. Degree College Students take up extension work projects related to social issues, for which they are awarded 10 additional marks in their final examinations on successful completion of 120/240 hours of work, and the submission of the project report in time.

DLLE Coordinator, MU- Prof Maria Lal



Three of our distinguished final-year B.Pharm students from the batch of 2020-24, Mr. Abdul Basit Khan, Mohammad Javed Khan, and Mohd Rehan Ansari, have successfully secured placements at TCS BPS Sigma. This significant achievement is a testament to their dedication, hard work, and the high-quality education they have received at our institution.



ALUMNI MEET

The AIKTC School of Pharmacy hosted an alumni meet on the 25th of May, 2024. The event aimed to reconnect with former students, provide a platform for networking, and share updates on the institution's progress and future plans. The alumni meet at AIKTC School of Pharmacy was a resounding success, fostering a sense of community and collaboration among former students and the institution. It strengthened alumni relations and provided valuable insights into the future direction of the school and its graduates.



CONVOCATION 2023

The AIKTC hosted its annual convocation ceremony on the 25th of May, 2024. This momentous event celebrated the academic achievements of graduates and marked the beginning of their professional journeys. The convocation ceremony at AIKTC Auditorium on 25th May 2024 was a resounding success, celebrating the achievements of the graduates and marking a significant milestone in their academic journey. The event fostered a sense of pride and accomplishment, leaving a lasting impression on all who attended.



BACK TO NATURE: WORLD HERBAL MEDICINE MARKET TO INTENSIFY BY 2028

The global market for herbal medicine has been steadily growing, with significant demand in developing nations. This growth is driven by population increase, recognized health benefits of herbal products, and their perception as safer and more cost-effective alternatives to pharmaceutical drugs. Herbal medicines are increasingly important for health and well-being.

In developing countries, traditional medicine is a primary healthcare source for large segments of the population. In Africa and India, up to 90% and 70% of people, respectively, rely on traditional medicine. In China, traditional medicine accounts for around 40% of healthcare, with most hospitals having traditional medicine units. In the U.S., approximately 38% of adults and 12% of children use some form of traditional medicine.

The World Health Organization (WHO) plays a crucial role in shaping the herbal medicine market, significantly influencing demand through its policies and awareness programs. Almost 90% of WHO member states have developed policies and programs for traditional and complementary medicine (T&CM), aligned with the WHO's Global Traditional and Complementary Medicine Strategy 2014-2023. The WHO's efforts to raise awareness about the benefits and risks of herbal medicine promote responsible use and drive market growth.

Public perception also drives demand for herbal medicines, which are seen as having lower toxicity compared to synthetic drugs. Enhancements in national T&CM governance and infrastructure further support market expansion.

The global herbal medicine market was valued at \$153.5 billion in 2022 and is projected to grow at a compound annual growth rate (CAGR) of 10.6%, reaching \$279.8 billion by 2028. Major market players include Bayer AG, Herbalife Nutrition Ltd., Dabur India Ltd., Patanjali Ayurved Ltd., and Blackmores Group.

Prof. Ajaz Sayed (Assistant Professor)



VALUE-ADDED COURSES FOR 2023-24



In the academic year 2023-24, students from the Anjuman-I-Islam's Kalsekar Technical Campus (AIKTC) – School of Pharmacy actively engaged in various National Programme on Technology Enhanced Learning (NPTEL) courses and other value-added programs to enhance their skills and knowledge. NPTEL is a significant initiative by the Indian Institutes of Technology (IITs) and the Indian Institute of Science (IISc) that offers online courses and certifications in various fields of engineering, science, and humanities. AIKTC students leveraged this platform to broaden their educational experience and gain certifications that are recognized nationwide.

Faculty Coordinator: Prof. Prerana Sanas

KEY HIGHLIGHTS:

1) Courses Offered:

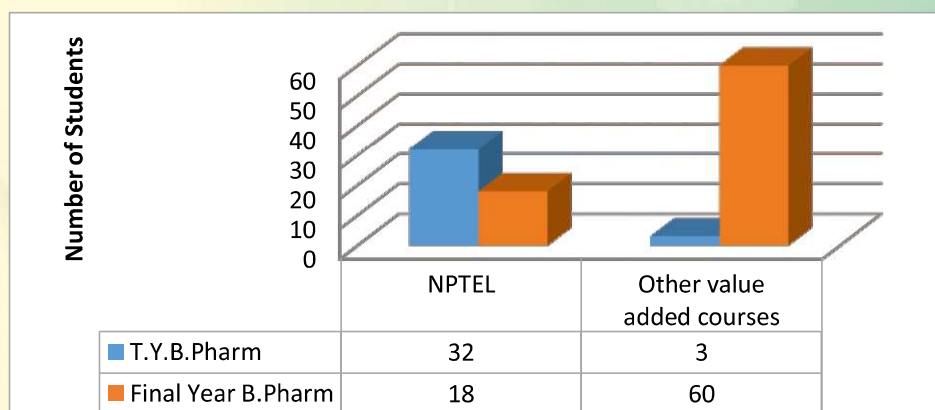
The NPTEL courses covered a wide range of subjects including softs skills, body language, analytical chemistry, clinical trials, computer aided drug designing, current regulatory affairs etc .

2) Student participation:

A considerable number of AIKTC students enrolled in these courses. The exact number of participants and course completion rates are being compiled for internal records. Students who successfully completed the courses received certifications that add significant value to their academic profiles and employability.

PARTICIPATION IN VALUE-ADDED COURSES

Apart from NPTEL, AIKTC also facilitated various value-added courses tailored to meet industry demands and enhance practical skills among students. One of the value added course was conducted at the institute on “Pharmaceutical Marketing Mangement”. Other than this students participated in various online platforms like Courser, Udemy , Edx etc throughout the year . The courses received positive feedback for their relevance and practical approach, significantly contributing to students' overall development.



Students of Third Year and Final Year B. Pharm participated in various value added courses

THE FUTURE OF MEDICATION ADHERENCE: A PILL FOR EVERY ILL

Taking medications as prescribed can feel like a daily chore, but for those with chronic illnesses, it's a lifeline. Unfortunately, medication adherence – sticking to your regimen – is a major hurdle in healthcare. The good news? The future of medication adherence is brimming with innovative solutions.



- **The High Cost of Low Adherence** Studies show that roughly half of patients don't take their medications as prescribed. This "non-adherence" is a hidden monster, leading to worsened health outcomes, increased hospitalizations, and ballooning healthcare costs.
- **Tech to the Rescue: Smart Pills and Digital Reminders** Technology is stepping up to be our medication buddy. Smart pill bottles with integrated timers and refill alerts can send gentle nudges. Smartphone apps offer medication schedules, track adherence, and even connect you to pharmacists for support. The future gets even more futuristic with ingestible biosensors. These tiny marvels can be embedded in pills and transmit signals upon reaching the stomach, confirming medication intake.
- **Beyond the Beep: Personalized Support and Tailored Solutions** While tech is powerful, it's not a magic bullet. The future of medication adherence recognizes the human element. Imagine personalized coaching programs that address the root causes of non-adherence – forgetfulness, side effects, or difficulty managing complex regimens. Telemedicine consultations with pharmacists can provide crucial support and address medication concerns in real-time. Additionally, medication packaging is being redesigned for ease of use, with features like single dose blister packs and color-coded reminders.
- **A Future United: Patients, Providers, and Pharma** The most promising future for medication adherence involves a united front. Patients empowered with knowledge and user-friendly tools, providers who actively assess adherence and offer solutions, and pharmacists who act as medication coaches – this collaboration is key. With a blend of cutting-edge tech, personalized support, and a collaborative healthcare approach, the future of medication adherence is bright, promising a healthier tomorrow for all.

Mr. Ilhan Shaikh (TY B.Pharm)



HANDLE WITH CARE: THE DELICATE BALANCE OF PRESCRIPTION DRUGS”

“Prescription drugs have the power to heal, but also the potential to harm if not used correctly.” –Dr. Sarah Jones, Pharmacologist

Prescription medications play a vital role in modern healthcare, offering effective treatments for various illnesses and conditions. However, these powerful drugs demand careful handling and responsible use to maximize their benefits while minimizing risks.

- **The Healing Potential:** When used as directed, prescription drugs can save lives and significantly improve quality of life. Antibiotics combat infections, insulin regulates blood sugar for diabetics, and chemotherapy targets cancer cells. For many, prescription medications are essential for managing chronic conditions like heart disease and arthritis.
- **Risks and Side Effects:** Despite their benefits, prescription drugs carry risks that cannot be ignored. Potential side effects range from mild issues like nausea or headaches to severe reactions or complications. Improper use, mixing medications, or overdosing can lead to addiction, organ damage, or even fatal outcomes.
- **Striking the Right Balance** To harness the healing power of prescription drugs while mitigating risks, responsible use is paramount:
 - Follow dosage and usage instructions precisely as prescribed.
 - Disclose all medications to your doctor to avoid dangerous interactions.
 - Never share or take medications prescribed for others.
 - Store medications properly and dispose of expired drugs safely.
 - Report any unusual side effects promptly to your healthcare provider.

Prescription drugs are potent medical tools that demand vigilant monitoring and care. By respecting their delicate nature and using them responsibly under professional guidance, patients can benefit from enhanced health while avoiding potential harms. Handle prescription drugs with care for optimal healing.

Mr. Kaif Qureshi (TY B.Pharm)



HOSPITAL PHARMACY

Hospital pharmacy and management provide valuable insights into various aspects of the field, emphasizing the importance of effective pharmacy operations in enhancing patient care and hospital efficiency.

1. One study highlights the pivotal role of hospital pharmacies during the COVID-19 pandemic. It details how clinical pharmacy teams adapted by extending their service hours, ensuring around-the-clock availability, and engaging in intensive training programs for pharmacists. These measures enabled better management of investigational drugs and adherence to updated treatment guidelines, significantly contributing to patient care and safety (BioMed Central).
2. Another article from the European Journal of Hospital Pharmacy reviews the use of machine learning models to detect inappropriate prescriptions in hospital settings. This systematic review suggests that incorporating advanced technologies can improve prescription accuracy and reduce medication errors, thus enhancing patient outcomes (BMJ Evidence-Based Hospital Pharmacy).
3. Additionally, a study published in the International Journal of Environmental Research and Public Health discusses the impact of hospital pharmacy operations on the quality of patient care. It emphasizes the importance of efficient drug distribution systems, such as unit-dose and multi-dose systems, and highlights the challenges of implementing modern distribution methods within hospital settings (MDPI).

An analysis of the financial aspects of hospital pharmacy management, focusing on strategies to reduce costs while maintaining high standards of patient care. This includes optimizing drug procurement processes and implementing cost-saving measures across the pharmacy department (PSNet).

These articles collectively underscore the critical role of hospital pharmacies in ensuring safe, effective, and efficient healthcare delivery. They also highlight ongoing innovations and adaptations in the field, driven by both technological advancements and the need for responsive healthcare systems during emergencies like the COVID-19 pandemic.

Ms. Alfiya Mujawar (TY B.Pharm)



ARTIFICIAL INTELLIGENCE: PIONEERING PERSONALIZED LEARNING IN INDIAN HIGHER EDUCATION

Imagine a classroom where personalized learning is the norm, where each student's unique needs are met in real-time. This is not a distant dream but the burgeoning reality of AI in higher education, especially in a rapidly evolving country like India.

AI is revolutionizing how we learn and teach, opening up unprecedented opportunities for personalized learning. Personalized learning tailors educational experiences to individual student needs, preferences, and learning paces, transforming traditional education into a more dynamic and engaging journey.

Consider the example of a large private University, where an AI-powered chatbot assists students with personalized academic advice, administrative queries, and even exam schedules. By handling over 100,000 queries, AI Chatbot allows faculty to focus more on teaching and mentoring. This AI intervention has not only improved administrative efficiency but also provided students with instant, tailored support.

Similarly, the Indian Institute of Technology (IIT) Bombay uses AI to predict student dropouts. By analyzing data from various touchpoints like attendance, grades, and participation in extracurricular activities, AI algorithms can identify at-risk students early. This allows for timely, personalized interventions, significantly reducing dropout rates and helping students succeed.

Adaptive learning platforms are another significant innovation. For instance, the National Programme on Technology Enhanced Learning (NPTEL) uses AI to offer personalized learning experiences. These platforms analyze how students interact with the material, adjusting the difficulty level in real-time to match each student's learning pace. This ensures that every student receives an education that is both challenging and comprehensible, enhancing engagement and comprehension.

However, integrating AI in education comes with its challenges. In India, concerns about data privacy and the digital divide must be addressed. Ensuring equitable access to AI tools for students across various socio-economic backgrounds is crucial. Additionally, continuous oversight is necessary to prevent algorithmic bias and ensure fairness.

The future of higher education in India is bright with AI. By embracing these technological advancements, we can create a more inclusive, efficient, and inspiring educational environment. Personalized learning promises a world where every student, regardless of their background, can thrive. The classroom of tomorrow is here today, promising a world where every student can achieve their full potential.

Dr. Shariq Syed
Dean, School of Pharmacy



NEXCAR19: INDIA'S GROUNDBREAKING LEAP IN AFFORDABLE CANCER THERAPY

Could a breakthrough in cancer treatment come from right here at home? The answer is a resounding yes. India's first home-grown gene therapy for cancer, NexCAR19, is a beacon of hope in the field of advanced medical science. Developed by the collaborative efforts of IIT Bombay, Tata Memorial Centre, and ImmunoACT, this CAR-T therapy has positioned India prominently on the global map of cell and gene therapy.

Launched by the President of India, Smt. Droupadi Murmu, NexCAR19 stands out not only for its innovation but also for its affordability. It is the world's most cost-effective CAR-T therapy, making a life-saving treatment accessible to many who previously could not afford it. This monumental achievement was celebrated at IIT Bombay with notable figures like Governor of Maharashtra, Shri Ramesh Bais, and the key contributors from IIT Bombay and Tata Memorial Centre, including Prof. Rahul Purwar, Dr. Hasmukh Jain, and Dr. Gaurav Narula.

CAR-T cell therapy, considered a revolutionary advance in medical science, involves a sophisticated process where a patient's T cells, a type of immune cell, are collected and genetically modified in a lab. These modified cells, now equipped with Chimeric Antigen Receptors (CARs), are designed to specifically target and destroy cancer cells. After modification, the CAR-T cells are multiplied in the lab and then infused back into the patient's bloodstream. Once in the body, these cells seek out and bind to cancer cells, unleashing a potent immune response to eradicate the malignancy.

While this treatment has been available in developed nations, its high cost has been a significant barrier. The introduction of NexCAR19 changes that narrative, offering new hope for cancer patients in India and beyond.

The President highlighted this therapy as a stellar example of academia-industry partnership, showcasing the potential of collaborative efforts in achieving groundbreaking advancements. Governor Bais praised the initiative as a pivotal moment in India's medical history, aligning with the vision of a progressive and self-reliant India, or Vikasit Bharat.

NexCAR19 is more than just a medical advancement; it symbolizes hope and the power of collaboration. As India steps onto the global stage with this pioneering therapy, we are reminded that with determination and partnership, even the most formidable challenges can be overcome. The future of cancer treatment looks brighter, and it begins here, at home.

Dr. Shariq Syed
Dean, School of Pharmacy



INDIA'S PHARMACEUTICAL LANDSCAPE: KEY STATISTICS AND ACHIEVEMENTS

Pharmaceutical Industry Overview

- Market Size: The Indian pharmaceutical industry is the third-largest in the world by volume and 14th by value, with a market size of approximately USD 42 billion as of 2023.
- Growth Rate: The industry is expected to grow at a CAGR of 10-12% over the next five years.
- Exports: India is the largest provider of generic medicines globally, exporting to over 200 countries. In 2023, pharmaceutical exports were valued at around USD 24 billion.

Healthcare and Medication

- Access to Medicines: Around 75% of India's population has access to essential medicines, a significant improvement over the past decade.
- Affordable Care: India's generic drug market is crucial in providing affordable healthcare, with generic drugs accounting for 70-80% of the retail market.
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Research and Development

- -R&D Spending: Indian pharmaceutical companies spend approximately 8-10% of their revenues on R&D, contributing to the development of new drugs and therapies.
- -Clinical Trials: India conducts over 1,500 clinical trials annually, making it a significant player in global drug development.

Education and Employment

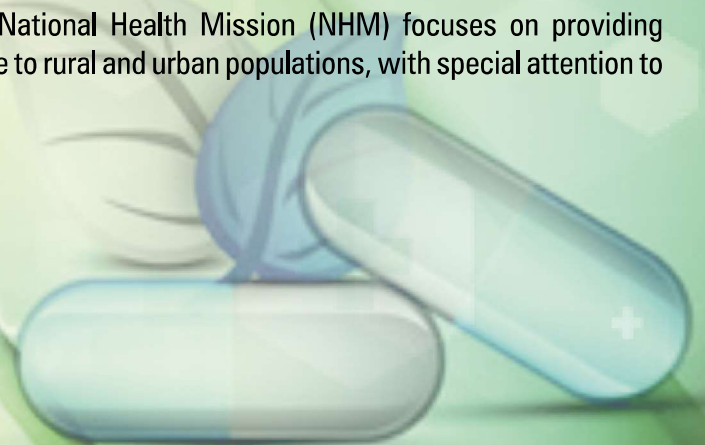
- Pharmacy Graduates: India produces around 30,000 pharmacy graduates each year, contributing to a skilled workforce in the pharmaceutical sector.
- Employment: The pharmaceutical industry in India employs over 2.7 million people, including a significant number of women in various roles.

Innovations and Achievements

- Indigenous Vaccines: India is a leading producer of vaccines, with Indian companies supplying over 50% of the global demand for various vaccines, including those for polio and measles.
- Breakthrough Therapies: Highlight the development of NexCAR19, India's first home-grown gene therapy for cancer, as a significant achievement in the field.

Public Health Initiatives

- Ayushman Bharat: The Ayushman Bharat scheme, also known as the Pradhan Mantri Jan Arogya Yojana (PM-JAY), aims to provide health coverage to over 500 million Indians, significantly increasing access to medical care.
- National Health Mission: The National Health Mission (NHM) focuses on providing affordable and quality healthcare to rural and urban populations, with special attention to maternal and child health.



UNDERSTANDING THE DIFFERENCE: GENERIC VS BRANDED MEDICINE

When it comes to medication, understanding the difference between generic and branded medicines is crucial for making informed decisions about healthcare. Let's delve into the characteristics, similarities, and differences between these two types of medication.

Generic Medicines: These are copies of brand-name drugs that have the same dosage, safety, strength, quality, performance, and intended use as the original drug. Generics usually cost less than branded medications and are typically marketed after the patent on the original drug expires.

Branded Medicines: Branded medicines are developed and sold by pharmaceutical companies that hold patents on them. These drugs are often marketed under a specific brand name and can be more expensive than their generic counterparts due to research, development, marketing, and patent costs.

Similarities between Generic and Branded Medicines

1. **Active Ingredients:** Both generic and branded medicines contain the same active ingredients, meaning they have the same chemical composition and work in the body in the same way.
2. **Safety and Efficacy:** Regulatory agencies, such as the FDA in the United States, require generic drugs to meet the same stringent standards for safety, efficacy, and quality as branded drugs. This ensures that both types of medications are equally safe and effective when used as prescribed. Differences between Generic and Branded Medicines

Difference between branded and generic medicine

1. **Cost:** Generics are often more affordable than branded medications because their manufacturers don't have to cover the costs of drug development and marketing. This makes them a more cost-effective option for patients and healthcare systems.
2. **Appearance and Packaging:** Generic drugs may look different from their branded counterparts in terms of color, shape, and packaging. However, their active ingredients and therapeutic effects remain the same.
3. **Brand Recognition:** Branded medications are often more recognizable to patients because of extensive marketing efforts by pharmaceutical companies. Some patients may have a preference for branded drugs due to familiarity or perceived differences in quality.

Mr. Sarfaraz (TY B.Pharm)



पहली कमाई!!!

हाथ में जब आई पहली कमाई,
कुछ पलों में आंखे भर आई।

पापा की कड़ी मेहनत दी दिखाई,
मां की कंजूसी तब समझ आई।

पैसों से चलती है यह दुनिया,
लोग देते रहे सदा इसकी दुहाई।

बिना सोचे - समझे मैं घर में लाई मिठाई,
हां, शायद मैं घर का बेटा बन पाई।

इतनी ज़्यादा राशि तो हाथ ना लग पाई,
मगर मां की अखियन में हल्की नमी छाई।

बस यही थी मेरी छोटी सी कहानी,
जो मैंने आपको इस कविता में सुनाई।।

- तनु त्रिपाठी



LYING

I'd be lying if I say "I'm not affected by anything",
Because every tiny things around me pinches straight in my soul
Whether it's about apperance or ignorance!
I've seen many beautiful girls with almost perfect hairs, eyes, makeup, skin tone, clothes bags everything
Then I look at myself I get this little inferiority feeling in my heart whenever they check me out,
& I calm myself down in a very pleasant way, that they can't be me, they can't see the world from my perspective, they can't write magical poems, they can't be so simple yet classy at the same time....
But this inferiority feeling only last max to Max for 5 seconds only 'cuz I do really have many important things to worry about rather than this thing,
I've seen many people who are just trying to get my attention in every possible way, I do notice all of them in their every moves, I've my eyes on them but once I confirmed that they are okay without me or having fun without my presence then I silently move aside from their ways forever.
It's totally not their fault because I didn't give them what they wanted from me,
So I just live like that in a way.....

- Tanu Tripathi