

adcbp

ANNASAHEB DANGE
COLLEGE OF
B. PHARMACY, ASHTA



ADCBP E-NEWSLETTER

2022-23

Volume – 6

Issue - II

Contact Us

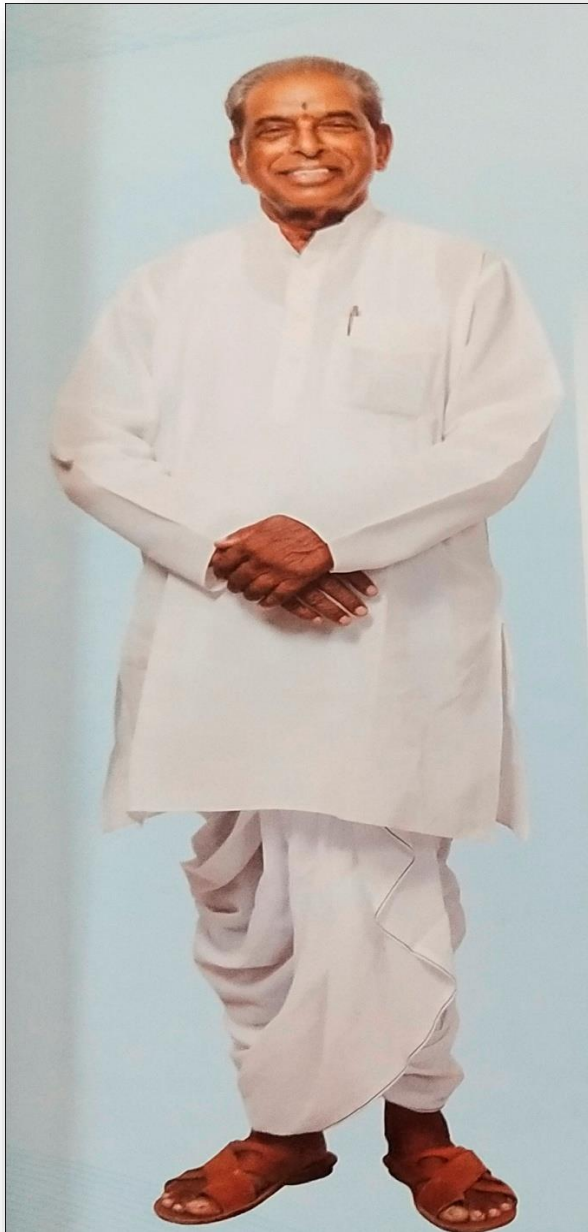
02342-241125

www.adcbp.in

info@adcbp.in

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

Tal-Walwa, Dist: Sangli. Ph -02342-241124 Web : www.adcbp.in Email: principaladcbp@gmail

EDITORIAL BOARD

Editor In Chief

Dr.M.G.Saralaya

Co-Ordinator

Ms. S. S. Khairmode

Editorial Committee

Mr. S.S.Patil

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 and entrepreneurship.*
- 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-II, 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. Shivani Khairmode (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. Shivani S. Khairmode
Assistant Professor
Department of Pharmaceutical Chemistry

Dear ADCBP Students and Readers; Welcome to **E-Newsletter, Volume-6, Issues-II, 2021**. It is with great pleasure that I am here to welcome you to **ADCBP E-newsletter Volume-6, Issues-II, 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.

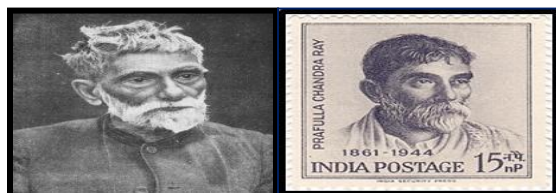
I would like to express our sincere thanks to Respected Principal Sir, **Prof. Dr. Mahesh G. Saralaya** for giving us an opportunity and reliable guidance to Co- ordinate this e-newsletter. I also thank our colleagues, students and staff for their co- operation, support and encouragement during compilation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

GESTURE TO PROFESSION

A TRIBUTE TO LATE ACHARYA PRAFULLA CHANDRA RAY



Profulla Chandra Ray was a chemist, educationist, historian, industrialist, philanthropist, and nationalist. He is known as “**Father of Indian Chemistry**”, He was a well-known Indian scientist and teacher and one of the **first “modern” Indian chemical researchers.**

Birth: 2 August 1861, Raruli-Katipara, Jessore District, Bengal Presidency, British India

Death: 16 June 1944, Calcutta, Bengal Presidency, British India.

❖ EDUCATION:

- *Hare School, Calcutta. 1871*
- *Albert School, Calcutta, 1876*
- *FA degree, Metropolitan Institution, Calcutta, 1878*
- *FA degree (chemistry) from Presidency College, Calcutta, 1878*
- *BA from University of Calcutta, 1881*
- *B.Sc. from University of Edinburgh, UK, 1885*

❖ **CONTRIBUTION & ACHIEVEMENTS:**

- *Joined as junior professor of Chemistry at the Presidency College, Calcutta in 1889.*
- *Discovered a new stable compound mercurous nitrite (1896)*
- *Synthesized Ammonium nitrite in pure form through double displacement ammonium between chloride and silver nitrite*
- **Established**
“Bengal Chemical and Pharmaceutical Works Ltd”, 1901, India’s first pharmaceutical company.

Research Publications

Sr. No.	Author	Title	Journal	Volume: Issue : Page No	Impact Factor	Year
2022-23						
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 Natural Drug Delivery	Journal of Pharmaceutical Negative Results	20(17):1547- 1554	1.5	November 2022

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
7	Sandip M. Honmane , Ravindra R. Dudhal , Namrata K. Kengar	Study of Formulation and Process Variables for Optimization of Piroxicam Nanosuspension Using 32 Factorial Design to Improve Solubility and In Vitro Bioavailability	Polymers MDPI	15, 483. 1-18	3.5	January 2023

Guest Lectures Organized:

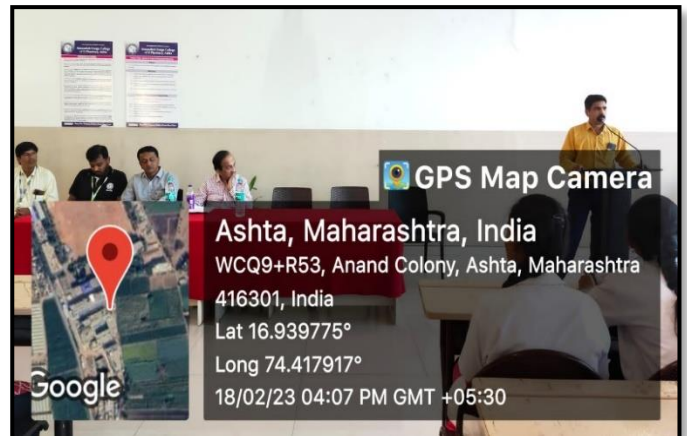
Annasaheb Dange College of B. Pharmacy, Ashta Tal: Walwa, Dist: Sangli organizing “**Training, Personality Development and Employability Skill Workshop**” in Collaboration with **Rubicon Skill Development Pvt. Ltd, Pune**, under the aegis of TPO, from 27th February 2023 to 1st March 2023. Trainer Mr. Mohsin Fakir and Mrs. Pradnya Durgai gives such informative training to our students.



Annasaheb Dange College of B. Pharmacy, Ashta Tal: Walwa, Dist: Sangli organized **"One Day Industry Awareness Workshop on Pharmaceuticals and Skill Development Program"** on 06th February 2023 for First Year Diploma students.



Annasaheb Dange College of B. Pharmacy, Ashta Tal: Walwa, Dist: Sangli organized guest lecture by **Dr. Vijay Benadikar sir** (MBBS, gynaecologist, Kolhapur) on the topic **"Preeclampsia and hypertension in pregnancy "** on 18th February 2023 for our girls students.



✚ Annasaheb Dange College of B. Pharmacy, Ashta Tal: Walwa, Dist: Sangli has organized **International Women's Day**. On 08th March 2023. The programme was inaugurated by **Prof. (Dr.) M. G. Saralaya Sir**. The programme was conducted by **SAPA** students. The guest lecturer was conducted by students on Sexual Harassment, gender equality, Role of internal complaints cell and mechanism. Further street play was performed by our students on Women empowerment.

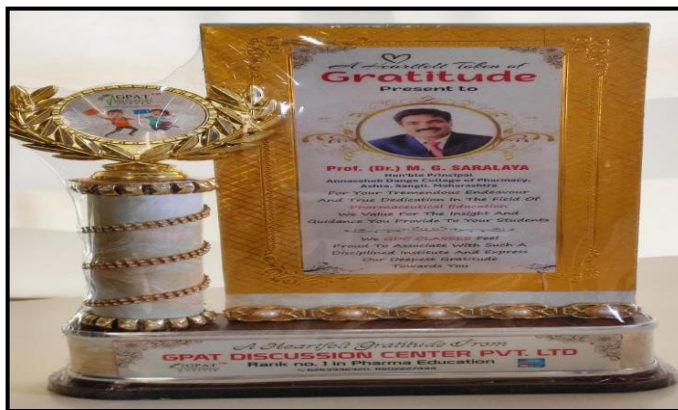


Feather of Crown:

✚ Sant Dnyaneshwar Shikshan Sanstha Founder President, Senior Leader Mentor **Hon. Annasaheb Dange (Appa)** from **Tilak Maharashtra University, Pune. D. Lit. was honored with the degree**. On this occasion, on behalf of Sant Dnyaneshwar Education Institute, Executive Director of the Institute **Prof. R. A Kanai Sir** was felicitated to Hon. Annasaheb Dange (Appa) the auspicious hand.



✚ Our respected Principal, **Prof. Dr. M. G. Saralaya Sir** has received token of gratitude from **GPAT Discussion Center Pvt. Ltd** for their contribution in the field of Pharmaceutical Education.



✚ Annasaheb Dange College of B Pharmacy Ashta, D. Pharm program (Est:2018) **NBA (National Board of Accreditation)** for three years up to 2026. The remarkable achievement reflects our unwavering commitment to academic excellence, research and holistic development of students. Our performance in the NBA Assessment is attestation to the tireless efforts of our visionary management leaders Hon'ble founder Chairman Dr. Annasaheb Dange, Hon'ble Secretary Adv. Rajendra R Dange and Hon'ble Executive Director Prof. R. A. Kanai sir, dedicated faculty, diligent students, stake holders and the supportive ecosystem that fosters growth and innovation.



Event Organized:

Annasaheb Dange College of Pharmacy, Ashta successfully Organized “**State Level Poster/Model Presentation Competition**” on 25th March 2023 for Diploma in Pharmacy Students. A sincere appreciation to all, who directly or indirectly contributed for the success of the program.



✚ On 13th May 2023, **Sneha Melava** of eminent personalities of Ashta was organised at Dr. Annasaheb Dange Educational Campus. 400+ people were present. All people have appreciated the remarkable progress done by the Sant Dnyaneshwar Shikshan Sanstha under the guidance of Hon. Dr. Annasaheb Dange (Appa), Hon. Adv. Chiman Bhau Dange and Hon. Prof. R. A. Kanai.



Paper Publications:

Annals of Phytomedicine 10(2): 327-334

Formulation, characterization and evaluation of in vitro antioxidant potential on melatonin and quercetin loaded liposomes

PUBLICATIONS

Veerendra C.Yeligar□, Manjiri A. Rajmane**, Yasmin H. Momin* and Rajendra C. Doijad*

Abstract

The aim of the work was to use the thin film hydration process under vacuum condition to synthesize liposome loaded with melatonin and quercetin, as well as to improve the bioavailability of melatonin and quercetin from liposome. Phosphatidyl choline, cholesterol ratio, pH of hydration medium, rotating speed, and volume of solvent system were investigated as parameters impacting the entrapment of melatonin and quercetin liposome for formulation optimization. The result revealed that the max of the melatonin and quercetin was at 276 and 372 nm, respectively. The size of optimized liposome formulation was 43.25 nm by FESEM having a zeta potential of -26.4 mV. Average particle sizes were found to be 1109 nm and PDI of 0.624. The drug entrapment efficiency was found to be 58.56% and 95.03% for melatonin and quercetin, in respectively. The percentage drug release respectively for melatonin and quercetin was 68.1% and 79.5% in 24 h, respectively. The IC₅₀ value of melatonin and quercetin for DPPH inhibition was found to be 9.315 μ g/ml and 6.261 μ g/ml, respectively and for synthesized liposome 5.64 μ g/ml. Finally, the results concluded that the prepared liposome could be used as controlled drug delivery system that provided the better bioavailability and antioxidant activity as compared with the standard ascorbic acid, quercetin and melatonin.

Keywords –

Antioxidant, Entrapment efficiency, Liposome, PDI, Zeta potential, FTIR

Evaluation of potential in vitro anticancer and antimicrobial activities of synthesized 5-mercapto-4-substituted 1, 2, 4 triazole derivatives.

Shailaja P. Desai, Yasmin H. Momin, Sneha T. Taralekar, Yuvraj D. Dange, Sneha R. Jagtap and Harshad P. Khade

Abstract

A series of 1, 2, 4-triazole derivatives (5a1-5a10) were synthesized and evaluated for its in vitro anticancer activity. In the present investigation, nicotinic acid refluxed with ethanol to form an ester which further refluxed with hydrazide in alcohol to form an intermediate product carbohydrazide. Finally, this intermediate was condensed and different types of azole derivatives were formed. The synthesized compounds were confirmed through spectral characterization using IR, NMR and MASS. Thereafter, in vitro anticancer activity was performed for synthesized compounds against MCF-7 (Human breast cancer cell line) by MTT assay method using standard 5-Fluorouracil. The labeled compound 5a1 was found to be the most active than others. Thereafter, compounds 5a2, and 5a5 showed appreciable anticancer activity against MCF-7 breast cancer cell line. Furthermore, antimicrobial activity with respect to antibacterial and antifungal activities were performed and showed significant antimicrobial properties with 5a1 and 5a2 when compared with standard ciprofloxacin and fluconazole, respectively. Finally, result concluded that azole derivatives showed potential anticancer and antimicrobial activity synthesized from carbohydrazide.

Keywords - 1, 2, 4-triazole, Anticancer activity, 5-Fluorouracil, MCF-7, MTT assay.

Cultural Programme:

✚ On, 19th February 2023, **Shiv Jayanti** was celebrated in **Annasaheb Dange College of Pharmacy, Ashta**. Pujan and Aarti were performed by Principal Prof. (Dr.) M. G. Saralaya Sir, Vice Principal (Admin) Prof. S. J. Sajane Sir, Vice Principal (Academics) Dr. E. T. Tamboli Sir, HOD Mr. S. S. Upadhye sir and all the teachers and students were present on the occasion. Prof. (Dr.) M. G. Saralaya Sir guided the children and some students gave speeches on the occasion of Shiv Jayanti.



✚ Annasaheb Dange College of B. Pharmacy, Ashta has celebrated **Traditional Day** on 16th March 2023. During this events student as well as staff has come in different Indian traditional theme.



✚ Annasaheb Dange College of B. Pharmacy, Ashta has organized Prize distribution ceremony, Alumni meet, and celebrated **Annual Culture Day Aspire 2K23** on 18th March 2023. During this Cultural day as chief guest Hon. Ms. Sapana S. Ghunkikar-Kupekar (Madam), Assistant Commissioner FDA, Sangli, Hon. Adv. Sampatrao Patil Vice – President SDSS Islampur, Hon. Adv. Rajendra R. Dange, Secretary SDSS, Islampur, Prof. R.A. Kanai, Executive Director SDSS, Islampur, Prof S.B. Hivrekar, Prof. S. S. Mohite, Prof. (Dr.) M. G. Saralaya, Prof. Sujit Desai, Prof. G.V. Sutar were present.

Glimps of Aspire 2k23



Sports: 2022-2023

- Annasaheb Dange College of B. Pharmacy, Ashta organized Sports week 2022-2023. All the students are participating in college sports. All the winners and runners are felicitate in the prize distribution ceremony.



NSS Activity:

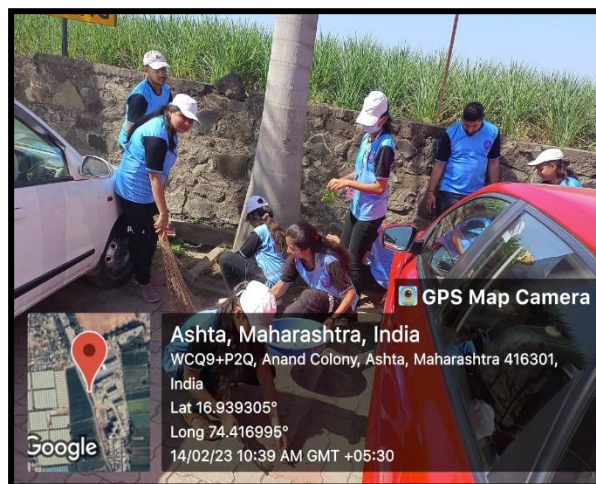
✚ Annasaheb Dange College of Pharmacy Ashta, **National Service Scheme**, organized **Blood Donation Camp, Cleanliness Program and Awareness rally** on the occasion of the Birthday of **Prof. R. A. Kanai Sir** (Executive Director Sant Dnyaneshwar Shikshan Sanstha's Islampur), in our Institute.



✚ During Blood Donation Camp **50+ students donate blood**. Also Clean our Institute as well as College Campus & perform street play with **Awareness Rally regarding Cleaning and Hygiene & Blood Donation** in Ashta.



✚ On this occasion **Hon. Annasaheb Dange (Appa)** addressed the teaching, non-teaching & student, secretary of Sanstha's Adv. R. R. Dange, Executive Director Prof. R. A. Kanai, Registrar Prof. S. B. Hivrekar, Principal Prof. (Dr) M. G. Saralaya, Vice Principal Prof. Sachin Sajane, Dr. E. T. Tamboli, Prof. Sujit Desai guided for conducting the all program.



Student Corner:

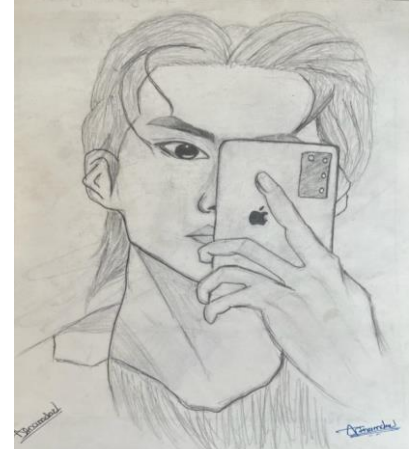
Drawing & Sketch



**Aditya Lavate
F. Y. B. Pharm**



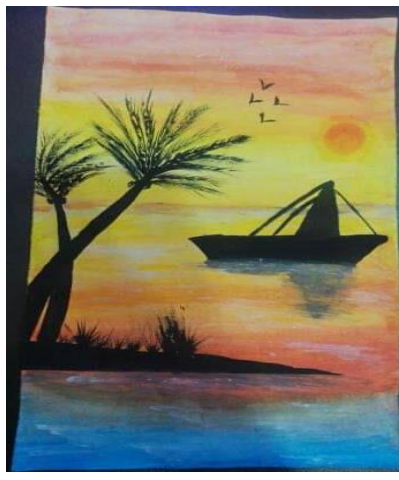
**Aditya Kadam
F. Y. B. Pharm**



**Arpita Jamdade
S. Y. B. Pharm**



**Shreya Patil
S. Y. B. Pharm**



**Vishwaja Aavlekar
F. Y. B. Pharm**



**Vaishnavi Jadhav
F. Y. B. Pharm**

Sport Complex:



Play Ground:



Transportation:



- ❖ College bus Service for students
- ❖ 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

