

The greatest asset of any business is its people. Human resources professionals help guide organisations with sound practices — hiring the right people, training them to be effective and developing strategies to motivate and inspire.



ESSENCE- 2023

SHREE SAINATH COLLEGE OF PHARMACY
(Run by Swargiya Meghrajji Ojha Smruti Shikshan Sanstha)

(Approved by PCI, DTE, Govt. of Maharashtra &

Affiliated to the RTMNU, Nagpur and AICTE, New Delhi)

(College Code: 259; DTE Code: 4209; PCI Code:2084; AICTE CODE:1-23735644)

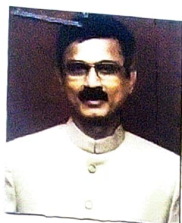
Address: 46, SAI VALLEY, DAWALAMETI, AMRAVATI ROAD, NAGPUR-23



PHARMACIST'S OATH

- I swear by the Code Ethics of Pharmacy Council of India in relation to the community and shall act as integral part of health care team.
- I shall uphold the laws and standards governing my profession.
- I 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 consider best for pharmaceutical care and counseling of patient.
- I shall hold endeavour to discover and manufacture drugs of quality to alleviate sufferings of humanity.
- I shall hold in confidence the knowledge gained about the patients in connection with my professional practice and never divulge unless completed to do so by the law.
- I shall associate with organizations having their objectives for betterment of Profession of Pharmacy and make contribution to carry out the work of those organization.
- While I continue to keep this oath unviolated, may it be granted to me to enjoy life and practice pf pharmacy respected by all, at all times!
- Should I trespass and violate this oath, may the reverse by my lot!





Rashtrasant Tukadoji Maharaj Nagpur University

"Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)"

Dr. Subhash R. Chaudhari
Vice-Chancellor

Website : www.nagpuruniversity.ac.in
Email : vc@nagpuruniversity.nic.in

Mobile : 9322638418

Jamnalal Bajaj Administrative Building, Mahatma Jotiba Phule Educational Premises, Campus Square to Ambazari T-Point Road, Nagpur - 440033.

MESSAGE

I am happy to know that Shree Sainath College of Pharmacy, Nagpur is bringing out its Annual College Magazine "Essence-2022" 23.

The main objective of publishing the magazine is to motivate the students to disseminate the useful and innovative thoughts. This is a very welcome move and it would give rise to new studies and enhancement of knowledge.

I am sure this venture will go a long way in shaping the young minds & sharpening their creative talents and an opportunity has been provided to harness the genuine talent amongst the students.

I congratulate the Editorial Board for bringing the magazine.

Nagpur/January 13, 2023

(S.R. Chaudhari)



Rashtrasant Tukadoji Maharaj Nagpur University

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Re-accredited by NAAC "A" Grade

Dr. Sanjay S. Dudhe
Pro. Vice-Chancellor

Website : www.nagpuruniversity.ac.in
Email: provcc@nagpuruniversity.nic.in

Phone : (0712) 2561347
Mobile : 9423108215

Chhatrapati Shivaji Maharaj Administrative Premises, Ravindranath Tagore Marg, Nagpur - 440 001. (Maharashtra)

MESSAGE

I am delighted to know that **Shree Sainath College of Pharmacy, Amravati Road, Nagpur**, affiliated to Rashtrasant Tukadoji Maharaj Nagpur University is going to publish **Annual College Magazine Essence-2022-23**.

I would first like to congratulate the Governing Body, the Principal, the staff and the students of Shree Sainath College of Pharmacy for the Annual College Magazine on the occasion of Social Gathering.

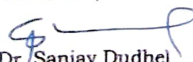
Annual College Magazine Essence-2022 contains scientific and social literature articles and poems etc. I am very happy to be a part of this Magazine. This college is providing opportunities to thousands of students in the field of pharmacy, therefore, this college is playing an important role in the Society.

A college is much more than the bricks and mortar with which it is built. A college is the generations of students and teachers who make it into a thriving institution. It is important to recall that the singular feature of 'vidya dana' (the act of imparting knowledge) is a big and important task which is doing by the College and the aim of it is to attain happiness for everyone. A college is a part of humanity and provides opportunity to fulfill the potential of students and transform their dreams into reality.

I also appreciate the Teaching Faculty who is the proud inheritors and flag bearers of a wonderful tradition of being in the fortunate position to give your students the greatest gift of knowledge.

I, once again congratulate the College for their **Annual College Magazine Essence-2022** which is a compilation of Scientific and Social literature articles and poems etc.

Thank You,


(Dr. Sanjay Dudhe)
Pro. Vice-Chancellor



राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ
RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st August, 1923 & presently a state University governed by Maharashtra Public Universities Act 2016) (Mah. Act. No. VI of 2017)
Re-accredited by NAAC "A" Grade

परीक्षा व मूल्यमापन मंडळ कार्यालय • Office of the Director, Board of Examination & Evaluation
Examination & Evaluation Building, L.I.T. Premises, Amravati Road, Nagpur-440 033.
Cell : 9158537050, 8669955376 • Website : www.nagpuruniversity.org • E-mail : coe@nagpuruniversity.nic.in

Message

It is indeed a matter of pleasure that Shree Sainath College of Pharmacy, Nagpur is bringing out magazine **Essence-2022** on the occasion of annual socio-cultural gathering.

Essence-2022 is an avenue for young students to get their innovative ideas, imaginations, scientific information and leisure articles published in the same. This venture will go a long way in shaping the young minds and sharpening the creative talents and developing the personality of students. I am confident that students would excel in industry and academics along with extracurricular and co-curricular activities.

I am sure that this magazine **Essence-2022** will provide a platform to represent the spirit, technical and literary talent hidden of the students and staff of the college to share their views.

I take this opportunity to convey my Best wishes on the said occasion and wish the gathering a success and productive.

With Regards,

Yours

Prof. Prafulla Sabale



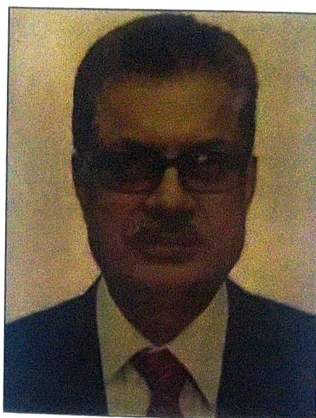
Message from the President's Desk

Swargiya Meghrajji Ojha Smruti Shikshan Sanstha, Nagpur established in the year 1991 is an organization always striving to achieve the best and promote quality education for all sections of the society.

At the institute of Pharmacy our staff is committed to developing the potential and nurture the talent of each and every student, enabling them to serve society in the best of capacity.

I hope our students will take full advantage of all the facilities provided to them and will in turn help us achieve our aim to uplift the standard of the Pharmacy profession.

Birendra Singh
President,
SMOSS Society, Nagpur



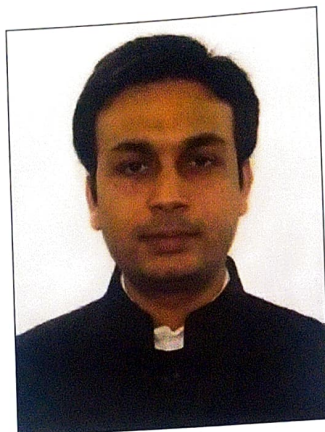
Message from the Secretary's Desk

Good health is not only the foundation of a happy life of an individual, it is essential for a positive family and community life also. Health care system has a direct bearing on economy of a nation. Education of pharmacy is a very important discipline of comprehensive health education system. Pharmacy is the clinical health science that links medical science with chemistry. It bears responsibility of discovery, production, disposal, effective and safe use, and control of medications and drugs. World is witnessing the supreme role of pharmaceutical science and pharmacists in saving humankind by meeting the challenges posed by dreaded COVID-19 pandemic.

Shree Sainath College of Pharmacy, Dawalameti, Amravati Road, Nagpur, a leading pharmacy degree college, situated on a green sprawling campus, equipped with all modern facilities is imparting quality education in B. Pharm degree courses since past 8 years. By dint of sincere endeavor of able teachers, the college has 100% results in all semesters and many students secured distinction in the recent examinations. The Executive body of the Charity Society, "Swargiya Meghrajji Ojha Smruti Shikshan Sanstha" under the umbrella of which this college runs is committed to enhancement of infrastructural facilities and continual quality improvement of education in this college.

My best wishes to all students for their bright future.

Shri. Purushottam Kumar Sinha
Secretary, SMOSSS, Nagpur



Message from the Director's desk

Warm greetings to each one of you.

The entire intellectual community of the world has woken up to the reality that India is a treasure-house of talent and intelligence. The youth of today are taking India to unparalleled heights of prosperity. The only raw material essential to this great turnaround is EDUCATION because knowledge is power.

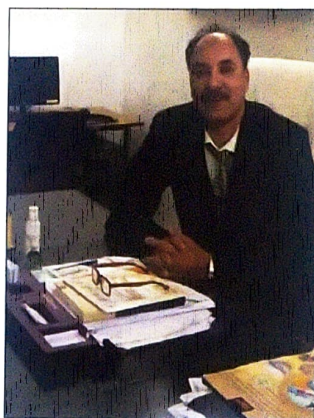
Education determines the path of progress and prosperity for which the College is very much committed as is evident from the recent developments and changes taking place.

We will always strive for excellence and will set high standards in all sectors of education to produce world class professionals.

I wish the Principal, Staff and Students all the very best to achieve their set goal under the able guidance of the Management to fulfil the aspiration of parents & ambition of students as a Commitment towards national service.

Mr. Shashank Shekhar

(Director, SMOSSS, Nagpur)



From the Desk of Principal

It gives me immense pleasure to release the annual college magazine “ESSENCE 2022-2023”.

ESSENCE 2022-2023 is an avenue for young students to get their innovative ideas, imagination, scientific information and articles published in the same. It is exclusively meant for bringing out the potential writing talent and developing the personality of the students.

It is indeed a matter of great pride that our college has made outstanding progress in academic, co-curricular and extracurricular activities. I am confident that our students would excel both in industry and academic.

I congratulate all the contributors and the editorial board for bringing out such a good magazine.

Wishing you the best for scaling bigger success and achieving newer heights in the coming days.

Dr. Md. Saleemuddin Farooqui
Professor & Principal
Shree Sainath College of Pharmacy,
Dawalameti, Nagpur



From the Editor's desk

Dear readers,

Greetings to you,

Our Annual Magazine, ESSENCE, over a years has grown to have a personality of its own. The editorial board is glad to release the current issue of Essence 2022-23 magazine. The contribution and dedication of faculty members, students and non-teaching staff of Shree Sainath College of Pharmacy is continuously helping the magazine in stepwise manner for achieving new mile stones. The purpose of this college magazine is to unlock the hidden potential within the students and helped the students for motivation.

I want to extend my sincere thanks to my editorial team for the support to make this magazine stand out.

I am pleased to say that the management & staff is excellent & do not hesitate to put in their best in all college activities & up-gradation. Here lies a humble hope that you will enjoy & appreciate it.

“ The energy of the mind is the ESSENCE of life”.

Ms. Harshali Shende

(Assistant Professor)

MAGAZINE EDITORIAL BOARD

Chief editor : Dr. Saleemuddin Farooqui

Editor : Ms. Harshali Shende

Scientific Committee :

- Dr. Lata Potey (Assistant Professor)
- Mrs. Pooja Chavhan (Assistant Professor)
- Mr. Tushar Akhare (Assistant Professor)
- Ms. Shubhangi Yenurkar (Non-teaching)
- Mr. Tapas Ghosh (Student B.Pharm IV year)
- Mr. Netraj Bandawar (Student B.Pharm III Year)

NSS Committee :

- Dr. Yogita Charde (Assistant Professor)
- Ms. Pooja Birade (Assistant Professor)
- Ms. Yogini Shete (Assistant Professor)
- Mrs. Megha Meshram (Non-teaching)
- Ms. Muskan Botha (Student B.Pharm IV year)
- Ms. Shruti Pali (B.Pharm III year)

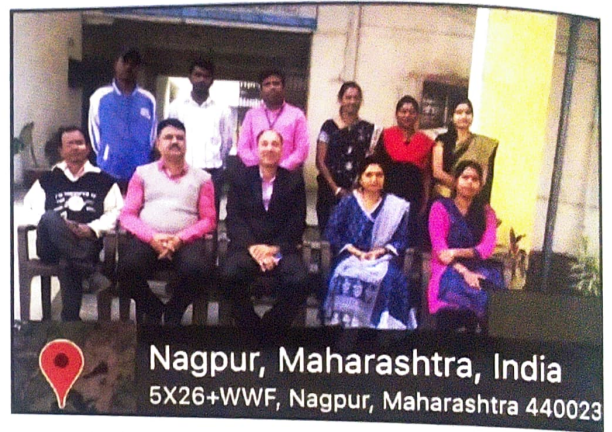
Cultural / Sports Committee:

- Mr. Snehal Shrivastav (Assistant Professor)
- Ms. Rasika Rangari (Assistant Professor)
- Ms. Pornima Patil (Assistant Professor)
- Mrs. Rani Kapse (Non-teaching)
- Mr. Giriraj Raut (Student B.Pharm IV year)
- Mr. Jayesh Charde (Student B.Pharm III year)

PHOTO GALLERY



TEACHING STAFF WITH PRINCIPAL



NON-TEACHING STAFF WITH PRINCIPAL



B. PHARM THIRD YEAR STUDENTS



B. PHARM FINAL YEAR STUDENTS



B. PHARM FIRST YEAR STUDENTS



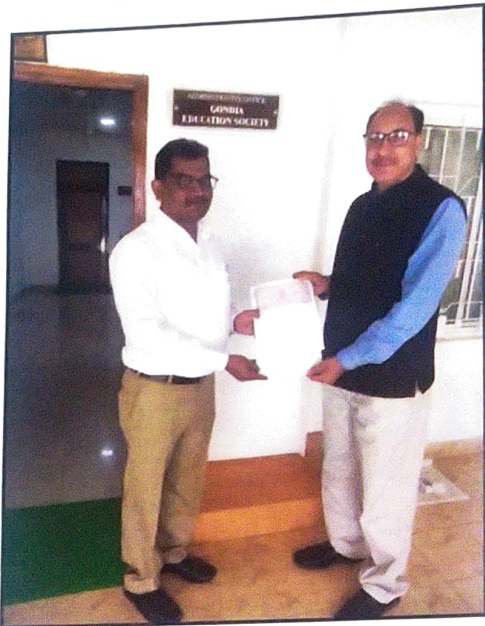
B. PHARM SECOND YEAR STUDENTS



D. PHARM FIRST YEAR STUDENTS

Institutional Achievements

INDUSTRY – INSTITUTE INTERACTION (MOUS)



Gondia College of Pharmacy



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 5X26+WWF, Nagpur, Maharashtra 440023, India
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 Maharashtra 440030, India
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 Long 79.071458°
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Bioexcel Institute of Clinical research



Reliable's Shree Industrial Training Center

TOP NOTCHERS- 2022 B. PHARM

I SEMESTER



Shrushti Dhakare
First Topper



Ayushi Vyas
Second Topper

II SEMESTER



Shrushti Dhakare
First Topper



Isha Tiwari
Second Topper

III SEMESTER



Pranju Kuratkar
First Topper



Bharti Lilhare
Second Topper

IV SEMESTER



Pranju Kuratkar
First Topper

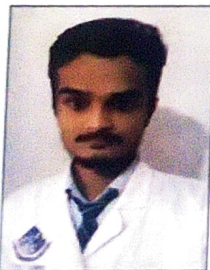


Rashmi Bhalme
Second Topper

V SEMESTER



Sourabh Changole
First Topper

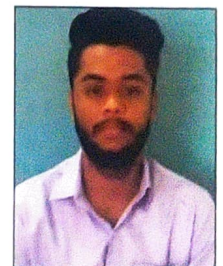


Somesh Changole
Second Topper

VI SEMESTER



Tapas Ghosh
First Topper

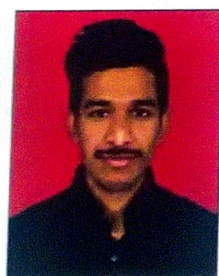


Mayank Tolmare
Second Topper

VII SEMESTER



Mohd. Saifuddin
First Topper



Mayur Lohi
Second Topper

VIII SEMESTER



Shweta Dhole
First Topper



Triveni Thakre
Second Topper

GPAT 2022 QUALIFIED STUDENTS



Mr. Tapas Ghosh
B. Pharm III year
AIR- 1361



Mr. Ashish J. Hingnekar
B. Pharm IV year
AIR-1674



Mr. Laxman Sahu
B. Pharm IV year
AIR-4954

Ph. D Awarded- 2022



Dr. Lata C. Potey was awarded the Doctor of Philosophy (PhD) degree for the thesis entitled, "Synthesis & evaluation of Novel Flavone & Flavonoids of Medicinal Interest" her research work was done under the supervision of Dr. Prafulla Sable at Department of Pharmaceutical Science in Faculty of Science & Technology, Rashtrasant Tukadoji Maharashtra Nagpur University, Nagpur.



Dr. Yogita M. Charde was awarded the Doctor of Philosophy (PhD) degree for the thesis entitled, "New Approach for Development of Formulation for Antimalarial drugs & Diagnosis of Malaria by Zeta Potential Studies" her research work was done under the supervision of Dr. Jasmine Avari at Department of Pharmaceutical Science in Faculty of Science & Technology, Rashtrasant Tukadoji Maharashtra Nagpur University, Nagpur.

ACCOLADES

- ❖ **Mr. Tushar P. Akhare** and **Ms. Harshali N. Shende** were registered for Ph. D. in session 2022-23.
- ❖ Result of Herbal Drug Technology and Quality Assurance of VI sem was 100%.

Constitution of SSCP Internal Quality Assurance Cell (IQAC)

SSCP constituted Internal Quality Assurance Cell (IQAC). The IQAC will look after the overall activities in the College. The first general meeting of the committee is planned to held on 9th May 2022.

Sr.no	Name	Position	Designation
1	Dr. Saleemuddin Farooqui	Principal	Chairman
2	Dr. Lata Potey	Associate Professor	Coordinator
3	Dr. Yogita Charde	Assistant Professor	Coordinator
4	Mr. Irshad Ahmad	Assistant Professor	Member
5	Mr. Snehal Shrivastav	Assistant Professor	Member
6	Mr. Tushar Akhare	Assistant Professor	Member
7	Ms. Rasika Rangari	Assistant Professor	Member
8	Ms. Divya Vinchurkar	Senior Student	Member (Student)
9	Mr. Isha Tiwari	Junior Student	Member (Student)
10	Ms. Bharti Dongre	Student Alumni	Member (Student Alumni)

SPONSORSHIP

We have sponsored the IPC 2023 and ISC 2023



INSTITUTION INNOVATION CELL



SR.NO.	NAME	DESIGNATION
1.	Prof.(Dr.) Saleemuddin Farooqui	Principal and president
2.	Dr. Lata Potey	Vice President and Innovation activity coordinator
3.	Mr. Pratik Ghatak	Student Member
4.	Mrs. Pooja Chavhan	Convener and startup activity coordinator
5.	Ms. Sakshi Bhagat	Student Member
6.	Dr. Yogita Charde	IPR Coordinator, NIRF Coordinator
7.	Mr. Tapas Ghosh	Student Member
8.	Mr. Irshad Ahmad	Internship activity coordinator, ARIIA coordinator
9.	Mr. Sohil Bendre	Student Member
10.	Mr. Snehal Shrivastav	Social Media Member
11.	Mr. Milind Buradkar	Student Member
12.	Mr. Giriraj Raut	Student Member
13.	Dr. Ravindra Bakal	External Member
14.	Mr. Devidas Jichkar	Non-Teaching member

EVENTS

WORKSHOP



“Way to Scientific Writing and Publishing with Career Guidance”

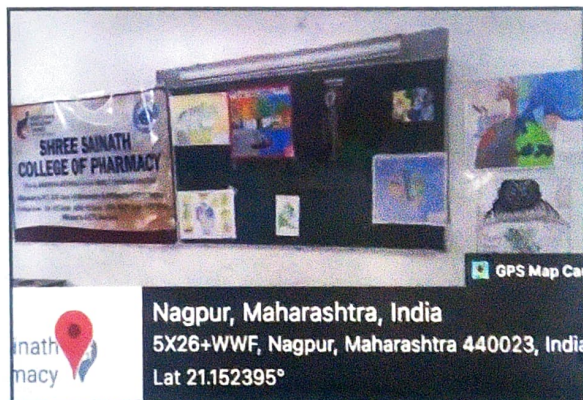
GUEST LECTURE



“Awareness on Clinical Research and management”



National Pharma Week



National Pollution Control Day

NSS ACTIVITIES

WORLD ENVIRONMENT DAY



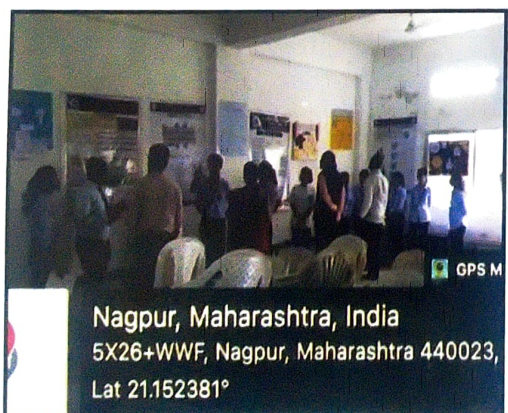
INTERNATIONAL YOGA DAY



BLOOD DONATION CAMP



WORLD PHARMACIST DAY



Poster Competition



Slogan Competition

Awareness Rally



TREE PLANTATION PROGRAM



HAR GYAR TIRANGA ACTIVITY



CULTURAL ACTIVITIES

SHIVRAJYAABHISHEK DAY CELEBRATION

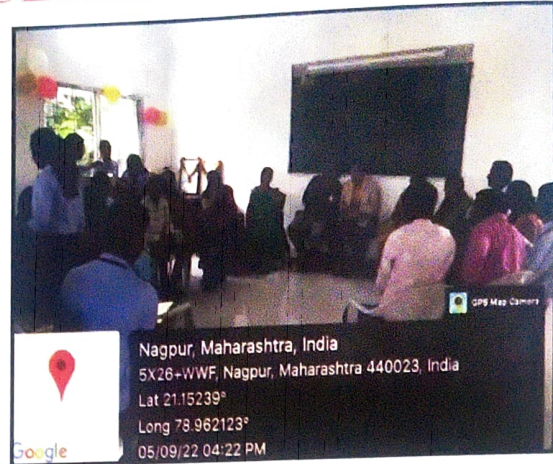
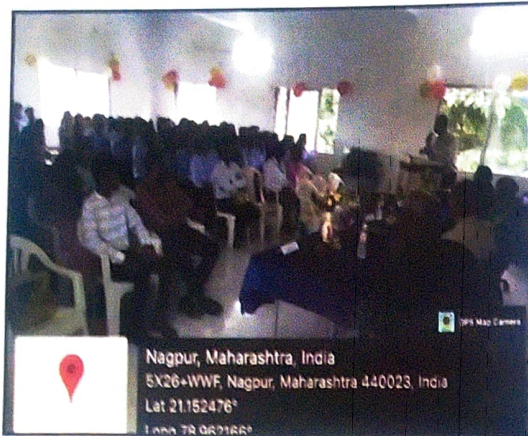


GURU PORNIMA CELEBRATION

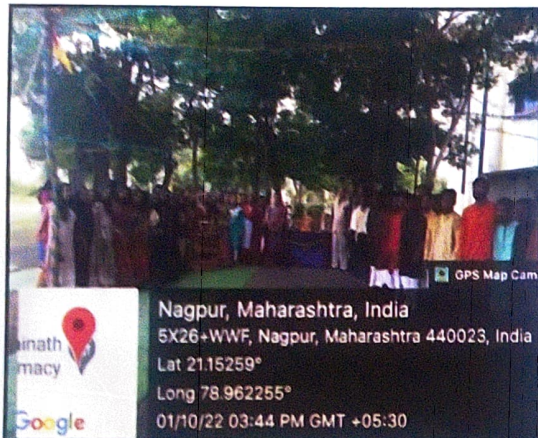


JANMASHTAMI CELEBRATION

TEACHERS DAY CELEBRATION



RAAS GARBA CELEBRATION



"NATIONAL YOUTH DAY"



Publications

- Lata C. Potey v, Prafulla M. Sabale and Vidya P. Sabale, Design, Synthesis, and Antiproliferative Activity of Novel Flavone Derivatives, Letters in Drug Design & Discovery, 28 October, 2022, DOI: 10.2174/1570180819666220919124717.
- Lata Potey, Anshu Rupesh Dudhe, Dhanashri Tumme, Rupesh Dudhe, and Prafulla Sable, The concept of Repurposing in Covid-19 Infection, Coronaviruses, Volume 3, 12 Issues, 2022. Bentham Sciences.
- Lata Potey, Deepika Devnani, Yogita Charade, Snehal Shrivastav, Harshall Shende, Tushar Akhare, Rasika Rangari and Prafulla Sabale, A book chapter on Nutrition and Advanced Treatment for Hemorrhoid, in Essential of Food Technology and Nutritional Science, Volume 1, Akinik Publication New Delhi.

Patent Filed

- Dr. Lata Potey, Dr. Prafulla Sabale, Dr. Vidya Sabale- Patent filed on "Novel Anti-Proliferative Flavone Derivatives", Patent application no. 202121047528 A

Oral Presentation

- Mr. Snehal Shrivastav participated in Oral presentation on "Analytical method Development and Validation of Ambrisentan by RP-HPLC." In International Conference on Multidisciplinary Research and Management (ICMRM-22) on 10th and 11th June, 2022 at G H Rasoni University, Saikheda, MP, India
- Dr. Lata C. Potey participated in Oral presentation on "Synthesis, Characterization & Biological Evaluation on Quinazoline-2,4-Bis-Amino-2-Substituted Methyl Carboxylic acid derivatives as Broncodilator." In 108th Indian Science Congress RTM Nagpur University Nagpur on 06th January, 2023.
- Dr. Yogita Charde participated in Oral presentation on "Formulation and Evaluation Of Microspheres For Sustained Release Of Atrovastatin Using Chitosan And Alginate." In 108th Indian Science Congress RTM Nagpur University Nagpur on 06th January, 2023.

Seminar/Workshop/Training Program attended

- Dr. Lata Potey, Dr. Yogita Charde, Mr. Irshad Ahmad, Ms. Sarika Meshram, Mrs. Pooja Chavan, Mr. Tushar Akhare, Mr. Snehal Shrivastava and Ms. Rasika Rangari Participated in Faculty Development Program on "ICT Tools for Effective Teaching and Learning" on 23rd May-28th May 2022, organized by Amar Sewa Mandal's Kamla Nehru Mahavidyalaya, Nagpur.
- Mr. Snehal Shrivastav and Ms. Rasika Rangari participated and completed two days Analytical Instruments Training workshop on "UV-VIS Spectrophotometer, HPLC & GC" on 18th October- 19th October 2022 organized by Reliable's Shree Industrial Training Center, Jalgaon in association with Shree Sainath College of Pharmacy, Nagpur.

SCIENTIFIC ARTICLES

How a Little Bit of Anxiety May Improve Your Memory - Live Science

Something as simple as running out to grab a coffee may not be a memorable experience — but anxiety could change that. A new study suggests that people with higher anxiety levels might remember certain events better than people with lower anxiety levels. That's because, researchers say, higher anxiety may make people more susceptible to negative feelings, putting them in a more negative state of mind. That, in turn, may make certain events seem more memorable. In other words, a little bit of anxiety could give your memory a boost. Consider this scenario: If a person is having a bad day and then goes to Starbucks, where the barista asks a neutral question, such as "Would you like milk in your coffee?" this may be interpreted as something negative if someone is in a bad frame of mind. Later, an individual may remember this trip for coffee as a negative experience because of this negative mindset, said co-study author Christopher Lee, a doctoral candidate in psychology at the University of Waterloo in Canada.

High anxiety and memory

In the study, the researchers started by giving 80 undergraduate students an anxiety test. They found that the people who scored highly on that test — which measured anxiety experienced in the two weeks prior — were more susceptible to negative feelings than people with lower levels of anxiety. The people in the study didn't have a diagnosed anxiety disorder. Then, to test memory, the participants were shown a series of neutral words, one at a time, overlaid onto either a photo of a negative scene — meaning something that could affect their emotions, such as a car accident or a cemetery — or a neutral scene, such as a lake or trees. Neutral words included words like "table" or "desk" that don't elicit emotion. Later, the participants were asked to think back to the words they were shown earlier, which caused them to re-enter either a negative or neutral mindset, said study author Myra Fernandes, a professor of psychology at the University of Waterloo in Canada. The participants were then presented with another set of neutral words, and their memory of these new words was tested. The researchers found that the new words presented to people in a negative mindset were better remembered by people with higher levels of anxiety than those with lower levels of anxiety. In other words, when highly anxious individuals took in otherwise emotionally neutral information that was presented to them, it became tinged by their negative mindset, making the information more memorable. But these same effects were not seen in people with low levels of anxiety, the researchers found.

Making something memorable

It's not entirely clear how anxiety may enhance memory. It could be that for highly anxious people, memories of neutral events seen or neutral information learned while in a negative mindset become more "emotionally tainted," rendering it more memorable, Fernandes told Live Science. Previous studies have found that extreme levels of anxiety, such as those experienced by people diagnosed with an anxiety disorder, can be quite detrimental to memory and cognitive performance, Fernandes said. But the highly anxious people in this study represent individuals who are managing their anxiety, and it is not debilitating to them, she noted. What's more, the findings also suggest that it's important to be aware of how biases can occur when people take in and remember information, the researchers said. One of the limitations of the study is that it looked only at a person's memory of words and no other types of information, such as faces, scenes or color, Fernandes said. So, it's not yet known if the findings would apply to these other aspects of memory, she noted. Another limitation is that the participants were all college students, typically in their early 20s, and it's not clear whether similar results would be seen in people of other ages. The study was published in the January issue of the journal *Brain Sciences*.

Harsh kabra
T.Y.B PHARM

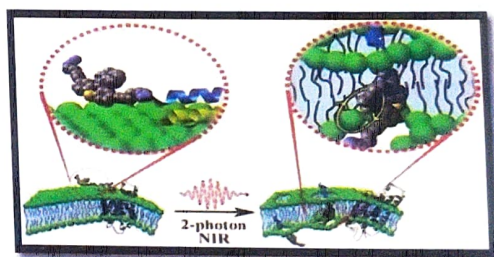
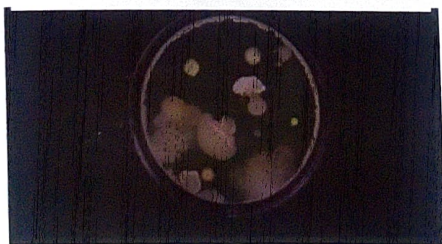
Gender Inequality at Workplace

Inequality at work refers to any type of discrimination in working environment based on caste, race, color, etc. But gender inequality treatment between male and female workers. The main reason behind the issue of gender inequality at work is the mindset and culture. The ego of male member prevents the female member to enjoy equal position at workplace. People also do this because of un-awareness. The main impact of gender inequality at work is that society gets shrink and deprived of the minds of the female worker. It also gives rise to status of women issue in the society. The solution for social issue of gender inequality at work is in the hand of people themselves. People should start training and impart proper education for gender equality. People should also change their perception that women will get less salary in comparison to men. For that, people should introduce successful business women as the role model at their workplaces.

BY SAMRUDHI PRASAD
B. PHARM 2nd YEAR

Light-activated molecular machines combat antimicrobial resistance

A selective weapon that can be remotely controlled to kill bacteria independently or in concert with current antibiotic approaches.



Antimicrobial resistance is a challenge on the smallest of scales, but with the greatest of stakes. As our use of antibiotics has grown, in life-saving hospital interventions, in handy treatments quelling all manner of infections, and on livestock around the world, bacteria have risen to the challenge, adapting to evade our attacks.

Losing our ability to combat bacterial infections would mean millions of deaths and a great step backwards for humanity.

To battle superbugs and prevent everyday infections becoming deadly, we might need new weapons.

Light-activated molecular machines

Molecular machines could be a powerful addition to our arsenal. Researchers at Rice University have developed tiny, synthetic motors that can launch attacks on bacteria in ways they may never encounter in nature, and so are ill-equipped to repel.

The diminutive devices are built around a switch that responds to light, prompting rapid motion when activated. This movement can be either a continuous twitch between two different poses or circular spinning that turns the molecules into drills that pierce bacteria's protective membranes.

A selective weapon against antimicrobial resistance

The approach appears to work on Gram-positive bacteria only because of key differences in the membrane structure of Gram-positive and negative bacteria. Mammalian cells have similarly robust defenses against the oxidative stress that damages bacteria due to differences in the electrical charge of their membranes and the stiffening presence of cholesterol, meaning the risk of collateral damage to the patient is reduced.

"An important advantage of these molecules is that they have a narrow spectrum of activity and selectively kill a specific group of bacteria: Gram-positive bacteria," said the paper's co-lead author, Ana Santos. "Therefore, they are less likely to cause the side effects seen with broad-spectrum antibiotics that indiscriminately kill both 'bad' and 'good' bacteria, and they are also less likely to lead to resistance because only one group of bacteria is affected."

A selective weapon which can be remotely controlled using visible light and can kill bacteria independently or in concert with current approaches without harming human cells is a tantalizing prospect. Beyond experiments in the lab, a potential use would be for burn wounds. These exposed injuries are often infected with stubborn Gram-positive bacteria, and prone to reinfection and resistance development. And a light-activated solution is particularly practical on the surface of skin.

Initial tests on a model species were promising: Moth larvae infected with MRSA could only survive past seven days with treatment of both antibiotics and the hemithionidigo machines - conventional treatments alone weren't enough.

There's plenty of work to be done to move from treating moth burns in a lab to tackling the global antimicrobial resistance crisis, which was the third leading cause of death around the world in 2019, and could claim ten million lives each year by 2050 if nothing is done. But perhaps the light that activates these molecular machines is a beacon of hope for the future.

-Tapas Ghosh

RECENT ADVANCES IN TRANSDERMAL DRUG DELIVERY SYSTEM

Transdermal is non-invasive, non-allergic, and has a set duration and dose delivery method, which allows for uniform distribution of drugs at prescribed and controlled rates. The transdermal techniques overcome the consequences of injectable and oral routes. The objective is to deliver drugs to specific systemic circulation through skin at constant concentration.

The drug penetrates through the stratum corneum and passes deeper to the epidermis and dermis layer of the skin. In the report, the author has reported the recent methods that have been introduced in pharmaceutical technology and the future applications of transdermal drug delivery system for prolonged therapeutic effect. The methods include vesicles and particles, vehicle interactions, energy driven methods, stratum corneum modification, and stratum corneum by passing techniques. On the basis of present research microneedles, a new method is shown to deliver both low and high molecular weight drugs. Microneedles have versatile effect as compared to other transdermal techniques. It has been successfully used for the purpose for delivering COVID-19 vaccines, delivery for HIV treatment and contraceptive hormones. Therefore, the transdermal drug delivery technology is growing rapidly in the pharmaceutical field and has succeeded in capturing key value in the market for biomedical applications that can improve drug delivery through topical routes.

Shafiya Rizvi
B Pharma- 2nd year.

POEMS

Life of a Pharmacy Student
 A Pharmacy student is such a mess,
 He is on duty more and rests less.
 He's up early and struggles all along
 Runs to catch a train with earphones playing
 song Arrives in college late during an important session
 And when reaches on time, the day's off and there are no lessons!
 Comes with confidence that he's done all work
 And when comes to know of a forgotten assignment, tries to complete it
 before the time end sand teacher in lurks
 He sits in the can teen but to chat with friends
 And piles up in hangout eateries, as the college ends Fast food, coffee are his best buddy, Whatsapp, Insta...for
 a selfie he's always ready! He fears vivas and presentations,
 And remembers to study and collect notes mostly during examinations
 But above all he loves his teachers, friends and college life more than anything!
 He won't give it a wayor exchange it inreturnofnothing!

Harsh Kabra
 T. Y. B. PHARM

THIS IS WHO I AM?

Though I am soft like sodium
 But I am strong like Iron and Titanium
 Though my melting point is very high
 But I used to boil at very low temperature
 Though I am radioactive like Uranium
 But I used to vapourise like Camphor easily
 Though I support life like Oxygen
 But I neither burn nor support
 Burning like Carbon dioxide
 Though my appearance is like Coal.
 But I have luster like Gold.
 My company is like Catalyst
 Whose presence speeds?
 Up the rate of reaction
 Actually I am precious and costly like Platinum.
 So very rare person only can have me
 Truly I am Diamond
 As my heart and soul are in their purest form
 This is me this is who I am like it or leave it.

- Kanchan Kohale
 - B. Pharm Final Year

सारा देश परेशान है (कोरोना काल 2020)

प्रकृति कहती है ... हे राम !!!! ये मनुष्य कितने नाकाम है
 न करते हमारी रक्षा, न देते हमें आराम है....
 बिना मौसम बरसात से किसानों का बुरा हाल है
 जिसे देखों उसका कोरोना से हाल बेहाल है
 न जाने ये लोग भी क्या क्या खाते है।
 और दुनिया में तरह तरह की बीमारियां फैलाते है
 ये मनुष्य कभी खांसता तो कभी छींकता है
 फिर अपनी जान बचाने यहाँ वहा भागता है
 ऐसी बीमारी फैला दी की अस्पताल भी कम पडे है
 प्रकृति कहे.. भुगतो रे भुगतो... यही तुम्हारी सजा है
 आखिरकार मनुष्यों को समझ आ ही गया,
 सावधान रहो, सावधान करो...
 पहले अपनी सुरक्षा करो फिर दुसरो की रक्षा करो
 है मनुष्य अब तो सुधर जाओ
 प्रकृति को और तंग न करो
 बडे सयाने कह गए...
 रक्षा करो, रक्षा करो, रक्षा करो,
 जीवन बहुत अनमोल है
 प्रकृति है तो जीवन है....

रिया राजीव वर्मा
 २०/४/२०२०

NSS Unit Report

The main objective of the National Service Scheme as envisaged originally was service to the community offered while undergoing instruction, in an educational institution. It was sought to arouse the social consciousness of students and provide them with the opportunity to work to with the people around the educational campuses creatively and constructively and to put the education they received to concrete social use. It has been felt that the primary aim of the scheme is to enable the students to upgrade their personality and experience through community service.

Rashtrasant Tukadogji Maharaj Nagpur University has appointed the National Service Scheme for Shree Sainath College of Pharmacy, Dawalamethi, Nagpur. Under the guidance of principal, Dr. Saleem Farooqui and NSS Incharge, Dr. Yogita Charde various activities were carried out such as:

International Yoga Day was celebrated on 21st June 2022 at College Auditorium. On this occasion along with all the teaching and not teaching staff students have performed yoga. Yoga teacher Mr. Manish Jha taught the different positions and asanas of yoga.

On 03rd August July 2022 Tree Plantation Programme has been successfully conducted under the banner of NSS at College premises. On this occasion all the teaching and non-teaching and students were present.

On 11th August July 2022 at 1:00 pm "Har Ghar Tiranga Abhiyan" Programme has been successfully conducted under the banner of NSS at College premises. On this occasion all the teaching and non-teaching and students were present.

On 6th June 2022 World Environment Day Programme has been successfully conducted under the banner of NSS at College premises. On this occasion all the teaching and non-teaching and students were present.

Shree Sainath College of Pharmacy, Nagpur celebrated World Pharmacist Day on Saturday, 24 th September 2022. The theme of the program was based on "Pharmacy United in Action for the Healthier World". The program was held for one day with four different competition. The registrations for seminar started at 10.00 am. All the participants have reached the venue with lot of enthusiasm for attending the seminar. Registration kits were provided at the time of registrations. Around 200 participants were participated in the seminar.

Shree Sainath college of Pharmacy, Dawalamethi, Nagpur has celebrated the Constitution Day (Sanvidhan Diwas) on November 26th November 2022 in remembrance of the Father of Indian Constitution, Dr. B. R. Ambedkar at the College premises under the banner of NSS.

Shree Sainath College of Pharmacy, Dawalamethi, Nagpur has celebrated the World AIDS Day by organizing the poster and speech competition at the college Seminar Hall on 1st December 2022. On this occasion Dr. Saleem Farooqui, Principal highlighted the importance of World Aids day. Dr. Lata Potey, IQAC & IIC Coordinator and Dr. Yogita Charde, NSS Coordinator conducted the program. Students, teaching and non-teaching staff worked hard to make the program successful.

ANNUAL REPORT 2022-2023

- Shree Sainath College of Pharmacy started the academic session 2022-2023 from 17 June 2022 with 214 old and new 53, total 332 students for B-pharm & 65 students in D- Pharm.
- World "Yoga Day" was celebrated on 21st June 2022.
- The students of SSCP organized the "Guru Purnima" on 13th July 2022 by giving the speech.
- Under the annual endeavour's taken up by our National Service Scheme cell of Shree Sainath College of Pharmacy, a "Tree plantation program" was conducted by the NSS unit of Shree Sainath College of Pharmacy on 3rd August 2022.
- Under the NSS "HAR GHAR TIRANGA" activity was carried out on 11th August to tribute mother Nation.
- In middle of the august on 15th august 2022 institute celebrates 75th Independence Day.
- The festival of Janmashtami with DAHI HANDI was celebrated by students on 19th August 2022.
- Shree Sainath college of Pharmacy arranged workshop on "How to scientific writing & publishing with career guidance" on 20th August 2022.
- In remembrance of Dr. Sarwapalli Radhakrishnan and to show affection, respect and gratitude towards teachers, student council of college took initiation and organized the teacher's day programme and celebrated it on 5th of September 2022.
- Under the NSS activity Blood Donation Camp was conducted at Shree Sainath college of Pharmacy on 24th September 2022. Before the blood collection donors were examined for blood transmitted diseases. Around 50 staff and students donated the blood selflessly.
- Poster, slogan competition & Pharmacist rally was conducted on the occasion of world "PHARMACIST DAY" on 25th September 2022.
- The students of SSCP organized the "Raas Garba" on 1st October 2022 to tribute the goddess, Durga. The mother of nature.
- Father of nation Mahatma Gandhi's birth anniversary was celebrated on 2nd October 2022 at SSCP with Lectures Seminars and cleanliness campaign.
- In the middle of October, the SSCP staff and students visit Incubation Centre on 11th October 2022.
- Shree Sainath college of Pharmacy celebrated "INNOVATION DAY & WORLD STUDENT DAY" under the IQAC department on 15th October 2022.
- Workshop was arranged on Analytical Instrument on UV visible, HPLC & GC organised by Reliable Shree Industrial Training centre, Jalgaon on 18th October 2022.
- To relive from anxiety, depression and to boost the mental health SSCP organised 'Sahajyoga Programme" on 19th October 2022.

- Shree Sainath college of pharmacy organized one day guest lecture on topic “Awareness in Clinical Research and Management” on 5th November 2022.
- Shree Sainath College of Pharmacy has celebrated the National Pharma Week by organizing the Quiz Competition, Elocution Competition & Debate Competition on 25th November 2022.
- ShreeSainath college of Pharmacy, Dawalamethi, Nagpur has celebrated the Constitution Day (SanvidhanDiwas) on November 26th November 2022 in remembrance of the Father of Indian Constitution, Dr. B. R. Ambedkar at the College premises under the banner of NSS.
- Shree Sainath College of Pharmacy, Dawalamethi, Nagpur has celebrated the WORLD AIDS DAY by organizing the poster and speech competition at the college Seminar Hall on 1 st December 2022.
- Shree Sainath College of Pharmacy, Dawalamethi, Nagpur was organized the National Pollution Control Day in which college has conducted the Drawing competition under the banner of IIC at Seminar Hall on 2nd December 2022.
- Shree Sainath College of Pharmacy, Dawalamethi, Nagpur has celebrated the “National Energy Conservation Day” by organizing an Essay competition at the college Seminar Hall on 14th December 2022.
- Shree Sainath College of Pharmacy, Dawalamethi, Nagpur organized the Induction Program for D. Pharm I year student on 2nd January 2023.
- VISHWA HINDI DIWAS was celebrated on 10th January 2023.
- Shree Sainath College of Pharmacy, Dawalamethi, Nagpur has celebrated the National Youth Day by organizing various competitions like Drawing, Speech and Thought writing competition on 12th January 2022.
- The festival of Makar Sankranti with Kite flying was celebrated by students on 15th January 2023.
- Shree Sainath College of Pharmacy, Dawalamethi, Nagpur organized the Induction Program for B. Pharm I year student on 25nd January 2023.

By Dr. Saleemuddin Farooqui

Principal

Shree Sainath College of Pharmacy,
Dawalamethi, Nagpur.



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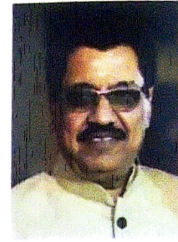
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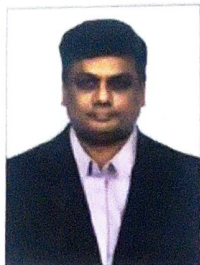
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