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ANNASAHEB DANGE  
COLLEGE OF  
B. PHARMACY, ASHTA



# **ADCBP E-NEWSLETTER**

## **2022-23**

**Volume – 6**

**Issue - I**

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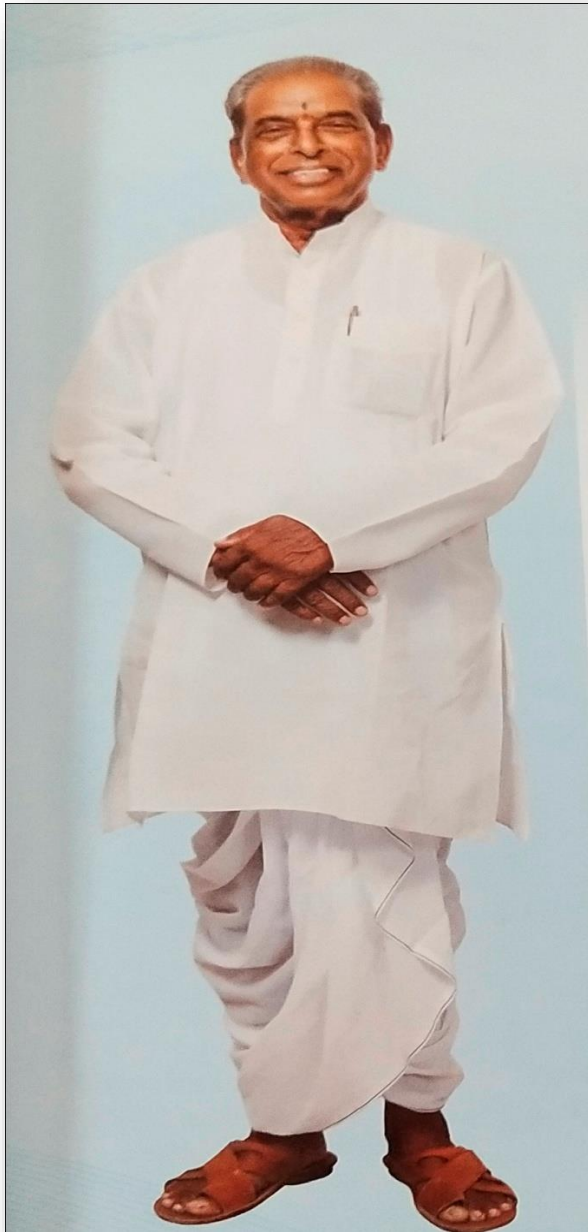
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## ***Our Inspiration***

### **84 Years of Social Excellence**



- *Former Minister for Rural Development, Water supply, Social Welfare, Maharashtra State.*
- *Founder of 41 educational institutes with best track record.*
- *Best Parliamentarian award for best speech on the floor of the house.*
- *Author of Various inspiring books.*

**Sant Dnyaneshwar Shikshan Sansthas**  
**ANNASAHEB DANGE COLLEGE OF B.PHARMACY,ASHTA**

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**VISION**

“To create competent pharmacy professionals who can efficiently contribute for the healthcaresystem of society and to the pharmacy profession.”

**MISSION**

- 1) To provide student centric active innovative learning environmen with strategically plannedquality pharmacy education consistent with the policies of state and nation.*
- 2) To nurture and inculcate the team spirit,research,innovation, Creativity andentrepreneurship.*
- 3) To strengthen Industry - Institute and Institute – institute interaction for the overall development of students.*
- 4) To help the students to disseminate acquired knowledge through the fullest commitment forhealth care services.*

## EDITORIAL MESSAGE



**Prof. Dr. Mahesh. G. Saralaya**  
**Professor and Principal,**  
**Annasaheb Dange College of B. Pharmacy, Ashta**

It gives me an immense pleasure to present before you **ADCBP E- Newsletter, Volume -6, Issues-I, 2022-2023**, proudly with its unique creation in the form of the Bi-Annual news which serves as a platform to highlight the literary and artistic segment of the ADCBP- family.

It was quite inspiring to watch and witness the potential of our students/staff unfolding at various stages and situations each day. ADCBP Newsletter carries the contributions reflecting ethos and aspirations of the students, faculty and other team members of the institution. ADCBP Newsletter brings to light the names of the unsung heroes and their mighty deeds. I am happy that there is a dedicated team of staff and students who have presented the astonishing achievements of ADCB Pians in the fields of academics, research, sports and extra-curricular activities.

The management and the staff have been supportive of the various activities that were undertaken by the students in view of helping them reach the pinnacle of perfection and professionalism in whatever task they took on thus strengthens our journey of achieving excellence. There is nothing... absolutely nothing that stops the ADCBP juggernaut from rolling forward, going on boldly from one project to another leaving the spectators spell-bound. Everything that ADCBP touches turns into gold.

The ADCBP Newsletter is presenting a glimpse of the growth of the institution on many fronts. The college has been simply unstoppable in its progress as it has been actively involved in various activities that have brought to light the hidden talents of the college students and staff. The highly qualified and dedicated members of staff have always stood shoulder with the Principal and it is always a pleasure to be a part of a team which strives to bring out the talents of students.

Congratulations to Ms. Shailaja Desai (Dept. of Pharmaceutical Chemistry) and Mr. Swapnil Patil (Dept. of Pharmaceutical Chemistry), Co-editor/ Co-ordinator of ADCBP Newsletter and my team for their determined efforts in bringing out this Newsletter.

## CO-EDITOR'S MESSAGE

**Ms. Shailaja Desai**  
**Assistant Professor**  
**Department of Pharmaceutical Chemistry**









Dear ADCBP Students and Readers; Welcome to **E-Newsletter, Volume-6, Issues-I, 2022-23**. It is with great pleasure that I am here to welcome you to **ADCBP E-newsletter Volume-6, Issues-I, 2022-2023**. It gives me immense pleasure in bringing out the E- newsletter. The **e-newsletter** has includes academic excellence, students achievements, scientific articles, extra-curricular activities and events organized by the institute.

I would like to express our sincere thanks to Respected Principal Sir, **Prof. Dr. Mahesh G. Saralaya** for giving us an opportunity and reliable guidance to Co- ordinate this e-newsletter. I also thank our colleagues, students and staff for their co- operation, support and encouragement during compilation of this e-newsletter.

Once again, I would like to thank all of those individuals who are, or have been, associated with the E-newsletter and we look forward to many more of publishing the E-newsletters in the future. Suggestions and Criticism for further improvement will be welcome.

I hope you all enjoy reading it as much as we do.

## STUDENT COORDINATORS:

<b>STUDENT EDITOR</b> : Ms. Mali Bhagyashree R		
SEMESTER	NAME	Photo
Sem III	Mr.Herwade Harshal A.	
Sem III	Ms.Kalyani Sakshi Y.	
Sem VII	Mr.Chaus Rehan	
Sem VII	Ms.Jadhav Pallavi	
Sem V	Ms. Arpita Jamdade	

## ACADEMIC EXCELLENCE

### **Result Analysis      Academic Year 2022 - 23 (Term I)**

Class: Final Year B. Pharm. Sem VII			
Rank Number	Name of Student	Total marks	CGPA
1	Mohite Shreya Sharad	514	9.41
2	Momin Saniya Javed	476	9.14
3	Kadam Chaitali Vijay	454	9.04
4	Chaus Rehan Hasim	449	8.99
5	Gaikwad Shubham Adhikrao	454	8.95
Overall Result Analysis			
Sr. No.	Particular		No. of Students
1	First Class with Distinction (CGPA ≥ 7.5)		109
2	First Class (CGPA 6.0 – 7.49)		4
3	Second Class (CGPA 5.0 – 5.99)		0
4	Fail ATKT		7
5	Total No. of Students		120
6	% of Passing		94.17 %
Subject wise Result Analysis (Sem VII)			
Sr. No.	Name of staff	Subject	% Result
1	Mr. H. P. Khade	Instrumental Methods of Analysis	96.67 %
2	Mr. K. M. Thorawade	Industrial Pharmacy II	94.17 %
3	Ms. S. S. Kharat	Pharmacy Practice	100 %
4	Mr. R. D. Patil	Novel Drug Delivery System	98.33 %



**Class: Third Year B. Pharm. Sem V**

<b>Rank Number</b>	<b>Name of Student</b>	<b>Total marks</b>	<b>CGPA</b>
<b>1</b>	Jamadade Arpita Rajaram	529	9.33
<b>2</b>	Jagtap Aditi Shivaji	507	9.31
<b>3</b>	JamadadeDhanashri S	532	9.30
<b>4</b>	Mohite Aarti Tanaji	506	9.29
<b>5</b>	Jagtap Manisha Deepak	512	9.21

**Overall Result Analysis**

<b>Sr. No.</b>	<b>Particular</b>	<b>No. of Students</b>
<b>1</b>	First Class with Distinction (CGPA $\geq$ 7.5)	109
<b>2</b>	First Class (CGPA 6.0 – 7.49)	1
<b>3</b>	Second Class (CGPA 5.0 – 5.99)	0
<b>4</b>	Fail ATKT	17
<b>5</b>	Total No. of Students	127
<b>6</b>	<b>% of Passing</b>	<b>86.61 %</b>

**Subject wise Result Analysis (Sem VI)**

<b>Sr. No.</b>	<b>Name of staff</b>	<b>Subject</b>	<b>% Result</b>
<b>1</b>	Mr. A. K. Mullani Mr. S. J. Patil	Medicinal Chemistry II	88.98 %
<b>2</b>	Dr. S. M. Karale	Pharmacology II	89.76 %
<b>3</b>	Mr. N. D. Patil	Pharmaceutical Jurisprudence	92.91 %
<b>4</b>	Mr. A. R. Mali	Industrial Pharmacy I	92.91 %
<b>5</b>	Dr. E. T. Tamboli	Pharmacognosy II	88.98 %



Class: Third Year B. Pharm. Sem III			
Rank Number	Name of Student	Total marks	CGPA
1	Sawant Nikita Dhanaji	487	8.98
2	Gouraje Omkar Rajendra	454	8.96
3	Mohite Sakshi Dilip	491	8.95
4	Pathan JainabAbdalmujib	457	8.91
5	Shinde Kiran Sampat	496	8.90
Overall Result Analysis			
Sr. No.	Particular		No. of Students
1	First Class with Distinction (CGPA ≥ 7.5)		98
2	First Class (CGPA 6.0 – 7.49)		11
3	Second Class (CGPA 5.0 – 5.99)		1
4	Fail ATKT		17
5	Total No. of Students		127
6	% of Passing		86.61 %
Subject wise Result Analysis (Sem VI)			
Sr. No.	Name of staff	Subject	% Result
1	Mr. G. D. Mote Ms. N. M. Jagtap	Pharmaceutical Organic Chemistry - II	96.06 %
2	Mr. S. M. Honmane	Physical Pharmaceutics - I	88.18 %
3	Ms. P. R. Shelake Ms. S. Ravala	Pharmaceutical Microbiology	88.18 %
4	Mr. S. N. Pattekari Mr. S. S. Patil	Pharmaceutical Engineering	92.12 %

# FEATHERS ON THE CROWN

## Research Publications:

Sr. No.	Author	Title	Journal	Volume: Issue : Page No	Impact Factor	Year
<b>2022-23</b>						
1	G.D. Mote., Mullani A.K., A.J. Shinde. V.B. Bhor., S.S. Kharat., G.V. Sutar., S.J. Sajane., N.D. Patil., R.D. Mali., S.M. Honmane., M.G. Saralaya., P.I Nargatti	Method development and validation on RP- HPLC for assay of bulk and formulation of carmustine	NeuroQuantology	20(11) 5552-5562	1.3	September 2022
2	A.S. Patil. S.P.Desai., A.K. Mullani., M.G. Saralaya.	Microwave Assisted synthesis of heterocyclic compound and its anticancer activity	Journal of Pharmaceutical Negative Results	13(4) 1092-1099	1.5	September 2022
3	A.K. Mullani., A.J.Shinde., G.D. Mote., M.G. Saralaya., S.J. Sajane., G.V. Sutar., P.I. Nargatti., N.M. Jangade	"Impurity Profile Study of Aspirin in Bulk and Tablet Dosage Forms"	Journal of Pharmaceutical Negative Results	13(6) 2457-2466	1.5	October 2022
4	Swapnil S. Patil*1 , Rohan D. Patil2 , Prakash V. Chavan3, Suraj N. Pattekari4 , Nisha M. Jagtap	Neurogenomics as a New Upcoming Era in Neurological Disorder	GRADIVA REVIEW JOURNAL	8(8)	0.5	November 2022
5	Aishwarya C. Patil1*, Ashwini S. Patil2, Shailaja P. Desai3 , Tushar M. Phalke4 , Mahesh G Saralaya5	Niosomes: A Future Of Targeted Drug Delivery Systems As Promising Nanocarrier Through Blood-Brain Barrier For	Journal of Pharmaceutical Negative Results	20(17):1547- 1554	1.5	November 2022

		Natural Drug Delivery				
6	Yasmin H. Momin	MOLECULAR DOCKING STUDY OF COMPOUND ISOLATED FROM COCCINIA GRANDIS (L.) VOIGT	Indian Drugs	59(11)15-20	1.5	November 2022

### CONFERENCES/SEMINARS/WORKSHOP ATTENDED BY FACULTY:

Sr. No.	Name of Faculty	Faculty development Programmes (FDP), professional development /administrative training programs	Date
1	Prof. (Dr.) Saralaya M. G.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
2	Mr. Sajane S. J.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
3	Dr. Tamboli E. T.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
4	Dr. Karale Sanjiv	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
		NEP 2020: A higher education game changer	16/09/2022 to 17/09/2022
		Recent Trends in community pharmacy and patient counselling	09/11/2022
5	Ms. Kharat S. S.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
6	Ms. Jagtap N.M.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
7	Mr. Patil N. D.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
8	Mr. Thorawade K.M.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022

9	Dr. Momin Y. H.	Metal mediated synthesis -1	Jul-Aug 2022
		"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
		Sharing research data: what you want to consider	24/11/2022
10	Ms. Desai S. P	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
11	Mr. Mote G.D.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
12.	Mr. Mali A. R.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
13.	Mr. Honmane S. M.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
14.	Ms. Shelake P. R	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
15.	Mr. Mullani A. K.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
16.	Mr. Patil S. S.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
17.	Mr. Patil R. D.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
18.	Ms. Patil A. S.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
		Computer Aided Drug Design (CADD - 2023)	23-01-2023 to 29-01-2023
19	Mr. Surve A. B	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
		Inculcating Universal Human Values in Technical Education	06/02/2023 to 08/02/2023
20	Mr. Chavan P. C	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
21	Ms. Bhaiji A. M.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
22	Mr. Patil S. J	Teaching learning processes in higher educational institutions	06/09/2022 to 14/09/2022

		"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
		NEP 2020: A higher education game changer	16/09/2022 to 17/09/2022
23	Mr. Mali R. D.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
24	Mr. Pattekari S.N.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022
25	Mr. Sutar G. V.	"Faculty Development Programme: Hands-on Training on Sophisticated Instruments: Industry Perspective"	01/09/2022 to 03/09/2022

### CONFERENCES/SEMINARS/WORKSHOP ATTENDED BY STUDENT:

Sr. No.	Name of the student	Event	Date	Title	Organized by
1	Ms. Mohite Shreya S	Poster Presentation	29-09-2022	State Level Poster Presentation Competition	Appasaheb Birnale College of Pharmacy, Sangli & Annasaheb Dange College of Pharmacy, Ashta
2	Ms. Momin Saniya J.	Poster Presentation	29-09-2022	State Level Poster Presentation Competition	Appasaheb Birnale College of Pharmacy, Sangli & Annasaheb Dange College of Pharmacy, Ashta
3	Ms. Nangare Shruti R.	Poster Presentation	29-09-2022	State Level Poster Presentation Competition	Appasaheb Birnale College of Pharmacy, Sangli & Annasaheb Dange College of Pharmacy, Ashta
4	Ms. Sawant Rutuja B.	Poster Presentation	29-09-2022	State Level Poster Presentation Competition	Appasaheb Birnale College of Pharmacy, Sangli & Annasaheb Dange College of Pharmacy, Ashta

## Guest Lectures Organized:

✚ Innovation startup and IPR cell of Annasaheb Dange College of B. Pharmacy Ashta has successfully conducted Expert session on **“How to become successful Entrepreneur”** by Mr. Digvijay Patil (Bharati Yuva Trust Sangli Stage -I officer) at Seminar Hall of ADCP, Ashta. Speaker addressed some points in lecture like – key to success, how to build road of entrepreneurship, funding agencies and documents required.



✚ Our ADCBP, Ashta Dist Sangli has been organized Guest lecture on **“Overview on Clinical Data Acquisition”** under the aegies of TPO and Alumni Association on **Saturday, 17<sup>th</sup> December 2022 at 02.00 pm** in seminar hall ADCBP, Ashta. The workshop was inaugurated at the auspicious hands of **Mr. Nimish S. Khandekar, Clinical Data Specilist, and TCS Mumbai** as resource speaker. The inauguration function was graced by the presence **Dr.M.G.Saralaya** Principal ADCBP, Ashta, **Dr.E.T.Tamboli**, Vice Principal Academics and **Mr. S.J. Sajane**, Vice Principal, (Admin).





## Teachers Day Celebration:

Students of Annasaheb Dange College of B. Pharmacy Ashta have successfully celebrated **Teachers Day** on **5<sup>th</sup> September 2022**. Students have actively participated and taken a charge of all the theory classes and practical classes. Also, students have felicitated teaching and non-teaching staff and also organized some funny games for the teaching and Non-Teaching faculties.





## Various Competitions Organized by College:

✚ Annasaheb Dange College of B. Pharmacy Ashta Organized **Rangoli Competition** under gender sensitization cell on 7<sup>th</sup> September 2022. The theme of this competition was Women Empowerment. Students were participated in this competition and E-certificates were distributed to Winners and Runners.



✚ Annasaheb Dange College of B. Pharmacy Ashta Organized **Pooja Thali Decoration Competition** for celebrating Navaratri Festival on 28<sup>th</sup> September 2022. Students were participated in this competition and E- certificates were distributed to Winners and Runners.



✚ Annasaheb Dange College of B. Pharmacy Ashta Organized **Drawing Competition** under Equal Opportunity Cell on 10<sup>th</sup> October 2022. Students were participated in this competition and E- certificates were distributed to Winners and Runners.



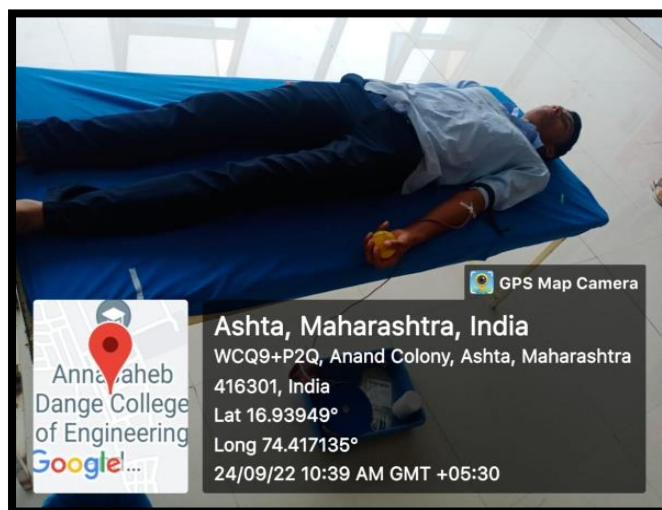
✚ Annasaheb Dange College of B. Pharmacy Ashta Organized **Digital Poster Making Competition** (Online Platform) under Equal Opportunity Cell on 03<sup>rd</sup> October 2022. Students were participated in this competition and E- certificates were distributed to Winners and Runners.

✚ Annasaheb Dange College of B. Pharmacy Ashta Organized **Photography Competition** (Online Platform) under gender sensitization cell on 03<sup>rd</sup> October 2022. Students were participated in this competition and E- certificates were distributed to Winners and Runners.

## Pharmacist Day Celebration:

A Blood Donation Camp was organized on 24th September 2022 by Sant Dnyaneshwar Shikshan Sanstha's Annasaheb Dange College of B. Pharmacy, Ashta in association with Arian Blood Bank, Kolhapur on the auspicious occasion World Pharmacist Day. To mark this event, the inaugural function was conducted at Seminar Hall of Annasaheb Dange College of D. Pharmacy, Ashta.

The camp was inaugurated in the hands of Mr. S. A. Desai by cutting the ribbon. Principal Mr. S.A. Desai delivered welcome address and highlighted the purpose of organizing this Blood donation camp, also he expressed best wishes to all the students teaching staff, Non-teaching staff. Principal Mr. S.A. Desai Sir felicitated to Miss Asha Adate (Shaswat Blood Bank) and her team was felicitated by dignitaries on the dais.





## FACULTY DEVELOPMENT PROGRAM ORGANIZED BY COLLAGE:

### ✚ FDP - Hands-On Training On Sophisticated Instruments Industry Perspective:

Annasaheb Dange College of B. Pharmacy Ashta has been successfully organized FDP-Hands-On Training on Sophisticated Instruments Industry Perspective of one week for the upgradation the practical knowledge for lab technicians by giving them an training on various instruments by the expert faculty members of their respective subjects.



## Cultural Programme:

✚ Our Annasaheb Dange College of B. Pharmacy, Ashta has been celebrated **Ganesh Festival** with Lord Ganesh Aagaman on **31<sup>st</sup> August 2022**. Decoration was done with the help of student's involvement and the First Day pooja was successfully done with the presence of students. Each day was distributed to the class and all the arrangement and pooja was done by respective class students and faculties.



✚ Our Annasaheb Dange College of B. Pharmacy, Ashta has been celebrated **Navratri Festival** with Lord Durga Poojan on **26<sup>th</sup> September 2022**. Decoration was done with the help of student's involvement and the First Day pooja was successfully done with the presence of students. Each day was distributed to the class and all the arrangement and pooja was done by respective class students and faculties. Different competitions have been successfully organized for the students during this week. Pooja Thali Decoration competitions, drawing competitions and Digital poster making competitions under the aegis of EOC cell. Students were participated in this all competitions.





## Some Glimpse of Festival Celebration



## NSS Activity:

✚ Our Annasaheb Dange College B. Pharmacy Ashta has been successfully organized guest lecture on “**Road Safety and Traffic Awareness**” on Thursday, 15th October 2022. Mr. Mahesh Gaikwad (API) Sir explained details in traffic rule, their punishment. It's necessary to implement in social areas as well as aware of youth. They said no. of Punishment rules for breaking traffic rules in India with examples it's all important to make awareness in the youth.



✚ Our Annasaheb Dange College B. Pharmacy Ashta has been *celebrated* Azadi Ka Amrit Mahotsav Principal Prof. *Dr. M. G. Saralaya* sir guided audience on the occasion of “Azadi ka Amrit Mohtsav – Selfie point” he also talk on Azadi Ka Amrit Mahotsav is a series of events organized by the Government of India to commemorate the 75th Anniversary of India's Independence. The Mahotsav is being celebrated as a Jan-Utsav in the spirit of Jan-Bhagidari.

Mr. H. P. Khade sir has explained regarding Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of independence and the glorious history of its people, culture and achievements. Allteaching staff, non-teaching staff & students was present for the event.



✚ Swachata Abhiyan was organized on 10th August 2022 by Sant Dnyaneshwar Shikshan Sanstha's Annasaheb Dange College of B. Pharmacy, Ashta in association with Ashta Municipality Ashta on the auspicious occasion of Azadi Ka Amrit Mahotsav.

So taking consideration of Swachh Bharat Abhiyan our Annasaheb Dange College of Pharmacy, Ashta was take a put forward to clean the campus area as well as Ashta city on the guidance of Hon. Adv. Chiman Bhau Dange Secretary of the Sant Dnyaneshwar Shikshan Santha's & Prof. R. A. Kanai Sir Executive Director sant Dnyaneshwar Shikshan Santha's Islampur.

To mark this event, the inaugural function was conducted at Annasaheb Dange College of Pharmacy, Campus on 10th August 2022 at 08.00 am Mr. Zunjarrao Patil (Nagaradhyakasha Ashta Municipality) was the Chief Guest. Dr. (Prof.) M. G. Saralaya (Principal, ADCBP, Ashta), Mr. S. J. Sajane (Vice- Pricipal, ADCBP, Ashta), Mr. E. T. Tamboli (Vice- Pricipal, ADCBP, Ashta) also graced the occasion. Teaching and non-teaching staff, students and other peoples were present during the opening ceremony.



✚ Annasaheb Dange College of Pharmacy, Ashta celebrated World Asthma Day. At the start of the program Social and Extension activity Co-coordinator Mr. H. P. Khade, did welcome to all students & faculty members. On the behalf of our beloved Principal Dr. M.G. Saralaya Sir, Mr. S. S. Upadhey Sir given the brief welcome note regarding to the program. Mr. H. P. Khade introduced resource person Dr. Tushar Shelar.





# MICROWAVE ASSISTED SYNTHESIS OF HETEROCYCLIC COMPOUND AND ITS ANTICANCER ACTIVITY

<sup>1</sup>Ashwini S. Patil, <sup>2</sup>Shrinivas K. Mohite, <sup>3</sup>Ashish K. Mullani, <sup>4</sup>Mahesh G. Saralaya, <sup>5</sup>Shailaja P. Desai

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## Abstract

The chemistry of heterocyclic compounds has been an interesting field of study for a long time. The synthesis of novel Oxadiazole derivatives and investigation of their chemical and biological behavior have gained more importance in recent decades for biological, medical and agricultural reasons. Azole derivatives are the important class of the heterocyclic compounds. Derivatives of 1,3,4 oxadiazole 2,5 disubstituted position have been reported to possess considerable pharmacological activities. Synthesize oxadiazole with various substitution from starting material 1 hydroxy 2 -naphthoic acid. 1, 3,4 oxadiazole which were synthesized in laboratory as part of an ongoing program of discovering small molecules with multiple beneficial effects in metabolic syndrome. An effective synthesis of different novel 2, 5-disubstituted- 1,3,4 oxadiazole derivatives by nucleophilic addition elimination reaction, nucleophilic substitution reaction and cyclization reaction. 1-hydroxy- 2- naphthoic acid with concentrated sulphuric acid and ethanol resulted the formation of carboxylate, and again refluxing in ethanol and hydrazine hydrate resulted the formation of carbonylhydrazide intermediate. when treated with cyanogen bromide, 1,4 dioxane and sodium bicarbonate and ethanol the formation of compound 1,3,4 oxadiazole, derivatives were synthesized by using different aromatic aldehyde. Results demonstrated that microwave method is more eco-friendly than conventional method.

**Keywords:** 1,3,4-oxadiazole derivatives, antimicrobial activity, anticancer activity.

## INTRODUCTION

Heterocyclic compound are widely distributed in nature which are essential to life and industry also. Many heterocyclic compounds are biosynthesized by plants and animal. Oxadiazole is considered to be derived from furan by replacement of two methane groups by two pyridine type nitrogen. Heterocyclic compounds having five membered ring containing two carbon atom, one oxygen, two nitrogen and two double bond such as oxadiazole. 1,3,4 oxadiazole derivatives have played a vital role in the medicinal chemistry.[1] Heterocyclic compounds are organic compounds containing at least one carbon, and at least one element other than carbon, such as sulfur, oxygen, or nitrogen within a ring structure. A Large size of heterocyclic comprises of those fused with benzene rings like quinoline, benzothiophene, indol, and benzofuran respectively. fusion of two benzene rings gives rise to a third large family of compound, respectively the acridine, dibenzothiophene, carbazole and dibenzofuran. Many of the drugs currently available in the market contain several heterocycles, with nitrogen atom, as major backbone having potential pharmacological activity.[2]

### 1,3,4-Oxadiazole

Compounds containing the 1,3,4-oxadiazole has drawn interest due to the unique chemical structure and large variety of biological properties. Oxadiazoles have often been described as bioisosteres for amides and esters. Due to increased hydrolytic and metabolic stabilities of the oxadiazole ring, improved pharmacokinetic and in vivo performance are often observed. which makes this heterocycle an important structural moiety for the pharmaceutical industry. As a result of these characteristics, oxadiazoles have often been the target of many drug discovery programs as tyrosine kinase inhibition, histamine H3 antagonism, hypocholesterolemic agents, antiviral agents, muscarinic receptor antagonists, anti-inflammatory agents, antimicrobial, cytotoxic activities, antitumor, antineoplastic properties, tumor-selective.[3]



# Niosomes: A Future Of Targeted Drug Delivery Systems As Promising Nanocarrier Through Blood-Brain Barrier For Natural Drug Delivery

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## Abstract

In recent years, the treatment of infectious diseases and immunisation has undergone a revolutionary change. Not only were a large number of biological disease-specific species established, but emphasis was also put on the efficient delivery of these biological species. Niosomes are an evolving class of new structures of vesicles. Niosomes are vesicles that are self-assembled and consist mainly of synthetic surfactants and cholesterol. In niosome surfactant vesicles, various drugs are enlisted and attempted. Niosomes have proven to be a promising drug carrier and have the ability to decrease drug side effects and increase therapeutic efficacy in different ways.

**Keywords:** Niosomes, Drug carrier, Multilamellar vesicles, Drug targeting, Peptide Drugs.

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## INTRODUCTION

Paul Ehrlich, in 1909, initiated the era of development for targeted delivery when he envisaged a drug delivery mechanism that would target directly to diseased cell<sup>1</sup>. Niosomes and liposomes are equiactive in drug delivery potential and both increase drug efficacy as compared with that of free drug. Niosomes are preferred over liposomes because the former exhibit high chemical stability and economy. Niosomes or non-ionic surfactant vesicles are microscopic lamellar structures formed on admixture of non-ionic surfactant of the alkyl or dialkyl polyglycerol ether class and cholesterol with subsequent hydration in aqueous media. Niosomes are promising vehicle for drug delivery and being non-ionic, Niosomes are unilamellar or multilamellar vesicles formed from synthetic non-ionic surfactants. They are very similar to the liposomes. Niosomal drug delivery is

potentially applicable to many pharmacological agents for their action against various diseases. Niosomes have shown promise in the release studies and serve as a better option for drug delivery system. The drug is incorporated into niosomes for a better targeting of the drug at appropriate tissue destination<sup>2-3</sup>.

### ➤ Salient Features of Niosomes<sup>4</sup>

- ✓ Osmotically active and stable.
- ✓ Niosomes increases the stability of entrapped drug.
- ✓ They can be made to reach the site of action by oral, parenteral as well as topical routes.
- ✓ Surfactant used in niosomes does not require special conditions.
- ✓ Surfactants used in niosomes are biodegradable, biocompatible, and non-immunogenic.
- ✓ They improve the therapeutic

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## Play Ground:



## Transportation:



## Silent Features:

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- ❖ Hostel Facility for Boys and Girls
- ❖ Well qualified and experienced faculty
- ❖ Huge playground, Sport Complex, Beautiful and Healthy campus
- ❖ On campus ATM banking Facility
- ❖ Wi-Fi campus, CCTV surveillance
- ❖ Medical facility in Campus
- ❖ Amphitheater
- ❖ MSRTC bus service from Sangli, Islampur, Palus up to college Campus

