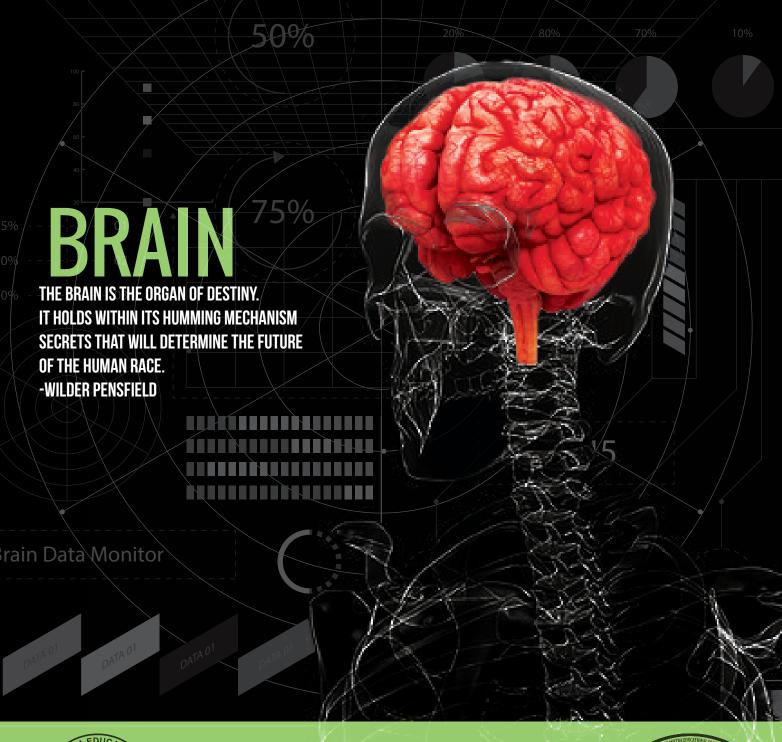
IMPULSE'22





Maharashtra Educational Society's

H. K. COLLEGE OF PHARMACY

Pratiksha Nagar, Oshiwara, Jogeshwari(W), Mumbai - 400 102.



The Oath of a PHARMACIST

I swear by the code of ethics of the Pharmacy council of India in relation to the community and shall act as an integral part of the healthcare team.

T shall uphold the laws and standards governing my profession.

T shall strive
to perfect
and enlarge my
knowledge to
contribute to
the advancement
of pharmacy and
public health.

I shall follow
the system,
which I considered
the best for
pharmaceutical
care and
counseling of
patients.

I shall endeavor to discover and manufacture drugs of quality to alleviate the sufferings of humanity.

I shall hold in confidence the knowledge gained about the patients in connection with professional practice and never divulge unless compelled to do so by the law.

I shall associate with organizations having their objectives for the betterment of the profession of pharmacy and make a contribution to carry out the work of those organizations.

While I continue to keep this oath inviolate, it may be granted to me to enjoy life and the practice of pharmacy respected by all, at all times.

Should I trespass and violate this oath, may the reverse by my lot!

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It gives us immense joy and happiness to present our very own college Annual Magazine Impulse '22.

EDITORIAL MESSAGE

Impulse is a platform where students showcase their talents, skills, and accomplishments. It has been launched with great zeal and enthusiasm. It forms a connecting link between science whizz and artistic innovations. Both students and professors contribute actively to the publication, which is greatly appreciated.

Impulse doesn't just highlight the glory of the college; it also provides a platform for the students to showcase their talent. While reading Impulse, we strive to make each reader lose track of time, even with their busy schedules.

Finally, we are grateful to everyone who has contributed to Impulse. We hope you enjoy reading it as much as we liked creating it.

HKCP MANAGEMENT



Mrs. Humera Khan PRESIDENT



Mr. Waseem Javed Khan GENERAL SECRETARY

Dr. Azeem Javed Khan TRUSTEE



UISION

To be recognized as the institution providing quality education in pharmacy to serve the healthcare sector.

MISSION

By imparting knowledge in the field of pharmacy through continuous improvement in integrated teaching learning process.

All round development of the students by inculcating sense of ethical practices, social empathy and management skills.

Encourage students towards higher education and research.

AFFILIATIONS

All India Council For Techincal Education (A.I.C.T.E.)

Directorate of Technical Education (D.T.E.), Maharashtra.

Pharmacy Council of India (P.C.I.)

University of Mumbai

ISO 9001:2008

H K College of Pharmacy was established in 2006 by the visionary president of 'Maharashtra Educational Society', Late Prof. Javed Khan to provide excellence in education in the field of pharmacy.

FOUNDER PRESIDENT

"A better educated generation a better future for our nation."

"It has always been our goal to bring out the best potentials in the students, to provide competent pharmacists to the society. It will always be our endeavor to extend our knowledge and expertise to the students to enable them contribute to the pharmacy profession in all aspects such as research, hospitals, drug stores, industry, etc. We at H K College of Pharmacy must always encourage our students to participate not only in the competitive exams, but also in extracurricular and co-curricular activities.

The management, staff, parents and faculty must all be committed to provide support to the students who will make a great future in the field of pharmacy. I extend my best wishes to all the aspiring pharmacy students."

LATE PROF. JAVED KHAN

EDUCATIONIST, PHILANTHROPIST, SOCIAL REFORMER

Former Minister of Education, Housing & Labour Welfare - Govt. of Maharashtra

Former Chairman - CIDCO

PRESIDENT'S MESSAGE

H.K College of Pharmacy was established with the vision to provide quality education in the field of pharmacy. Here, students are imparted with the knowledge and skill sets which enable them to become successful professionals in the field of pharmacy. They are always encouraged to participate not only in the competitive exams but also in extra-curricular activities. Various cultural events and sports events allow the students to explore themselves.

'Impulse' - the annual college magazine is yet another activity to encourage the hidden talents in students and improve their interpersonal skills. Along with the display of the college's achievements, the magazine also features various informative articles and creative artworks.

At H.K. College of Pharmacy, the Management, Staff, and Faculty are all committed to providing support to the students to help them make a bright future in the field of pharmacy.

I extend my best wishes to all the Students, Faculty Members, and Editors of Impulse 2022.



Mrs. Humera Khan
President,
Maharashtra Educational Society

TRUSTEE'S MESSAGE

H.K College Of Pharmacy has tried to provide the best education, research innovation and job opportunities in the field of Pharmacy. The college has always strived at providing quality education to the students. We at H.K College Of Pharmacy always encourage students not only to participate in competitive exams but also other co-curricular activities. We instill in them a positive value system that shapes their attitude, outlook and conduct, that provides a strong foundation for them to tackle the challenges of life.

We procure the support of a strong team of faculty members, who wholeheartedly put their efforts to motivate our students and guide them to progress at every step. H.K College Of Pharmacy aims at not only educating the young to be successful Pharmacists, Professionals and Entrepreneurs but also to churn out socially responsible human beings of tomorrow. The college aims at providing a learner-centered environment to the students and imparting knowledge to them.

I extend my good wishes to all the students and wish them success in their academic career and future endeavors.



Dr. Azeem Javed KhanTrustee
Maharashtra Educational Society

GENERAL SECRETARY'S MESSAGE



Mr. Waseem Javed Khan General Secretary, Maharashtra Educational Society

H.K College Of Pharmacy has been committed to improving societal health by providing quality education in Pharmacy since its establishment in 2006. We lay stress on imparting quality education to our students for their all-round development to of the college. 'Imp the mind of the reaction the institute. I extend to our students for their all-round development to of the college. 'Imp the mind of the reaction to our students for their all-round development to of the college. 'Imp the mind of the reaction to our students for their all-round development to of the college. 'Imp the mind of the reaction to our students for their all-round development to other college. 'Imp the mind of the reaction to our students for their all-round development to other college.'

cater to the needs of society and to achieve global excellence. The institute provides a learning-centred environment and a culture of social empathy that encourages students to make life-long contributions in the healthcare sector.

It has always been our goal to bring out the best qualities in the students to provide qualified pharmacists to society. We endeavour to extend our knowledge and expertise to the students to enable them to contribute to the pharmacy profession in all aspects such as research, hospitals, drug stores, industry, etc.

The college magazine 'Impulse' provides a platform for budding pharmacists to express their creative pursuits. The magazine is a medium to share the significant accomplishments of the college. The magazine aims to develop the personality of the students through teamwork, critical analysis, innovative thinking, and time management.

'Impulse' helps to connect, share and inspire our alumni, students, staff, and other stakeholders with our constantly evolving efforts towards the betterment of the college. 'Impulse 2022' will create an impact in the mind of the readers by providing a larger picture of the institute. I extend my warm wishes to the Principal, Staff, and Students to continue this journey on the road to excellence.

PRINCIPAL'S MESSAGE



Prof.(Dr.) Madhusudan N. SarafPrincipal

I am glad that the Annual Magazine of H K College of Pharmacy - "Impulse – 2022" is being released. The Covid-19 pandemic has affected almost every aspect of life, the teaching-learning process is no exception. The pandemic was inevitable. However, there was a need to adjust to the unprecedented times.

As per the recommendation by New Educational Policy-2020, the future lies in creating an environment that relies heavily on Technology. With a vigor commensurate with exigencies of times & a sense of responsibility, our college systems settled down to a new normal. It is commendable that HKCP lived up to its institutional ethos once again and proved to be successful in maintaining a continuum in learning.

Impulse-22 unleashes a wide spectrum of creative skills ranging from writing to editing and even in designing the magazine. I would like to congratulate the editorial team for their hard work and dedication that has resulted in the publication of this issue of the college magazine.

HKCP STAFF

NAME QUALIFICATION DESIGNATION

M.Pharm. PhD

Principal

Prof. Dr. Madhusudan Saraf

FACULTY

NAME	QUALIFICATION	DESIGNATION				
DEPARTMENT OF PHARMACEUTICS						
Dr. Indira Parab	M. Pharm. PhD	Associate Professor				
Dr. Jaya Agnihotri	M. Pharm. PhD	Associate Professor				
Dr. Mohammad Wais	M. Pharm. PhD	Associate Professor				
Dr. Sheela Yadav	M. Pharm. PhD	Associate Professor				
Dr. Geeta Bhagwat	M. Pharm. PhD	Associate Professor				
Ms. Shamsiya Malik	M. Pharm.	Assistant Professor				
Ms. Samreen Khan	M. Pharm.	Assistant Professor				
Mr. Nihal Shaikh	M. Pharm	Assistant Professor				
Mrs. Shubhra Shrivastava	M. Pharm.	Assistant Professor				
DEPARTMENT OF PHARMA	CEUTICAL CHEMISTRY					
Dr. Kamlesh Soni	M. Pharm. PhD	Associate Professor				
Mrs. Rachel Britto	M. Pharm.	Assistant Professor				
Mrs Shenaaz Saksena	M. Pharm	Assistant Professor				
Ms Pehelkar Harshada	M. Pharm	Assistant Professor				
Ms Sayali Sawant	M. Pharm	Assistant Professor				
Mrs Dipali Mehetre	M. Pharm	Assistant Professor				
DEPARTMENT OF PHARMACEUTICAL ANALYSIS						
Dr. Anagha Raut	M.Pharm. PhD (Tech)	Associate Professor				
Dr. Archana Bele	M.Pharm. PhD	Assistant Professor				
Dr. Ojaswi Ghadge	M.Pharm. PhD	Assistant Professor				
DEPARTMENT OF PHARMACOLOGY						
Dr. M N Saraf	M.Pharm. PhD	Professor				
Mrs. Sunanda Patil	M.Pharm.	Assistant Professor				
Mr. Intekhab Alam	M.Pharm.	Assistant Professor				
Mrs. Supriya Yadav	M.Pharm.	Assistant Professor				
DEPARTMENT OF PHARMACOGNOCY						
Mrs. Parimal Kotkar	M.Pharm.	Assistant Professor				
Mrs Diptee Chirmude	M.Pharm.	Assistant Professor				
DEPARTMENT OF PHARMACY PRACTICE						
Mrs. Madhuri Pawar	M. Pharm.	Assistant Professor				

OFFICE & LIBRARY STAFF

NAME	DESIGNATION	
Ms. Shubhangi Kamtekar	Senior Clerk	
Mrs. Madhuri Lamkhede	Senior Clerk	
Mr. Prashant Waghmare	Accounts Assistant	
Mrs. Madhura Chavan	Office Assistant	
Mr. Hemant Budhawale	Librarian	
Ms. Darshana Kadam	Asst. Librarian	
MS. Sreelata Kartha	Data entry operator	



facilities

- Installed Library Software
 E- Granthalaya New Version
 eG3 With OPAC.
- Barcode System for Issue –
 Return
- Classifying the Books as per DDC 22nd Edition for Standard Classification.
- Reprographic/Scanning/ Printing Facility Available for Students & Faculty.

details

TOTAL TITLES: 2250

Total Books: 8139 B.Pharm - 7681 M.Pharm - 458



E-JOURNALS: 200

E-BOOKS(MEDICAL BOOKS): 374

E-BOOKS: 10969

M.PHARM PROJECT



SHAH ZUBIYA ZAMIR NAGMA

Title: Liposome Formulation



SHAIKH MUSHAHID ARIF SANJIDA

Title: Orodispersible tablet Guide: Dr Sheela Yadav



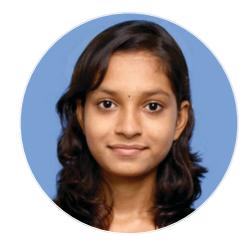
SHAIKH SALMAN RAZIN ZAHIRA

Title: Nanoparticles Development



ANGANE PRASAD

Title: Innovative buccal film. Guide: Dr. Sheela Yadav



GALA PRIYANKA SHAILESH BHAVNA

Title: Pharmaceutical Co-crystal. Guide: Dr. Md Wais



GUPTA NITESHKUMAR

Title: Dental cones Guide: Dr. Jaya Agnihotri



SIDDIQUE ADNAN

Title: Metallic nanoparticles Guide: Dr. Geeta Bhagwat



VISHWAKARMA ALOK HARENDRA

Title: Nanocystals Guide: Dr. Sheela Yadav



YADAV DEEPAK CHHABIRAJ ISHRAVTI

Title: Novel Herbal tablet Guide: Dr. Jaya Agnihotri



JANA SHUBHAM UTTAM SUPRIYA

Title: Innovative sublingual film Guide: Dr. Md Wais



KOKATE SAYALI SANJAY MADHURI

Title: Innovative Mouth dissolving film formulation.
Guide: Dr. Md Wais



PATIL SUKANYA JITENDRA SHILA

Title: Topical biopolymeric film using niosomal approach Guide: Dr. Jaya Agnihotri



YADAV KAVITA RAJNATH HIRAWATI

Title: Microsphere Drug Delivery System "
Guide: Dr. Md Wais



YADAV SUJEET KANHAIYALAL

Title: Dry suspension Guide: Dr Jaya Agnihotri

HANDGE SOHAM

Title: Nasal Spray Guide: Dr. Geeta bhagwat

ALUMNUS

INDRAJEET BANSODE Pharmasofttech AWACS Pvt. Ltd. Designation - Manager of Business Intelligence



Achievements-applauds, to p p o r t u n i t i e s thoughts, this is what I have gained from HKCP. Right from winning the Volleyball match in the inter-college competition to getting KT's, everything has been a learning for me. From the inspiring words of our Principal Madam (Dr. Anubha Khale) to the petty, sweet scolding of our beloved teachers, my life in

HKCP was and will be the best experience I can ever get from my life. This college let us fall on our own but made us climb on the ladder to success. From being an average scoring student in HKCP to currently working with the Top professionals in the Pharmaceutical Industry, HKCP has played an important role in building up my core skills and overall personality. My only message to the students is to work hard, dream big and never give up."



RUSHABH D. MAMANIA
Prop. Jain distributor
Distributor of Surgical
product and Covid-19,
generic medicines and
Ortho Rehabs pdts

y journey with HKCP started in 2009.

My advice to My HKCP mate
Don't think our profession is only limited to the chemist/
retail line, in the time of
Covid we have worked as

researchers in vaccines and at same time, been a healthcare worker and saved lives ...

This Line has a wider scope. *It's up to you what you do, and stay focused on it, you will find a sign of satisfaction, as we are known as Nobel leaders of the world.

IQRAR ALI ANSARI

Profile- Territory Business Manager at Brinton Pharmaceutical Intelligence

The best part of HKCP is the supportive staff. They'll make everything look easy for you and in a convenient way.

What I liked most in HKCP

is the management and the staff who are very humble and kind.

In my opinion, the backbone of the college is the management and the supporting staff. My message to current students is to keep your goal set, work for it and you will achieve whatever you want to be in your life. Best of luck to all the students.



POOJA MISHRA Clinical Data Manager TCS

One of the most stages in life that gives you an opportunity to explore, is the college phase. At HKCP I gained friendships and experiences which added a different perspective to my

life. The experiences here turned me into a more curious and achieving person. The support of the faculty members not only helped me to score good marks but also helped me to overcome my flaws and made me a good human being. The four years in HKCP have been the most amazing and I will always be thankful to HKCP for making me the person I am today.



VASANT SAWANT
Company:iqvia Rds Ltd
Designation:
Operation Specialist 1
(Pharmacovigilance)

HKCP provided me with a great balance of academics and extracurricular activities. The great college life I experienced here was

profoundly aided by the excellent and friendly staff. The time I have spent in this college is paving the way towards a fruitful and enriching career.

HK TOPPERS

FIRST Y. M. PHARMACY (SEM I & II)



ADNAN SIDDIQUE FIRST



SALMAN SHAIKH SECOND



YADAV KAVITA THIRD

FIRST Y. B PHARMACY (SEM I & II)



PATIL VAIDEHI FIRST



KABRE SAANIKA SECOND

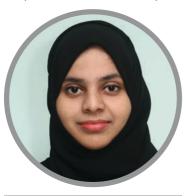


RAUT GEET THIRD

SECOND Y. B PHARMACY (SEM III & IV)



VORA PAYAAM FIRST



ATEEQA KASIM SECOND



GURUNG PURNESHWARI THIRD

THIRD Y. B PHARMACY (SEM V & VI)



SHAIKH TABASSUM FIRST



DUBEY RAJNEESH SECOND



SAROJ PRADEEP THIRD

FINAL Y. B PHARMACY (SEM VII & VIII)

KHAN IMTIYAZ

FIRST



KUBAL BHAKTI FIRST



KHAN SABA SECOND



KALIA MANVI THIRD

Student Achievements

Anika Sahay, Rishika tripathi, Payaam vohra Date - 15th July 2021

Event - Research proposal

Venue- Avishkar mumbai university Position - FINALIST

It was a competition organized my Mumbai university where almost 1560 Research proposals were put forward. The second-year students of HKCP Anika Sahay, Rishika Tripathi and Payaam Vohra qualified for final round and bagged a consolation prize for their research proposal Adaptable Hypersensitive Electrochemical Solar-Powered Sensors for Daily Farm Analysis, Remedies Via Mobile Application for Farmers. The presentation consisted of an animation video for virtual demonstration. They were guided by Dr Geeta Bhagwat and Dr M.N .Saraf. The competition helped them bring out the creativity and innovative ideas within them.

Ashish Jha. Date - 25th Jan 2021 Event - Laughter pills (pharma meme) Venue - NFPS, Delhi Posititon - 1st prize

Ashish Jha, T.Y. Pharm student of HK College of Pharmacy, participated and won 1st prize in pharma meme competition 'Laughter Pills' held by National Forum of Pharmacy Student (NFPS) on 25th January 2021. In this competition, participants had to present make an awareness meme with some fun elements

Adesh Yewale Uttam. Date - 25th September, 2020

Event - E-Logo competition

Venue - Late Shri Vishnu Waman Thakur Charitable Trust's VIVA Institute of Pharmacy

Posititon - 2nd prize

On an account of "World Pharmacists Day", Viva Institute of Pharmacy, Virar had organized an E-logo competition on 25th September, 2020. This competition was for undergraduate and postgraduate students. The topics of the events were, 1) Salute to COVID warriors 2) Improvement of mental health in COVID pandemic 3) Atmanirbhar pharma sector. The logo should be self explanatory and with own design. The logo was submitted along with registration form of the event in the form of JPG. The aim of this event was to explore the creative minds of the students for making the logo to symbolize the health care sectors. The topic that we chose was, 'Solute to COVID warriors'. We tried to merge the health professionals i.e. doctors, nurses and pharmacists to showcase their roles in combating against global health issues.

Payaam Vohra

Date - 17th January 2021 **Event -** AD MAD COMPETITION. **Venue-** Insight - IES COLLEGE OF MANAGEMENT.

Position - 1st

Payaam vohra, S.Y.B.PHARM and Nishi mishra TY B Pharma students of H.K College Of College Of Pharmacy took part in AD MAD Competition organised by IES COLLEGE OF MANAGEMENT won 1ST PRIZE with cash prize of Rs. 3000/- The event deals with advertising of a formulation for Immunity in the current scenario in a creative way. This inculcated the creative outlook and built a self confidence in students.

Date - 12th June 2021 **Event -** Just a minute ignite. **Venue-** VESCOP

Position - 1st

It was a contest in which the participant was given a topic and the participant had to answer that immediately and speak on it for a minute Mr Payaam also received a cash prize of Rs. 750

Date - 26th June 2021 Event - Pharma Quiz. Venue- Dr L.H. Hirandnani College Of Pharmacy. Position - 1st

It was an event which consisted of quiz on syllabus of 2nd year b pharmacy and over 110 studenrts from more than 10 colleges had participated .Mr Payaam Vohra also recived a cash prize of Rs. 2000.

Date - 15th July 2021 Event - Covid awarness video. Venue- Dy patil college Position - 2nd

The participants had to make a video on home remedies of covid and the results were announced on their instagram page .Mr Payaam Vohra also received a cash prize of Rs. 150

MUSKURATE RAHO: Final year students of H.K. College of Pharmacy Ms. Nishi Mishra and Mr.Roshan Shrivastav had came up with a Non Profit Government Organization - 'Muskurate Raho'

"Small acts, when multiplied by millions of people, can transform the world", keeping this thought in mind ,to make this world a better place to live in, Muskurate Raho was founded in the year 2021.

MUSKURATE RAHO IN ACTION:

Muskurate Raho has by far carried out 30 successful drives including beach clean-up drives and plantation drives.

- Previous Monsoon, they had planted around 800 saplings of 18 different species of plants which includes chikko ,guava ,mango ,coconut ,ashoka etc. at unit 25, Aarey Forest.
- By far from the Beach clean-up drives Muskurate Raho has collected around 25 tons of garbage from the shores of Mumbai.
- The Beaches on which Muskurate Raho has worked upon are Dadar beach, Aksa Beach and Mahim Beach.
- Muskurate Raho was approached by BMC officials to take up the project of cleaning Mahim beach, which they are doing under the name "Makeover Mahim", which is been
- supported by BMC and Mahim Human Rights Committee.
- Muskurate Raho visits and donates necessary accessories to various orphanages on occasion of festivals like Diwali, Christmas, etc. to spread a smile on the faces of those innocent souls.

ACHIEVEMENTS:

1.	Muskurate Raho's Co-founders were featured in the interview of NSO	6 February 2022
2.	Muskurate Raho was felicitated by BMC officials for their remarkable work in cleaning beaches of Mumbai	26 January 2022
3.	Muskurate Raho Co-founder Nishi Mishra was interviewed by Dr. Bhanuben Nanavati College of Pharmacy, which was in regard to Beach Cleaning in Mumbai. The same was podcasted on Spotify.	2 December 2021
4.	Muskurate Raho Co-founder Nishi Mishra was interviewed by Botany Department of Sathaye College	16 October 2021



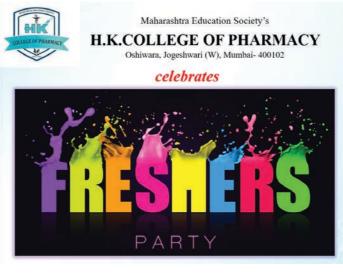
CULTURAL TRIAD

The first event held by the college after the opening of offline colleges was the Cultural Triad, which consisted of three days with different themes and challenges. The theme for Day 1 (February 3, 2022) was "70s Disco, 80s Retro, and 90s Pop." The students were excited and dressed up for the occasion. Day 2 (4 February 2022) was the traditional day. Every student arrived dressed in traditional ethnic attire and looked stunning. Day 3 (5 February 2022) was the busiest, as it was Cultural Day. The day began with a treasure hunt organized by all of the student council heads, followed by competitions to showcase the talents of HKCP students. Certificates would be given to the event winners. The "Funfair," which included open participation, inventive activities, and wonderful food served by students through open stalls, was the day's closing event. The mood was upbeat and lively throughout the day.



FRESHERS' DAY

Keeping the COVID 19 pandemic norms, SOPs, and student safety in mind, H.K College of Pharmacy hosted a virtual Fresher's Party for the freshers on January 15th, 2022. The party's theme was "Neon Fest." Freshmen were encouraged to demonstrate their enthusiasm by adhering to the dress code (Neon color outfit) and participating in the fun games. The party began with a warm welcome to all the new future pharmacists and members of our HKCP family, followed by a brief introduction of their strengths and interests. A few exciting and brainstorming games were organized, in which the majority of the students participated and had a good tim.e. The winners received E-certificates for their outstanding performances. Finally, excitement and satisfaction were visible in their eyes, and we were successful in our efforts to make our freshers happy while welcoming them and wishing them luck





ORIENTATION

Every year 'H.K College of pharmacy' organizes an

Every year 'H.K College of pharmacy' organizes an Orientation program but this time it was different, It was conducted on a virtual platform via Google meet. Traditionally, the college orientation program has been an

elaborate affair — being the student's official introduction to their classes, the institution's culture, schedules, subjects, cocurricular, etc. 2021 marked a global first for higher education institutions as they welcomed incoming students without meeting them face-to-face. Online orientation was the only available option.

The session started by. Dr. Madhusudan saraf Gave an overview of online, offline, and hybrid modes. Also highlighted vaccination part. To ease their transition, over-communicate. We gave access to everybody for – registration forms, login information, video meeting links, timing etc. We will also Send regular and personalized notifications which can improve student engagement significantly

Every faculty gave an Introductory speech with their subjects and motivated the students What all activities going to be held were discussed. Every teacher wished them all the success ahead and said we are waiting to see your cheerful faces in offline mode.

The students were asked to create digital posters on the importance of the day (25th September 2021) using creativity and innovation, which were then uploaded to the official page of H.K College of Pharmacy on social media platforms

page of H.K College of Pharmacy on social media platforms such as Instagram. The event provided students with a better understanding of the importance of pharmacists and their professional contributions to the health sector.

WORLD PHARMACIST DAY

"A teacher has an impact that lasts forever; they never know where their influence ends." TEACHER'S DAY

On the 5th of September 2021, HKCP students celebrated Teacher's Day via an online platform. The celebration began with a game of guessing the names of the teachers/

staff based on the hints about their great and kind qualities. There were also several games in which all of the teachers participated and had a good time. Mrs.Tatheer Fatima mam received an E-certificate for earning the most points. All of the teachers had big smiles and joy on their faces. The teachers praised us and gave us a standing ovation.



H.K College of Pharmacy used an online platform to commemorate the 73rd Republic Day. The patriotic theme for the day was "Azadi ka Amrit Mohatsav." There were quizzes on "Azadi k Veer Bahadur," a digital poster creation competition on "Bharat Meri Shaan," a Patriotic Essay Slam, and many other activities. Students from all years participated enthusiastically and showed exceptional abilities. All of the participants were thanked profusely, and the winners received certificates.

VIRTUAL

Due to COVID 19 Pandemic, HK Placement cell organized ONLINE Career counselling sessions and Virtual mode of interviews for placements in various companies for final year B.Pharm and M.Pharm students. During the Academic year 20-21 witnessed M.Pharm students. During the Academic year 20-21 witnessed counselling of students with respect to higher studies and career. Recruiting companies were Cipla, TCS, Aculife, Micro lab, Waragen solutions and 6- Sigma Healthcare Communications.

solutions and 6- Sigma Healthcare Communications.

In TCS (Tata Consultancy Services) two B.Pharm students got selected as Trainee Business process service, Cipla five B.Pharm students got selected for the post of Therapy Manager, In Aculife

one B.Pharm student got selected as medical representative, Microlab-two M.Pharm students got selected for the position in Formulation and Development, Waragen Solutions one student got selected for the position of Trainee-clinic operations and in 6- Sigma Healthcare Communications-two B.Pharm students got selected for the position of Medico Marketing executive. Before the Placements, students were explained CV writing session by Dr. Archana Bele and Ms. Parimal Kotkar, other career guidance session included sessions on Resume writing, Career prospects and competitive exams, Guidance for Facing Online Interview, BD, Sales, Marketing-International Market- as a career option, Career Counselling - Workplace Readiness and Employment, business opportunities in generic medicines, Introduction to Clinical Research

and opportunities in Clinical Research". Overall, students were exposed to various recruiters' and screening process. Thus, it was learning experience for students.







Isn't it always emotional to leave the institution where you have spent the most valuable 4 years of your student life? Yeah, bidding farewell is just another way for expressing your love for your seniors who have taught you more about the

college life and probably a little less about studies. The Farewell Party organized for our beloved seniors was just a token of love & respect for them. The evening began with a bash as all the handsome hunks and pretty girls arrived beautifully dressed. The evening started with a humongous amount of enthusiasm which later turned out to be a realization that not all of them are going to be in touch as they were so far. The joy & sorrow for leaving the college and entering into a totally new phase of life. The event started with a note of

teachers who expressed their feelings for the students and how well they bonded through the span of 4 years. This was followed by students who expressed their feeling by giving a last goodbye to the teachers and their beloved classmates. The evening ended with tears in eyes of students and teachers .Nothing could be depressing than seeing such a precious moment and capturing some candid snaps.



HKCP Innovation Cell focuses on creating a complete ecosystem which will foster the culture of Innovation across all students from ideas generation to pre-incubation, incubation

and graduating from the incubator as successful start-ups. HKCP Innovation Cell work under the framework designed by institute with the mandate to work closely with our departments to encourage the creative energy of our student population to

work on new ideas and innovation and promote them to create start-ups and entrepreneurial ventures. And proved to be extremely successful in promoting innovation out-of-the-box thinking in young minds.

INNOVERSE for Novel Innovative ideas was organized by Entrepreneurship & Innovation cell of H. k. College of pharmacy, on 14 October 2021 from 1pm to 2pm. The main aim of Innoverse was to provide a platform to the students as to inculcate a culture of product innovation and a mindset of problem solving. The objective was to present novel and innovative ideas delivered by the students. The event was successfully completed with evaluation and the respected winners. At the end of the day the event was successful in promoting students mind towards innovative and creative thinking.

Industrial Visit





Industrial Visit was organised for M Pharm Semester II along with Dr Jaya Agnihotri to Umang Pharm Tech Pvt Limited Vasai Maharashtra. Ms Komal, Ms Bushra (HKCP Alumni) and their team showed Different Pelletizers and Spheronizers Coating Machine, FBD, Multi mill, Chilsonator, Spray Dryer, 3D Printer Hot melt Extruder. She discussed about ongoing projects, their day to day complications etc with students.



Webinars

TITLE	DATE	SPEAKER	CO-ORDINATOR
Holistic approach towards adolescence hair and skin issues	27/02/2021	Dr. Sheetal Tiwari	Dr. Sheela Yadav
Scientific insights on biopharmaceuticals and drug designing Speaker 1: Biosimilars insights and development of function assays Speaker 2: Development of biosimilars with CADD Speaker 3: Safety, efficacy, and pharmacokinetics of biosimilars	20/07/2021	Speaker 1: Ms. Anshuja Pandey, Scientist, Lupin limited Speaker 2: Dr. Aneesh Nair, Scientist and Head, Biozone institute of life sciences, Chennai Speaker 3: Dr. Papiya Bogoniya, Prof and Principal, DKSM college of pharmacy, Bhopal, India	Dr. Jaya Agnihotri Mr. Abhishek Gaikar
Monster in the mouth: mouth to body connection, a window to overall health	21/08/2021	Dr. Priyanka Singh Yadav BDS, DDS, Atlanta , Georgia, USA	Dr. (Mrs). Sheela Yadav, Mr. Abhishek Gaikar
HPTLC: Techniques and Pharmaceutical Applications	27/08/2021	Dr. Manjusha Phanse, Application specialist, Anchrom private ltd	Dr. (Mrs.) Ojaswi Ghadge, Dr. (Mrs.) Archana Bele
Reforms in pharmacy education	08/10/2021	Chief guest and keynote: Prof. B. Suresh, President, Pharmacy Council of India, Delhi Panel members: Prof. Navin sheth, Vice-chancellors, Gujrat technological university Prof. V.R. Sinha, Dean of university instruction, Punjab university	Mrs. Tatheer Fatima
Computational biology in drug design from medicinal plants	23/10/2021	Dr. Pragya Tiwari, Research professor, Department of biotechnology, Yeungnam University, Republic of Korea	Mrs. Tatheer Fatima

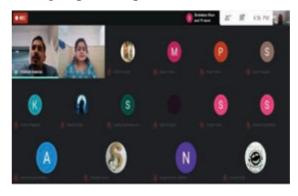
PLACEMENT CELL

PLACEMENT NEWS - FOR IMPULSE 20-21.

Due to COVID 19 Pandemic, HK Placement cell organized ONLINE Career counselling sessions and Virtual mode of interviews for placements in various companies for final year B.Pharm and M.Pharm students. During the Academic year 20-21 witnessed counselling of students with respect to higher studies and career. Recruiting companies were Cipla, TCS, Aculife, Micro lab, Waragen solutions and 6- Sigma Healthcare Communications.

In TCS (Tata Consultancy Services) two B.Pharm students got selected as Trainee Business process service, Cipla five B.Pharm students got selected for the post of Therapy Manager, In Aculife one B.Pharm student got selected as medical representative, Microlab-two M.Pharm students got selected for the position in Formulation and Development, Waragen Solutions one student got selected for the position of Trainee-clinic operations and in 6- Sigma Healthcare Communications-two B.Pharm students got selected for the position of Medico Marketing executive. Before the Placements, students were explained CV writing session by Dr. Archana Bele and Ms. Parimal Kotkar, other career guidance session included sessions on Resume writing, Career prospects and competitive exams, Guidance for Facing Online Interview, BD, Sales, Marketing-International Market- as a career option, Career Counselling - Workplace Readiness and Employment, business opportunities in generic medicines, Introduction to Clinical Research and opportunities in Clinical Research". Overall, students were exposed to various recruiters' and screening process. Thus, it was learning experience for students.

Few glimpses are presented below:







Prof. Ulhas Karkhanis, Associate dean (Pharma and Health care management), IES, Bandra conducted session on Career opportunities in health care industry and workplace Readiness

Top Recruiting Companies



















MAHARASHTRA EDUCATION SOCIETY'S

INC.

INC

The most exhilarating time of the year the HK College Of Pharmacy "15th Annual day" was organized on 3rd March 2022 and was celebrated with great zeal and a cheerful spirit

H.K. COLLEGE OF PHARMACY

The annual function was celebrated with immense energy and enthusiasm by the students and faculty members. The evening started with the lighting of the lamp ceremony. The students of various years of degree competed in different events like dancing, solo singing, fashion show, skit, group performances, etc. These events were followed by the inauguration of the technical bulletin and our college magazine 'Impulse' by the Chief Guest Mr. Sachin Bhole, Managing Director, InfeXn Laboratories Pvt. Ltd., the Guest of Honor and President Mrs. Humera Khan, General Secretary Mr. Waseem Khan, Treasurer Dr. Azeem Khan and dean/principal Prof.(Dr.) Madhusudan N. Saraf

. The magazine inauguration was followed by Prize Distribution where the achievers in various competitions and toppers were felicitated for their achievements. It was a spectacular and fun evening for everyone to remember.

It was a reminiscing moment for everyone on this beautiful day.



SPORTS

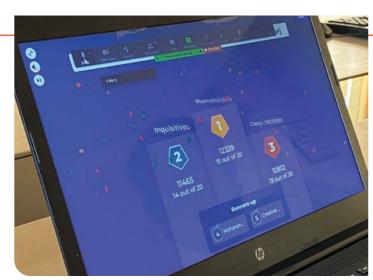






HK College of Pharmacy celebrated its annual sports day on the 28th of February. The sports week commenced from 22nd to the 26th of February which included indoor games like Carrom, Table Tennis, Pool, and outdoor games like Badminton, Throwball, Box Cricket, Tug Of War for boys as well as girls. On the final Sports day, the ground was filled with enthusiastic participants including B.Pharm, M.Pharm students as well as the teaching staff who were eagerly waiting for the day. The day started with the national anthem and then continued with the athletic events. The sports events comprised of the finals of the games conducted during the sports week as well as Relay races, Running, Volleyball, Cricket, Football. Great teamwork and zeal were displayed throughout the events. Despite the results of winning or losing, the day ended uneventfully with teachers and students leaving with smiles on their faces.

TECH CRUNCH



The Scientific committee of H.K. College of Pharmacy organized the 'TECH CRUNCH' event under the guidance of Dr. Priyanka Goswami. Due to the current circumstances, the event was held in the online mode. Committee members and teachers took great efforts towards the success of the event. The following competitions were organized -

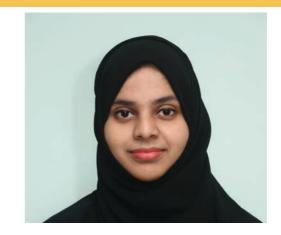
Shark Tank - Place your idea in front of Sharks and market it to them. The best idea would get selected by the Sharks (Dr. Indira Parab, of Dr. Priyanka Goswami, Dr. Ojaswi Ghadge and Mrs. Madhuri Pawar). The event helped the students to develop their marketing skills.

Guess Me - This was a Quiz game conducted online on the 'KAHOOT' platform wherein players had to guess the Logos and Taglines of various pharmaceutical companies on a fastest fingers first basis. All students participated with great enthusiasm.

Enact the Drug - Much like dumb charades, players had to act and guess names of Drugs within a time limit. The teams were alternatively given the names of different drugs and the opponent team had to guess the name of the drugs. Students had a lot of fun participating in this activity.

The event was a grand success with the pillars of committee and the respected teacher incharge.

PHO



Ateeqa Kasin, PHO Head



"Plastic and Human Health."

Location: - Aksa Beach, Malad (W).

Date: - 2nd January, 2022.

At every stage of its lifecycle, plastic poses distinct risk to human health, arising from both exposure to plastic particles themselves and associated chemicals People worldwide are exposed at multiple stages of this lifecycle. Thus, our campaign aimed at educating the masses about plastic and plastic pollution by playing skit and detail explanation of plastic waste, precautions, disposal, collection, recycling, reuse and reduce, Government schemes and conclusion.

"HEALTHUSIASM - WORD SCRAMBLE"

Date: 27 February 2022

Location: Online

Living a healthy lifestyle can help prevent chronic diseases and long -term illness. Feeling good about yourself and taking care of your health are important for your self-esteem and self -image. Lifestyle diseases can be defined as disease may soon have an impact on the workforce and the cost of health care. So, we organize a quiz competition in the form of word scramble. The topic name was Common lifestyle diseases. It was an online event to create awareness on common diseases.

"Monster in mouth: Mouth to body connection, a window to your overall health".

Date: 21 August 2021

Location: Online

Resource person: Dr Priyanka Singh Yadav BDS, DDS

(Atlanta, Georgia, USA)

A mouth with healthy gums, strong teeth, natural breadth, and a clean tongue often reveals overall good health and hygiene. Also, maintaining good oral health prevents many diseases and disorders from developing in the mouth. The mouth is one of the first places to show symptoms of many illnesses. So, our PHO Cell, from HK College of pharmacy with the help of our faculty member Dr Sheela Yadav organized an online webinar to create awareness on "Oral health"

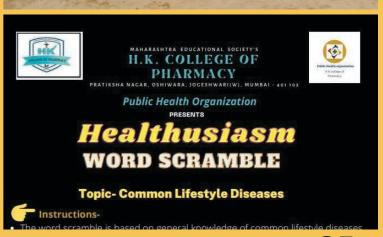
"Diabetes and Hypertension Complications."

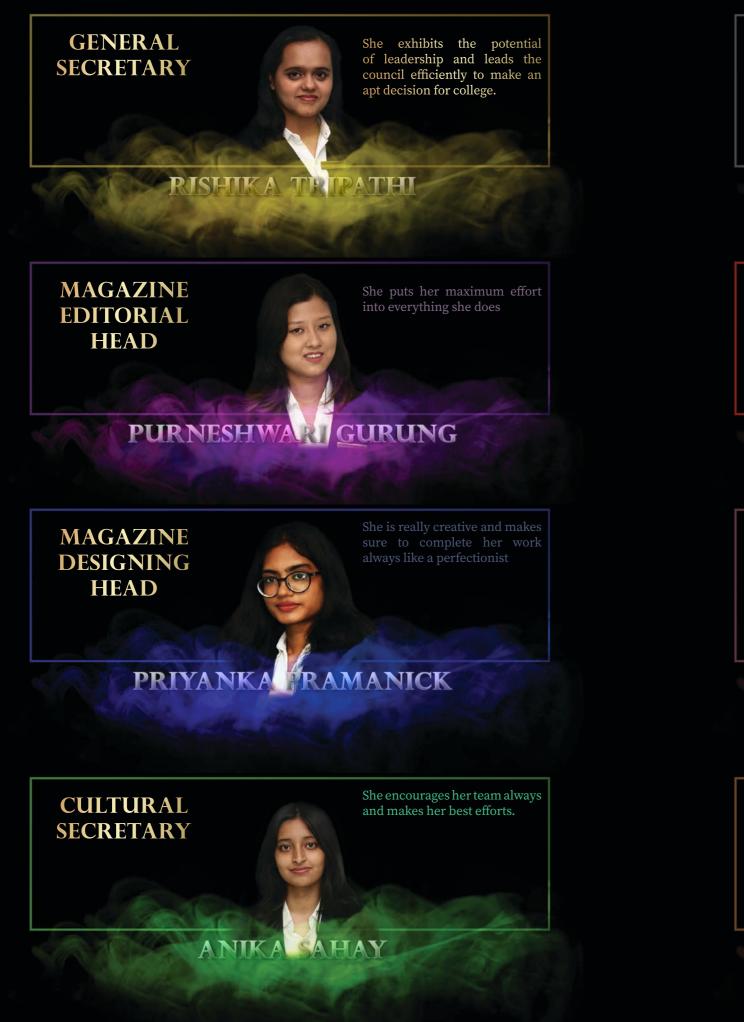
Location: - Ganesh Mandal, Bandivali hill road, Jogeshwari (W).

Date: - 7th November, 2021.

Hypertension or High blood pressure, often occurs alongside diabetes mellitus, including type 1 and type 2 and Date: - gestational diabetes and studies show there maybe link between them. So, we the students of H.K College of Pharmacy took an initiative to make people aware by organizing a campaign on Diabetes and Hypertension Complications. Our Campaign mainly focused on the prevention, treatment, symptoms, myths, and diet for diabetic patients.











Mission

To positively impact health outcomes by improving the quality of learning for health care professionals and driving access to credible health information for the public in regional languages that are engaging, relevant, and relatable

Presence in 3 countries & expanding





Dubai | Singapore

Client Snapshot











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SCIENTIFIC ARTICLE

3D TISSUE MODEL

OF LIVING BRAIN CANCER POINTS TO POSSIBLE FUTURE FOR

MEDICINE WEBBING

-AFREEN **SARKHEL** THIRD YEAR **B.PHARM.**



s a implicit volition for medicine testing without lab creatures, researchers at KTH Royal Institute of Technology developed and successfully tested a 3D model of living brain cancer that surmounts one of the biggest challenges in tissue engineering. In the recent tissue of the scientific journal, Advanced Accoutrements, the experimenters reported a fashion for replicating the body's lowest blood vessels, else known as microvasculature, inside of collagen hydrogel loaded with living cancer

The fashion, which is called cavitation molding, creates cavities small enough for cells tormentor blood vessels on a scale more closely resembling those of the human body. The study's lead author, Alessandro Enrico, a Ph.D. student at KTH, says that the technique to create cavities for these blood vessels represents a advance in biomedical research and that the method could potentially be used for modeling other kinds of human tissues besides cancerous ones. For drug development the only volition to beast testing is simple 2D cell models, in which mortal

cells are dressed on plastics in a flat, two-dimensional arrangement. He says that although" lab- on-achip" platformism 2D are used to replicate living towel, they are eventually limited by their simplicity. A fluorescent confocal image of the engineered cancer towel. Cancer cells(blue and green) arranged in an in vivo-suchlike 3D spheroidal mass, girdled by artificial blood vessels(red) generated by using the Fashion." 2D towel models decelerate down testing and make it more expensive," he says" The results of working with a 3D model relate to the factual 3D dimensional towel in the mortal body."

Replicating a 3D towel model would bridge the gap between simple 2D models and factual towel physiology, he says." But to gain a 3D micro vasculature in a hydrogel altar while maintaining cell viability is no easy feat." To produce the micro vasculature that complex napkins like living brain cancer need to survive, the experimenters began by casting an unshaped collagen hydrogel containing living cancer cells. Also, they use ray irradiation of the hydrogel to induce gas bubbles that rearrange the collagen filaments, thereby creating depressions and shaping micro channels.

Eventually, endothelial cells are pumped into the depressions, where upon they assemble in artificial blood vessels similar in size to the vasculature of the mortal body. The process causes no damage to the cells, a real threat with bioprinting ways presently in development, the author added. The 3D towel models nearly replicate living towel and remain stable for at least eight days in physiological conditions. This is essential for studying complex natural relations that can take days or weeks to develop. Author also added that the next step is to investigate the compatibility of this method with other hydrogels to model different tissues and organs.

Inside the **Schizophrenic Brain**

-Priyanka Pramanick, Third Year B. Pharm.

What Is Schizophrenia?

The Association of American Psychiatric reports that of the brain where "schizophrenia is a chronic brain dishevelment that there are differences in affects less than one percent of the U.S. population. When connectivity in certain schizophrenia is active, symptoms can include delusions, parts of the brain, hallucinations, menace with thinking and enthrallment, especially in the frontal and lack of incitation." Psychosis is an emblem symptom of schizophrenia, and these episodes can be horrendous for patients and their families. The disease is progressive and can be debilitating. Although there's no cure for schizophrenia currently, there are safe treatments that can mitigate symptoms and ameliorate the quality of life for people with the disease.

How Does Schizophrenia Change the Brain?

some structural changes like enlarged ventricles in the brain brain. which are small spaces in the brain that hold cerebral spinal Magnetic resonance imaging: In the MRI machines there fluid. Which helps in creating a little bit of cushion if there's is use magnetic fields and radio waves to produce detailed an injury. In people with schizophrenia, these ventricles are images of the brain and brain stem which gives doctors a enlarged which indicates some sort of atrophy," meaning the brain tissue has been lost, compressed, or shrunk.

In the patients who are newly diagnosed, there are some changes that can be observed in "the white matter and the conditions such as stroke, dementia, or infection. gray matter of both parts of the brain seem to have some Functional MRI. fMRI uses MRI technology which helps to

houses the nucleus.

branches and connect neural cells.

Dendrites are the branches of nerve cells.

Nerve synapses are the small gaps that separate the neurons in the brain. from one another across which signals pass.

The white matter of the brain consists of bundles of axons that connect various parts of the gray matter. The white matter which allows doctors to see the function of internal organs. conducts the nerve signals across the brain and throughout the central nervous system which allows your body and observed in the brains of schizophrenic patients occur to brain to do anything. In a schizophrenic brain, a decrease in gray matter is the most commonly observed change. This decrease in the size of the gray matter seems to come from the compression of the cells. These cells are packed more tightly. There are not a few of them and the space between episode of psychosis, and the brains of people being at high them is decreased and it seems to be most pronounced in risk of developing psychosis based on family history. the front part of the brain - the frontal lobe and the temporal The commonly prescribed drugs to treat schizophrenia are lobe which are the areas across either side of the head near Antipsychotic medications. These medications block the effects the temples are. The changes appear to be fairly widespread but the most prominently is in the frontal lobe of the brain. These structural changes can lead to functional alterations. Therefore, if the interstices between brain cells that help in the conduction of signals between them are altered other hand, is implicated in Parkinson's disease, so it's an and it could interfere with how signaling works. With the important chemical and one that needs to be dialed in at the developing technology now, we can look at functional imaging right level.

parts of the brain.



How Can Changes could be seen and reversed?

There are different types of brain imaging tools that help doctors to get a glimpse inside the skull and deep inside the brain while still breathing.

Computerized tomography: CT scanning is a high-tech X-ray that provides more detailed information about brain tissue and brain structure than the standard X-rays of the head, Inside the brains of people with schizophrenia, there are and provides data relating to the injuries and diseases of the

> panorama of the soft tissue inside the skull and helps in the detection of brain tumors, traumatic brain injury, structural or development abnormalities, and a variety of medical

atrophy and seem not to be functioning" as expected. "The measure the activity of the brain. the machine measures the gray matter is the exterior portion of the brain, where most changes in blood flow that occur in different areas of the of the bodies of the neurons are located. This gray matter brain during that activity by performing certain mental tasks is pinkish-gray in color and contains several components while lying in an MRI machine. It is used to see the effects of stroke and other traumas.

The neuronal cell bodies or the spherical part of the neuron Positron emission tomography. PET scans use dye that contains radioactive tracers in it which help doctors see how Axon terminals, or the endpoints of the long, nerve cell the brain is functioning. The radioactive tracer is taken up by specific tissues that are active, such as cancerous tumors. PET scanning is also used to look for signs of Alzheimer's disease

> Single-photon emission tomography. Similar to PET scanning, SPECT scans use small amounts of radioactive dye It's unclear exactly how the structural and functional changes begin and whether they can be reversed or that's a desirable outcome. To determine the progression of schizophrenia looking at structural and functional imaging of people going through their first episode of schizophrenia, their first

> of a brain chemical called dopamine - a neurotransmitter that's integral to how brain cells communicate with one another that is found in overabundance in the brains of patients with schizophrenia. Too little dopamine, on the



A PEEK AT **SYNESTHESIA**

-Saanika Kabre, Second Year B. Pharm.

ynesthesia or synaesthesia is a fairly rare neurologic phenomenon in which the brain takes information from one sense but processes it in several senses at once, thus generating two or more experiences. To put it simply, one sense activates another unrelated sense, and they are experienced simultaneously. Synesthesia is named after the Greek words 'syn' which means "together" and 'aesthesis' which means "sensation". Thus, this is an atypical perception mode, not a medical condition or neurological abnormality. A person who experiences synesthesia over a lifetime is called a synesthete. To understand this phenomenon better, imagine listening to music but experiencing the musical notes as seeing colours. A is red, E is orange, and G-sharp is purple. The vibrating tone of your cell phone, a G note, is deep-blue. This is called sound-to-colour synesthesia or Chromesthesia. Some people may also taste certain words upon hearing them (lexical-gustatory synesthesia). For instance, according to a 2013 study in Frontiers in Psychology, a research subject said she tasted potato chips when she heard the word "woman".

Synesthete, writer Daniel Tammet describes how synesthesia affects his world in his memoir- Born on a Blue Day. "The number one, for example, is a brilliant and bright white, like someone shining a flashlight into my eyes (Tammet, 2007). Five is a clap of thunder or the sound of waves crashing against rocks (Tammet, 2007). Thirty-seven is lumpy, like porridge, while 89 reminds me of falling snow" (Tammet, 2007) writes savant Tammet. Interestingly, he also set a European record for stating 22,514 digits of the number pi from memory using his ability to see numbers as colours and shapes.

It is estimated that at least 4% of the population has synesthesia and that over 1% of those people have grapheme-colour synesthesia (coloured numbers and letters). Generally, more women have synesthesia than men. Research also suggests that the incidence of synesthesia may be higher in people with autism, in creative people, including artists, musicians, poets, and left-handed people.

Synesthesia is mainly divided into two types – 'Associative synesthesia' and 'Projective synesthesia'

In associative synesthesia, a strong connection is felt between a stimulus and a sense. Synesthetes may hear the violin and associate it with the colour blue. Whereas in projective synesthesia, the blue colour may be seen as if it were a physical object.

At least 80 types of synesthesia including smell-colour, month-flavour, sound-emotion, emotion-colour (might as well have been a synesthete who came up with the phrase 'to feel blue'! who knows?), sound-touch, day-colour, paincolour, and personality-colour (auras) are known out of which some are commoner than the others -

Chromesthesia - Sound, and colour are associated with each other in this form. Some people with this condition have perfect pitch because they can identify musical notes as specific colours.

Grapheme-colour synesthesia - This form is characterized by seeing letters and numbers shaded with colour.

Lexical-gustatory synesthesia - This is a rarer type in which hearing certain words results in experiencing a different taste.

Mirror-touch synesthesia - In this form of synesthesia, the same sensation is felt in response to a stimulus as another person by the synesthete. For example, seeing a person tickled would cause the synesthete to feel tickled.

As research is being carried out several possible explanations of why certain individuals have this special ability have been given, although scientists have yet to make a definitive determination. Some suggest that it may be due to increased cross-talk between specialized regions of the brain. An inhibition in a neural pathway is often reduced in synesthetes, allowing multi-sensory processing of stimuli. DNA sequencing is being used to uncover possible genetic causes behind the condition.

In conclusion, synesthesia is a fascinating neurological phenomenon that may help researchers gain knowledge about how and why we perceive reality. How our brain processes allow us to have wonderful conscious experiences, and provide insights into how we learn concepts such as numbers and letters. Regardless of what gets revealed from the studies, synesthesia is like having a unique superpower that needs no fixing.



Carriers of a common Alzheimer's disease risk factor may be predisposed to

Severe COVID-19

-Purneshwari Gurung, Third Year B. Pharm.

the Alzheimer's-related APOE4 gene are more a result of severe COVID-19 than others. than twice as likely to acquire severe COVID-19. APOE4 may also affect the severity of certain longare more likely to develop long-term symptoms hospitalisation. after getting COVID, including a higher risk of "One of the symptoms identified in the study mental fatigue.

Source: University of Helsinki

The APOE4 genotype may possibly enhance says Hästbacka. cerebral microhemorrhages associated with More research needed COVID-19 and be linked to mental weariness associated with protracted COVID, according to a study done at the University of Helsinki and the tiny, therefore the findings must be taken with Helsinki University Hospital (HUS).

The APOE4 allele, a genetic mutation that predisposes carriers to Alzheimer's disease, is must be investigated in larger datasets," she says. COVID-19, both in terms of increased susceptibility APOE4 carriers, which is an essential subject. to SARS-CoV-2 infection and COVID-19 mortality, "Long-term follow-up studies on COVID-19 across the globe.

of COVID-19 in the Finnish population has now been explored by a study group at the University to resolve this question." "These avenues of of Helsinki and the Helsinki University Hospital additional investigation have already been begun

The multidisciplinary team also looked into and HUS," Myllykangas explains. microscopic cerebral abnormalities in COVID-19 The FinnGen project, which combines genetic patients' cadavers, as well as the link between data generated from biobank samples with health APOE4 and feelings of mental weariness six months after the disease began.

The new research was published in the journal The findings are based on information from over Acta Neuropathologica Communications.

the APOE gene appears to be linked to an increased Liisa Myllykangas, a HUS and University of Helsinki abnormalities in the brain. neuropathologist consultant, "the relevance of The researchers used the RECOVID dataset to APOE4 is underlined in the Finnish population, which may be owing to its genetic homogeneity." The APOE4 allele more than doubles the risk of

developing serious COVID-19. The likelihood of acquiring a form of COVID-19 total in the RECOVID dataset.

Common Risk Factor for Alzheimer's that requires intensive care more than doubled Disease May Predispose Carriers to Severe in carriers of the APOE4 allele, according to the findings. Furthermore, in the study, bearers of this According to a new study, people who carry gene had more tiny haemorrhages in the brain as

Furthermore, APOE4 carriers who got coronavirus term symptoms, according to Chief Physician had more tiny haemorrhages in their brains. Johanna Hästbacka, an intensivist. This is According to studies, those with the APOE4 gene especially true in cases of COVID-19 that require

> was mental weariness, which was described as difficulties directing attention and concentrating,"

Myllykangas notes that the number of COVID-19 patients in the datasets under investigation was

"To corroborate our findings, these phenomenon carried by roughly one-third of Finns. Researchers
The study does not address the link between have found a relationship between APOE4 and COVID-19 and the start of memory impairments in

patients, as well as basic research on the combined The link between the APOE4 allele and the severity effects of APOE4 and systemic inflammation on memory systems in the brain, are needed by our research group at the University of Helsinki

> data obtained from national registries, was used in the study.

46,000 people, with over 2,600 of them having "In the Finnish population, the common 4 allele of been diagnosed with COVID-19. In addition, tissue samples from 21 deceased COVID-19 patients were risk of serious illness of COVID-19." According to included in the study to investigate microscopic

> look into mental exhaustion symptoms, which was separated into three groups based on disease severity. The study also included a healthy control group. There were 156 research participants in

PLANKTONS

THE BIGGEST BOON OF **EARTH'S ECOSYSTEM**

-Harshal Patil Second Year B. Pharm.

lanktons are very small life forms of animals, plants, protists and many more organisms that are found in oceans, rivers, ponds. Plankton word derived from the Greek word 'planktos' which means "drifters" or "wanderer"- are unable to swim against water current.

Planktons mostly divided in two categories:phytoplankton zooplankton

which depend on phytoplankton for food and become food for many small "Zooplankton"

Planktons are the chief producers of million people in India are dependent organizations try to find out the solution aquatic food webs and nurture whole on fishing related businesses which in to reduce global warming! But still they aquatic ecosystems as well as terrestrial one! Planktons show significant impact survival. on earth's ecosystem as earth's surface is surrounded by 71% of water.

As many researchers revealed that planktons form the base of the ocean by the process known as photosynthesis, the environment and that's why they are food web, which further supports all aquatic and terrestrial ecosystems food. We all know that CO2 entraps But apart from that Planktons have across the planet.

dinoflagellates, diatoms, chrysophytes, and also some vascular aquatic plants. These phytoplankton help in hazardous problem. carbon dioxide fixation on earth, by releasing oxygen, during the process of photosynthesis and it's quite surprising it decreases the temperature of earth's many industries also release waste that. surface and deals with global warming. water into water bodies without any



Planktons which produce energy food of trillions of small fishes and from photosynthesis just like plants crustaceans, and these small fishes are called "Phytoplankton". Planktons are food for big fishes, ocean birds. fishes and crustaceans are known as aquatic as well as terrestrial creatures. through fishing related businesses. We have to remember that around 15 turn depend on phytoplankton for their

oxygen on earth's atmosphere. It fixes to grow your country's economy then atmospheric CO2 and produces oxygen you want to do some negotiations with during this process it also makes their unsuccessful to find out the solution!. heat towards earth's surface and create been doing their work very effectively Phytoplankton includes protists like major issues like global warming, and and significantly on reducing global due to this, many glaciers are melting warming by intrapping CO2 from the bacteria like cyanobacteria (blue green and sea level is increasing day by day. atmosphere for thousands of decades. algae) and photosynthesis bacteria, and Rising temperature is one of the causes plants like thallophyta and bryophytes of forest destruction like forest fire. upgrade our thoughts! Now it is Plankton deals indirectly with this proved that if we don't care about the

zooplankton and zooplankton are the that the phytoplanktons continuously earth's ecosystem!

decreased by 1% percent per year from 1998-2012, in the northern hemisphere of earth. This leads to a rise in pollution rate day by day.

Most of the people don't know that the phytoplankton are the biggest savior of earth or what are the importance of the phytoplanktons for Earth's ecosystem!. Only few scientists and some environmentalists know the importance of phytoplankton. We have to remember how Planktons play a significant role in pollution reduction as well as nourishing the whole ecosystem! With this example, we can understand Apart from that Planktons also provide how these planktons are nourishing employment to millions of peoples

Many scientists from different are unsuccessful, because their mindset is that the economy is inverse to the Phytoplankton produces about 50% of environment, meaning that if you want

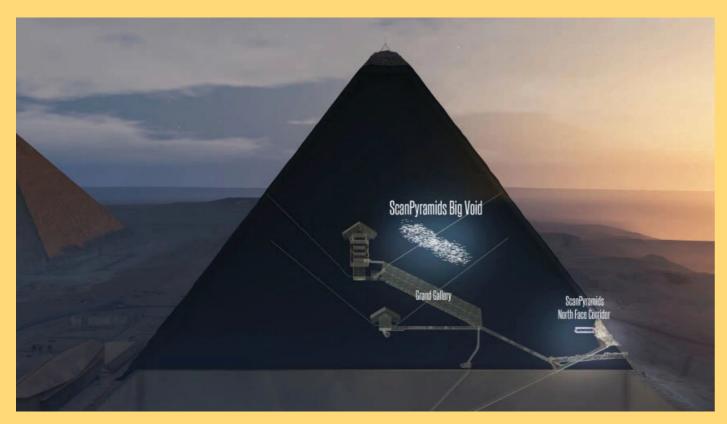
It is time for revolution, we should environment then the environment Many researchers and factsheets also doesn't care about us! Because we revealed that phytoplankton are all know that every living organism is affected by human interruption as interlinked with each other if we harm to know that the phytoplankton produce humans create water pollution by others, indirectly we are harming more than 50% of oxygen on earth. By mixing harmful chemicals and waste ourselves but it shows impact after entrapping CO2 from the earth surface, water directly into water bodies. Even sometime and we have to understand

And this data is sufficient to show that Phytoplankton produce food for treatment. NASA scientists observed the planktons are really a boon for our

Non-Scientific Articles

HUMONGOUS PYRAMID HISTORY-GIZA SCIENCE COULD LEAD THE WAY!

RISHIKA TRIPATHI. Third Year B.Pharm.



could potentially help unearth remaining mysteries of great pyramids. Announcement was made by the scientists that they have utilized particle physics to look inside the pyramid. The particle that was discovered and tracked was muons which are very similar to electrons, having the same charge and a quantum property called spin, but are 207 times heavier. Highly energetic electrons emit electro -magnetic radiation which also makes them lose energy when get in to pass through that object. contact with solid matter.

produced in cosmic rays. The Earth's outer lying atmosphere is constantly bombarded with charged

for technology solar system. It is the latter that provide the more energetic cosmic rays that can produce muons and other particles in a chain of reactions. They produce thin trail of ionization along the path they take leaving the atoms charged. Properties like these make muons great option for taking images of objects that otherwise are impenetrable or impossible to observe. Just like bones produce a shadow on a photographic film exposed to X-rays, a heavy and dense object with a high atomic number will fabricate a shadow or a reduction in the number of muons being able

It was flabbergasting to see how cutting edge particles Muons the newly discovered particles are customarily physics had helped us to shed light on the most ancient culture. Perhaps we are witnessing the change and evolution in beginning of science making it truly particles from the sun but also from sources outside of the interdisciplinary and fascinating for generations to come.

Non-Scientific Articles

owned business or property becomes privately owned. This kind of a privatization can lead to money saved and increased efficiency, as privately owned companies have more freedom and liberty to perform their tasks, as compared to government owned businesses, which may not have the same freedoms due there being long parliamentary procedures to go through, before the implementation of changes and new decision can be made. Privatization includes a number of things, such and public sector things, turning into private sector things. It is like the deregulation of highly regulated private firm/industry/company when it becomes less organized. Just like that, government services and operations may also be privatized, but it should not be considered as denationalization, but instead economic

rivatization is a process in which a government therefore solving issues like low wages, low capital accumulation, low output and low tax revenues.

Advantages of Privatization: -

Privatization has become one of the most discussed and argued topics amongst people, common and intellectuals, businessmen and job holders, small and large businesses alike. The advantages of privatization are:
Increased productivity due to higher incentives and higher

chances of progress.

No political interference since there is no political body

controlling the company and hence no political agendas

be pinned on said company.

Provides a competitive environment by the lure of progress so that there is higher efficiency.

The provision of a free hand independent of government

Privatization



SAMIKSHA SHAH. Second Year B.Pharm.

growth of the country by a bypass method since the government was unable to take said undertaking quickly or efficiently enough due to political restrictions. If this privatization does occur, the private entities are made to uphold government functions and move according to the plans of the government, and assist the government, with or without help and support from said government, just how a state-run company would have undertaken it. This Lack of government concludes prison management, revenue collection, and law may create problems enforcement, etc.

Objectives of privatization: -

Providing strong incentive for the influx of FDI (foreign Is India making the right moves with its Grand direct investment):

- Privatization aims at providing a strong bases for the
- The increased influx of FDI helps improve the economic strength (financially) of the country.

Enhancing the efficiency of public sector undertakings

• The efficiency of PSUs is improved by giving them the autonomy, or freedom to make decisions without the influence of any external source or for any agenda/ purpose. (In the fiscal year 2020-2021 Indian economy had shown great bounce back due to its Privatization steps. And first time in history India overtook China in FDI (foreign direct investment). This clearly shows that Privatization interests foreign institutions enough to make investments.

Claims of Privatization: -

Privatization is a good response to the fiscal imbalance in social security. This is because of largely the fact that privatization will add features that will help improve solvency, such as paying transition cost taxes to privatize the account that already exist in the government system. Privatization will also include removal of payroll tax and include removal o

influence leads to better long-term goals and their

It is a method of revenue generation for the government as they can invest in government schemes.

Disadvantages of Privatization: -

A monopoly gets created in the market due to low competition in the privatization sector.

Lack of government control and regulation on the company

There is a breakdown of a large company into smaller fragments, reducing efficiency.

Privatization plans?

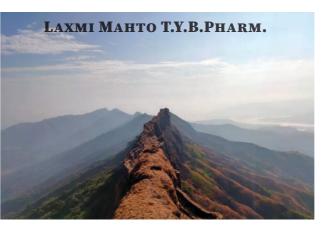
In a country like India, with so much unsung potential, that has been considered lesser due to its lack of right leadership, to make an announcement of privatization in the current union budget was highly ambitious of our esteemed Prime Minister Narendra Modi, with his reasoning that less involvement of the government in businesses, will lead to the improved infrastructure, and increased economic efficiency, hence empowering the Indian citizens. Privatization will make companies and sectors more efficient and competitive, in the end, benefiting the consumer.

On the other hand, the belief of critics is that privatization will lead to the loss of job and higher costs to people. Such may be fact, but on a long-term basis, the economic growth due to privatization and the progress of the country, leading to, in turn, lower costs and more jobs, can outweigh its short-term problems. That is why privatization is being

instead employ consumption tax, improving efficiency. the country, and the Indian government deserves to be Privatization will also help increase national savings, commended for its plan.

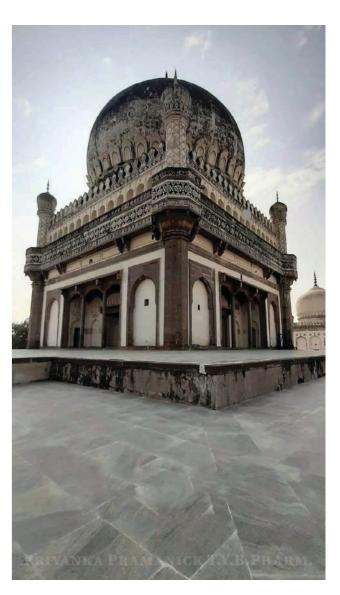














Sunshine

Every morning brings a new sunshine,
Every ray brings a new hope.
Each morning gives you more time,
It gives strength to Limb every possible road.

If you lose today don't lose hope, Each morning brings new scope. No matter you feel today keep trying Some little birds may teach you flying.

We know we don't have any short path,

For leading a successful life,

Because even the sun has to set in the evening,

Just to shine every morning.

Sometimes you have to be the cardle,

To light someone's life.

Because been Sun for someone else,

You have to burn yourself first.

-Mehvish Siddique First year B.Pharm,

Quwat-e-Amal Ka harr afsana Gulzar ho, Lazmi toh nahi, Beher ke bahaw ke sath bahein Lazmi toh nahi, Har pal mustakbil ki fikar karna Zaroori toh nahi, Aaj ki kashmakash kal sukoon de Zaroori toh nahi, Phir kyu harr Pal ae' bande, Aarzoon ko paane me Malang hai tu, Fagt chand lamho ke sukoon ke liye Apna zameer gurbaan kar raha hai tu, Ae insaan tu tham ja zara, Mukhtasar Peher ki hayat me Hasrat-e-Qalb me na ulajh, Kal ki justajoo chord, Tu aaj ki ruhmaniyat me jee -Walia Khan First Year B. Pharm.



आसान नहीं होता एक शिक्षक होना ।

आसान नहीं होता एक शिक्षक होना । आसान नहीं होता एक शिक्षक होना। पहले वो खुद सिखते हैं, सिर्फ़ हमें कुछ सिखाने के लिए। वो हमसे ज्यादा मेहनत करते हैं, हमें कुछ बताने के लिए। सारी रात कभी कभी जग जाते हैं, हमारे कुछ सवालों के जवाब के लिए। अपना भविष्य लगा देते हैं, हमारे भविष्य को बनाने के लिए। वो खुद राह बन जाते हैं, हमें अपने मंजिल तक पहुचने के लिए। ऐसे निस्वार्थ शिक्षकों को हम नमन करते हैं, हमारी खुद की नयी पहचान बनाने के लिए।

आसान नहीं होता एक शिक्षक होना। आसान नहीं होता एक शिक्षक होना। वो शिल्पकार भी बनते हैं, हमारे जीवन को आकार देने के लिए। क़भी खुद अग्नि भी बनते हैं, हमारे भविष्य को निखारने के लिए। सादा जीवन भी बीताते हैं, अपने आदर्शों और हमें सादगी सिखाने के लिए। वो अनुशासन में रहते हैं, हमें अनुशासन सिखाने के लिए।

ऐसे महान शिक्षकों को हम नमन करते हैं, हमे कामयाब बनाने के लिए। - रविकेश प्रजापति (Final Year B.Pharm)

Mirrors

It's bonanza a pavement to amble, Eternal rest is no scandal. Finding Fay in bizarre vespers, It's isolation along with a curse.

Hold on today with care,

Let go of your past don't stare. Finding future, frantic but aware, Time slips, don't sit and glare.

Clash of egos and fluctuating Pampers, Cluster of theories and classified examples . It's no Godzilla neither star war, Be astute, semblance Marvel and D.C are.

Sex , flex , hurt and agony, Anxiousness on the road of symphony. Blunders of lies , cameras and spies, Still we got obvious things to hide.

Films are flaunting fairy tale,

Throbbing, tormenting, sometimes soothing pain

Mammoths of libidinous dreams, Syllabus of love, exams so extreme!

Love life is just a myth, Stay away and you will be fit .

> -Saziya Ansari First Year B.Pharm.



HUMAN BRAIN FACTS NUMBERS

-Payaam Vohra, Third Year B. Pharm.

- 1. The typical brain comprises about 2% of the body's total weight but uses 20% of its total energy and oxygen intake.
- 2. Your brain is 73% water.
- 3. It takes only 2% dehydration to affect your attention, memory, and other cognitive skills.
- 4. Ninety minutes of sweating can temporarily shrink the brain as much as one year of aging.
- 5. The brain weighs about three pounds.
- 6. 60% of dry weight is fat, making the brain the fattiest organ in the body.
- 7. 25% of the body's cholesterol resides within the brain. Cholesterol is an integral part of every brain cell
- 8. Brain information travels up to 268 miles per hour. This is faster than Formula 1 race cars which top out at 240 mph
- 9. Brain scans can "light up" when a person is in love
- 10. Some may think that being "inlove" is only an idea or merely
 a term people use; but brain
 scans reveal otherwise. "For
 people who are romantically
 in love, functional MRI brain
 scans can show activity where
 dopamine, the 'feel-good'
 neurotransmitter, is present
- 11. It can store an estimated 2,500,000 gigabytes

- 12. It has an average of 50,00070,000 thoughts a day:
 Upsettingly, the majority (an
 estimated 60-70 percent) of the
 thoughts are negative.
- 13.Everyone dreams. Five minutes
 after a dream, half of the dream
 is forgotten. Ten minutes after
 a dream, over 90% is forgotten
- 14.A small area in the brain called the amygdala is responsible for your ability to read someone else's face for clues to how they are feeling.
- 15. If your brain loses blood for 8 to 10 seconds, you will lose consciousness
- 16. The brain stops growing around the age 18
- 17. The human brain color physically appears to be white, black, and red-pinkish while it is alive and pulsating
- 18. The world's fastest
 supercomputer requires 24
 million Watts of power to
 operate, but our brains only
 require 20 Watts and operate
 about 100,000 times faster
- 19. Yawning is actually a reaction that sends more oxygen to your brain. Reptiles, birds, and mammals all yawn and its controlled by neurotransmitters in the brain.
- 20. Every second, there are 100,000 chemical reactions happening in the human brain

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"Aristotle taught that the brain exists merely to cool the blood and is not involved in the process of thinking. This is true only of certain persons"
-Will Cuppy



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