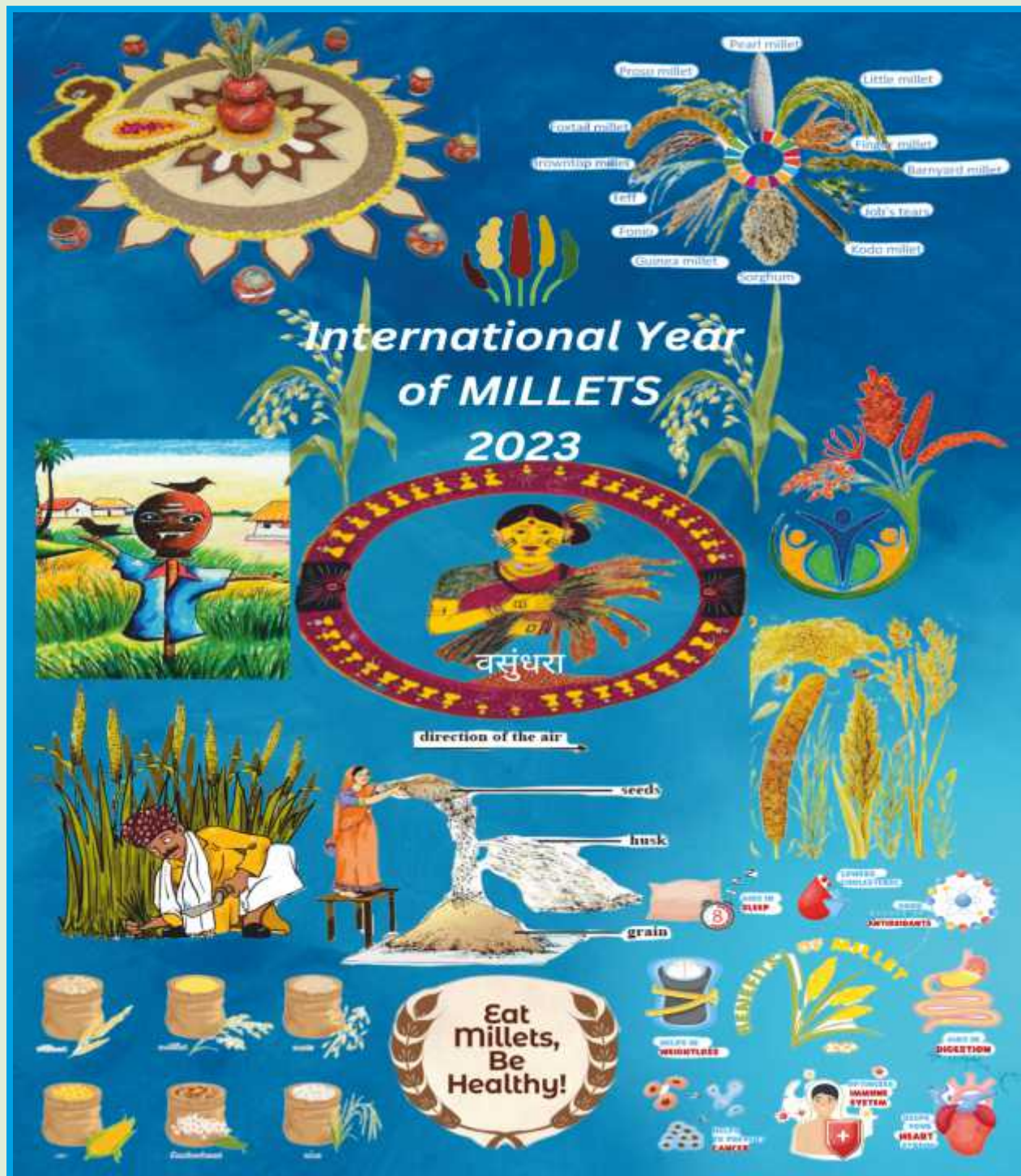




Vidya Prasarak Mandal's

## B. N. Bandodkar College of Science (Autonomous), Thane

NAAC Re-accredited 'A' Grade, College with Potential for Excellence (CPE),  
Best College Award, IS/ISO 21001:2018 Certified (BIS), BEQET Special Citation Award,  
Recipient of RBNQA Commendation Certificate from IMC,  
Recipient of Jagar Janivancha Awards of Govt. of Maharashtra,  
Supported Under - FIST 'O' Level (Min. of Sci. & Tech.) & DBT Star College Scheme.



# संयुजा

२०२२-२३



National Conference on 'Applied Mathematics & Statistics' organized by Department of Mathematics & Statistics



Visit of External Auditors for ISO Certification

IS/ISO 21001:2018 Certification by Bureau of Indian Standards (BIS)



Shiv Swarajya Din Celebration held on 6th June 2022 in presence of Shri Rajesh Narvekar (District Collector & Alumnus), ACP Shri Raju Patil (Alumnus), Smt Dnyanada Kadam (Administrative Officer, JD Office, Kokan), Smt Swati Indulkar (Historian & Short Film Maker) and Dr. Vijay Bedekar (Chairman of Vidya Prasarak Mandal, Thane), Members of VPM Thane, Staff & over 259 students



Swaranjali-Saudaryostav organized by Department of Biotechnology & Microbiology



Vidya Prasarak Mandal's

## **B. N. Bandodkar College of Science (Autonomous), Thane**

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Supported Under - FIST 'O' Level (Min. of Sci. & Tech.) & DBT Star College Scheme.

# **SANYUJA 2022-23**

## **COLLEGE MAGAZINE & WALLPAPER COMMITTEE**

**Dr. Moses Kolet**

(Principal and Chairperson)

**Dr. Urmila Kumavat**

(Co-ordinator, Magazine and Wallpaper Committee)

### **College Magazine and Wallpaper Committee**

#### **Staff Members**

Mrs. M.T. Wankhede	Mrs. U.K. Patne	Lt. B. S. Dhumale	Mr. A. D. Athawale
Mr. A. S. Paradhi	Mr. V. T. Dandage	Ms. V. S. Mane	Dr. (Mrs) J. M. Pawar
Dr. Ashwini Tilak	Ms. Sayali Daptardar	Mr. Tejas Jadhav	Ms. Saloni Sheth
Ms. Jui Pimple	Ms. Priyanka Chavan	Ms. Saba Pangarkar	Ms. Priyanka Gaikwad

#### **Student Volunteers**

Ms. Muktai Chavan (Secretary)	Mr. Aashvin Kumar Das (Joint Secretary)	Mr. Shreyas Phansekar
Mr. Sachin Isamantri	Ms. Alfiya Ghawte	Ms. Nandini Tyagi
Ms. Suparna Karmokar	Ms. Sarita Gupte	Mr. Smit Hawre

**Disclaimer:** Please note that the contents in the magazine are contributed by various authors and reflect their own opinions. The Management, College, Principal, Editorial committee, any of teaching or non-teaching staff from the college is not responsible for the same, in any case whatsoever.

Cover Page Collage Credit: Ms. Sarita Gupte, TYBSc Computer Science

## Principal's Desk

### Dear Staff and Students,

As we embark on a new academic year, it is important to reflect on the past and look forward to the future with hope and optimism. The past few years had been challenging for all of us, but it had also taught us valuable lessons about resilience, adaptability, and the importance of staying connected. It is highly essential to stay informed and engage with the world around us. With so much information available at our fingertips, it can be overwhelmingly confusing to determine its reliability. Hence it is mandatory to take out time to read, watch and listen to a variety of sources and perspectives and strive to be critical thinkers.



Our college magazine presents an excellent platform for such budding critical thinkers and writers to pen down their views on various topics. I applaud the 'Sanyuja team' for accomplishing the extensive task of compiling information and exposing latent talent of our staff and students in 'Sanyuja 2022-23'.

For the past 54 years, our college has been a leading institution providing top-notch instruction in a variety of scientific subjects. I am in awe of all those who have contributed efforts towards raising the college profile. The first portion of Sanyuja, titled "Recap 2022" is very well reflecting the success of the institution in the year 2022-23.

Under the academic autonomy, our institute is reframing and executing new policies for the holistic development of students. The institute has implemented revised S.Y.B.Sc. curricula, upgraded existing Certificate courses and added new courses in this year. All of these new curricula and value-added courses would unquestionably help students to develop the necessary job-hunting skills and encourage their entrepreneurial spirit. I urge all students to profit as much as they can from these cutting-edge fields.

***This year, college has also achieved novel benchmark of Quality Education Institute by receiving IS/ISO 21001:2018 Certification from BIS (Bureau of Indian Standards).***

At the end, I would like to express my gratitude towards Dr. Vijay Bedekar (Chairman of the Vidya Prasarak Mandal, Thane) and his staff for their unwavering encouragement and support of all college activities. I also thank the faculty, alumni, students, and parents for all of these outstanding accomplishments. I wish you all the best.

**Capt. Dr. Moses Kolet**  
Principal

# Editorial

**Dear Readers,**

It's an honour for me to play a leading role of an Editor in the publication of our college magazine - 'Sanyuja 2022-23' which serves as a mirror of our prime institute and showcases a wide range of artistic work contributed by faculty and students.

It's commendable that Sanyuja has continued the successful sections like 'Promising Career' and 'Kaleidoscope' from the previous year. Promising career meets the intellectual requirements of students who want to succeed academically and choose better job options.

Kaleidoscope is a collection of impassioned articles with a variety of subjects. It includes inspiring stories of role models, fitness mantra of students, travelogues, articles on technological perspective and ideas to convert hobby to business.

The "Chit-chat with BNB Alumni" segment is very fascinating because it included our proud alumnus sharing some of their inspiring success tales. Also, victorious students contribute to the "Winner of the Race" section to let readers know about their achievements in co-curricular activities at various intercollegiate events.

The magazine is not just limited to literary arts but also provides a platform for showcasing the drawing skills of students. It has a new cover-page based on the theme of 'The International Year of Millets' which gives informative insights about various types of millets.

I believe the overall information in this issue will definitely grab reader's attention and inspire gratitude towards all contributors.

My heartfelt congratulations to all the contributors and the editorial team for creating another successful issue of Sanyuja!



**Dr. Urmila Kumavat**  
Editor

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Sanyuja 2021-22 Publication by Hon. Dr. Vijay Bedekar, Chairman, Vidya Prasarak Mandal

## B.N. Bandodkar College of Science (Autonomous) Principal's Report for the Academic Year 2022-2023

I am happy to present the annual report for the academic year 2022-2023. I am very happy to state the college has made noteworthy progress during this year. The achievements signify bountiful spirit and resilience after the recent setback due to pandemic. This report is a continuation of achievements since the last issue of *Sanyuja* published.

**Special Awards, Certifications and Recognitions received during the year:** **Thirty nine** special Awards, Certifications and Recognitions were received by the college and its staff during this academic year. One of the most sought after certification, namely, IS/ISO 21001: 2018 was received by the college from Bureau of Indian standards (BIS). It is noteworthy to mention that our college is the second educational institute in the country to be awarded this certification since its launch. The major achievements are as mentioned below:

No.	Award/ Honour	Conferred upon	Conferring/ Inviting Agency
1	IS/ISO 21001: 2018 certification	College	Bureau of Indian Standards
2	Certificate of Merit for Overall Championship in Literary Section in 53 <sup>rd</sup> Inter-College Youth Festival	College	University of Mumbai
3	Certification for Environmental Audit	College	Dharitree Enviro Research Centre
4	Certification for Green Audit	College	Dharitree Enviro Research Centre
5	Certification for Fire and Safety Audit	College	GESA Pro, Recognized Certifying Body
6	Trophy for Ranking in Boxing at Zonal Level	College	University of Mumbai
7	Makerthon Trophy	College	MES, Pillai College of Engineering, Panvel
8	Best Cyber Suraksha Championship of the year	College	Quick Heal Foundation
9	Memento of Appreciation	College	Kai. Wamanrao Oka Rakta Pedhi
10	Utsav 75 Thane Memento of Appreciation	College	Thane Municipal Corporation
11	Memento of Appreciation	College	Hirali Foundation
12	Memento of Appreciation	College	Govt. of India, Nehru Yuva Kendra
13	Memento of Appreciation	College	Lok News Channel
14	Memento of Appreciation	College	Majhi Vasundhara Clean Environment Mission 3.0, Thane Municipal Corporation

## SANYUJA 2022-23

15	Certificate of Appreciation	College	University of Mumbai
16	Certificate of Appreciation	College	Thane Municipal Corporation
17	Certificate of Appreciation	College	CASI Global; Govt. of Maharashtra
18	Certificate of Appreciation	College	Seva Vivek, NGO
19	Certificate of Appreciation	College	Thane Citizens Foundation, Maharashtra Go Green Foundation
20	Certificate of Appreciation	College	Paryavaran Dakshata Mandal
21	Certificate	College	RTO, Thane
22	Certificate	College	Govt. of Maharashtra, Civil Hospital, Thane
23	Certificate of Appreciation	College	NAB, National Association for the Blind
24	Letter of Appreciation	College	Sobti Parents Association
25	Letter of Appreciation	College	Paryavaran Dakshata Mandal
26	Best College Principal Award	Dr. Moses Kolet	Global Eminence Award 2022
27	VPM Gunijan Shikshak Puraskar	Shri Abhijeet A. Kale	Vidya Prasarak Mandal, Thane
28	VPM Gunijan Shikshaketa Karmachari Puraskar	Shri Rakesh R. Bane	Vidya Prasarak Mandal, Thane
29	Independence Day Run	Ms. Darshana Chavan	Indian Running Day Run of 21.10 KM
30	Mangrove Cleanup Thane Creek Marathon	Shri Sunil Bhusara	Completed the 10 KM Marathon
31	Mangrove Cleanup Thane Creek Marathon	Ms. Darshana Chavan	Completed the 10 KM Marathon
32	Marathon on occasion of Gandhi Jayanti	Shri Sunil Bhusara	Completed the Marathon
33	Marathon on occasion of Gandhi Jayanti	Ms. Darshana Chavan	Completed the Marathon
34	Hiranandani Marathon Medal	Shri Sunil Bhusara	Hiranandani Foundation
35	Hiranandani Marathon Medal	Ms. Rupali Vazarkar	Hiranandani Foundation
36	Hiranandani Marathon Medal	Ms. Darshana Chavan	Hiranandani Foundation
37	Silver Medal in Inter College Sports Tournament (Carrom)	Mr. Vinod Thorat	Royal College, Mumbai
38	Memento of Appreciation	Mr. B.S. Dhumale	Nehru Yuva Kendra
39	Memento of Appreciation	Mr. A.S. Athavale	Nehru Yuva Kendra

**Patents published/ granted to members of staff: Four patents** were published/ granted/ filed as follows:

No.	Name	Patent details
1	Prof (Dr.) Vinda Manjramkar	Hydrolase enzyme complex for treatment of waste water. German Patent (Joint)
2	Prof (Dr.) Vinda Manjramkar	AI based approach for predicting the impact of antioxidants in delaying cell damage in cancer patients. Indian Patent (Joint)
3	Prof (Dr.) Vinda Manjramkar	Deep learning based analysis to identify the impact of various social media platforms on academic performance of students. Indian Patent (Joint)
4	Prof (Dr.) Vinda Manjramkar	Evaluation of cellular properties for non-small cell lung cancer treatment based on advanced nanoparticle drug delivery systems. Indian Patent (Joint)

**Special Academic and Co-curricular Achievements by Members of Staff:**

**Two members of our staff achieved educational landmarks as mentioned below:**

No.	Name	Department	Achievement
1	Mr. Ramchandra L. Shinde	Administrative Office	MBA in Finance with 'A' Grade from YCMOU
2	Ms. Devyani Ladhe	Gymkhana	Ph.D. in Physical Education from Dr. BAMU

**Special Invitations received by Staff and Students:**

No	Name	Invited by	Invitation as/ for
1	Principal; Cultural Committee	University of Mumbai	Felicitation for hosting District Level Rounds of Youth Festival
2	Prin. Dr. Moses Kolet	Thakur College of Commerce and Science	Academic Audit
3	Prin. Dr. Moses Kolet	DSW, University of Mumbai and Wilson College	Entrepreneurship in Science
4	Prin. Dr. Moses Kolet	HRDC, University of Mumbai; R.D. National College	Resource Person for UGC FIP
5	Prin. Dr. Moses Kolet	Jan Kalyan Samiti	Felicitation
6	Prin. Dr. Moses Kolet	Shreerang Vidyalaya	Guest for Inter School/Jr. College Environment Exhibition
7	Prin. Dr. Moses Kolet	S.H. Mutha College	Member of National Conference Advisory Committee
8	Prof (Dr.) Vinda Manjramkar	Thakur College of Commerce and Science	Academic Audit
9	Prof (Dr.) Anita Goswami-Giri	Ramkrishna Paramhansa Mahavidyalaya, Osmanabad	Speaker for International Seminar on Innovation and Technology for Gender Equality

10	Lt. B.S. Dhumale	1 BN NCC, Mumbai	Conduct of Yoga Session in Battalion
11	Lt. B.S. Dhumale	1 BN NCC, Mumbai	Training of CTOs
12	Dr. Kiran Pariya	Joint Director, Higher Education	Coordinating Officer for Law Entrance Examination
13	Dr. Kalpita Mulye	DUB Senior Science College, Dapoli	Mentor Speaker for DES-INSPIRE Internship Camp
14	Ms. Priyanka Chavan	Maharashtra State Kho Kho Association	Referee at Maharashtra State Kho Kho Championship competition
15	College, DLLE	Lok News Channel	Participation in 64 Ka/aevents (Ganapati Idol Making; Rangoli)
16	Ms. Devyani Ladhe	University of Mumbai	Team Manager for Inter University Table Tennis Competitions
17	Ms. Priyanka Chavan	Maharashtra Kho-Kho Association	Appointment as Coach for Kho-Kho
18	Ms. Devyani Ladhe	University of Mumbai	Team Manager for All India Inter University Basket Ball tournament, Indore
19	Ms. Devyani Ladhe	University of Mumbai	Team Manager for Maharashtra State Ashwamedh Kreedha Mahotsav, Basket Ball tournament, Aurangabad
20	Mr. B.S. Dhumale	Nehru Yuva Kendra	Invitation as Panel Judge
21	Mr. A.S. Athavale	Nehru Yuva Kendra	Invitation as Panel Judge
22	Mr. Vinod Thorat	Nehru Yuva Kendra	Invitation as Panel Judge
23	Ms. Devyani Ladhe	Nehru Yuva Kendra	Invitation as Panel Judge
24	Ms. Anjali Maurya	Nehru Yuva Kendra	Invitation as Panel Judge
25	Ms. Neha Sase	Nehru Yuva Kendra	Invitation as Panel Judge

**Noteworthy Achievements by students : One Hundred and Twenty three** students exhibited extraordinary merit as depicted:

No.	Name	Department	Achievement
1	Mr. Rishabh Singh	IT	Won Fincorp Hackathon
2	Mr. Pranav Gohil	Physics	Attended and actively participated in ' <i>Bharatiya Chhatra Sansad</i> ' Youth Parliament at MIT, World Peace University, Pune
3	Mr. Nitesh Satpute	Physics	Cleared AFCAT (Indian Air Force)
4	Ms. Diksha Patil	IT	Felicitated at hands of Hon'ble Governor of Maharashtra for completion of Early Childhood Care Education Programme of Govt. of Maharashtra
5	Ms. Urja Kudalkar	Physics	Bronze Medal in International Astronomy and Astrophysics Convention 2022

## SANYUJA 2022-23

6	Mr. Pranav Gohil	Physics	Bronze Medal in International Astronomy and Astrophysics Convention 2022
7	Mr. Rohitsingh Rathod	Mathematics	Felicitatation by Jan Kalyan Samiti; Performance in CD activities; Selection as Divisional Warden (Civil Defence)
8	Ms. Ankita Bendre	IT	GOLD Medal at National Level in Kumite, in All India Karate Championship 2022, Bilaspur, Chhatisgarh
9	Mr. Chirayu Rane	Mathematics	BRONZE Medal at National Level in Kumite, in All India Karate Championship 2022, Bilaspur, Chhatisgarh
10	Mr. Aditya V. Bhat	SY MS	SILVER Medal at State Level in Weight Lifting. Maharashtra Power Lifting Association
11	Mr. Paramveer Singh	PG BWCM	BRONZE Medal in Boxing; Maharashtra State Boxing Federation State Level Matches, Akola
12	Ms. Shlesha Boke	FY CBZ	University of Mumbai District Youth Festival Second Prize in Classical Dance
13	Ms. Shlesha Boke	FY CBZ	University Youth Festival Final Round Consolation Prize in Classical Dance
14	Mr. Atharva Bagade	Physics	University of Mumbai Youth Festival Third Prize in Classical Instrumental
15	Mr. Rohit Mhatre	NSS	Second Prize in Intercollege Essay Competition
16	Mr. Shailesh Yadav	NCC	Selected for and attended All India Thal Sena Camp at New Delhi
17	Mr. Harsh Manera	CS	GOLD Medal in Rifle Shooting: University Sports Competitions (District)
18	Mr. Neelkamal Bandagar	CS	GOLD Medal in Pistol Shooting: University Sports Competitions (District)
19	Ms. Sakshi Tambe	Biotechnology	GOLD Medal in Wrestling: University Sports Competitions (District)
20	Mr. Pratik Darde	Zoology	SILVER Medal in Rifle Shooting: University Sports Competitions (District)
21	Mr. Kaustubh Shirke	CS	SILVER Medal in Judo: University Sports Competitions (District)
22	Ms. Amruta Thombare	SY MS	SILVER Medal in Wrestling: University Sports Competitions (District)
23	Ms. Neha Pawar	FY CBZ	SILVER Medal in Weight Lifting: University Sports Competitions (District)
24	Ms. Manasi Gadag	IT	BRONZE Medal in Rifle Shooting: University Sports Competitions (District)
25	Mr. Neelkamal Bandagar	CS	GOLD Medal in Pistol Shooting: University Sports Competitions (Zonal)

## SANYUJA 2022-23

26	Mr. Paraveer Singh	M.Sc. (I)	GOLD Medal in Boxing: University Sports Competitions (Zonal)
27	Ms. Sakshi Tambe	Biotechnology	SILVER Medal in Wrestling: University Sports Competitions (Zonal)
28	Mr. Neelkamal Bandagar (Team Event)	CS	SILVER Medal Pistol Shooting (Team) : University Sports Competitions (Zonal)
29	Mr. Pratik Darde (Team Event)	Zoology	SILVER Medal in Rifle Shooting (Team): University Sports Competitions (Zonal)
30	Mr. Shubham Yadav	SY PM	BRONZE Medal in Rifle Shooting: University Sports Competitions (Team)
31	Mr. Aditya Shinde	Chemistry	BRONZE Medal in Rifle Shooting: University Sports Competitions (Team)
32	Ms. Manasi Gadag (Team Event)	IT	BRONZE Medal in Rifle Shooting (Team): University Sports Competitions (Zonal)
33	Mr. Harshad Pawar	CS	BRONZE Medal in Boxing: University Sports Competitions (Zonal)
34	Mr. Raunak Mali	FY PCM	BRONZE Medal in Boxing: University Sports Competitions (Zonal)
35	Ms. Amruta Thombare	SY MS	BRONZE Medal in Wrestling: University Sports Competitions (Zonal)
36	Mr. Omkar Chavan	Statistics	BRONZE Medal in Volley Ball: University Sports Competitions (Zonal)
37	Mr. Aditya V. Bhat	SYBSC MS	SILVER Medal in Weight Lifting: University Sports Competitions (Zonal)
38	Mr. Arif Khan	CS	BRONZE Medal in Weight Lifting: University Sports Competitions (Zonal)
39	Mr. Paraveer Singh	M.Sc. (I)	BRONZE Medal in Boxing: University Sports Competitions (Inter Zonal)
40	Mr. Shreyas D. Mistry	FY PCM	BRONZE Medal in Cycling: University of Mumbai; BK Birla College
41	Mr. Harshit Divedi	Statistics	GOLD Medal in 200 M Running: University of Mumbai Athletics Meet
42	Ms. Shraddha Patil	FY PCM	BRONZE Medal in 100 M Running: University of Mumbai Athletics Meet
43	Mr. Neelkamal Bandgar	CS	Selected to represent University of Mumbai at All India Inter University Air Rifle and Air Pistol Shooting Championship 2022-23 at Meerut
44	Ms. Yashika Agawane	Biotechnology	Selected in University Inter-Zonal Women's Cricket Team
45	Shreyas D. Mistry	FY PCM	Selected for All India Inter University Cycling Road Championship

## SANYUJA 2022-23

46	Ms. Shreya P. Joshi	Jr. College	DSO Gold Medal in 400 M Running
47	Mr. Atharva D. Sable	Jr. College	DSO Silver Medal in 1500 M Running
48	Mr. Prasad A. Patil	Jr. College	DSO Silver Medal in Gymnastics
49	Ms. Devanshi A. Patil	Jr. College	DSO Silver Medal in Skating
50	Ms. Rishita S. Arenkeri	Jr. College	DSO Silver Medal in Kick Boxing
51	Ms. Shreya P. Joshi	Jr. College	DSO Bronze Medal in 200 M Running
52	Mr. Dipraj V. Kachare	Jr. College	DSO Bronze Medal in 800 M Running
53	12 Boys Kho-Kho Team	Jr. College	DSO Bronze Medal, Third Position
54	10 Girls Kho-Kho Team	Jr. College	DSO Bronze Medal, Third Position
55	Mr. Paramveer Singh	BWCM	Felicitatation for achievements in Boxing
56-59	Mr. Prathamesh Warghade; Mr. Kaustubh Patil; Ms. Yashika Thanekar; Mr. Siddhesh Bhondve	Jr. College	FIRST Prize Inter College Makerthon Competition of MES Pillai College of Engineering
60-87	28 students	2019-20, 2020-21, 2021-22	Felicitated on Foundation day of Vidya Prasarak Mandal, Thane for extraordinary performance
88-97	10 students	Biotechnology Microbiology Biochemistry	Qualified in Regional Rounds and Selected for Final National Round of Micro Olympiad
98-99	Ms. Sejal Ghadge Ms. Ashlesha Bhosale	Chemistry, IT	Felicitated by CRDE for successful completion of 6 months Entrepreneurship Development Programme EDP2022 from July 2022 to January 2023
100	Mr. Sahil Ghadigaonkar	IT	Participation in Republic Day Camp and Prime Minister's Rally, New Delhi, January 2023
101-104	Ms. Kinnari Londhe; Ms. Apurva Rathod, Ms. Sampada Kulkarni, Ms. Akanksha Singh	DLLE	Invited by Lok News Channel to participate in skill events
105	Ms. Kavita Gowda	Biotechnology	Awarded WEnyan Scholarship for Research Project
106	Ms. Janhavi Deshmukh	DLLE, Zoology	Second Prize in University of Mumbai Udaan Festival
107-118	12 students	DLLE	Consolation Prize in University of Mumbai Udaan Festival
119	Mr. Prasad A. Patil	Junior	7 <sup>th</sup> Rank in Artistic Gymnastics at Maharashtra State Level and selected for National Level
120	Ms. Pranoti Joshi	Biochemistry	5 <sup>th</sup> Rank in Micro podium at All India Level
121-122	Mr. Shubham Hazare; Mr. Anas Maniyar	Zoology	First Prize in Pravaah Inter college Science Exhibition of B.K. Birla College (Autonomous)
123	Mr. Raj Dhumale	CS	NCC Merit Scholarship

**Service to the Nation:**

Our NCC and NSS units collected **236 units of blood** and contributed their might in service to the nation during this academic year as follows:

No.	Activity	Agency	Date/s	Venue	Work accomplished / Blood units collected
1	Blood Donation (Kargil Vijay Divas)	NCC, NSS	26/7/2022	College	66 Blood Units collected
2	Blood Donation; joint activity with Dr. Bedekar Hospital & Kai. Wamanrao Oka Blood Bank	NCC, NSS	6/8/2022	College & Dr. Bedekar Hospital	95 Blood Units collected
3	Blood Donation	NCC, NSS	24/11/2022	College	75 Blood Units collected
<b>Total Nos. of units of blood collected</b>					<b>236 Blood Units</b>
4	COVID Vaccination Drive	Gymkhana, NCC, NSS	7/7/2022	College	Done in collaboration with TMC
5	Medical Camp	Lion's Club, Apollo Hospital, NCC, NSS	9/7/2022	College	Random Blood sugar Checks, eye Check-up, Bone Density checks done
6	Glass waste collection drive	NCC, Yoga	6/8/2022	College	111 KG glass waste sent for recycling
7	Plastic Waste Collection Drive	NCC, NSS	26/8/2022	College Campus	60 KG of plastic bottles handed over to recognized agency for recycling
8	Clean Campus Activity	NCC, NSS	Ongoing	College Campus	Mission accomplished and ongoing
9	'Puneet Sagar Abhiyaan' Beach Cleanliness Drive	NCC	12/8/2022	Mumbai	Plastic Wastes collected from sea shores and handed over for recycling
10	Har Ghar Tiranga Used National Flags Collection Drive	NCC	18/8/2022	College Campus	Used flags collected with dignity
11	Old Clothes Collection Drive	NCC, NSS	22-30/8/2022	College Campus	Clothes collected for distribution to needy
12	Mangroves Cleanliness Drive	Ev.S	28/8/2022	Mulund, Bhandup Area	Collaborative activity with Vana Shakti
13	Registration of New Voters	NCC, NSS	30/8/2022	College Campus	Collaborative activity with Election Dept., Govt. of Maharashtra

14	Linking Adhar & Voter Card	NCC, NSS	30/8/2022	College campus	Collaborative activity with Election Dept., Govt. of Maharashtra
15	Empowerment of Tribals: Promotion of Bamboo Rakhis made by Tribals	NSS, NCC	2/9/2022	College Campus	Rakhis worth over Rs. 9000/- sold by our students
16	Mission Clean up	Jr. College	10/9/2022	College	Class rooms, Laboratories cleaned
17	'Puneet Sagar Abhiyaan' Beach Cleanliness Drive	NCC	10/9/2022	Mumbai	Beach Clean-up Activity
18	International Mangrove Cleaning Day: Coastal Clean-up activity	NCC	17/9/2022	Mumbai	Coastal Clean-up activity
19	International Mangrove Cleaning Day: Clean-up in Mangrove areas	NCC, NSS	17/9/2022	Mahagiri, Thane	Waste and rubble cleaned from Mangrove Areas
20	Wetland Conservation Event	Ev.S., BWCM, Symantac	17/9/2022	College	Documentary Screening & Discussion on ' <i>Mi Dhamapur Talao Boltoy</i> ' along with Documentary Producer Team
21	Sensitization on Reintroduction of the Cheetah in India	BNHS-ENVIS	13/9/2022	College	Audience was sensitized to scheme for reintroduction of Cheetah in India
22	Cleaning of Statues of Leaders	NCC, NSS	14/12/2022	Thane City	Statues of Freedom Fighters and National leaders were cleaned
23	E-waste Collection Drive	NCC, NSS	7/12/22-26/1/2023	College	240 KG E-waste handed over to recognized agency for recycling
24	Plastic Waste Collection drive	NCC, NSS	10/12/22-26/1/2023	College Campus	80 KG of plastic bottles handed over to recognized agency for recycling
25	Collection of Funds for the Visually Challenged	Jr. College	27/3/2023	College	Over Rs. 36,250/- collected and handed over to NAB
26	Help to visually challenged	NCC	2022-23	Joshi-Bedekar College	Help as writers during examinations

**Memorandum of Understanding MoUs Signed:**

Our college has inked MoUs during this academic year for mutual benefit of students and staff with NGOs/ institutions/ foundations during this year as mentioned below:

1. Quick Heal Foundation, Pune
2. St. Xavier's College (Autonomous), Mumbai
3. KET's Vaze-Kelkar College (Autonomous), Mumbai

4. BNN College (Bhiwandi)
5. Paryavaran Dakshata Mandal
6. Lok Raj Sangathan (National Organization)
7. Reiki Divine and Spiritual Solutions

These MoUs along with previous collaborations viz,

8. TERI, Mumbai
9. VPM's Dr. V.N. Bedekar Institute of Management Studies
10. Maharashtra College, Mumbai
11. Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai
12. Naushad Ali Sarovar Samvardhini
13. E incarnation Recycling Pvt. Ltd.
14. Maharashtra State Angling Association
15. Budokan Institute of Martial Arts

Provide for multi-faceted academic, curricular, co-curricular and extra-curricular exposure to our students and staff. Similar MoUs with other institutions are under process.

**Some Other Highlights of the Year: Results:** The College conducted all examinations under autonomy and all results were declared within the prescribed time limits by the examination committee. Results of the Semester II, IV and VI and PG courses in the last academic year 2021-22 are as follows:

The overall percentage of success in the last year's under-graduate F.Y. and S.Y.B.Sc. examinations was **79.85%** and **89.65%** respectively. At the T.Y.B.Sc. examination conducted by the college under autonomy, the overall percentage of passing was **98.47%.100%** results were achieved by the Departments of Physics, Statistics, Biochemistry and Human Science. At the Post-Graduate M.Sc. (Part II) level the overall result was **96.42%. 100%** results were achieved by the Departments of Biodiversity Conservation and Wildlife Management, Environmental Science and Physics. I congratulate the students, teachers and support staff for the results achieved.

**Tabulated Results of the last Board and University Examinations conducted in First Half of 2022**

Class	Pass Percentage (%)
FYJC	99.58
SYJC	95.78
F.Y.B.Sc.	79.85
S.Y.B.Sc.	89.65
T.Y.B.Sc.	98.47
M.Sc. (Part I)	95.00
M.Sc. (Part II)	96.42

**Subject wise results at Graduation and Post-Graduation**

No.	Subject (B.Sc. Aided)	Pass Percentage	No.	Subject (B.Sc. Self Financing)	Pass Percentage	No.	Subject (M.Sc.)	Pass Percentage
1	Botany	96.97	7	Biotechnology	96.55	1	Chemistry	88..89
2	Chemistry	99.17	8	Biochemistry	100	2	Environmental Science	100
3	Mathematics	98.15	9	Computer Science	98.11	3	Information Technology	94.12
4	Physics	100	10	Human Science	100	4	Physics	100
5	Statistics	100	11	Information Technology	94.14	5	Biodiversity Conservation and Wildlife Mgmt.	100
6	Zoology	97.06	12	Microbiology	93.33			
<b>Overall Result</b>			<b>T.Y. B.Sc. 98.47</b>			<b>M.Sc (Part II) 96.42</b>		

Our college served as examination centre for examinations conducted by IDOL (University of Mumbai), UPSC, CDS, MPSC, Department of Posts, Police recruitment examinations and Education Department (TET). The college also served as distribution centre for SSC and HSC Board mark lists and documents and as camp for Joint Director HE office.

**Scholarships and Other Grants Received:** Scholarships and other grants received were as follows:

No.	Scholarship/ Agency	Amount (Rs)
1	Social Welfare Office	4497344
2	Jt. Director of H.E. Office	378800
3	Earn and Learn Scheme	249200
4	Others	48000
	<b>TOTAL</b>	<b>5173344/-</b>

**New Trends Established:**

Our college was awarded with IS/ISO 21001:2018 certification by Bureau of Indian standards (BIS) in February 2023. I am happy to announce we are the second educational institution in the country to get this BIS certification. Management Review was carried out on 7<sup>th</sup> October 2022 and surveillance audits were conducted on 22<sup>nd</sup> December 2022 and 14-15 February 2023.

Civil Defence Unit was sanctioned to the college by Government of Maharashtra.

Equal Opportunities Centre was established in the college in accordance with guidelines received from Government.

*Guru Pournima* was celebrated in a unique way wherein teachers of our teachers were invited and honoured before gathering of teachers and students.

Library started two new initiatives by students, namely, 'Books I would like to read in 2023' and 'The Book I Liked'. Last year the library had started Friends of Library Club. The college registered for institutional membership of US Library

Two new library data bases namely, Knimbus and J Gate Data Base were made available to all from this year.

New compact storage system was introduced in the Records Room and the facility was inaugurated by Dr. Vijay Bedekar, Chairman, VPM, Thane on 9<sup>th</sup> March 2023.

Staff Rooms for Teaching and Non-Teaching Staff, Gymkhana Hall and Girls Common Room have been taken up for renovation.

Annual Sports were conducted for the first time on the newly created VPM turf facility.

Chemicals from all laboratories which had crossed their expiry date were converted into cleaner and paint through collaboration with Dr. Vishwas Joshi, Founder, Chiral Green.

The College collaborated with State Bank of India in an interactive event to celebrate the 67<sup>th</sup> Foundation day of State Bank of India and create awareness on financial literacy.

NCC cadets and NSS volunteers enthusiastically participated in Clean Campus Drive initiated by Dr. Mahesh Bedekar.

NCC cadets trained Government staff in Drill and Parade for Inaugural Ceremony of Government Sports Meet

The College jointly hosted Yuva Utsav 2023 in association with Nehru Yuva Kendra, Thane under the banner of Central Ministry of Youth Affairs and Sports.

Each student was allotted unique student Email ID to access Knimbus database.

A four day workshop on Yoga and Happiness was conducted in collaboration with ISKCON.

A Blood Donation Camp was jointly organized with Dr. Bedekar Hospital, the target set for collection was 75 bottles of blood (75 Years of Independence), and I am happy to state we could jointly collect 95 bottles of blood in this camp.

Our NSS volunteers trained 350 students from Saraswati Vidyalaya, Ghodbunder Road in making of ecofriendly Rakhi for Raksha Bandhan.

Our IT and CS students trained in Cyber Suraksha by Quick heal Foundation, spread much needed awareness on Cyber Security to around 30000 school and college students.

All staff and students actively participated in the '*Har Ghar Tiranga*' Campaign and all the programmes and events announced by the Government on occasion of Azaadi ka Amrit Mahotsav, 75 Years of Independence.

Our College collaborated with CiiA and Marshall's Foundation to host the event on 'Shaping Career Opportunities through Innovations'.

Our first International Student was admitted from Department of Student Welfare, University of Mumbai.

Earn and Learn Scheme was implemented in collaboration with Quick Heal Foundation as well as during our college admissions.

Ms. Kavita Gowda (Biotechnology) was awarded the WEnyan scholarship for women for her research project on 'Biodegradation of Plastics'.

The College entered into a free mentorship programme for students provided by Mentor Together through the Government of Maharashtra.

Two students Ms. Sakshi Mishra and Mr. Tejas Jadhav were selected as Agniveers in Indian Navy.

Our Team of 5 students won the First Prize in Makerthon Competition organized by MES, Pillai College of Engineering, Panvel.

Our College hosted the following events on behalf of University of Mumbai during this year:

- District Round of University Youth Festival
- Second Semester District Level Training Programme for DLLE in which 55 Colleges participated
- Udaan Intercollege Festival of DLLE (Thane District)

175 members of staff received training in assorted fields.

3706 students were trained in various fields of study.

Apart from studies, 367 events were conducted during thre year for holistic development of students.

NCC cadets and NSS volunteers helped the Railway Police in crowd management on Mahaparinirwana Divas 6<sup>th</sup> December 2022 and New Year Eve, 31<sup>st</sup> December 2022.

Mrs. Sunita S. Dhakane was appointed as Vice Principal of Junior College and Dr. (Mrs) Sandhya Pawale was appointed as Supervisor of Junior College.

#### **Progress under Autonomy:**

**Two new Post-Graduate** programs, namely, **M.Sc. program in Data Science** and **M.Sc. program in Clinical Psychology** began from the current academic year 2022-23. Two new Post-Graduate programmes are planned from the next academic year 2023-24.

The syllabi of Second Year classes were upgraded and implemented from the current year. Elective options were made available to learners under autonomy. Credit based certificate courses were introduced and made available to students. Currently 31 such courses are available for students. New value added, skill oriented and subject specific courses are being added to the basket. Feedback from stake holders is regularly obtained. Points mentioned in National Education Policy 2020 are considered during syllabi upgrades by departments. 175 staff members were trained in various fields of activities. MoUs were inked out and more such initiatives are in the pipeline. Training in Leadership and allied fields was provided. Infrastructure renovation has been undertaken.

Prin. (Dr.) Suchitra Naikwas nominated by the University of Mumbai as its representative on our Board of Examinations.

Prof. (Dr.) Vinda Manjramkar was appointed as Dean (Academics).

Academic Audit of the College was conducted on 12<sup>th</sup> July 2022.

Dr. Sudhakar Agarkar and Shri Aniruddh Joshi participated as Management representatives in workshops held in DAV College, Mumbai and CKT College, Panvel, Dist. Raigad respectively.

Prin. Dr. Moses Kolet, Dr. Vinda Manjramkar and Ms. Asba Ansari presented our poster on autonomy in the State Level Conference on 'Accreditation: The Way Ahead' organized by Government of Maharashtra, UGC HRDC, University of Mumbai and MSFDA.

#### **Short Term Credit Based Certificate Courses available for Learners**

<b>No</b>	<b>Certificate Course</b>	<b>Department</b>	<b>Hours</b>	<b>Credits</b>
1	Management for Beginners	College, ID	45	3
2	Basic Course in Law for students of Faculty of Science	College, ID	30	2
3	Techniques in Molecular Biology (Level-I)	Biotechnology & Microbiology	45	3
4	Techniques in Molecular Biology (Level-II)		45	3
5	Food Adulteration and Quality Management	Biochemistry	45	3
6	Forensic Science	Biochemistry	30	2
7	Research Scholar Programme	Botany	160	10
8	Fruit Preserves and Beverages: A Skill Development Course	Botany	60	4
9	Mocktails from Nature's Basket	Botany	30	2
10	Basic Excel	Botany	30	2
11	Instrumentation & Preparation of Standard Solutions	Chemistry	45	3
12	Intellectual Property Rights for Beginners	Chemistry	32	2
13	Solid Waste Management	Ev.S	30	2
14	The Central Public Administrative System	FC	30	2
15	Certificate Course in Creative Writing	ID	30	2
16	Economics for Beginners: The Basics	ID	32	2
17	Introduction to Principles of Marketing	ID	60	4
18	Awareness on Banking, Insurance and Cyber Frauds	ID, Alumni	30	2
19	Basic English Course	ID	30	2
20	Python Level I	IT & CS	45	3
21	Big Data Analysis	IT & CS	30	2
22	Next Generation Databases	IT & CS	30	2
23	Artificial Intelligence	IT & CS	30	2
24	Virtualization	IT & CS	30	2
25	Machine Learning	IT & CS	30	2
26	Certificate Course in Computer Skills	IT & CS	60	4
27	Artificial Neural Network	IT & CS	30	2
28	Basics of C++	Physics	45	3

29	Introduction to Astronomy and Astrophysics	Physics	45	3
30	Basics of R Software	Statistics	45	3
31	SPSS Basic Level I	Statistics	30	2
32	Geogebra	Mathematics	30	2
33	Quick Calculations in Mathematics	Mathematics	30	2

**Activities Conducted :** We have successfully conducted **367** events, namely, **14** events, conferences and seminars including **One** National Conference and **2** pre conference workshops, **5** Dr. V. N. Bedekar Memorial Lectures, **12** local prize distributions and publications events, **54** courses and workshops, **12** inter-college events& competitions and **270** festivals, competitions and other popular events for students; adding up to **367 events** as mentioned below :

**Dr. V. N. Bedekar Memorial Lectures : Five lectures** in this series were conducted as mentioned below:

No.	Topic and Date	Invited Speaker	Conducted by (Dept)
1	Cancer and Epigenetics 19/7/2022	Dr. Sanjay Gupta, PI, ACTREC, Navi Mumbai	Biotechnology; Microbiology
2	Millets: The super Food on Your Plate 28/9/2022	Dr. Jai Kiran Keni, Director Research, YMT Ayurvedic Medical College, Navi Mumbai	Botany
3	Advanced Imaging with the help of Unusual Coded Aperture 16/12/2022	Mr. Nitin Dubey, Ph.D Scholar, Ben Gurion University, Israel	Physics
4	The Opportunities and Challenges in Public Health Research 21/2/2023	Mr. Prashant Bhandarkar, Medical statistician, BARC	Statistics
5	Maze Rashtra, Maze Career 10/3/2023	Dr. R Parshuram. Yadav	Chemistry

**Prize Distributions and Publication events: Twelve** events were conducted as follows:

No.	Event	Invited Guest	Date
1	Prize Distribution of District Level Inter-College Competitions organized as part of <i>Shiv Rajyabhishek Sohala Din</i>	Shri Rajesh Narvekar (District Collector of Thane District); ACP Shri Raju Patil (Head QRT, Thane); Mrs. Swati Indulkar, Ms. Dnyanada Kadam (AO, JD HE office, Panvel); Dr. Vijay Bedekar, Mrs. Sumedha Bedekar	6/6/2022
2	Certificate Distribution of Workshop on 'Yoga and Happiness – The Bhagavad Gita Way' conducted in collaboration with ISKCON	Dr. Urukrama Gauranga Dasa Prabhuji; Mr. T.P. Bendre	6/8/2022
3	Akanksha Event Winners	Principal, Cultural Committee	23/12/2022
4	Prize Distribution of University of Mumbai District Level DLLE Udaan Festival	Dr. Kunal Jadhav (In-Charge, DLEE, University of Mumbai) Dr Bacchav, Mr Chikatgavkar, Dr. Azaad Singh, Dr. Nitin, Dr. C. Chakradev (Judges and Dlle Coordinators)	16/2/2023

5	Prize Distribution of Sports events	Ms. Ketaki Gokhale (Alumni & Gymnast)	17/2/2023
6	Certificate Distribution of Workshop on Indian Railways	Mrs. Jain, Office bearer, Lok Raj Sangathan	25/2/2023
7	Prize Distribution of Chemistry Fest	Principal. Head of Department & Departmental staff	9/3/2023
8	Prize Distribution of Statistics Fest	Principal. Head of Department & Departmental staff	9/3/2023
9	YCMOU Degree Award Ceremony	Centre In-Charge, Course Coordinator	10/3/2023
10	Certificate Distribution of Yoga Course	Shri Ambika Yoga Kutir	13/3/2023
11	Prize Distribution of Yuva Utsav	Nehru Yuva Kendra, Ministry of Youth Affairs and Sports	21/3/2023
12	Prize Distribution of TMC <i>Majhi Vasundhara</i> Slogan Contest	Mrs. Manasi Pradhan, Mr. Raju Jadhav, Pollution Control Dept. Thane Municipal Corporation	25/3/2023

**Credit Based Courses, Seminars, Exhibitions, Workshops and Conferences organized by the college : Fourteen** events were organized as mentioned below:

No.	Web Seminar/ Conference/ Event and Date	Invited Speaker/s	Conducted by Organizing Dept/s
1	World Environment Day 6/6/2022	Mr. Hemant Karkhanis	Ev.S. & BWCM
2	Careers in Chemistry 23/6/2022	Chemistry Department Teachers	Chemistry
3	Bloom's Taxonomy Workshop 17/11/2022	Botany Department Teachers	Botany
4	Demonstration of Biological Instruments for Polytechnic students	Zoology Teachers	Zoology
5	PNG Seminar on Personality Development and Menstrual Hygiene	Ms. Simran Gohil	P&G, NSS
6	Certificate Course on Astronomy and Astrophysics 11/1/2023	Mr. Vasudev Kolhatkar, Mr. Sushant Pawar	Physics, VPM's Council of Senior Scientists
7	National Conference on Applied Mathematics and Statistics NCAMS 2023, 13 & 14/1/2023	Mr. Basudev Bannerjee	Mathematics & Statistics
8	Workshop on Book Review Writing 28/1/2023	Ms. Kadambari Manjrekar	Botany Club
9	Zoomagica Science Exhibition; Zoology Fest 25,27, 28/1/23	Zoology Staff	Zoology
10	Physics Carnival & Exhibition 28/2/2023	Dr. Rajesh Kamble	Physics

11	Mathematics Club Event	-	Mathematics
12	Botany Club Event, 6/3/2023	-	Botany
13	Chemistry Exhibition, 9/3/2023	-	Chemistry
14	Statistics Club Event, 9/3/2023	-	Statistics

**Training Courses and Workshops Organized by the College: Fifty Four Courses** and Workshops have been organized during the year as follows:

No.	Course/ Workshop	Date/s	Organized by (Dept)
1	Workshop on 'Neti kriya'	30/4/2022	Yoga Committee
2	Count Down to International Yoga Day	14/5/2022	Yoga committee
3	Count Down to International Yoga Day	20/6/2022	College & Alumni Association
4	International Day of Yoga	21/6/2022	College
5	Workshop on Transformational Meditation	25/6/2022	Anubandh Alumni Asso, Yoga Committee, NCC
6	Bridge Course on Laboratory Practices	5/7/2022	Botany
7	Workshop on Translation as a Career Option	8/7/2022	VPM CSS, Anubandh, Sahitya Sahavas, Library
8	Diabetes Awareness Seminar & Camp	9/7/2022	College & Lion's Club
9	Bridge Course on Practical Sessions	13-14/7/2022	Zoology
10	Certificate Course on Central Public Administration	23/7/22-1/8/22	Foundation Course
11	Certificate Course on 'Yoga and Happiness - The Bhagavad Gita Way'	3-6/8/2022	College in collaboration with ISKCON
12	Rakhi making Workshop for NSS volunteers	4/8/2022	NSS, Paryavaran Dakshata Mandal
13	Rakhi making Workshop for training school students	5/8/2022	NSS, Paryavaran Dakshata Mandal
14	Workshop on Integration Derivation for SY IT, CS	20/8/2022	Mathematics, IT, CS
15	Training for students related to Knimbus software	24/8/2022	Library
16	Training for students related to Knimbus software	24/8/2022	Library
17	Training for students related to Knimbus software	24/8/2022	Library
18	Workshop on 'Make your clay Ganapati'	26/8/2022	College, Paryavaran Dakshata Mandal
19	Workshop on Integration Derivation for TY IT, CS	27/8/2022	Mathematics, IT, CS
20	Happy Folding: Workshop on Origami	27/8/2022	Anubandh Alumni Association
21	Cyber Suraksha Training Workshop	8/9/2022	IT, CS, Quick heal Foundation

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22	Workshop on Self Defence	10/9/2022	Anubandh Alumni Association
23	Certificate Course on Food Adulteration and Quality Management	14/9/22-1/10/22	Biochemistry
24	Instrumentation and Microscopy Revision Workshop	15/9/2022	Botany
25	Workshop on Avishkar	19/9/2022	Avishkar Team
26	ISO Internal Audit Training	19/9/2022	ISO Team
27	Basic Course in Yoga	26/9/2022-March 2023	Shri Ambika Yoga Kutir, Yoga Committee
28	Akash Kandil Making Workshop	15/10/2022	Paryavaran Dakshata Mandal
29	Workshop on Pollution Free Diwali	23/10/2022	Jidnyasa Trust, Thane, NCC, NSS, Various schools in Thane
30	Yoga Course for FYJC	12/11/2022-March 2023	Shri Ambika Yoga Kutir, Yoga Committee
31	Workshop on Hygiene and Sanitation for Girls	22/11/2022	P & G Whisper, Million Minds
32	Workshop on Calibration of Scientific Instruments	22/11/2022	Chiral Green
33	First Pre-Conference Workshop of National Conference	26/11/2022	Mathematics, Statistics
34	Workshop on Bird Vocalization	28/11/2022	BWCM, Ev.S.
35	Workshop on Planning of Activities	29/11/2022	University of Mumbai, DLLE
36	Second Pre-Conference Workshop of National Conference	3/12/2022	Mathematics, Statistics
37	Intercollegiate Workshop on Art of Research Paper Writing & Hands on Training on SPSS	8-10/12/2022	College; Dr VN BRIMS
38	Workshop on Prevention of Suicides	14/12/2022	DLLE, Human Sc., Clinical Psychology, NGO Sangath
39	Workshop on Disposal, Recycle, Reuse of Chemicals	14-17/12/2022	Chiral Green, Chemistry
40	Workshop on Financial Literacy	15/12/2022	College, CASI
41	Certificate Course on Astronomy and Astrophysics	11/1/23-28/1/23	Physics, VPM's Council of Senior Scientists
42	Workshop for Magazine Cover Page	26/1/2023	Magazine Committee
43	Workshop on Book Review Writing	28/1/2023	Botany Club
44	Workshop on Significance of Railways in Life: Expectations v/s Reality	28/1/2023 4/2/2023 11/2/2023 17/2/2023	College; Lok Raj Sangathan
45	Certificate Course on R Software	2/2/23-16/2/23	Statistics

46	Certificate Course on Instrumentation and Preparation of Standard Solutions	6/2/23 to 15/4/2023	Chemistry
47	Workshop on Awareness on Civil Services Examinations	10/2/2023	NCC
48	Workshop on Awareness on Civil Services Examinations	11/2/2023	NSS
49	Certificate Course on Mocktails from Nature's Basket	12/2/23-27/2/23	Botany
50	Neti Workshop for students	10/3/2023	Yoga Committee
51	Neti Workshop for staff	13/3/2023	Yoga Committee
52	Workshop on Career Counselling and Employability Skills	23/3/2023	IT, CS, Career Counselling
53	Workshop on Career Counselling and Employability Skills	25/3/2023	IT, CS, Career Counselling, EvS, NCC, NSS
54	Bridge Course for Biotechnology	26/4/2023-4/5/2023	Biotechnology

**Student Festivals (and other activities) : Two Hundred and Forty Seven** student festivals, competitions, popular events, camps and other ceremonies/ days/ observances were organized as follows:

No.	Fest / Activity	Date/s	Organized by/ Collaboration
1	Dr Ujwal Rathod Post Doc. Fellow, UCSF Interactive Session	13/4/2022	Biotechnology
2	Dr. Shweta Karambelkar Post Doc. Fellow, UCSF	13/4/2022	Biotech
3	Farewell for TYBSC Pass-out students	29/4/2022	Chemistry Dept.
4	The magical world of Raja Ravi Varma	30/4/2022	College, NSS
5	Maharashtra Din	1/5/2022	College, NCC, NSS
6	Count down to International Yoga Day	14/5/2022	NSS, NCC
7	Clean campus initiative; Garden Cleaning activity	25/5/2022 to 28/5/2022	NSS
8	Shiv Rajyabhishek Sohala	6/6/2022	College, NCC, NSS
9	World Environment Day	6/6/2022	Ev.S. & BWCM
10	Tree plantation	7/6/2022	NCC, NSS
11	Floristic Analysis of College Campus	20/6/2022	Botany
12	Hands on Training on Compound Microscope	23/6/2022	Botany
13	Count Down to International day of Yoga	20/6/2022	Anubandh Alumni Association
14	International Day of Yoga	21/6/2022	Shri Ambika Yoga Kutir, NCC, NSS, 1 MAH BN NCC; Rizvi College, Mumbai
15	Awareness on Scholarships and Grants to Girl Students	24/6/2022	Pune Knowledge Cluster; Sc.& Tech. Cluster; WE Gyan, IISER

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16	International Anti-Narcotics Day; Say No to Drugs; Awareness activities	25/6/2022	Students Council, NCC. NSS, Thane Police
17	Lecture on How to deal with Suicidal Tendencies	25/6/2022	Students Council, NCC. NSS
18	Alumni Interaction ; 3Rs; Success while studying in the US	27/6/2022	College, Chemistry
19	National Statistics Day	29/6/2022	Statistics
20	Joint Celebration of 67 <sup>th</sup> SBI Foundation Day Interactive Event	1/7/2022	College; State Bank of India
21	<i>Rashtra Gaan</i> - Patriotic Song Workshop by Mrs. Sumedha Bedekar	2/7/2022	College, Bedekar High School
22	Career Guidance	2/7/2022	Biotechnology
23	Newly appointed teachers' interactive session with Chairman, VPM	6/7/2022	VPM, College
24	COVID Vaccination Drive for students	7/7/2022	TMC Health Dept.
25	Inauguration of Zoology Club & Nature Club	9/7/2022	Zoology
26	Awareness Talk on Diabetes	9/7/2022	Lion's Club
27	Mega Diabetes Medical and Eye Check up Camp	9/7/2022	Lion's Club; Apollo Hospital
28	Invited Talk on Skills and Career Opportunity for Librarians	12/7/2022	Library (Online)
29	<i>Guru Pournima</i> Event	13/7/2022	College, Students Council, NCC, NSS
30	Session on Introduction to Wildlife Conservation (Online)	18/7/2022	BWCM
31	Online Entrepreneurship Training Sessions	20/7/2022- 20/1/2023	In collaboration with CRDE,; La Sierra School of Business, LA, USA
32	Training session for students under Earn and Learn Scheme	21/7/2021	Quick Heal Foundation collaboration
33	Inaugural Lectures for FYBSc classes	22/7/2022	Principal
34	Induction Lectures for FYBSc classes	23/7/2022- 2/8/2022	College
35	Sessions on Co-curricular & Extra-curricular activities	23/7/2022	Cultural, NCC, NSS, DLLE
36	Examination on Gandhian Thoughts	23/7/2022	College
37	Invited Talk on 'A peep into King Cobra ecology through Telemetry Project'	23/7/2022	BWCM, Ev.S (Online)
38	Invited Talk on 'The Magical World off Herps'	25/7/2022	BWCM, Ev.S
39	Sessions on Co-curricular & Extra-curricular activities	25/7/2022	Gymkhana, Magazine, RSP
40	Kargil Vijay Divas	26/7/2022	NCC
41	Blood Donation	26/7/2022	Thane Civil Hospital
42	World Mangroves Day Awareness Drive 'Mangroves Matter'	26/7/2022	College, Paryavaran Dakshata Mandal

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43	Invited Talk on 'Butterflies of Western Ghats)	26/7/2022	BWCM, Ev.S (Online)
44	Invited Talk on 'Journey with Butterflies' & Developing a Butterfly Garden	27/7/2022	BWCM, Ev.S (Online)
45	Sessions on Co-curricular & Extra-curricular activities	27/7/2022	WDC, Gender Champion, Maths Club
46	Invited Talk on 'Sea Turtles Conservation'	28/7/2022	BWCM, Ev.S
47	Informative talk on George Washington Carver	28/7/2022	Innovation Corner
48	Invited Talk on 'Insights into scope of Remote Sensing/ GIS & modeling in conserving species'	29/7/2022	BWCM, Ev.S (Online)
49	Release of JBNB vol.13	29/7/2022	JBNB, Research Committee
50	National Conference on Role of Indian Scientists in Freedom Struggle	30-31/7/2022	NSS, IT, CS
51	Sessions on Open Learning Courses	2/8/2022	College, Principal
52	Alumni Interaction with Students	2/8/2022	Chemistry
53	Monsoon Trek to Lohagad Fort	3/8/2022	Statistics, Mathematics
54	Observation of Krantisinh Nana Patil Jayanti	3/8/2022	College, Library
55	Interactive Session on 'Facing Challenges in Life'	3/8/2022	ISKCON, College
56	Interactive Session on 'Overcoming Distractions'	4/8/2022	ISKCON, College
57	Motivational Career Guidance	4/8/2022	Career Katta Maharashtra
58	Rakhi Stall	29/7/22-8/8/22	NSS
59	Interactive Session on 'Law of Karma'	5/8/2022	ISKCON, College
60	Interactive Session on 'Yoga for Modern Age'	6/8/2022	ISKCON, College
61	Blood Donation	6/8/2022	Dr. Bedekar Hospital
62	<i>Prabhat Pheri</i> on occasion of <i>Azaadi ka Amrit Mahotsav</i>	9/8/2022	College
63	Collective singing of National Anthem ( <i>Azaadi ka Amrit Mahotsav</i> )	9/8/2022	College
64	<i>Har Ghar Tiranga</i> Programme	9/8/2022	College, NCC, NSS, Nehru Yuva Kendra
65	Campus and College Cleanliness Drive	10/8/2022	NCC, NSS
66	Cleanliness Drive t Thane Fort on occasion of <i>Azaadi ka Amrit Mahotsav</i>	11/8/2022	NCC, NSS
67	Visit to Police Arms and Equipment Exhibition	11/8/2022	NCC, NSS
68	Visit to Cyber Cell Unit of Thane Police	11/8/2022	NCC, NSS
69	Raksha Bandhan at QRT Office	11/8/2022	NSS
70	International Youth Day	11/8/2022	College
71	Rangoli Competition	12/8/2022	Thane Civil Hospital
72	Librarian's Day	12/8/2022	Library
73	Invitation to Stage Show on History of Freedom Struggle	12/8/2022	VPM

74	Puneet Sagar abhiyaan; Beach Cleanliness Drive in Mumbai	12/8/2022	NCC
75	Flag Hoisting as per guidelines as part of <i>Azaadi ka Amrit Mahotsav</i>	13/8/2022	NCC, NSS
76	Participation in <i>Gaurav Gatha</i> : TMC Felicitation of veteran defence officers	13/8/2022	NCC, TMC
77	NSS Tiranga Rally in University Campus, Kalina	13/8/2022	NSS, University of Mumbai
78	Cultural Events as part of <i>Azaadi ka Amrit Mahotsav</i>	13/8/2022	Cultural committee
79	Flag Hoisting as per guidelines as part of <i>Azaadi ka Amrit Mahotsav</i>	14/8/2022	NCC, NSS
80	Tree Plantation activity in College campus	14/8/2022	NCC, NSS
81	Tree Plantation activity at Yeoor Hills	14/8/2022	NCC, NSS, NGO
82	<i>Mera Bharat Mahaan</i> 2022 Event	14/8/2022	ISKCON
83	Invitation to Stage Show on Lesser known freedom fighters from Thane	14/8/2022	VPM
84	Independence Day Prabhat Pheri	15/8/2022	College, NCC, NSS, Nehru Yuva Kendra
85	Independence Day Flag Hoisting	15/8/2022	VPM, College
86	Har Ghar Tiranga campaign	15/8/2022	College
87	Cultural Events on Patriotic Theme ' <i>Dil hai Hindustani</i> '	16/8/2022	College, Cultural Committee
88	Collective singing of National Anthem	17/8/2022	College
89	Screening of Patriotic Film	17/8/2022	College, NCC, NSS, Cultural
90	Presentations of Street Play in college campus	17/8/2022	NSS
91	Entrepreneurship Interaction	17/8/2022	College
92	Maharashtra State Startup Yatra Entrepreneurship awareness presentations	17/8/2022	College
93	<i>Har Ghar Tiranga</i> Used Flags Collection Drive	18/8/2022	NCC
94	Plantation Drive	18/8/2022	Botany, BWCM, Ev.S.
95	Placement Interviews	20/8/2022	Placement Cell, J.D. Owens, Chemistry
96	Visit to ACTREC	22/8/2022	Biotechnology
97	Pre RDC Selection Camp	22-26/8/2022	NCC
98	Plastic waste Collection Drive	23/8/2022	NSS, NCC
99	Clothes Collection Drive	23-30/8/2022	NSS, NCC
100	NSS Orientation/ Inaugural Lecture	24/8/2022	NSS
101	Inaugural Lecture for FYJC	25/8/2022	College
102	Flower Arrangement Show Trichroma Biofest. ( <i>Azaadi ka Amrit Mahotsav</i> )	25/8/2022	Botany
103	Know Your Innovators: Scientist Edward Jenner	25/8/2022	Innovation Corner

## SANYUJA 2022-23

104	Inauguration of Gymkhana Activities	26/8/2022	Gymkhana
105	Visit to BARC	26/8/2022	Physics
106	Talent Show	27/8/2022	Human Science
107	Study Tour to Veer Jijamata Udyan, Mumbai	27/8/2022	Botany
108	Mangroves Cleanliness Drive	28/8/2022	Ev.S, Vana Shakti
109	Ganapati Idol Making Event under 64Kala	29/8/2022	Lok News Channel
110	Visit to R.D. National College for Invited Session on Ayurveda	30/8/2022	Biochemistry
111	Registration of New Voters	30/8/2022	College, Election Department
112	Mehendi Design Competition	30/8/2022	DLLE
113	Tribal Empowerment through sale of Bamboo Rakhis	August 2022	NSS, NCC
114	Walk with the Butterflies	3/9/2022	BWCM, Ev.S
115	Personality Development; Best College Guidance Event in College	6/9/2022	NCC
116	International Day of Clean Air for Blue Skies	7/9/2022	TMC, Ev.S, BWCM, NCC, NSS
117	Study in Mobile Pollution Monitoring Laboratory Van	7/9/2022	TMC, Ev.S, BWCM, NCC, NSS
118	Guard of Honour & Pilots for Sports Minister's visit to NCC Directorate	7/9/2022	NCC
119	Rangoli Event under 64Kala	7-8/9/2022	Lok News Channel
120	Poster Making Competition on Theme of Prevention of Suicide	10/9/2022	Clinical Psychology, HS, DLLE
121	Puneet Sagar abhiyaan; Beach Cleanliness Drive in Mumbai	10/9/2022	NCC
122	Mission Clean-Up	10/9/2022	Junior College
123	Interactive sensitization session on Reintroduction of the Cheetah in India	13/9/2022	BNHS ENVIS
124	Study Tour to Karjat	13/9/2022	Botany
125	Inaugural event of Clinical Psychology Dept.	15/9/2022	Civil Hospital, Clinical Psychology
126	Lake Conservation event	17/9/2022	Ev.S, BWCM
127	National Beach Cleaning Activity	17/9/2022	NCC
128	International Mangrove Cleaning day	17/9/2022	NCC, NSS, TMC, Envirovigil (PDM)
129	Screening and Discussion on Environmental Documentary Film	17/9/2022	Ev.S, BWCM, Symantak Univ. of Life
130	Swaranjali, Edition 4	17/9/2022	College, Anubandh Alumni Asso.
131	Guidance Programme on Online Scholarship Form Filling	21/9/2022	College; Samaj Kalyan Dept.
132	Guest lecture on 'Know Your Rights'	21/9/2022	WDC
133	Shaping Career Opportunities Through Innovations	22/9/2022	College, Innovation Corner

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134	NSS Foundation Day	24/9/2022	NSS
135	Visit to <i>Akshaya Chaitanya</i> ISKCON Community Kitchen, Mumbai	24/9/2022	Biochemistry
136	NSS Competition	25/9/2022	NSS
137	Library Navratri Event: exhibition of Books by Women Authors	26/9/2022	Library
138	Visit to Katraj Dairy. Pune	26/9/2022	Biochemistry
139	Talk on Interactive Physics	26/9/2022	Physics
140	Talk on Food Preservation with reference to Irradiation of Food	27/9/2022	Biochemistry
141	Felicitation of Gymkhana Coordinators and Achievers at University Level	27/9/2022	Gymkhana
142	Hindi Divas	27/9/2022	Junior College, Hindi Dept.
143	Session on Inter tidal Diversity Online	27/9/2022	BWCM, Ev.S.
144	Industrial Visit	28/9/2023	Biochemistry
145	Visit to Special School	29/9/2022	Human Science, Clinical Psychology
146	Know Your Innovators: Scientist Dr. Kamala Sohoni: an Innovative Nutritionist	29/9/2022	Innovation Corner
147	Talk on Interactive Physics	30/9/2022	Physics
148	Session on Species Distribution: Bio geographical Realms Online	30/9/2022	BWCM, Ev.S.
149	Valedictory session of Food Course	1/10/2022	Biochemistry, Parle Agro.
150	Industrial Visit/ Study Tour	1/10/2022	Human Science
151	Rashtriya Ekta Divas, Unity Run	1/10/2022	NCC, NSS, Nehru Yuva Kendra
152	Rashtriya Ekta Divas, Unity Day Pledge and Events	1/10/2022	NCC, NSS, Nehru Yuva Kendra
153	Rashtriya Ekta Divas	1/10/2022	Library
154	Talk on Millets; Inauguration of Curiosity Club & Srishti Club	1/10/2022	Botany
155	Bhajan Sandhya	2/10/2022	NSS
156	Dasara <i>Pooja</i>	4/10/2022	College staff
157	Invited Talk on Journalism in Wildlife	4/10/2022	BWCM, Ev.S.
158	Session on Lizard Phylogeny Online	4/10/2022	BWCM, Ev.S.
159	World Mental Health Day; Interactive talk session	10/10/2022	Clinical Psychology, HS
160	Skit and Screening of Short film on mental health	10/10/2022	Clinical Psychology, HS
161	' <i>Vachan Prerana Divas</i> ' Books by & on Dr. APJ Abdul Kalam Exhibited	15/10/2022	Library
162	Mentorship Orientation Programme	15/10/2022	NSS, Mentor Cell, Mentor Together

## SANYUJA 2022-23

163	The skill art of cracking Entrance Examinations	15/10/2022	Biotechnology, Microbiology
164	Fit India Campaign	18/10/2022	NSS
165	YCMOU Introductory Lecture	29/10/2022	Library, YCMOU
166	National Unity Run & Pledge	31/10/2022	NSS
167	Birth Anniversary of Sardar Vallabhbhai Patel	31/10/2022	Library
168	Vigilance Awareness Week, Integrity Pledge	4/11/2022	NCC, NSS, College
169	<i>Maze Granthalay Granth Peti</i> exchange Programme	8/11/2022	Library
170	Street Play on Anti-Corruption Awareness as part of Vigilance Week	10/11/2022	NSS
171	Sanskrit Divas	15/11/2022	Junior College, Sanskrit Dept.
172	Street Play on Voter ID Awareness	18/11/2022	NSS
173	Study Tour	19/11/2022	Botany
174	Feminine Hygiene event	22/11/2022	NSS
175	Blood Donation Drive	24/11/2022	Thane Civil Hospital
176	Career Melava Day 1	26/11/2022	Jr. College; Aided Departments
177	Constitution Day Rally & Administration of Pledge	26/11/2022	College
178	Candle Light Rally: Commemoration of 26/11 Terror Attack on Mumbai	26/11/2022	NCC
179	NCC Day celebration in College; Exhibition; Motivational Talks	27/11/2022	NCC, 1 MAH BN NCC
180	Career Melava Day 2	28/11/2022	Junior College; External Speakers
181	Field Training in ornithology	28/11/2022	BWCM
182	DLLE District Level Training Programme	29/11/2022	DLLE, University of Mumbai
183	CRDE entrepreneurship interaction with staff and students	30/11/2022	College, Innovation Corner
184	International day for HIV/AIDS Awareness; Awareness rally	1/12/2022	NCC, NSS, District Civil Hospital
185	International day for HIV/AIDS Awareness; Competitions	1/12/2022	College, District Civil Hospital
186	Environment Film Festival	5-7/12/2022	Paryavaran Dakshata Mandal, NCC, NSS
187	Dr. Babasaheb Ambedkar Mahaparinirvaan Divas	6/12/2022	NCC, NSS, Rly. Police
188	Visit of Students interested in Competitive Examinations to CD Deshmukh Institute of Career Development	1/12/2022	College, District Civil Hospital
189	Cleanup activity in Thane	14/12/2022	NCC, NSS, TMC, Ornate Tech
190	Placement Interviews	14/12/2022	Placement Cell, Sutherland
191	Interactive session for Student members of Student Council	14/12/2022	Interaction with Director, CASI Global, New York

## SANYUJA 2022-23

192	Sessions on Financial Literacy	15/12/2022	CASI
193	Clean Campus Drive Responsibility	15/12/2022 – 21/3/2022	VPM, NCC, NSS
194	Stationery Collection Drive	19-24/12/2022	NSS
195	Annual Sports	21/12/2022	Gymkhana, Sports Committee
196	Akanksha Festival; Annual Social Gathering	23/12/2022	Cultural Committee, Student Council
197	Traditional Day	24/12/2022	Cultural Committee
198	Display of Float on <i>Majhi Vasundhara</i> for Environmental Awareness	24/12/2022	College, Ev.S, TMC
199	Pledge on Environment Protection	24/12/2022	College, TMC
200	NCC CATC Residential Camp	24-31/12/2022	NCC
201	QRT Demonstration of Weapons and Anti-Terrorist Operations	28/12/2022	NCC
202	Crowd Management at Thane Rly. Station	31/12/2022	NCC/ NSS, Rly Police
203	Industrial Visit to Mahabaleshwar		Biotechnology, Microbiology
204	NSS Residential Camp	3/1/2023-9/1/2023	NSS
205	Industrial Visit to Pune, Wai, Mahabaleshwar	3/1/23-5/1/23	Biochemistry
206	Study Tour to Karnataka	5/1/23-13/1/23	Zoology
207	Awareness on Organ Donation	10/1/2023	NSS, NCC
208	Human Chain at Nariman Point, Mumbai for Road safety awareness	11/1/2023	RTO, NCC
209	Certificate Course on Astronomy and Astrophysics	11/1/2023	Physics, VPM's Council of Senior Scientists
210	Road Safety and Organ Donation Awareness Drive	15/1/2023	RTO, NCC, NSS
211	Road Safety Awareness Programme	17/1/2023	RTO, NCC, NSS
212	Sky Observation, Neral	21/1/2023	Physics
213	National Voter's Day Competitions	25/1/2023	College, NSS, NCC
214	National Voter's Day	25/1/2023	College; District Collector Office
215	Republic Day	26/1/2023	VPM, College
216	Flag Area Display	26/1/2023	NCC
217	Section Formation Drill, Obstacle Crossing	26/1/2023	NCC
218	Skit on Voter Awareness	26/1/2023	NSS
219	Workshop for Magazine Cover Page	26/1/2023	Magazine Committee
220	Zoomagica Science Exhibition; Zoology Fest	25,27, 28/1/23	Zoology
221	Power point presentation competition	27/1/2023	Innovation Corner
222	Workshop on Book Review Writing	28/1/2023	Botany Club
223	Screening of documentary film on Gene Bank	30/1/2023	Curiosity Club

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224	Hutatma Divas	30/1/2023	College
225	No Honking Day	30/1/2023	VPM, Hirali Foundation, Ulhasnagar, NCC, NSS
226	Study Tour, Kerala	31/1/23-6/2/23	Physics
227	Sanvidhan Jagarukta Divas	1/2/2023	NSS; Sanvidhan Sanman Abhiyan
228	Voter Registration Drive	2/2/2023	College
229	Study Tour, Pune, Baramati	3/2/23-4/2/23	Botany
230	Study Tour, Lonavla	4/2/2023	Botany
231	Mathematics Fest Mathlete	6/2/2023	Mathematics
232	Study Tour, Pune	8/2/23-9/2/23	Clinical Psychology
233	Awareness Sessions on Civil Services Examinations	10/2/2023; 11/2/2023	College, NCC, NSS
234	Campus Cleanliness Drive	11/2/2023	College, NCC, NSS
235	Campus Cleanliness Drive , Zero Plastic Drive	14-22/2/2023	NCC, NSS
236	University District Level DLLE Udaan Festival	16/2/2023	University of Mumbai, DLLE
237	Industrial Visit	16/2/2023	Biotechnology
238	Industrial Visit	16-17/2/2023	Chemistry
239	Industrial Visit	16/2/2023	Biochemistry
240	Street Play on Cancer Awareness	17/2/2023	NSS
241	Shri Chatrapati Shivaji Jayanti Celebration	19&20/2/2023	NSS, NCC
242	Study tour	21/2/2023	Ev.S, BWCM
243	Study Tour	22/2/23	Zoology
244	Industrial Visit	24/2/2023	Ev.S, BWCM
245	Study Tour, Goa	26/2/23-1/3/23	Human Science
246	Marathi Bhasha Divas	27/2/2023	Marathi
247	National Science Day; Physics Carnival & Exhibition	28/2/2023	Physics
248	Study Visit to Museum, Mumbai	28/2/2023	Zoology
249	Study Tour, Nasik	28/2/2023	Botany
250	NGO visit	3/3/2023	Ev.S, BWCM
251	Environmental Film Screening and Interaction at US Embassy	6/3/2023	Ev.S., BWCM, Dosti House
252	Botany Fest Palvi	6/3/2023	Botany
253	International Women's Day Event	8/3/2013	College, WDC
254	Awareness on Investment opportunities	8/3/2023	WDC
255	Chemistry Fest Chemophilia	9/3/2023	Chemistry
256	Statistics Fest Inferentia	9/3/2023	Statistics
257	Field Visit	10/3/2023	Ev.S., BWCM

258	YCMOU Library courses Felicitation Event	10/3/2023	Library
259	Shri Chatrapati Shivaji Maharaj Jayanti	10/3/2023	NSS
260	Museum visit	11/3/2023	Botany
261	Lake Conservation Study Visit	16/3/2023	Ev.S
262	Study Tour to flamingo sanctuary	20/3/2023	Ev.S, BWCM
263	Study Visit	20/3/2023	Human Science, Clinical Psychology
264	Career Guidance Session on Opportunities in Data Science	20/3/2023	Alumni Asso., IT, CS, Statistics, Mathematics, Physics
265	Yuva Utsav competitions; Poetry, Painting, Photography, Declamation, Cultural events	21/3/2023	Govt of India Ministry of Youth Affairs and Sports; Nehru Yuva Kendra
266	Book Mark Competiition	23/3/2023	Magazine, Friends of Library Club
267	Shaheed Divas	23/3/2023	Library
268	Shaheed Divas (Campus)	23/3/2023	NCC
269	Mahatma Jyotiba Phule 196 <sup>th</sup> Jayanti	11/4/2023	Library
270	Dr. Babasaheb Ambedkar Jayanti	14/4/2023	College, Library

**Organization and Conduct of Intercollegiate Events and Competitions:**

**Twelve** intercollege competitions and events were conducted as mentioned below:

No.	Intercollegiate Event Organized	Level	Date/s	Collaborating Agency
1	Inter-College Poster Competition	National	10/1/2023	BNBCS Departments of Mathematics and Statistics; University of Mumbai
2	Inter-College Sports Competition	District	31/5/2022	Government of Maharashtra; Shiv Rajyabhishek Din Activity
3	Inter-College Street play / Skit Competition	District	2/6/2022	Government of Maharashtra; Shiv Rajyabhishek Din Activity
4	Inter-College Katha Kathan (on Shri Chatrapati Shivaji Maharaj) Competition	District	3/6/2022	Government of Maharashtra; Shiv Rajyabhishek Din Activity
5	Certificate Course on Food	Mumbai, Thane	14/9/22-1/10/22	Biochemistry Dept.
6	Inter-College Powada Competition	District	3/6/2022	Government of Maharashtra; Shiv Rajyabhishek Din Activity
7	Workshop on Translation as a Career Option	Regional	8/7/2022	VPM CSS
8	University Youth Festival	District	12/8/2022	University of Mumbai

9	NCC Inter College Best Cadet Competition Guidance	Mumbai B Grp., Mumbai, Thane, Nasik	6/9/2022	NCC
10	Inter –College Street Play Competition	District	10/12/2022	Dr. Babasaheb Ambedkar Nashabandi Mandal, Maharashtra
11	University DLLE Udaan Festival	District	16/2/2023	University of Mumbai, DLLE
12	Yuva Utsav Inter College Event	District	21/3/2023	Nehru Yuva Kendra, Govt. of India Ministry of Youth Affairs and Sports

**Students Council:** Our Students Council is formed with the aim of nurturing leadership qualities and is giving valuable help in organization of all events in the college. Student members interacted with Dr. Paresh Seth, Director, CASI Global, New York on 14<sup>th</sup> December 2022. Students Council helped to organize various activities throughout the year.

Organization and Conduct of National Conference and Pre Conference Workshops:

The National Conference on **Applied Mathematics and Statistics NCAMS 2023** was organized on 13<sup>th</sup> and 14<sup>th</sup> January 2023, in collaboration with the University of Mumbai. Proceedings of the National Conference were released during the Inaugural session.

Before the actual National conference, two pre conference workshops were organized on 26<sup>th</sup> November 2022 (1<sup>st</sup> pre-conference workshop) and 3<sup>rd</sup> December 2022 (second pre-conference workshop).

An Intercollegiate workshop on 'Art of Research paper writing and hands on Training on SPSS' was organized in collaboration with VPM's Dr. V.N. BRIMS as part of our MoU which saw participation of 6 institutes from Mumbai, Thane and Raigad Districts.

#### **Shiv Rajyabhishek Sohala Din:**

Thane District level functions of Shiv Rajyabhishek Sohala Din were organized by the college in collaboration with Joint Director's office, University of Mumbai and sister institutions on campus. The events included:

- Shiv Jyot Rally.

Shri Uttam Joshi, Jt. Secretary, VPM Thane, participated enthusiastically in this rally on 6/6/2022 along with Dr. Suchitra Naik, Dr. Srividhya Jayakumar, Dr. Moses Kolet, NCC officers, NSS programme officers, NCC cadets, NSS volunteers and students

- Inter-Collegiate District Level Sports Competitions (Chess and Tug of War) featuring *Buddhi* and *Shakti* respectively)
- Inter-Collegiate District Level Street Play/ Skit, Powada and Katha Kathan Competitions based on Chatrapati Shri Shivaji Maharaj
- Main Event on 6/6/2022

The main event featured Maharashtra *Geet*, a performance on the life of Chatrapati Shri

Shivaji Maharaj choreographed by NSS volunteers, prize winning skit, powada, felicitations of all guests and invitees, prize distribution of the inter-collegiate competitions and motivational speeches by Dr. Vijay Bedekar (Chairman, Vidya Prasarak Mandal, Thane), Mrs. Swati Indulkar (Film maker, Indian military history), Shri Raju Patil (Head, Thane Police QRT) and Shri Rajesh Narvekar (Collector of Thane District). Ms. Dnyanada Kadam (Administrative Officer, JD HE Office, Panvel, Dist. Raigad) attended on behalf of State Government. Members of the VPM Management were present for the event.

#### **Parents Meetings:**

All Departments and Junior College conducted their respective class wise meetings of parents.

#### **Faculty Development Curriculum Related Activities:**

Prin. (Dr.) Moses Kolet was nominated by the Hon'ble Vice Chancellor, University of Mumbai as VC's nominee on the Governing Body of S.K.Somaiya College (Autonomous) and as University expert on Board of Studies in Botany of R. Ruia College (Autonomous). Dr. S.D. Rathod is functioning as University Nominee on Boards of Studies in Zoology of V. G. Vaze College of Arts, Science and Commerce, Mumbai. Teachers participated in Conferences and presented their research papers. Teachers completed programs as mentioned below:

#### **Teachers completing Refresher/ Short Term Courses at UGC-HRD Centres/ Recognized Institutes**

S.No.	Name	Course	UGC-HRD Centre/ Institute
1	Ms. Komal Gaikwad	1 Month Faculty Induction Programme	MSFDA
2	Dr. Sangita Meshram	5 Days FDP on Facets of multi lingualism	MSFDA, Deccan College, Pune
3	Ms. Sayli Daptardar	MSFDA, MSDEED Workshop	MSFDA, MSDEED, IISER Pune, Ruia College
4	Mr. Aditya Mhatre	MSFDA, MSDEED Workshop	MSFDA, MSDEED, IISER Pune, Ruia College
5	Mr. Aditya Mhatre	5 Days online FDP on UHV	AICTE, New Delhi
6	Ms. Komal Gaikwad	5 Days online FDP on UHV	AICTE, New Delhi
7	Ms. Saloni Sheth	5 Days online FDP on UHV	AICTE, New Delhi
8	Ms. Sayli Daptardar	STC on Renewable energy & Green tech.	UGC, HRDC University of Mumbai
9	Ms. Manali Neman	MSFDA Workshop on DNA Barcoding	MSFDA, Gogate College, Ratnagiri
10	Ms. Jyoti Varma	MSFDA Workshop on DNA Barcoding	MSFDA, Gogate College, Ratnagiri

In addition to the above, **One Hundred and sixty five** of our Teaching and non-teaching staff members voluntarily completed 36 different curricular, co-curricular and extra-curricular trainings during the year. All these activities were sponsored by the Government/ University/ AICTE/ RUSA/ respective agency / or by our college.

**Staff trained in multi themed Faculty Development Programmes, workshops and training programmes**

<b>Sr. No</b>	<b>Name</b>	<b>Course/ Training Workshop</b>	<b>Organized by</b>
1	Ms. Komal Gaikwad	Faculty Induction Programme	MSFDA
2	Dr. Sangita Meshram	FDP on linguistics	MSFDA; Deccan College, Pune
3	Ms. Sayli Daptardar	Level 1 Workshop for Teachers	MSFDA, MSDEED, IISER Pune, Ruia College, Mumbai
4	Mr. Aditya Mhatre	Level 1 Workshop for Teachers	MSFDA, MSDEED, IISER Pune, Ruia College, Mumbai
5	Ms. Sharmin Shaikh	National online FDP on NAAC Framework-2022	Adhyapana, Bengaluru
6	Prin. Dr. Moses Kolet	Understanding and Effectively Applying NEP-2020	University of Mumbai RA DAV College, Mumbai
7	Mrs Priti Jambhulkar (Selection Grade Training) Mrs. Vaishali Mane; Mrs Shubhangi Pimpre; Mrs. Nilam Thakre; Mrs. Kiran Chaudhari; Mrs. Zubeda Khan; Mrs. Bharti Suryawanshi; Mr. Vinod Thorat (Senior Scale Training)	Senior & Selection Grade Training (Online)	State Educational Research and Training Council, Maharashtra
8	Library staff	Knimbus	Dr. V.N. BRIMS
9	Mrs. Devyani Ladhe	University of Mumbai, Board of Sports; Sports Seminar & Workshop	Dilap Institute of Engineering and Management Studies, Neral, Dist Raigad
10	Prin. Dr. Moses Kolet	UGC NEP 2020 Training Workshop on educational Framework for Global Citizenship and Academic Bank of Credits	Online Workshop
11	Mr. Abhijeet Kale	UGC NEP 2020 Training Workshop on educational Framework for Global Citizenship and Academic Bank of Credits	Online Workshop
12	Ms. Ankita Shinde	Training in Cyber Security	Quick Heal Foundation
13	Ms. Rupali Ahire	Training in Cyber Security	Quick Heal Foundation
14	Ms. Asba Ansari	Hands on Training on HPLC	Wilson College (Autonomous)

15	All Heads of Departments, ISO coordinators	ISO 21001 Training session	College
16	Dr. Pralhad Wagh	NSS Planning & Training	University of Mumbai, SST college
17	Ms. Asba Ansari	IP Training Programme	NIPAM, Govt. of India
18	Ms. Nikita Keni	1 <sup>st</sup> Term DLLE Training	DLLE, University of Mumbai
19	Ms. Komal Kadam	1 <sup>st</sup> Term DLLE Training	DLLE, University of Mumbai
20	Ms. Nikita Keni	2 <sup>nd</sup> Term DLLE Training	DLLE, University of Mumbai
21	Ms. Supriya Damle	2nd Term DLLE Training	DLLE, University of Mumbai
22	Prin Dr. Moses Kolet	Seminar on Experiential Learning	Dept. of Commerce, University of Mumbai; N.U. Jain Institute of Career Education
23	Ms. Sharmin Shaikh	Seminar on Experiential Learning	Dept. of Commerce, University of Mumbai; N.U. Jain Institute of Career Education
24	Prin Dr. Moses Kolet	Implementation of NEP 2020	CKT College (Autonomous), New Panvel
25	Dr. Vinda Manjramkar	Implementation of NEP 2020	CKT College (Autonomous), New Panvel
26	7 Teachers: Prin Dr. Moses Kolet; Dr. Vinda Manjramkar; Dr. Kiran Pariya; Dr. Urmila Kumavat; Ms. Sumaiya Shaikh; Ms. Asba Ansari; Ms. Sharmin Shaikh	Higher Education Conclave	Mastersoft, NEETI, University of Mumbai
27	35 Teachers	NEP-2020 Guidance Lecture	VPM's Dr.V.N. BRIMS
28	25 Teachers	Workshop on Calibration of Scientific Instruments	Chiral green, College
29	Mr. Ramchandra Shinde	Seminar on Soft Skills for effective Administration	CKT College (Autonomous) & RUSA
30	Principal, Vice Principal, IQAC coordinator, Criteria In-charges, Heads of Departments	Seminar on NEP 2020: The Way Ahead	University of Mumbai, Joshi-Bedekar College, DAV College
31	Dr. Ujjwala Gokhe;	Seminar	University of Mumbai
32	Lt. Bipin Dhumale	Seminar	University of Mumbai
33	Prin. Dr. Moses Kolet:	Workshop on implementation of NEP-2020	Govt. of Maharashtra; SNDT University

34	Prof Anita Goswami-Giri	Workshop on implementation of NEP-2020	Govt. of Maharashtra; SNTD University
35	Mr. Tejas Jadhav	Workshop on Academic Bank of Credits	University of Mumbai
36	Prin Dr. Moses Kolet	First State Level Workshop on Monitoring of Wetlands	CII, IBBI, MoEF, Godrej
37	Mr. Aditya Mhatre	First State Level Workshop on Monitoring of Wetlands	CII, IBBI, MoEF, Godrej
38	Prof Vinda Manjramkar	Conclave on Technology in Education	Mastersoft
39	Prin Dr. Moses Kolet	Workshop on Career Counselling & Employability Skills	University of Mumbai, Garware Institute of Career Education & Development, American India Foundation
40	Mr. Bipin Dhumale	Workshop on Career Counselling & Employability Skills	University of Mumbai, Garware Institute of Career Education & Development, American India Foundation
41	Ms. Asba Ansari	Workshop on Career Counselling & Employability Skills	University of Mumbai, Garware Institute of Career Education & Development, American India Foundation
42	Ms. Simeen Rumani	Workshop on Career Counselling & Employability Skills	University of Mumbai, Garware Institute of Career Education & Development, American India Foundation
43	Mr. Mohan Galande	Bioinformatics Workshop	Vaze-Kelkar College
44	Ms. Devyani Ladhe	Civil Defence Basic Training	Civil Defence, Govt of Maharashtra, College
45	Lt. Bipin Dhumale	Civil Defence Basic Training	Civil Defence, Govt of Maharashtra, College
46	Ms. Simeen Rumani	Civil Defence Basic Training	Civil Defence, Govt of Maharashtra, College
47	Dr. Vinda Manjramkar	Workshop on NEP	CKT College
48	Dr. Anita Goswami-Giri	Workshop on NEP	CKT College
49	Ms. Ashwini Sawamt	Biology Practical Workshop	K.J. Somaiya College
50	Ms. Devyani Ladhe	District Sports Training Camp	Century Rayon School, Shahad

**Research Projects for staff and students :** Two projects are ongoing as follows:

No	Name	Department	Sanctioning Authority	Amount (Rs)
1	Ms. Sayli Daptardar	Microbiology	Mangrove Foundation of India	400000/-
2	Ms. Kavita Gowda(Mentors Dr. Kalpita Mulye, Dr. Jayashree Pawar)	Biotechnology	WEnyan, Pune Cluster Knowledge, BASF	30000/-

**Books, Research Papers/ Book Chapters published by Members of Staff :** Three books, seven research papers and five book chapters as presented below were published during this academic year.

No.	Name	Title of Book/ Chapter/ Research Paper	Journal/ Book/ Publisher	Year
		<b>Books</b>		
1	Vinda Manjramkar (Joint book author)	Fundamentals of Natural Resource Management (Book)	AGPH Books	2022
2	Vinda Manjramkar (Joint book author)	Soil Conservation and Land Management (Book)	AGPH Books	2022
3	Vinda Manjramkar (Joint book author)	Bioinformatics	Alpha International	2023

**Research Papers**

4	Moses Kolet	Survey of Jnanadweep, VPM's Thane College campus for prominent plants used In traditional Unani system of medicine- I.	JBNB	2022
5	Vinda Manjramkar et al	Lotus plantation and products boost for agro economy	International Journal of Multidisciplinary Research and Technology	2023
6	Vinda Manjramkar and Sudhir Bhosale	The rural transport: An essential need for development	International Journal of Multidisciplinary Research and Technology	2023
7	Anita Goswami et al	Chromatography: A versatile technique for separation	Recent Advances in Analytical Chemistry	2022
8	Kahandal, S.S.	Efficient route for the synthesis of 1,3-dioxolanes catalyzed by sulfated mixed oxides of yttria-zirconia	International Journal of Innovative Science and Research Technology	2023
9	Kahandal, S.S. (joint)	Highly efficient magnetically separable Zn-Ag@l-arginine Fe <sub>3</sub> O <sub>4</sub> catalyst for synthesis of 2-aryl- substituted benzimidazoles and multicomponent synthesis of pyrimidines	Results in Chemistry (Scopus)	2022

10	J.M.Pawar et al	Isolation of agarose digesting <i>Achromobacter</i> sp. And <i>Brevundimonas diminuta</i> using customized earthworm gut as an enrichment system	Journal of Environmental Biology (Scopus)	2023
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**Book Chapters**

11	Anita Goswami et al	Using Biotechnology to produce Fuels based on Biomass	Applications of Environmental Biotechnology for Global Sustainability	2022
12	Anita Goswami et al	Current development application of nano-biopesticides and future perspectives	Applications of Environmental Biotechnology for Global Sustainability	2022
13	Kahandal, S.S.	ICT: A Promising Platform for the Indian Higher Education	Current Trends in ICT and Education, Vol.1.	2022
14	Ms. Sayli Daptardar	The Offbeat Microbe: <i>Caulobacter crescentus</i>	Compendium of Research Insights of Life Science Students, Vol.3	2022
15	Ms. Sayli Daptardar	History of Photosynthesis	Compendium of Research Insights of Life Science Students, Vol.3	2022

**University of Mumbai Youth Festival and UDAAN 2022-23:** Our College hosted the University District Level Youth Festival on 12<sup>th</sup> August 2022, University District Level DLLE Activity Planning Workshop on 29<sup>th</sup> November 2022 followed by the Thane District Level DLLE Udaan festival on behalf of University of Mumbai on 16<sup>th</sup> February 2023. Our college won two prizes in the Udaan event, namely Second Prize in Creative Writing and Consolation Prize in Street Play competitions.

**University Youth Festival and DLLE Udaan:**

Entries sent up for Youth Festival (2022-23)	15 events
Student Participants	15 students
Prizes bagged at District Level 1. Classical Dance Competition 2. Classical Instrumental Music	<b>Second Prize Third Position</b>
Prizes bagged at University Final Level 1. Classical Dance Competition	<b>Consolation Prize</b>
Prize won in UDAAN Festival (2022-23) 1. Creative Writing 2. Street Play	<b>Second Position Consolation Prize</b>

**University of Mumbai Avishkar Research Convention 2022 & 2023:**

Research Projects sent up for the Convention	12 Projects
Student Participants at Zonal Level	25 participants
Guiding Teachers	12 teachers
Prizes won	2 Prizes
First position (Humanities, Languages and Fine Arts) 2021-2022 held in May 2022	Ms. Sayli Malvankar & Ms. Komal Rai; Mentor Teacher Dr. Jayashree Pawar
Consolation Prize (Agriculture and Animal Husbandry) 2021-22 held in May 2022	Ms. Laxmi Parmar, Ms. Sneha Tiwari, Mr. Omkar Singh, & Ms. Damini Mahajan; Mentor Teacher Dr. Anita Goswami-Giri
Research Projects sent up for the Convention 2022-23	10 Projects
Student Participants at Zonal Level	25 participants
Guiding Teachers	8 teachers
Projects selected for Final Round	4 projects
Prizes won	1 Prize
Consolation Prize (Category Commerce, Management & Law) 2022-23 held in January 2023	Ms. Kavita Gowda & Ms. Sanjeeda Islam; Mentor Teacher Prin. Dr. Moses Kolet

**Internships by Students: Seventy seven students** completed their research projects/ internships in various organizations and on various topics of study as follows:

No.	Name	Class	Project	Collaboration
1	Mr. Sushant Shinde	M.Sc. (II) Ev.S.	Survey and analysis of biomedical liquid waste generated at hospitals in Thane and suburban Mumbai, Maharashtra	Rnisarg Foundation
2	Mr. Ashish Sawai	M.Sc. (II) Ev.S.	Survey and analysis of biomedical liquid waste generated at hospitals in Thane and suburban Mumbai, Maharashtra	Rnisarg Foundation
3	Ms. Vijaya Dethe	M.Sc. (II) Ev.S.	Hospital chemical liquid waste management	Rnisarg Foundation
4	Ms. Rohini Zope	M.Sc. (II) Ev.S.	Analysis of water parameters and sediments of Thane creek, Maharashtra	Paryavaran Dakshata Mandal
5	Ms. Shweta Kulkarni	M.Sc. (II) Ev.S.	Study of water quality parameters of Thane-Vasai creek	Paryavaran Dakshata Mandal
6	Mr. Ashish Sawai	M.Sc. (II) Ev.S.	Study of water quality parameters of Thane creek	Paryavaran Dakshata Mandal

7	Mr. Sushant Shinde	M.Sc. (II) Ev.S.	Study of water quality parameters of Thane creek	Paryavaran Dakshata Mandal
8	Mr. Parth Bhoir	M.Sc. (I) Ev.S.	Study of water quality parameters of Thane creek	Paryavaran Dakshata Mandal
9	Mr. Shubham Kale	M.Sc. (I) Ev.S.	Study of water quality parameters of Thane creek	Paryavaran Dakshata Mandal
10	Mr. Gaurav Khule	M.Sc. (II) BWCM	Study of behavioral patterns of butterflies in a private land of Ovalekar Wadi butterfly park, Thane, MH through man made efforts for conservation	Ariv Education Pvt. Ltd.
11	Mr. Omkar Damle	M.Sc. (II) BWCM	A preliminary morpho-cladistic analysis of beetles (Insecta Coleoptera) of Sanjay Gandhi National Park, Mumbai	K.J. Somaiya College, Mumbai
12	Mr. Abhinav Nair	M.Sc. (II) BWCM	Status and role of woodpeckers in mixed flock hunting parties	Kera;a Forest Research Institute
13	Mr. Tejas Mehendale	M.Sc. (II) BWCM	Odonates across salinity gradient	MIT World Peace University, Pune
14	Ms. Samiksha Chavan	M.Sc. (II) BWCM	Study of daily activity pattern of non breeding water migrant Rosey Starling ( <i>Pastor roseus</i> ) in Dombivali, Thane, Maharashtra, India	BNHS Education Conservation Centre
15	Mr. Paarth Wagh	M.Sc. (II) BWCM	Study on the proximity of slender loris occurrences from human habitation in the buffer zone of Bhagwan Mahavir Wildlife Sanctuary	Planet Life Foundation, Goa
16	Mr. Atharva Togattiwar	M.Sc. (II) BWCM	Study the dense structure of White-footed fox and opportunistic denning and burrowing species sharing the same habitat	BNHS
17	Mr. Nikhil Ghadigaonkar	M.Sc. (II) BWCM	Assessment of population of blackbuck ( <i>Antelope cervicapra</i> ) and study of human-blackbuck conflict in Bidar district, Karnataka	BNHS
18	Mr. Pratik Chile	M.Sc. (II) BWCM	Study of avifaunal diversity in ambivali Biodiversity Park	St. John the Baptist Jr. College
19	Mr. Nachiket Ghag	M.Sc. (II) BWCM	Study on House Sparrows of Bhandup West and East, Mumbai suburban	K.J. Somaiya College, Mumbai
20	Mr. Susmit Bole	M.Sc. (II) BWCM	Study of diversity and density of wetland birds in two urban ecosystems of Thane District	-

21	Ms. Shefali Mishra	M.Sc. (II) BWCM	Diversity of butterflies in Thane city	Mangrove Foundation
22	Mr. Chinmay Gundaram	M.Sc. (II) BWCM	Vulture conservation in an area around Mahad	SEESCAP
23	Ms. Mrunali Raut	M.Sc. (II) BWCM	Ovi-position site preference and hatching success in the Indian Golden-backed frog ( <i>Indosylvirane indica</i> )	IISC, Bangalore
24	Ms. Maithili Sawant	M.Sc. (II) BWCM	Understanding the impact of the artificial water source on the native wild life in the buffer zone of Bhagwan Mahavir Wildlife Sanctuary	Planet Life Foundation, Goa
25	Mr. Xavier D'Souza	M.Sc. (II) BWCM	Intertidal faunal diversity of Carter Road rocky shore, Bandra	Coastal Conservation Foundation
26	Ms. Purva Chavan	M.Sc. BWCM	Is spike in pigeon population an (II) under noticed public emergency?	Veermata Jijabai Udyan
27	Mr. Prathamesh Desai	M.Sc. (II) BWCM	Attitude of Indian tourist towards wildlife tourism	K.J. Somaiya College, Mumbai
28	Ms. Anjali Nagre	M.Sc. (II) Ev.S.	Characterization and determination of Beta-Amylase enzyme using <i>Hylocereus undatus</i> and its applications	Project
29	Ms. Aqsa Ahmed	M.Sc. (II) Ev.S.	Fire prevention and protection methods adopted in an industry for handling and storage of hazardous chemical	Project
30	Mr. Ashish Sawai	M.Sc. (II) Ev.S.	Assessment and analysis of hospital liquid waste management in Thane and Suburban Mumbai, Maharashtra	Project
31	Mr. Nikhil Chakor	M.Sc. (II) Ev.S.	Study of physical and chemical water parameters of Masunda Lake and Hariyali Lake in Thane, Maharashtra	Project
32	Ms. Rohini Zope	M.Sc. (II) Ev.S.	Analysis of water parameters and sediment of Thane Creek, Maharashtra	Project
33	Ms. Siddhi Gaikwad	M.Sc. (II) Ev.S.	The effect of different fertilizers on growth and development of <i>Trigonella foenum graecum</i> and <i>Brassica nigra</i>	Project
34	Ms. Siddhishree Gouda	M.Sc. (II) Ev.S.	A survey on biomedical waste disposal awareness and practices among health care personnel at KDAH Hospital in Mumbai	Project

35	Mr. Suraj Nangarekar	M.Sc. (II) Ev.S.	Assessment and study of physico-chemical status and phytoplankton of Masunda and Ambe Ghosale Lake of Thane, Maharashtra	Project
36	Mr. Sushant Shinde	M.Sc. (II) Ev.S.	Survey and analysis of biomedical liquid waste generated at hospitals in Thane and Suburban Mumbai, Maharashtra	Project
37	Ms. Vijaya Dethe	M.Sc. (II) Ev.S.	Bioindicators: Natural indicators of environmental pollution	Project
38	Ms. Aishwarya Kirtane	M.Sc. (II) Ev.S.	Phytoremediation of heavy metals from soil and water using agro-waste	Project
39	Ms. Bhagyashree Borse	M.Sc. (II) Ev.S.	Phytochemical screening of <i>Hibiscus syriacus</i> and <i>Bougainvillea glabra</i>	Project
40	Mr. Rajendra Borkar	M.Sc. (II) Ev.S.	Study on hazardous waste landfill construction and operation	Project
41	Mr. Gaurav Dagale	M.Sc. (II) Ev.S.	Comparison study of chlorophyll content in <i>Polyalthia longifolia</i> from different industrial areas	Project
42	Ms. Jasmin Tadvi	M.Sc. (II) Ev.S.	Phytoremediation of Mercuric Chloride from soil and water using <i>Trigonella foenum graecum</i> and <i>Murraya koenigii</i> leaf extracts	Project
43	Ms. Mayuri Harad	M.Sc. (II) Ev.S.	Survey of carbon footprint with relevance to climate change	Project
44	Mr. Rutik Padte	M.Sc. (II) Ev.S.	Analysis of water quality parameters of Masunda Lake and Hariyali Lake in Thane District	Project
45	Ms. Tejal Jikamade	M.Sc. (II) Ev.S.	An evaluation of fruit waste extracts for phytoremediation of heavy metals from soil and water	Project
46	Ms. Aishwarya Kadam	M.Sc. (II) Ev.S.	Study of anthocyanin as pH indicator from <i>Vitis vinifera</i> and <i>Brassica oleracea</i> L. var capitata f. rubra	Project
47	Ms. Shweta Kulkarni	M.Sc. (II) Ev.S.	Study of water quality parameters of Thane-Vasai creek	Project
48	Ms. Chetana Sharma	Biochem.	Internship	Jupiter Lifeline Hospital
49	Ms. Komal Kamble	Biochem.	Internship	Jupiter Lifeline Hospital
50	Mr. Siddhant Khande	Biochem.	Internship	Jupiter Lifeline Hospital

51	Ms. Bhumika Korpe	Biochem.	Internship	Jupiter Lifeline Hospital
52	Sanilah Vasaikar	Biochem.	Internship	Jupiter Lifeline Hospital
53	Ms. Aparna Jadhav	Biochem.	Internship	Jupiter Lifeline Hospital
54	Ms. Vanshika Agrawal	Biochem.	Internship	Micro Bio Laboratory
55	Ms. Yashashree Bhise	Biochem.	Internship	Precise Analytics Lab. (Meyer Organics Pvt Ltd)
56	Ms. Ashlesha Bhosale	IT/ CS	Internship	Quick Heal Foundation
57	Mr. Shreyas Palkar	IT/ CS	Internship	Quick Heal Foundation
58	Mr. Raj Dhumale	IT/ CS	Internship	Quick Heal Foundation
59	Mr. Aditya More	IT/ CS	Internship	Quick Heal Foundation
60	Ms. Roshni Khalane	IT/ CS	Internship	Quick Heal Foundation
61	Ms. Anam Khan	IT/ CS	Internship	Quick Heal Foundation
62	Ms. Vrushali Adak	IT/ CS	Internship	Quick Heal Foundation
63	Ms. Deepanjli Rajbhar	IT/ CS	Internship	Quick Heal Foundation
64	Ms. Anshu Ojha	IT/ CS	Internship	Quick Heal Foundation
65	Ms. Pooja Patel	IT/ CS	Internship	Quick Heal Foundation
66	Mr. Pranay Kadam	IT/ CS	Internship	Quick Heal Foundation
67	Mr. Vedant Sonavane	IT/ CS	Internship	Quick Heal Foundation
68	Mr. Hrushikeah Mahadik	IT/ CS	Internship	Quick Heal Foundation
69	Mr. Manish Shah	IT/ CS	Internship	Quick Heal Foundation
70	Mr. Sairaj Mane	IT/ CS	Internship	Quick Heal Foundation
71	Ms. Sakshi Sangle	IT/ CS	Internship	Quick Heal Foundation
72	Ms. Purva Pansare	IT/ CS	Internship	Quick Heal Foundation
73	Ms. Honey Thakkar	IT/ CS	Internship	Quick Heal Foundation
74	Ms. Richa Keluskar	IT/ CS	Internship	Quick Heal Foundation
75	Ms. Sarita Gupte	IT/ CS	Internship	Quick Heal Foundation
76	Mr. Pratik Kurkute	IT/ CS	Internship	Quick Heal Foundation
77	Mr. Daksha Pagare	IT/ CS	Internship	Quick Heal Foundation

**Achievements in Inter-College Competitions:** Students, guided by their respective teachers, participated and won laurels in various inter-collegiate academic events. I am happy to mention teams comprising **124 participating students have won 71 prizes and medals in various intercollegiate events**; I congratulate them and their guiding teachers.

**Students Excelling in Inter-College Events**

S.No.	Name	Inter Collegiate Event	Venue	Achievement
1	Ms. Saraswati Yadav	Hindi Poem Writing	Govt. of Maharashtra; Rashtriya Kala Manch	FIRST Prize
2-5	Mr. Prathamesh Warghade; Mr. Kaustubh Patil; Ms. Yashika Thanekar; Mr. Siddhesh Bhondve	Intercollege Makerthon	MES Pillai College of Engineering	FIRST Prize
6	Shravani Koli	Hindi Poem Writing	Govt. of Maharashtra; Rashtriya Kala Manch	SECOND Prize
7	Ms. Sayli Malvankar	University of Mumbai Avishkar Research Convention 2021-22	University of Mumbai	FIRST Prize
8	Ms. Komal Rai	University of Mumbai Avishkar Research Convention 2021-22	University of Mumbai	FIRST Prize
9	Ms. Laxmi Parmar	University of Mumbai Avishkar Research Convention 2021-22	University of Mumbai	Consolation Prize
10	Ms. Sneha Tiwari	University of Mumbai Avishkar Research Convention 2021-22	University of Mumbai	Consolation Prize
11	Mr. Omkar Singh	University of Mumbai Avishkar Research Convention 2021-22	University of Mumbai	Consolation Prize
12	Ms. Damini Mahajan	University of Mumbai Avishkar Research Convention 2021-22	University of Mumbai	Consolation Prize
13	Ms. Kavita Gowda	University of Mumbai Avishkar Research Convention 2022-23	University of Mumbai	Consolation Prize
14	Ms. Sanjeeda Islam	University of Mumbai Avishkar Research Convention 2022-23	University of Mumbai	Consolation Prize
15	Ms. Ankita Bendre	All India Karate Championship 2022, Chhatisgarh Olympic Association	Bilaspur, Chhatisgarh	GOLD Medal
16	Ms. Urja Kudalkar	International Astronomy and Astrophysics Convention 2022	Online	BRONZE Medal
17	Mr. Pranav Gohil	International Astronomy and Astrophysics Convention 2022	Online	BRONZE Medal

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18	Ms. Shlesha Boke	Classical Dance	University of Mumbai Youth Festival District Round	SECOND Prize
19	Mr. Atharva Bagade	Classical Instrumental Percussion	University of Mumbai Youth Festival District Round	THIRD Prize
20	Ms. Shlesha Boke	Classical Dance	University of Mumbai Youth Festival Final Round	Consolation Prize
21	Mr. Parانبir Singh	Boxing	Maharashtra State Boxing Federation State Level Matches, Akola	BRONZE Medal
22	Mr. Harsh Manera	Rifle Shooting	University of Mumbai Sports Competitions (District)	GOLD Medal
23	Mr. Neelkamal Bandagar	Pistol Shooting	University of Mumbai Sports Competitions (District)	GOLD Medal
24	Ms. Sakshi Tambe	Wrestling	University of Mumbai Sports Competitions (District)	GOLD Medal
25	Mr. Pratik Darde	Rifle Shooting	University of Mumbai Sports Competitions (District)	SILVER Medal
26	Mr. Kaustubh Shirke	Judo	University of Mumbai Sports Competitions (District)	SILVER Medal
27	Ms. Amruta Thombare	Wrestling	University of Mumbai Sports Competitions (District)	SILVER Medal
28	Ms. Neha Pawar	Weight Lifting	University of Mumbai Sports Competitions (District)	SILVER Medal
29	Ms. Manasi Gadag	Rifle Shooting	University of Mumbai Sports Competitions (District)	BRONZE Medal
30	COLLEGE	Shooting Championship	University of Mumbai Sports Competitions	THIRD Position
31	Mr. Neelkamal Bandagar	Pistol Shooting	University of Mumbai Sports Competitions (Zonal)	GOLD Medal
32	Mr. Parानveer Singh	Boxing	University of Mumbai Sports Competitions (Zonal)	GOLD Medal

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33	Ms. Sakshi Tambe	Wrestling	University of Mumbai Sports Competitions (Zonal)	SILVER Medal
34	Mr. Neelkamal Bandagar (Team Event)	Pistol Shooting (Team Event)	University of Mumbai Sports Competitions (Zonal)	SILVER Medal
35	Mr. Pratik Darde (Team Event)	Rifle Shooting (Team Event)	University of Mumbai Sports Competitions (Zonal)	SILVER Medal
36	Ms. Manasi Gadag (Team Event)	Rifle Shooting (Team event)	University of Mumbai Sports Competitions (Zonal)	BRONZE Medal
37	Mr. Harshad Pawar	Boxing	University of Mumbai Sports Competitions (Zonal)	BRONZE Medal
38	Mr. Raunak Mali	Boxing	University of Mumbai Sports Competitions (Zonal)	BRONZE Medal
39	Ms. Amruta Thombare	Wrestling	University of Mumbai Sports Competitions (Zonal)	BRONZE Medal
40	Mr. Omkar Chavan	Volley Ball	University of Mumbai Sports Competitions (Zonal)	BRONZE Medal
41	Mr. Harshit Divedi	200 Mtr Running	University of Mumbai Athletics Meet	GOLD Medal
42	Ms. Shraddha Patil	Women's 100 Mtr Running	University of Mumbai Athletics Meet	BRONZE Medal
43	Mr. Aditya V. Bhat	Weight Lifting	University of Mumbai Zonal Round	SILVER Medal
44	Mr. Arif Khan	Weight Lifting	University of Mumbai Zonal Round	BRONZE Medal
45	Mr. Paranveer Singh	Boxing	University of Mumbai Inter-Zonal Round	BRONZE Medal
46	Mr. Shreyas D. Mistry	University of Mumbai & B.K. Birla College Cycling Competition	University of Mumbai; B.K. Birla College (Autonomous)	BRONZE Medal
47	Mr. Rohit Mhatre	Essay Competition	SST College of Arts & Commerce, Ulhasnagar	SECOND Prize
48	Mr. Amol A. Choughule	Elocution Competition	Thane Municipal Corporation	SECOND Prize

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49	Ms. Hooeda Idrisha	Coffee Painting of Home Science (Autonomous)	Dr. B.M.N. College	THIRD Prize
50	Mr. Amol A. Choughule	National Level Drawing Competition	Nirman Pratishthan, Mumbai	Bronze Medal Third Position
51	Ms. Shreya P. Joshi	400 M Running	Govt. DSO Sports Meet	GOLD Medal
52	Mr. Atharva D. Sable	1500 M Running	Govt. DSO Sports Meet	SILVER Medal
53	Mr. Prasad A. Patil	Gymnastics	Govt. DSO Sports Meet	SILVER Medal
54	Ms. Devanshi A. Patil	Skating	Govt. DSO Sports Meet	SILVER Medal
55	Ms. Rishita S. Arenkeri	Kick Boxing	Govt. DSO Sports Meet	SILVER Medal
56	Ms. Shreya P. Joshi	200 M Running	Govt. DSO Sports Meet	BRONZE Medal
57	Mr. Dipraj V. Kachare	800 M Running	Govt. DSO Sports Meet	BRONZE Medal
58-69	12 Boys (Team Event)	Kho-Kho Boys	Govt. DSO Sports Meet	BRONZE Medal
70-79	10 Girls (Team Event)	Kho-Kho Girls	Govt. DSO Sports Meet	BRONZE Medal
80	Mr. Kaustubh S. Patil	Chess	Govt. DSO Sports Meet	Fourth Position
81	Ms. Khushi M. Suvarna	Carrom	Govt. DSO Sports Meet	Fourth Position
82	Ms. Rishita S. Arenkeri	Kick Boxing	State Level Kyodokan Karate Championship	3 Medals
83-93	11 NSS Volunteers	Inter-College Dance Competition	Goonj Utsav of Mehta College	SECOND Prize
94	Ms. Ragini Bhosale	Inter-College Elocution Competition	Satish Pradhan Dnyanasadhana College	Consolation Prize
95	Ms. Ragini Bhosale	Inter-College Elocution Competition	Vasantrao Davkhare Elocution Competition	SECOND Prize
96	Mr. Amol A. Choughule	Inter-College Elocution Competition	Education Dept., Thane Municipal Corporation	SECOND Prize
97	Mr. Sahil Ghadigaonkar	Republic Day Camp and Prime Minister's Rally, New Delhi, 2023	NCC	Participation in RDC and PM Rally
98	Ms. Janhavi Deshmukh	Creative Writing	University of Mumbai DLLE	SECOND Prize in Udaan Festival
99-110	12 student participants	Street Play	University of Mumbai DLLE	Consolation Prize in Udaan Festival
111	Mr. Prasad A. Patil	Artistic Gymnastics	Maharashtra State Level	7 <sup>th</sup> Rank at State Level
112	Ms. Pranoti Joshi	National Micropodium	Micropodium & Micro olympiad	5 <sup>th</sup> Rank at All India Level

113	Mr. Shubham Hazare; Mr. Anas Maniyar	Pravaah Inter College Competitions, Science Exhibition	B.K. Birla College (Autonomous)	FIRST Prize
114-119	6 students	Yuva Utsav, District Level Cultural Event	College 21/3/2023	FIRST Prize
120	1 student	Yuva Utsav, District Level Cultural Event	College 21/3/2023	SECOND Prize
121	Mr. Shubham Yadav	All India Thal Sena Camp	New Delhi 14-25/9/2022	Participated
122	Mr. Suraj Yadav	All India Vayu Sena Camp	Jodhpur 24/9-5/10/22	Participated
123	Mr. Amar Navale	All India Vayu Sena Camp	Jodhpur 24/9-5/10/22	Participated
124	Mr. Chirayu Rane	All India Karate Championship 2022, Chhatisgarh Olympic Association	Bilaspur, Chhatisgarh	BRONZE Medal

**Students trained in multi themed Faculty Development Programmes, workshops and training programmes : 3706** students received training in various skills / activities as follows:

S.No	Name	Course/ Training Workshop	Organization
1	Ms. Ashlesha Bhosale Ms. Sejal Ghadge	Six months Entrepreneurship Development Programme	Rex GBE Services, La Sierra University; Centre of Resource Development for Educators
2	Mr. Rohitsingh Rathod	Civil Defence Courses	Government of Maharashtra; Maharashtra State Civil Defence College
3	200 Cadets	NCC TSC Obstacle crossing Training Session	NCC
4	15 Students	Bridge Course on Laboratory Practices	Botany
5	22 volunteers	VPM Sports activity	VPM Sports Academy
6	Ms. Vrushi Shinde	National Integration Camp	Ministry of Youth Affairs and Sports, Govt. of India; NSS Regional Directorate, Pune; University of Mumbai
7	11 students	Thal Sena Camp, Nasik	NCC
8	6 students	Thal Sena 2 <sup>nd</sup> Camp, Nasik	NCC
9	102 students	Civil Defence Basic Course	Civil Defence, Govt. of Maharashtra, NCC, NSS
10	120 volunteers	Count Down to International Yoga day	Alumni Association
11	300 volunteers	International Day of Yoga	Shri Ambika Yoga Kutir; 1 MAH BN NCC, Rizvi College, Mumbai, NCC, NSS, Yoga Committee

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12	180 students	Scholarships and Grants for Girl Students	Pune Knowledge Cluster; Sc.& Tech. Cluster; WE Gyan, IISER Pune
13	12 students	Workshop on Patriotic Songs	Dr. Sumedha Bedekar, Bedekar High School
14	129 students	Workshop on Translation as a Career Option	College, Alumni Association
15	50 students	Workshop on Transformational Meditation	College, Alumni Association, Yoga Alliance International
16	500 students	Workshop on Yoga and Happiness – The Bhagavad Gita way	College, ISKCON
17	4 volunteers	Workshop on making ecofriendly Rakhi	NSS, Paryavaran Dakshata Mandal; The 4 volunteers then trained 350 School students
18	26 students	Training Course on Cyber Security	IT, CS, Valia college, Quick Heal Foundation
19	Ms. Apurva Rathod	1 <sup>st</sup> Term DLLE Training	DLLE, University of Mumbai, SST College
20	Ms. Pournima Chavan	1 <sup>st</sup> Term DLLE Training	DLLE, University of Mumbai, SST College
21	Mr. Aditya Nikam	1 <sup>st</sup> Term DLLE Training	DLLE, University of Mumbai, SST College
22	Ms. Apurva Rathod	2 <sup>nd</sup> Term DLLE Training	DLLE, University of Mumbai, BNBCS
23	Ms. Iqra Mahimi	2 <sup>nd</sup> Term DLLE Training	DLLE, University of Mumbai, BNBCS
24	Mr. Kaustubh Jadhav	NSS State Level camp	NSS, Shivaji University, Kolhapur
25	30 students	Awareness on Civil services Examinations through visit to CD Deshmukh Institute of Career Development	College
26	150 students	Personality Development and Menstrual Hygiene	P&G
27	20 students	DLLE Workshop	University of Mumbai, DLLE
28	20 Students	Workshop on Waste to Best; Useful Disposal of Chemicals post-expiry date	College, Chemistry, Chiral Green
29	465 Students	Workshops on Financial Awareness	College, CASI
30	Mr. Kaustubh Jadhav	NSS AVHAAN Camp, Jalgaon	NSS
31	Mr. Kaustubh Jadhav	NSS SRD Camp, Mumbai	NSS

32	Ms. Gayatri P. Gaikar, Mr. Shrikant N. Gilbile	Ek Bharat Shreshtha Bharat Camp at Rourkela, Odisha	NCC
33	Mr. Tushar Dalavi	NSS Special Adventure Camp At Chikaldhara	NSS
34	120 volunteers	Road safety Awareness Programme	NCC, NSS
35	280 students	Awareness on Civil services Examinations	NCC, NSS
36	475 students	Central Public Administration	FYBSc
37	180 students	Cyber Suraksha	College; Quick Heal Foundation
38	Mr. Shubham Yadav	NCC BLC at Amravati	NCC
39	Mr. Sahil Ghadigaonkar	NCC Republic Day Camp, PM Rally, Post- RDC	NCC
40	65 students	Study visit to Mahim Nature Park	MNP
41	24 students	The truth about Plastics	US Consulate
42	22students	Mangrove training	Godrej Mangrove Foundation
43	5 students	Field study: Collection & analysis of water samples	Paryavaran Dakshata Mandal
44	351 students	Basic Course in Yoga	Shri Ambika Yoga Kutir, Yoga Committee
45	Mr. Shreyas Salunkhe Ms. Nikita Waghule	Programme in Nehru Science Centre, Mumbai	Maharashtra Career Portal, Zilla Parishad, Thane
46	10 students	Career Counselling Workshop in College	University of Mumbai
47	35 students	Career Counselling Workshop in College	University of Mumbai
48	8 students	Bioinformatics Workshop	Vaze-Kelkar College

#### **Annual Prize Distribution Ceremony :**

Last academic year's prize distribution ceremony was held on 10/5/2022. Dr Vijay Bedekar, Chairman of Vidya Prasarak Mandal, Thane and Mrs. Sumedha Bedekar were our Chief Guests for the occasion. Dr. Nitin Joshi, Director. Dr. V.N. BRIMS was our Guest of Honour. All academic and endowment prizes were distributed. College Annual Magazine *Sanyuja* 2021-22 was released during the occasion.

#### **Convocation (Degree Distribution) Ceremony :**

Degree Distribution ceremony was held on 20<sup>th</sup> April 2023. Shri T.P. Bendre, Treasurer, VPM Thane, Dr. Sudhakar Agarkar Former Senior Professor, TIFR & Member, VPM Thane, and Prin. Dr. Moses Kolet handed over degree certificates to graduates. This was the second degree distribution function under autonomy.

Degree Distribution ceremony for library courses conducted by YCMOU was organized on 10<sup>th</sup> March 2023. Prin. Dr. Moses Kolet and Course Coordinator Ms. Kadambari Manjrekar distributed degree certificates to the young graduates and motivated them. The Library department had efficiently organized this ceremony which was appreciated by the young graduates. This was the first time degree distribution ceremony has been organized at our YCMOU centre.

**International Women's Day Celebration:**

The International Women's day was celebrated on 8<sup>th</sup> March 2023. WDC team had invited officials from State Bank of India for awareness on security through investment opportunities. 102 women achievers were felicitated by the college on this day.

**New Links Established: Ninety three** new links were established during the year as depicted below:

No.	Institution/ Organization	Nature of Association
1	Ministry of Youth Affairs and Sports, Govt. of India	NCC and NSS activities
2	Civil Defence Organization, Govt. of Maharashtra	Training activities, Disaster Management
3	District Civil Hospital	Blood Donation Drives, Motivation
4	KEM Hospital, Mumbai	Invited Speaker
5	Kai. Wamanrao Oka Blood Bank, Thane	Blood Donation
6	Dr. Bedekar Hospital, Thane	Blood Donation, Medical Emergencies
7	QRT, Thane Police	Awareness, Motivation
8	Regional Transport Authority	Road Safety Awareness
9	University of Mumbai	Academic, Training, Curricular, Co-curricular & Extra-curricular Activities
10	YCMOU	Academic activities
11	NCC Organization	NCC Activities & Social Work
12	NSS Organization	NSS Activities & Social Work
13	DLLE	Life Long Learning Activities
14	MSFDA	Staff Training Courses
15	State Educational Research and Training Council, Maharashtra	Staff Training
16	Nehru Yuva Kendra, Ministry of Youth Affairs and Sports	Yuva Utsav
17	District Skill Development, Emp.& Entrepreneurship Guidance	Interaction
18	Thane Municipal Corporation	Educational and Social Activities
19	Pollution Control Dept., TMC	Academic Activities
20	Trans Thane Creek Waste Management Association	Effluent Analysis

21	Common Effluent Treatment Plant	Study Visits
22	TMC's C.D. Deshmukh Institute of Career Guidance	Awareness and Guidance on Civil Service Examinations
23	WEnyan	Women's Scholarship
24	YMT Ayurvedic Medical College, Navi Mumbai	Colloquium Lecture Speaker
25	DGET's College of Education, Thane	DLLE interaction, NAAC mentorship
26	Dr. V.N. BRIMS	MoU partner, NEP related lectures
27	KB College, Thane	Hindi Divas
28	MD College, Mumbai	Conference
29	St. Xavier's College (Autonomous), Mumbai	MoU
30	Vaze- Kelkar College (Autonomous), Mumbai	MoU, Sanskrit Divas, Interviews & examinations related
31	Vivek College of Commerce	Entrepreneurship Training
32	Wilson College (Autonomous)	Workshop, Training activity
33	Satish Pradhan Dnyanasadhana College	Competitions, Events
34	La Sierra University, USA	Entrepreneurship Training
35	Centre of Resource Development for Educators	Entrepreneurship Training
36	NSS Regional Directorate, Pune	NSS Training Camp
37	State Bank of India	National Conference, Financial Awareness
38	HDFC Bank	Blood Donation Drive
39	Parle Agro Pvt. Ltd. Management Course	Food Adulteration and Quality
40	ISKCON	Workshop on Yoga and Happiness; Food Preservation Course
41	P&G	Personal Hygiene Seminar
42	Million Minds	Personal Hygiene Seminar
43	Marshalls Foundation	Entrepreneurship
44	GESA Group of Companies	Educational Interaction
45	Saka! Publications	Student Leadership Activities
46	Quick Heal Foundation	Student Support Scheme, Cyber Safety Awareness
47	Godrej Mangrove Department	Mangrove Awareness Activities
48	Maharashtra State Angling Association	MoU Partner; Lake Conservation Awareness

49	Lok Raj Sangathan	MoU Partner, Workshop
50	Chiral Green	Workshop
51	Career Katta Maharashtra	Session, Online Guidance
52	Jan Kalyan Samiti	Disaster management Training, Blood Donation
53	Ornate Technologies	Social Activities
54	Sutherland Placements	Placement activity
55	CASI Global, New York	Awareness, Motivational activities
56	Lion's Club	Blood donation, Diabetes Awareness Camp
57	Rotary Club of Bombay	Entrepreneurship Event
58	India Advantage	Awareness, Motivational activities
59	NGO Sangath, New Delhi	Workshop on Suicide Prevention
60	Hirali Foundation, Ulhasnagar	No Honking Drive
61	Shri Ambika Yoga Kutir	Yoga Courses and activities
62	Sobati, Rakhi made by specially challenged children	Raksha Bandhan
63	Shiv Shanti Pratishthan	Tree Plantation
64	Yoga Alliance International	Workshop
65	Suraksha India	Safety related training to staff
66	Dr. Babasaheb Ambedkar Nashabandi Mandal, Maharashtra	Inter-College Street Play Competition
67	VPM's Council of Senior Scientists	Certificate Course
68	Vana Shakti	Mangroves Cleanliness Drive
69	Mentor Together	Mentorship
70	CiiA	Entrepreneurship
71	Marshalls Foundation	Entrepreneurship
72	Paryavaran Dakshata Mandal	Conservation activities
73	Junglehike	EvS, BWCM, conservation activities
74	Syamantak University of Life	Conservation activities
75	Vanashakti	Conservation activities
76	BNHS	Conservation activities, Internship

77	BNHS-ENVIS	Sensitization Programme on Reintroduction of the Cheetah in India
78	Rnisarg Foundation	Internship
79	Ariv Education Pvt. Ltd	Internship
80	K.J. Somaiya College	Internship
81	Kerala Forest Research Institute	Internship
82	MIT World Peace University, Pune	Internship
83	BNHS Education Conservation Centre	Internship
84	Planet Life Foundation, Goa	Internship
85	St. John the Baptist Jr. College	Internship
86	Mangrove Foundation	Internship
87	NGO SEESCAP	Internship
88	IISC, Bangalore	Internship
89	Coastal Conservation Foundation	Internship
90	Veermata Jeejabai Udyan, BMC	Internship
91	Thane Citizen's Foundation	Cleanliness Drive
92	Pune Cluster Knowledge	Research Scholarship
93	BASF	Research Scholarship

**Eminent Personalities visiting our college during the current Academic Year:**

**Over 341** eminent personalities visited our college in person during the year as mentioned:

No.	Eminent Personality	Designation	Date	Occasion
1	Shri Mahesh Chilakwad	Ex- Director, BIS	29/4/2022	ISO certification
2	Dr. M. Kejriwal	Researcher	28/5/2022	Academic
3	Shri Hemant Karkhanis	Asso. Manager, Godrej Mangrove Dept.	6/6/2022	World Mangrove Day
4	Expert Committee	YCMOU Expert Committee	6/6/2022	Review of Courses
5	Shri. S. Kindo	Central Observer for Competitive Examinations	5/6/2022	Central Competitive Examinations
6	Shri Rajesh Narvekar	District Collector	6/6/2022	Shiv Rajyabhishek Sohala Din
7	Dr. Vijay Bedekar	Chairman, VPM, Thane	6/6/2022	Shiv Rajyabhishek Sohala Din
8	Shri Abhay Marathe	Secretary, VPM, Thane	6/6/2022	Shiv Rajyabhishek Sohala Din

9	Shri Uttam Joshi	Jt. Secretary, VPM Thane & Chairman, TBSB	6/6/2022	Shiv Rajyabhishek Sohala Din
10	Shri T.P. Bendre	Treasurer, VPM, Thane	6/6/2022	Shiv Rajyabhishek Sohala Din
11	Mrs. Swati Indulkar	Film Maker, Indian Military History	6/6/2022	Shiv Rajyabhishek Sohala Din
12	ACP Shri Raju Patil	Head, QRT, Thane	6/6/2022	Shiv Rajyabhishek Sohala Din
13	Ms. Dnyanada Kadam	Adm. Officer, JD HE Office, Panvel	6/6/2022	Shiv Rajyabhishek Sohala Din
14	Dr. Nitin Joshi	Director, Dr. V.N. BRIMS	6/6/2022	Shiv Rajyabhishek Sohala Din
15	Dr. Suchitra Naik	Principal, Joshi-Bedekar College	6/6/2022	Shiv Rajyabhishek Sohala Din
16	Dr. Srividhya Jayakumar	Principal, VPM's TMC Law College	6/6/2022	Shiv Rajyabhishek Sohala Din
17	Mr. Sanjay Athavale	President, Anubandh Alumni Asso.	6/6/2022	Shiv Rajyabhishek Sohala Din
18	Mr. Umesh Lalit	Secretary, Anubandh Alumni Asso.	6/6/2022	Shiv Rajyabhishek Sohala Din
19	Mr. Tamhankar	CD Trainer	7-11/6/2022	CD Basic Course
20	Mr. Ajit B. Karbhari	Nehru Yuva Kendra	7-11/6/2022	CD Basic Course
21	Mr. Vijay B. Jadhav	Dy. Controller. CD, Navi Mumbai Complex, Thane	7/6/2022; 11/6/2022	CD Basic Course
22	Mr. Sanjay Kelkar	MLA	11/6/2022	Interaction, CD Course
23	Mrs. Bapat	Jan Kalyan Samiti	11/6/2022	CD Valedictory Function
24	Mrs Vaishali Parker	Pollution Control Department, TMC	20/6/2022	Visit
25	Dr. R.P. Athalye	Yoga Guru, Shri Ambika Yoga Kutir	21/6/2022	International Day of Yoga
26	Shri Kaustubh Dalvi	Yoga Guru, Shri Ambika Yoga Kutir	21/6/2022	International Day of Yoga
27	Mrs. Manasi	Yoga Guru, Shri Ambika Yoga Kutir	21/6/2022	International Day of Yoga
28	Dr. G.P. Murthy	Dr. V.N. BRIMS	22/6/2022	NEP-2020 Lecture
29	Ms. Anupama Harshal	IISER, Pune	24/6/2022	Awareness Seminar
30	Mr. Girish G. Bane	Inspector, Anti-Narcotics Cell	25/6/2022	Anti-Narcotics Awareness
31	Mr. Vikas B. Suryavanshi	Crime Branch, Thane	25/6/2022	Anti-Narcotics Awareness
32	Ms. Simran Pawar	Social Worker	25/6/2022	Anti-Narcotics Awareness
33	Ms. Varsha Pawar	Guest Visitor	25/6/2022	Anti-Narcotics Awareness

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34	Ms. Shweta Pawar	Guest Visitor	25/6/2022	Anti-Narcotics Awareness
35	Ms. Geeta Gotur-Venkatesh	Alumni, Educator	27/6/2022	Student Interaction
36	Ms. Monika Deshpande	HOD, Joshi Bedekar College	29/6/2022	Statistics Day Event
37	Mrs. Nadgouda	Faculty, Joshi Bedekar College	29/6/2022; 30/6/2022	Statistics Day Event; Interviews
38	Ms. Sheetal Chabukswar	Faculty, Joshi Bedekar College	29/6/2022	Statistics Day Event
39	Mr. Ganesh Patil	Manager, SBI	29/6/2022	SBI Event
40	Dr. Ajit Kengar	HOD, Vaze-Kelkar College	30/6/2022	Interviews
41	Mrs. Doiphode	Faculty, Joshi-Bedekar College	30/6/2022	Interviews
42	Sub. Maj. Amrute	SM, 1 MAH. BN NCC	30/6/2022	Visit
43	Mr. R. Srinivasan	Speaker, Finance	1/7/2022	Financial Literacy
44	Mr. T.P. Bendre	Treasurer, VPM, Thane	1/7/2022	SBI Foundation Day Event
45	Mr. Ganesh Patil	Manager, SBI	1/7/2022	SBI Foundation Day Event
46	Mr. Sriram B. Iyengar	SBI, Wagle Circle	1/7/2022	SBI Foundation Day Event
47	Mr. Atul Gudade	Marketing Manager, SBI	1/7/2022	SBI Foundation Day Event
48	Mr. Pradipta Kumar Pradhan	Regional General Manager, SBI	1/7/2022	SBI Foundation Day Event
49	Mr. Mukulanand N. Gurjar	SBI, Wagle Circle	1/7/2022	SBI Foundation Day Event
50	Mrs. Bhakti S.P.	SBI, Wagle Circle	1/7/2022	SBI Foundation Day Event
51	Mrs. Sangita Dixit	Faculty, Joshi-Bedekar College	1/7/2022	SBI Foundation Day Event
52	Mr. Narendra Gole	VPM Council of Senior Scientists	8/7/2022	Workshop
53	Dr. Nitin Patankar	Diabetologist	9/7/2022	Diabetes Awareness Camp
54	Lion Manish Ladage	Lion's Club District Governor	9/7/2022	Diabetes Awareness Camp
55	Lion Ms. Tanuja	Lion's Club District Governor	9/7/2022	Diabetes Awareness Camp
56	Lion Anagha Gandhi	Lion's Club	9/7/2022	Diabetes Awareness Camp
57	Dr. Santosh Kadrekar	Director, Pharma Quality Institute	9/7/2022	Diabetes Awareness Camp
58	Mr. Hemant Karkhanis	Alumni; Godrej Mangrove Foundation	9/7/2022	Zoology Club
59	Dr. Dilip Patil	Principal, NKTT College, Thane	12/7/2022	Academic Audit
60	Dr. Anushree Lokur	Principal, Ruia College (Autonomous), Mumbai	12/7/2022	Academic Audit
61	Dr. Gajanan Wader	Principal, Pillai College (Autonomous), New Panvel, Dist. Raigad	12/7/2022	Academic Audit

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62	Dr. S.V. Phadnis	Principal, Menon College, Mumbai	12/7/2022	Academic Audit
63	Dr. Pradnya Prabhu	Principal. K.J. Somaiya College of Science & Commerce (Autonomous), Mumbai	12/7/2022	Academic Audit
64	Dr. Suchitra Naik	Principal, Joshi-Bedekar College	12/7/2022	Academic Audit
65	Dr. Nitin Joshi	Director, Dr. V.N. BRIMS	12/7/2022	Academic Audit
66	Shri Uttam Joshi	Jt. Secretary, VPM Thane	12/7/2022	Academic Audit
67	Shri T.P. Bendre	Treasurer, VPM Thane	12/7/2022	Academic Audit
68	Shri Jayant Kayal	Member Managing Committee	12/7/2022	Academic Audit
69	Shri Aniruddh Joshi	Member Managing Committee	12/7/2022	Academic Audit
70	Mr. Amit Basu	Entrepreneur	13/7/2022	Guru Pournima
71	Mr. Kishor Pardeshi	Entrepreneur	13/7/2022	Guru Pournima
72	Mrs. Sunanda Revandkar	Educator (Retd.)	13/7/2022	Guru Pournima
73	Mrs. K.V. Parvathi	Educator (Retd.)	13/7/2022	Guru Pournima
74	Mrs. Savithri Ramchandran	Educator (Retd.)	13/7/2022	Guru Pournima
75	Mrs. Tejinder KaurAnand	Educator (Retd.)	13/7/2022	Guru Pournima
76	Mr. Sanjay Athavale	President, Alumni Association	13/7/2022	Guru Pournima
77	Mr. Raju Jadhav	TMC	15/7/2022	Survey
78	Mr. Kamlakar Koli	Active Member, Koli Samaj	16/7/2022	Courtesy Visit
79	Mr. Amresh Thanekar	Secretary, Koli Samaj	16/7/2022	Courtesy Visit
80	Adv. Mayuri Khare	Advocate, Alumni	16/7/2022	Interaction
81	Ms. Anisha Iyer	Conservation Officer, Wildlife SOS	18/7/2022	Webinar
82	Dr. Sanjay Gupta	Speaker	19/7/2022	Colloquium Lecture
83	Mrs. Sugandha Dani	Quick Heal Foundation	21/7/2022	State Level Event
84	Mr. Jagdish Makwana	Gandhian Thoughts	23/7/2022	Gandhian Thoughts Event
85	Mr. Mahesh Chilakwad	Former Director, BIS	25/7/2022	ISO related visit
86	Mr. Varad Giri	Head Scientist, Reliance Foundation	25/7/2022	Invited Lecture
87	Dr. Prasad Karnik	Alumni Association; Vice President, Paryavaran Dakshata Mandal	26/7/2022	World Mangrove Day
88	Ms. Sangita Joshi	Paryavaran Dakshata Mandal	26/7/2022	World Mangrove Day
89	Sub. S. G. Fakruddin	Indian Army, 1 MAH. BN NCC	26/7/2022	Kargil Vijay Divas & Blood Donation

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90	CHM S.K. Bhujel	Indian Army, 1 MAH. BN NCC	26/7/2022	Kargil Vijay Divas & Blood Donation
91	Mr. Mohan Upadhyay	Sea Turtle Conservationist	28/7/2022	Invited Lecture
92	Dr. Sudhakar Agarkar	Dean, VPM Inst. of Research	28/7/2022	Invited Lecture
93	Mr. Tejas Kadam	Alumni	2/8/2022	Interaction
94	Dr. Urukrama Gauranga Dasa Prabhuji	Youth Mentor, Life Coach, ISKCON HKM, Mumbai	3/8/2022	Workshop
95	Dr. Yashwant Shitole	Chairman, Maharashtra Info. Tech. Centre	4/8/2022	Interaction
96	Mr. Belwalkar	Kai. Wamanrao Oka Rakta Pedhi	10/8/2022	Memento presentation
97	Mrs. Walavalkar	Kai. Wamanrao Oka Rakta Pedhi	10/8/2022	Memento presentation
98	Dr. Nilesh Sawe	Cultural Coordinator, University of Mumbai	12/8/2022	University Youth Festival
99	Dr. Anjali Deshpande	District Coordinator, Youth Fest.	12/8/2022	University Youth Festival
100	Dr. Archana Prabhudesai	Co-coordinator, Youth Festival	12/8/2022	University Youth Festival
101	Mr. Abhay Joshi	Panel Judge	12/8/2022	University Youth Festival
102	Ms. Minakshi Oswal	Panel Judge	12/8/2022	University Youth Festival
103	Ms. Manasi Wadhavkar	Panel Judge	12/8/2022	University Youth Festival
104	Mr. Arvind Upadhye	Panel Judge	12/8/2022	University Youth Festival
105	Mr. Dilip Gadkari	Panel Judge	12/8/2022	University Youth Festival
106	Ms. Asmita Pande	Panel Judge	12/8/2022	University Youth Festival
107	Ms. Jyoti Tipnis	Panel Judge	12/8/2022	University Youth Festival
108	Ms. Vibha Kale	Panel Judge	12/8/2022	University Youth Festival
109	Mr. Rahul Meshram	Panel Judge	12/8/2022	University Youth Festival
110	Mr. Kaustubh Savarkar	Panel Judge	12/8/2022	University Youth Festival
111	Dr. Vijay Bedekar	Chairman, VPM, Thane	15/8/2022	Independence Day
112	Mr. Abhay Marathe	Secretary, VPM, Thane	15/8/2022	Independence Day
113	Mr. Jayant Kayal	Member, VPM, Thane	15/8/2022	Independence Day
114	Dr. Mahesh Bedekar	Member, VPM, Thane	15/8/2022	Independence Day
115	Mr. Ashutosh Sali	District Skill Development, Emp.& Entrepreneurship Guidance; Ministry of Labour & Emp.; Maharashtra State Innovation Society	17/8/2022	Interaction; Awareness drive on entrepreneurship
116	Dr. Sudhakar Agarkar	Dean, VPM Institute of Foreign Studies	25/8/2022	Innovation Corner

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117	Mr. Rajesh Gadgil	Senior Estate Agent & Alumni	26/8/2022	Gymkhana Activity
118	Mr. Sandeep Palve	<i>Saka!</i> Group of Publications	26/8/2022	Leadership Activity
119	Ms. Anushree Tambe	Alumnus	27/8/2022	Workshop
120	Ms. Madhuri Mhatre	Election Department Official	30/8/2022	New Voter Registration
121	Ms. Chandrika Palan	Election Department Official	30/8/2022	New Voter Registration
122	Ms. Minal Shirsat	Election Department Official	30/8/2022	New Voter Registration
123	Ms. Rohini Kadam	Election Department Official	30/8/2022	New Voter Registration
124	Ms. Tanaya Kulkarni	Election Department Official	30/8/2022	New Voter Registration
125	Ms. Sangeeta Deshmukh	Election Department Official	30/8/2022	New Voter Registration
126	Ms. Shruti Tolkar	Election Department Official	30/8/2022	New Voter Registration
127	Ms. Pragya Patil	Election Department Official	30/8/2022	New Voter Registration
128	Mr. Aniket Dawale	Election Department Official	30/8/2022	New Voter Registration
129	Ms. Clara Correia	Alumnus, Friend of Environment	3/9/2022	Walk with the Butterflies
130	Mr. Shabaaz Shaikh	Director, GESA	6/9/2022	Courtesy Visit
131	Sub. S. G. Fakruddin	Indian Army, NCC	6/9/2022	Personality Development
132	CHM S.K. Bhujel	Indian Army, NCC	6/9/2022	Personality Development
133	Ms. Manisha Pradhan	Pollution Control Dept., TMC	7/9/2022	Clean Air Movement
134	Mr. Raju Jadhav	Pollution Control Dept., TMC	7/9/2022	Clean Air Movement
135	Ms. Sanchita Kadlag	Pollution Control Dept., TMC	7/9/2022	Clean Air Movement
136	Ms. Renuka	Quick Heal Foundation	8/9/2022	Collaborative Event
137	Mr. Narendra Bedekar	Media	10/9/2022	Courtesy Visit, Video shots
138	Mr. Nandkishor Dudhe	BNHS, Mumbai	13/9/2022	Interaction
139	Mr. Karan Dabholkar	BNHS, Mumbai	13/9/2022	Interaction
140	Dr. Kailash Pawar	Civil Surgeon, Thane District	15/9/2022	Motivational lecture
141	Mr. Ratan Lokhande	Stores Officer, VSSR, Thane Dist.	15/9/2022	Inaugural event
142	Shri Vinod Joshi	Psychiatry Dept, VSSR, Thane	15/9/2022	Inaugural event
143	Mr. Stalin, D.	Director, Vanashakti	17/9/2022	Conservation activities
144	Mr. Mohammad Shaikh	Trustee, Syamantak Institute	17/9/2022	Conservation activities
145	Ms. Clara Correia	Co-founder, Junglehike	17/9/2022	Conservation activities
146	Ms. Sonali Parab	University of Life	17/9/2022	Conservation activities
147	Mr. Mandar Sutar	Friend of Environment	17/9/2022	Conservation activities
148	Ms. Shubhada Phatak	Educationist & Singer	17/9/2022	Swaranjali

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149	Mr. Sohail Ansari	Singer	17/9/2022	Swaranjali
150	Mr. Uttam Joshi	Jt. Secretary, VPM, Thane	17/9/2022	Swaranjali
151	Mr. T.P. Bendre	Treasurer, VPM, Thane	17/9/2022	Swaranjali
152	Dr. Sudhakar Agarkar	Dean, VPM Institute of Foreign Studies	17/9/2022	Swaranjali
153	Ms. Shaila Mane	Educationist	17/9/2022	Swaranjali
154	Ms. Nargund	Alumnus	17/9/2022	Swaranjali
155	Mr. Nachiket Kolhatkar	Guest	17/9/2022	Swaranjali
156	Mr. Sanjay Athavale	President, Anubandh Alumni Asso.	17/9/2022	Swaranjali
157	Mr. P.N. Singh	Lion's Club of Vikroli	12/9/2022	First Aid Equipment
158	Mr. Mahesh Chilakwad	Former Director, BIS	19/9/2022	Training
159	Mr. Jayant Kayal	Member, VPM, Thane	21/9/2022	Interviews
160	Adv. Jyotsna Banale	Invited Speaker	21/9/2022	Guest Lecture
161	Baldevkrishan Sharma	Senior Entrepreneur, Founder Chairman, Marshalls Foundation	22/9/2022	Entrepreneurship event
162	Dr. A.P. Jayaraman	Chairman, NCSC, former Nuclear Scientist, Member, Academic Council of BNBCS	22/9/2022	Entrepreneurship event
163	Mr. Yashwant Datey	Rotarian, Rotary Club Bombay Worli	22/9/2022	Entrepreneurship event
164	Mr. Quresh Kharachiwala	Rotarian, Rotary Club Bombay Worli	22/9/2022	Entrepreneurship event
165	Ms. Mona Menon	Director, CEO, Marshalls	22/9/2022	Entrepreneurship event
166	Mr. Ajay Soni	Member, Selection Committee, CiiA	22/9/2022	Entrepreneurship event
167	Ms. Poonam Chauhan	Member, Selection Committee, CiiA	22/9/2022	Entrepreneurship event
168	Mr. Jayesh Khade	CiiA Mission Ambassador	22/9/2022	Entrepreneurship event
169	Mr. Jitendra Sakpal	CiiA Mission Ambassador	22/9/2022	Entrepreneurship event
170	Mr. Krishna Kumar	CiiA Faculty	22/9/2022	Entrepreneurship event
171	Mr. Harshal Gawde	CiiA Faculty	22/9/2022	Entrepreneurship event
172	Ms. Amandeep Kaur	CiiA Faculty	22/9/2022	Entrepreneurship event
173	Mr. Fawale Clement	Student Ambassador	24/9/2022	NSS Foundation Day
174	Ms. Sana Kuwari Olajide	Volunteer felicitated by University of Mumbai	24/9/2022	NSS Foundation Day
175	Dr. Jayant Bandekar	Former Head, Food Irradiation Div., BARC, Mumbai	27/9/2022	Invited Speaker

## SANYUJA 2022-23

176	Dr. (Mrs.) Marathe	Former Scientist, BARC, Mumbai	27/9/2022	Invited Guest
177	Shri Jayant Kayal	Former Scientist, BARC,; Member, VPM	27/9/2022	Invited Guest
178	Mr. Hanif Shaikh	Educationist, Invited Guest	27/9/2022	Hindi Divas
179	Mr. Singh	Invited Guest	27/9/2022	Hindi Divas
180	Dr. Jai Kiran Keni	Director, YMT Ayurveda Medical college	28/9/2022	Colloquium Lecture
181	Dr. Sudhakar Agarkar	Dean, VPM Institute of Foreign Studies	29/9/2022	Innovation Corner Event
182	Dr. Shilpa Verekar	Head, CQA Laboratory Parle- Agro Pvt. Ltd.	1/10/2022	Credit Course
183	Dr. Tejashree Bhalerao	Invited Speaker	1/10/2022	Inauguration of Dept. Club
184	Mr. Akshay Mandavkar	Invited Speaker	4/10/2022	Invited Talk
185	Ms. Komal Patil	Mentor Together	15/10/2022	Mentorship Orientation
186	Mr. Subhash Khatri	Alumnus, Invited Speaker	15/10/2022	Skill Lecture
187	Dr. Surendra Dighe	Managing Trustee, Jidnyasa	23/10/2022	Workshop
188	Dr. Mahesh Bedekar	Member , VPM Thane	23/10/2022	Workshop
189	Shri Jayant Kayal	VPM Council of Senior Scientists	12/11/2022	QAC Meeting
190	Shri Mukund Darbhe	VPM Council of Senior Scientists	12/11/2022	QAC Meeting
191	Shri Jakati	VPM Council of Senior Scientists	12/11/2022	QAC Meeting
192	Dr. Vaishali Somani	Faculty, MD College, Mumbai	12/11/2022	QAC Meeting
193	Mr. Girish Dandige	Thane Smart City Project	14/11/2022	Awareness
194	Ms. Aditi Madhavan	Faculty, Vaze College, Mumbai	15/11/2022	Sanskrit Divas
195	Dr. Vishwas Joshi	Biotechnologist, Chiral Green	19/11/2022	Visit
196	Ms. Simran Gohil	P&G	22/11/2022	Seminar
197	Dr. Vishwas Joshi	Biotechnologist, Chiral Green	22/11/2022	Workshop
198	Dr. Kailash Pawar	Civil Surgeon, Thane District	24/11/2022	Blood Donation
199	Dr. Mahesh Bedekar	Member, VPM, Thane	24/11/2022	Blood Donation
200	Mr. Mahesh Kamath	Asst. Vice President, HDFC Bank	24/11/2022	Blood Donation
201	Ms. Sunita Palan	Manager, HDFC Bank	24/11/2022	Blood Donation
202	Ms. Sonal Saxena	Dy. Manager, HDFC Bank	24/11/2022	Blood Donation
203	Mr. Sharad Lonare	Dy. Manager, HDFC Bank	24/11/2022	Blood Donation

## SANYUJA 2022-23

204	Mr. Nilesh Ghogale	Dy. Manager, HDFC Bank	24/11/2022	Blood Donation
205	Mr. Sushil Redy	Sr. Officer, HDFC Bank	24/11/2022	Blood Donation
206	Mr. M. Dilip	Sr. Officer, HDFC Bank	24/11/2022	Blood Donation
207	Mr. Rajendra Talekar	Sr. Officer, HDFC Bank	24/11/2022	Blood Donation
208	Mr. Devratan Daga	Lion's Club	24/11/2022	Blood Donation
209	Mr. Sushil Saxena	Lion's Club	24/11/2022	Blood Donation
210	Mr. P.N. Singh	Lion's Club, Vikroli	24/11/2022	Blood Donation
211	Mr. Ashok Jadhav	Lion's Club, Palava City	24/11/2022	Blood Donation
212	Mr. M. Ramsevak	Lion's Club	24/11/2022	Blood Donation
213	Mr. Rajesh Ballamwar	Lion's Club	24/11/2022	Blood Donation
214	Mr. Setu Madhavan	Lion's Club	24/11/2022	Blood Donation
215	Mr. Chandrakant Haware	Lion's Club, Vikroli	24/11/2022	Blood Donation
216	Mr. S.Tiwari	President, Leo Club, Kanjur	24/11/2022	Blood Donation
217	Mr. Francil almeida	President, Lion's Club, Pokhran	24/11/2022	Blood Donation
218	Mr. Mahadev Jagtap	Member, University Senate	24/11/2022	Blood Donation
219	Mr. Sanjay Athavale	President, Alumni Asso.	24/11/2022	Blood Donation
220	Dr. Manisha Acharya	HOD, Mathematics, MD College	26/11/2022	Pre-Conference Workshop
221	SM Amrute	SM, Indian Army, NCC	27/11/2022	NCC Day
222	Sub. S. G. Fakruddin	Indian Army, NCC	27/11/2022	NCC Day
223	Mr. Samuel Daniel	Senior Pharma Manager	28/11/2022	Career Guidance
224	Mr. Rajesh Gadgil	President, National Realators Asso.	28/11/2022	Career Guidance
225	Mr. Suhas Patil	Career Guide, Mentor	28/11/2022	Career Guidance
226	Capt. Chandrashekhar	Ex. Indian Army	28/11/2022	Career Guidance
227	Mr. Sanjay Athavale	Director, Budokan Institute	28/11/2022	Career Guidance
228	Dr. Mahadev Jagtap	Director, CD Deshmukh Institute of Career Guidance	28/11/2022	Career Guidance
229	Mr. Sharad Apte	Invited Speaker, Ornithologist	28/11/2022	Workshop
230	Dr. Mandar Bhanushe	Head, Dept. of Sc. & Tech., IDOL, University of Mumbai	29/11/2022	DLLE Event
231	Dr. Kunal Jadhav	Director, DLLE	29/11/2022	DLLE Event
232	Dr. Vrinda Nishandar	DLLE Area Coordinator	29/11/2022	DLLE Event
233	Dr. Vaishali Nirmalkar	DLLE Coordinator	29/11/2022	DLLE Event

## SANYUJA 2022-23

234	Mr. Nitin	DLLE Field Officer	29/11/2022	DLLE Event
235	Mr. Nilesh	DLLE Field Officer	29/11/2022	DLLE Event
236	Dr. Swapna Khairnar	Principal, DGET's College of Education, Thane	29/11/2022	DLLE event
237	Dr. Suresh Nair	President, CRDE	30/11/2022	CRDE interaction
238	Mr. Girish Dalvi	Trustee, CRDE	30/11/2022	CRDE interaction
239	Ms. Chetana Iyer	Centre for Mental Health	1/12/2022	Visit
240	Dr. Annapurna S.	Faculty, St. Xavier's College	3/12/2022	Pre-Conference Workshop
241	Dr. Mandar Bhanushe	Head, Sc.& Tech. IDOL	3/12/2022	Pre-Conference Workshop
242	Ms. Tini Mendon	P & G	5/12/2022	Courtesy Visit
243	Dr. Smita Jape	Dr. VN BRIMS	8/12/2022	Workshop
244	Prof Krunal Punjani	Dr. VN BRIMS	8/12/2022	Workshop
245	Dr. Dinesh Sonkul	Dr. VN BRIMS	9/12/2022	Workshop
246	Dr. Mahesh Bhanushali	Dr. VN BRIMS	10/12/2022	Workshop
247	Mr. Milind R. Patil	District Coordinator, Dr. B.R. Ambedkar Nashabandi Mandal, Maharashtra	10/12/2022	Street Play Competition
248	Mrs. Disha Kalambe	District Coordinator, Dr. B.R. Ambedkar Nashabandi Mandal, Maharashtra	10/12/2022	Street Play Competition
249	Mr. S. Gaikwad	Panel Judge	10/12/2022	Street Play Competition
250	Mr. Sandesh Laad	Panel Judge	10/12/2022	Street Play Competition
251	Mr. Amol Madane	Chief Organizer, Nashabandi Mandal	10/12/2022	Street Play Competition
252	Mr. Nandu Bansode	Nashabandi Mandal	10/12/2022	Street Play Competition
253	Ms. Chetana Sawant	Nashabandi Mandal	10/12/2022	Street Play Competition
254	Mr. Rajendra Survase	Mantralay Bank, Mumbai	10/12/2022	Street Play Competition
255	Ms. Sanjana Jain	NGO, Sangath, New Delhi	14/12/2022	Workshop
256	Dr. Paresh Seth	CEO, India Advantage	14/12/2022	Awareness
257	Ms. Rutuja Bhagat	Sutherland Placements	14/12/2022	Placements
258	Dr Vishwas Joshi	Founder, Chiral Green	14/12/2022	Workshop on Waste to Best
259	Mr. Seth	Speaker	15/12/2022	Workshops on Financial Awareness
260	Dr. Shashikant P. Vaidya	Asst. Director, Haffkine Institute	17/12/2022	Courtesy Visit

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261	Mr Deepak Jethi	Mentor Together	21/12/2022	Mentoring Activity
262	Col. Gaurav Nautiyal	Commanding Officer, 1 MAH BN NCC	30/12/2022	NCC Camp
263	Mr. Vasudev Kolhatkar	VPM's Council of Senior Scientists	11/1/23-28/1/23	Certificate Course
264	Mr. Basudev Bannerjee	Founder Trustee, NCQM	13/1/2023	National Conference
265	Ms. Shilpa Gondhali	Faculty, Dept. of Mathematics, BITS Pilani, KK Birla Goa Campus, Goa	13/1/2023	National Conference
266	Dr. Asha Jindal	Professor & Head, Dept. of Statistics, KC College, Mumbai	14/1/2023	National Conference
267	Dr. Nithya Sai Narayana	Former Faculty, NES Ratnam College, Mumbai	14/1/2023	National Conference
268	Dr. Chhaya Lande	Faculty, Symbiosis Institute of Technology, Pune	14/1/2023	National Conference
269	Dr. Anjum Ara Ahmad	Professor, Rizvi College, Mumbai	14/1/2023	National Conference
270	Dr. Vijay Sarode	Principal, G.M. Vedak College of Science, Tala, Dist Raigad	14/1/2023	National Conference
271	Dr. Santosh Gite	Faculty, Dept. of Statistics, University of Mumbai	14/1/2023	National Conference
272	Dr. Shirish Joshi	Former Director, HR, BCCI	14/1/2023	National Conference
273	Dr. Shripad M. Garge	Faculty, Dept. of Mathematics, IIT, Mumbai	14/1/2023	National Conference
274	Dr. Manisha Acharya	Faculty, Dept. of Mathematics, MD College, Mumbai	14/1/2023	National Conference
275	Mr. Aniket Waghmare	RTO, Thane	17/1/2023	Road Safety Awareness
276	Mr. Atul V. Jadhav	RTO, Thane	17/1/2023	Road Safety Awareness
277	Mr. Mayur V. Kharche	RTO, Thane	17/1/2023	Road Safety Awareness
278	Mr. Milind Bhosale	Speaker	21/1/2023	Visit
279	Dr. Jain	Lok Raj Sangathan	23/1/2023	MoU partnership event
280	Dr. (Mrs) Jain	Office Bearer, Lok Raj Sangathan	23/1/2023	MoU partnership event
281	Shri R.B. Singh	Founder President, Non-Teaching Staff Union	23/1/2023	Courtesy visit
282	Dr. Sudhakar Agarkar	Dean, VPM's Institute of Foreign Studies	27/1/2023	Innovation Corner event
283	Shri Suryakant Kamble	Trainer, Suraksha India	10/2/2023	Fire safety related training

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284	Ms. Aishwarya Singh	Trainer, NCC	10-11/2/23	Awareness Workshops on Civil Services Examinations
285	Shri Narayan Banik	ISO Auditor	22/12/2022; 14-15/2/2023	ISO audits
286	Ms. Vandana Shinde	<i>Sanvidhan Sanman Abhiyan</i>	1/2/2023	<i>Sanvidhan Jagarukta Divas</i>
287	Ms. Meenal Utturkar	<i>Sanvidhan Sanman Abhiyan</i>	1/2/2023	<i>Sanvidhan Jagarukta Divas</i>
288	Ms. Shubhada Chavan	<i>Sanvidhan Sanman Abhiyan</i>	1/2/2023	<i>Sanvidhan Jagarukta Divas</i>
289	Shri Ram Naresh	Railway Workers Union	3/2/2023	Workshop
290	Shri Girish Mittal	ISO Auditor	14-15/2/ 2023	ISO audit
291	Dr. Kunal Jadhav	In-charge, DLLE, University of Mumbai	16/2/2023	Udaan Festival
292	Dr. Bacchav	Member, Panel of Judges	16/2/2023	Udaan Festival
293	Shri. Chikatgavkar	Member, Panel of Judges	16/2/2023	Udaan Festival
294	Dr. Azaad Singh	Member, Panel of Judges	16/2/2023	Udaan Festival
295	Dr. C. Chakradev	Member, Panel of Judges	16/2/2023	Udaan Festival
296	Dr. Nitin	DLLE Coordinator	16/2/2023	Udaan Festival
297	Dr. Vaishali Nirmalkar	DLLE Coordinator, GMM College	16/2/2023	Udaan Festival
299	Dr. Ruby Patel	Faculty, GMM College	16/2/2023	Udaan Festival
300	Mr. Prashant Bhandarkar	Medical Statistician, BARC	21/2/2023	Colloquium lecture
301	Mrs. Supriya Roy	Dy. Director General, National Statistical Services	22/2/2023	Invited talk
302	Mr. Rajgopal Krishnan	Sr. Statistical Officer, National Statistical Services	22/2/2023	Career Awareness
303	Mr. Prashant Karwadikar	In-charge sub-regional office, National Statistical Services	22/2/2023	Career Awareness
304	Mr. Mahesh Patil	Sr. Statistical Officer, Thane	22/2/2023	Career Awareness
305	Mr. Narendra Patil	Sr. Statistical Officer, Thane	22/2/2023	Career Awareness
306	Mrs. Sadhana Joshi	Motivational Speaker	26/2/2023	Invited Talk
307	Dr. Rajesh Kamble	National Science Day, Invited Speaker	28/2/2023	Physics Carnival, Science Day
308	Dr. Ramchandra Parshuram Yadav	Motivational Speaker	10/3/2023	Colloquium Lecture
309	Shri Ramchandra R. Surve	Secretary, Shri Ambika Yoga Kutir	13/3/2023	Valedictory Session of Yoga Course

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310	Dr. R.P. Athalye	Yoga Guru, Shri Ambika Yoga Kutir	13/3/2023	Valedictory Session of Yoga Course
311	Mrs. Minakshi	Yoga Guru, Shri Ambika Yoga Kutir	13/3/2023	Valedictory Session of Yoga Course
312	Mrs. Mohini Ingawale	Yoga Guru, Shri Ambika Yoga Kutir	13/3/2023	Valedictory Session of Yoga Course
313	Mrs. Sharda Bhadane	Yoga Guru, Shri Ambika Yoga Kutir	13/3/2023	Valedictory Session of Yoga Course
314	Mrs. Manasi Shirke	Yoga Guru, Shri Ambika Yoga Kutir	13/3/2023	Valedictory Session of Yoga Course
315	Mrs Asmita Bhosale	Yoga Guru, Shri Ambika Yoga Kutir	13/3/2023	Valedictory Session of Yoga Course
316	Mr. Bhadane	Yoga Guru, Shri Ambika Yoga Kutir	13/3/2023	Valedictory Session of Yoga Course
317	Mr. Kaustubh Dalvi	Yoga Guru, Shri Ambika Yoga Kutir	13/3/2023	Valedictory Session of Yoga Course
318	Mr. Girish Lele	Treasurer, Alumni Asso.	20/3/2023	Invited Lecture
319	Mr. Arbind Kumar	Sr. Data Scientist, Decimal Point Analytics	20/3/2023	Invited Lecture
320	Mr. Arun Pratap Singh	Chief People Officer, Talent Mgmt Team, Decimal Point Analytics	20/3/2023	Invited Lecture
321	Prof Ajit Kengar	Head, Dept. of Botany. KET's Vaze College (Autonomous), Mumbai	20/3/2023	Research Interview
322	Dr. Vinod Ragade	Head, Dept. of Zoology. KET's Vaze College (Autonomous), Mumbai	20/3/2023	Research Interview
323	Prof Suresh Shendge	Head, Dept. of Chemistry. KET's Vaze College (Autonomous), Mumbai	20/3/2023	Research Interview
324	Mr. Ashok Deshmukh	Superintendent, ARCON, Thane	21/3/2023	Inter College Competitions
325	Mr. Raju Patil	ACP, QRT, Thane Police	21/3/2023	Inter College Competitions
326	Mr. Prakash Kumar Manure	Director, State Nehru Yuva Kendra	21/3/2023	Inter College Competitions
327	Dr. Mahesh Bedekar	VPM Management	21/3/2023	Inter College Competitions
328	Mr. Suhas Vhanmane	District Sports Officer	21/3/2023	Inter College Competitions
329	Mr. Nishant Rautela	District Nehru Yuva Kendra Official	21/3/2023	Inter College Competitions
330	Mrs. Suchita Dhamale	District Sports Officer	21/3/2023	Inter College Competitions
331	Mr. Sunil Gamare	District Yuva Kendra Official	21/3/2023	Inter College Competitions
332	Mr. Gopi Bhosale	Panel Judge	21/3/2023	Inter College Competitions

333	Mr. Pranav Desai	Panel Judge	21/3/2023	Inter College Competitions
334	Ms. Jayashree Kature	Panel Judge	21/3/2023	Inter College Competitions
335	Ms. Yogita Padvekar	Panel Judge	21/3/2023	Inter College Competitions
336	Mr. Arvind Jaiswar	Panel Judge	21/3/2023	Inter College Competitions
337	Mr. Nikhil Gunde	Panel Judge	21/3/2023	Inter College Competitions
338	Mrs. Manisha Pradhan	Pollution Control Officer, TMC	25/3/2023	Slogan Contest
339	Mr. Raju Jadhav	Pollution Control Officer, TMC	25/3/2023	Slogan Contest
340	Mr. T.P. Bendre	Treasurer, VPM Thane	20/4/2023	Degree Distribution Ceremony
341	Dr. Sudhakar Agarkar	Member, VPM Thane	20/4/2023	Degree Distribution Ceremony

**Alumni Diary :** Alumni updates (2022-23) are as mentioned below:

No.	Activity	Date	Alumni Actively Involved
<b>I</b>	<b>Events</b>		
1	Countdown to International Yoga day	20/6/2022	Mr. Umesh Lalit, Mr. Sanjay Athavale
2	Invited Talk Zoology Club Inauguration	9/7/2022	Mr. Hemant Karkhanis
3	Guru Pournima Event	13/7/2022	Mr. Sanjay Athavale
4	Independence Day	15/8/2022	Dr. Mahesh Bedekar
5	Independence Day	15/8/2022	Mr. Abhay Marathe
6	Wetlands related Programme/ visit	16/8/2022	Ms. Clara Correia
7	Inauguration of Gymkhana and Sports Activities	26/8/2022	Mr. Rajesh Gadgil
8	Walk with the Butterflies	3/9/2022	Ms. Clara Correia
9	Filming of Short Documentry on Dr. Vijay Bedekar	10/9/2022	Mr. Narendra Bedekar
10	Inauguration Event	15/9/2022	Mr. Ratan Lokhande
11	Conservation Activity	17/9/2022	Ms. Clara Correia
12	Swaranjali Edition 4	17/9/2022	Ms. Shubhada Phatak; Ms. Shaila Mane; Ms. Nargund, Mr. Sanjay Athavale
13	Visit to Akshaya Chaitanya ISKCON	24/9/2022	Prabhuji Upendra Das (Acquired name)
14	Industrial Visit	1/10/2022	Mr. Ameya Sohoni
15	Blood Donation	24/11/2022	Dr. Mahesh Bedekar, Mr. Sanjay Athavale
16	Clean Campus Drive Movement	3 Months	Dr. Mahesh Bedekar

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17	National Conference	13/1/2023	Ms. Shilpa Gondhali
18	Prize Distribution Function of Sports Activities	17/2/2023	Ms. Ketaki Gokhale
19	Certificate Distribution of Statistics Fest	9/3/2023	Dr. Moses Kolet, Ms. Tanzim Shaikh, Ms. Saba Pangarkar
20	Certificate Distribution of ChemistryFest	9/3/2023	Dr. Moses Kolet; Mr. Suhas Shinde
21	YCMOU Degree Award Ceremony	10/3/2023	Dr. Moses Kolet
22	Yuva Utsav	21/3/2023	Dr. Mahesh Bedekar, ACP Shri Raju Patil, Ms. Yogita Padvekar, Mr. Gopi Bhosale
23	Slogan Contest Prize Distribution	25/3/2023	Mr. Raju Jadhav
<b>II Courses and Workshops</b>			
1	Workshop on Transformational Meditation	25/6/2022	Mr. Umesh Lalit
2	Happy Folding: Origami Workshop	27/8/2022	Ms. Anushree Tambe
3	Workshop on Self Defence	10/9/2022	Mr. Sanjay Athavale
4	Workshop on Pollution Free Diwali	23/10/2022	Dr. Mahesh Bedekar
5	Training in Conservation of Mangroves	10/3/2023	Mr. Hemant Karkhanis
6	Field Training in Collection and Sampling of Water	12-18/3/2023	Mr. Vidyadhar Valawalkar
<b>III Colloquium Lectures conducted by alumni</b>			
1	Dr. V.N. Bedekar Colloquium Lecture	16/12/2022	Mr. Nitin Dubey
<b>IV Interaction and Guidance Lectures conducted by alumni</b>			
1	Staff and Student Interaction	27/6/2022	Ms. Geeta Gotur-Venkatesh
2	Student and Alumni Interaction	2/8/2022	Mr Tejas Kadam
3	Career Guidance : Biotechnology, Microbiology	1/7/2022	Ms. Subhasini Singh
4	The skill art of cracking Entrance Examinations	15/10/2022	Mr. Subhash Khatri
5	Career Guidance	28/11/2022	Mr. Rajesh Gadgil; Mr. Sanjay Athavale
6	Careers in Data Science	20/3/2023	Shri Girish Lele
<b>V Online Interaction and Guidance Lectures</b>			
1	Careers in Defence	28/11/2022	AVM (Retd) Sunil Nanodkar
<b>VI Meetings</b>			
1	Alumni Executive Committee Meeting	28/4/2022	Executive Committee
2	Alumni Executive Committee Meeting	2/7/2022	Executive Committee
3	General Body Meeting	4/3/2023	Alumni
<b>VII Department wise Alumni activities</b>			Ongoing

- We are proud of our esteemed alumni Mr. Abhay Marathe who is currently shouldering responsibility as Secretary of Vidya Prasarak Mandal, Thane
- We are also proud of our esteemed alumni Dr. Mahesh Bedekar who is an active member of Vidya Prasarak Mandal, Thane
- Dr. Mahesh Bedekar won medals in Seattle and New Delhi Marathons
- Ms. Namrata Choudhari won Silver medal in 5000 Mtr run (Women's category) in Khelo master's games, New Delhi
- Our President of Anubandh Alumni Association Mr. Sanjay Athavale was conferred upon with National Hall of fame Award in Martial Arts by *Martial Arts Jagat* Publication
- Member of Executive Committee Mr. Rajesh Gadgil received National Award from National Association of Realtors
- Our Secretary of Anubandh Alumni Association Mr. Umesh Lalit successfully completed his M.Sc. Yoga Therapy Programme from Swami Vivekananda Yoga Anusndhana Sanstha, Bengaluru, with Distinction
- Mr Mahesh Bedekar initiated the Clean Campus movement which has added value to our campus
- Ms. Geeta Venkatesh from Detroit, Michigan, US visited the college interacted with staff and students and donated amount for LCD projector for Department of Chemistry
- Mr. Jignesh Patil (Biochemistry) cleared Entrance Test of MS University for M.Sc. Biochemistry with All India 11<sup>th</sup> ranking
- Mr. Atharva Sule filed joint patent for 'Manhole monitoring system'
- Mr. Yuvraj Wankhede secured admission in the prestigious University of Edinburg for M.Sc. programme in Theoretical Physics.
- Mr. Umesh Naik (NCC) was selected in Delhi Police
- Mr. Prasanna Ravate (NCC) was selected in Border Roads Organization as JCO

**The current Anubandh Alumni Association Executive Committee constituted in March 2022 is as follows:**

No	Name	Batch	Designation
1	Shri Sanjay Athavale	1982	Chairman/ President
2	Shri Sanjay Mandlik	1979	Jt. Chairman
3	Shri Umesh Lalit	1989	Secretary
4	Shri Rohit Chaturvedi	2016	Jt. Secretary
5	Shri Girish Lele	1991	Treasurer
6	Shri Ganesh Bandlamuri	1979	Member

7	Shri Sandeep Phanasgaonkar	1979	Member
8	Dr. Vinda Manjramkar	1989	Member
9	Shri Rajesh Gadgil	1989	Member
10	Shri Abhijeet Kale	1995	Member
11	Mrs Umalaxmi Patne	2008	Coordinator
12	Shri Ashish Verma	2020	Member
13	Ms. Rida Merchant	2020	Member
14	Dr. Kalpana Patankar-Jain	1988	Member
15	Shri Sanjay Sakpal	2005	Member

Once again I congratulate all prize winners, achievers, their mentors, guides, departments, HODs, respective committees and committee coordinators on their success. I thank our Vidya Prasarak Mandal for their enthusiastic support in all our activities and I thank all of you for the patient hearing, God Bless You and wish you all the best.

**Retirements:**

Vice Principal (Jr. College) Shri R.V. Lele retired on 31<sup>st</sup> May 2022

Prof. Dr. Poonam Kurve, Dept. of Zoology, retired on 31<sup>st</sup> December 2022

**Obituary:**

Ms. Pooja Tripathi (SYJC)

Dr. V.V. Ambike (Retd.)

Mr. V.D. Golatkar (Retd.)

Dr. (Mrs) Kusum Gokhale (Retd.)

Mr. Shrikant Y. (Bapu) Jathar (Retd.)

**V.P.M.'s B.N. BANDODKAR COLLEGE OF SCIENCE (AUTONOMOUS)  
(Junior and Degree College)**

**Programmes offered by the college**

**POST SSC COURSES (Junior College)**

XI, XII Science Mathematics, Languages (Optional Sanskrit, Geography);  
Bifocal Computer Science

**UNDER GRADUATE /POST HSC PROGRAMMES (Duration 3 Years)**

**Convocation Certificates are Awarded by University of Mumbai**

B.Sc. Programmes in Biochemistry, Botany, Biotechnology, Chemistry,  
Computer Science, Human Science, Information Technology,  
Mathematics, Microbiology, Physics, Statistics, Zoology,

**B.Sc. Inter Disciplinary Science.**

NCC Studies/ NSS Studies available as elective courses instead of FC;  
Elective courses available in syllabi under Autonomy  
30+ Credit Based Skill Development/ Value Added Certificate Courses  
available under autonomy for holistic development

**POST-GRADUATE PROGRAMMES (Duration 2 Years)**

M.Sc. (By Papers) Programmes in Biodiversity and Wildlife Conservation &  
Management; Environmental Science; Information Technology; Organic Chemistry;  
Physics; Data Science; Clinical Psychology  
M.Sc. (By Research) Programmes in Botany; Chemistry;  
Environmental Science; Physics; Zoology

**NEW PG PROGRAMMES FROM 2023-24**

**M.Sc. Programme in Fire Science, Disaster Management and Industrial Safety  
(FDI); M.Sc. Programme in Statistical Data Analysis**

**Ph.D. PROGRAMMES**

Ph.D. programmes in Botany; Chemistry; Environmental Science; Physics; Zoology

**YCMOU PROGRAMMES**

Bachelor's Programme B.L.I.Sc; Master's Programme M.L.I.Sc.  
Diploma in Journalism and Public Relations (P/T)

Bachelor of Computer Applications BCA

Master of Computer Applications MCA

# Vidya Prasarak Mandal, Thane

## Managing Committee 2021-2022



**Sitting :** Shri Trivikram Bendre (Treasurer), Shri Uttam Joshi (Jt. Secretary),  
Dr. Vijay Bedekar (Chairman), Shri Abhay Marathe (Secretary),  
Shri Jayant Kayal (Member)

**Standing :** Sou. Alpana Bapat (Member), Shri Dilip Joshi (Member),  
Dr. Mahesh Bedekar (Member), Shri Santosh Joshi (Member),  
Dr. Anand Bedekar (Member), Shri Aniruddha Joshi (Member)

## Our Administration



**Dr. Moses Kolet**  
Principal

Best College Principal Award  
by Global Eminence Awards 2022



**Mr. Abhijeet Kale**  
Vice Principal

(Degree Unaided Section)  
Gunijan Shikshak Puraskar 2022  
by Vidya Prasarak Mandal

## Our Administration



**Mrs. Sunita Dhakane**  
Vice Principal  
Junior College



**Mrs. Sandhya Pawale**  
Supervisor  
Junior college



**Mr. Chetan Moynak**  
Office Superintendent



**Mr. S. D. Choudhari**  
Senior Clerk

## Superannuation of Staff



**Mr. R. V. Lele**  
Vice Principal  
Junior College  
Superannuated on  
31st May 2022



**Dr. Mrs. P. N. Kurve**  
Dept. of Zoology  
Awarded Professorship  
Superannuated on  
31st December 2022

## Staff Achievers



**Dr. Moitreyee Saha**  
Awarded Professorship



**Dr. Vinda Manjramkar**  
Awarded Professorship,  
4 Patents (3 Indian & 1 German)  
Granted, 2 Books Published



**Dr. Vinod Jamdhade**  
Awarded Professorship



**Dr. A. S. Goswami-Giri**  
Awarded Professorship



**Dr. Devyani Ladhe**  
Awarded Ph.D. in Physical  
Education & Served as Team Manager  
for TT & Basketball at Zonal Level



**Mr. Ramchandra Shinde**  
Completed MBA in Finance



**Dr. Kalpita Mulye**  
Served as Coordinator,  
ISO 21001: 2018 &  
Avishkar Committee



**Dr. Jayashree Pawar**  
Served as Coordinator,  
ISO 21001: 2018  
& Avishkar Committee

## Staff Achievers



**Mr. Rakesh Bane**  
'Gunijan Shikshaketa  
Karmachari Puraskar' 2022  
by Vidya Prasarak Mandal



**Ms. Meetali Chinnkar**  
Role in Avishkar



**Ms. Zahera Momin**  
Role in Avishkar



**Ms. Priyanka Chavan**  
Served as Coach for  
Kho-Kho Team at  
District Level



**Capt. Bipin Dhumale**  
Best Performance in Army  
Attachment Camp, Nashik



**Mr. Sunil Bhusara**  
Medal, Decathlon Marathon



**Ms. Darshana Chavan**  
Medal, Decathlon Marathon



**Mr. Vinod Thorat**  
Silver Medal in Intercollegiate  
Carrom Tournament

## Students Achievers



**Ms. Asmita Patil**  
SYJC Topper 91.67%



**Ms. Riya Suryawanshi**  
FYJC Topper 94.00%



**Ms. Urja Kudalkar & Mr. Pranav Gohil**  
Bronze Medal in International Astronomy  
& Astrophysics Convention



**Ms. Ragini Bhosale**  
Gold Medal, National  
Elocution Competition,  
Won Cash Prize Rs.7000/-



**Ms. Sanjida Islam & Ms. Kavita Gowda**  
Consolation Prize, Avishkar  
Final Round  
**Ms. Gowda** awarded with  
WEnyan Scholarship



**Ms. Shlesha Boke**  
Consolation Prize,  
Classical Dance,  
Youth Festival  
Final Round



**Ms. Janhavi Deshmukh**  
2nd Prize, Creative  
Writing Competition  
in UDAAN Fest



**Mr. Amol Chaughule**  
Silver Medal,  
Elocution Competition  
District Level, Second Prize,  
National Slogan Competition  
organized by TMC



**Mr. Raj Dhumale**  
First Prize,  
National Slogan  
Competition  
organized by TMC

# Student Leaders



**CQMS Pankaj Yadav**



**CPL Aditya Shinde**  
NCC Secretary



**Cadet Captain Sahil  
Ghadiganokar**



**Cadet Shubham Yadav**  
NCC Joint Secretary



**Mr. Kaustubh Jadhav**  
NSS Secretary



**Ms. Ashlesha Bhosale**  
NSS Joint Secretary



**Mr. Siddhesh Kadam**  
NSS Joint Secretary



**Mr. Vrushali Shinde**  
NSS Joint Secretary



**Ms. Kinnari Londhe**  
Cultural Secretary



**Mr. Shreyas Phasekar**  
Cultural Joint Secretary



**Mr. Jayesh Madhurkar**  
Cultural Joint Secretary



**Ms. Kasturi Khandekar**  
Gymkhana Secretary



**Mr. Kalash Dongre**  
Gymkhana Joint Secretary



**Ms. Muktai Chavan**  
Sanyuja, Secretary



**Mr. Aashvin Kumar Das**  
Sanyuja, Joint Secretary



**Mr. Aditya Nikam**  
DLLE Student Manager



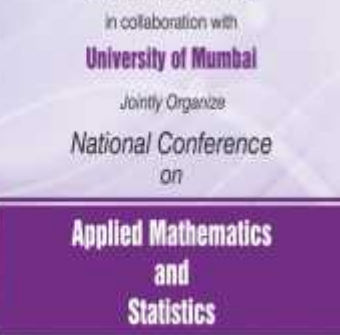
**Ms. Apurva Rathod**  
DLLE Student Manager



**Ms. Poornima Chavan**  
DLLE Student Manager



**Ms. Iqra Mahimi**  
DLLE Student Manager



## Report of Conference and Pre-conference Workshops

**Key Note Speaker**  
**Dr. Asha Jindal**  
 Department of Statistics, K. C. College, Mumbai

**Eminent Speakers of the Conference:**  
**Prof. Miriam Avni**  
 Former Dean, Ben Gurion University, Israel

**Mr. Basudev Banerjee**  
 TDQM Consultant, Mumbai

**Dr. Sudhakar Agarwal**  
 VPM's Academy of International Education and Research

**Dr. Shripad Garge**  
 Department of Mathematics, IT, Powai, Mumbai

**Dr. Nithya Sai Narayana (Retd.)**  
 N.E.S. Roberts College, Shandrapur, Mumbai

**Dr. Chandrashekar Meshram**  
 Chitkara University, M. P.

**Dr. Chhaya Lankar**  
 Synthesis Institute of Technology, Pune

**Dr. Annapurna S.**  
 Department of Statistics  
 St. Xavier's College (Autonomous), Mumbai

**Dr. Santosh Gile**  
 Department of Statistics, University of Mumbai

**Dr. Vijay M. Sarode**  
 Principal, G. M. Vaidik College of Science, Rajgad

**Dr. (Mrs.) Anjum Ans Ahmad**  
 Department of Maths & Statistics, Hazi College, Mumbai

**Dr. P. N. Kamble**  
 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

**Organizing Secretaries**  
**Mrs. Niral Wankhede**  
 Head, Department of Mathematics

**Ms. Sumanika Shaikh**  
 VC Head, Department of Statistics

**Organizing Committee**

<b>Mrs. Urmiladevi Patne</b>	<b>Ms. Priyanka Chavan</b>
<b>Ms. Tarzies Shaikh</b>	<b>Ms. Sobu Pangarkar</b>
<b>Mr. Sachin Gandhi</b>	<b>Ms. Priyanka Rajput</b>
<b>Ms. Asha Ansari</b>	<b>Dr. Urmila Kulkarni</b>
<b>Dr. Kiran Parjya</b>	<b>Mrs. Rupali Ahire</b>
<b>Ms. Priya Singh</b>	

**National Advisory Committee:**  
**Dr. Chandrashekar Meshram**  
 Chitkara University, M. P.

**Dr. Sudhakar Agarwal**  
 VPM's Academy of International Education and Research, Thane

**Dr. Shripad Garge**  
 IT, Powai, Mumbai

**Dr. P. N. Kamble**  
 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

**Dr. Sanket Tikse**  
 R. Jhargharia College (Autonomous), Ghatakpur

**Dr. Manisha Acharya**  
 Vice Principal, Marathi Dnyanesh College, Mumbai

**Dr. Santosh Gile**  
 Department of Statistics, University of Mumbai

**Dr. Sujata Suvornnapha**  
 Raja College (Autonomous), Maranga, Mumbai

**Dr. Manoj Mahra**  
 Khalsa College (Autonomous), Mumbai

**Dr. Sacheta Keshar**  
 Vice Principal, Raja College (Autonomous), Maranga, Mumbai

**Dr. Saroj Kumar Sinha**  
 Khalsa College (Autonomous), Mumbai

**Dr. Annapurna S.**  
 St. Xavier's College (Autonomous), Mumbai

**Mrs. Pooja H. Dhanawade (Retd.)**  
 St. Xavier's College (Autonomous), Mumbai

**Dr. Akanksha S. Kashikar**  
 Department of Statistics, Savitribai Phule Pune University, Pune

**Dr. Vijay M. Sarode**  
 Principal, G. M. Vaidik College of Science, Rajgad

**Dr. Dilip Padi**  
 Principal, N. K. T. T. College of Commerce, Thane

**Mr. Manish Shrivastha**  
 Head, IDOL University of Mumbai

**Dr. Dnyaneshwar Dole**  
 Principal, M. L. Dahanukar College, Vile Parle, Mumbai




Vidya Prasarak Mandal's  
**B. N. Bandodkar College of Science**  
 (Autonomous), Thane

Department of Mathematics  
 and  
 Department of Statistics  
 in collaboration with  
**University of Mumbai**

Jointly Organize  
**National Conference**  
 on

**Applied Mathematics  
 and  
 Statistics**

**13-14  
 January  
 2023**

**NCAMS-2023**

Supported by  
**State Bank of India**

## **National Conference on Applied Mathematics and Statistics (NCAMS) - 2023**

### **Day I - NCAMS - 2023**

The National Conference on Applied Mathematics and Statistics-2023 was organized by the Department of Mathematics and Department of Statistics of B.N. Bandodkar College of Science (Autonomous) Thane in collaboration with University of Mumbai on 13<sup>th</sup> and 14<sup>th</sup> January, 2023 at Thorle Bajirao Peshwe Auditorium, supported by State Bank of India. This Conference consisted of Invited Talks, Oral Paper Presentations and Poster Competition. Around 150 Staff & Students participated in this conference.

The dignitaries present on day 1 for the conference were Mr. Trivikram Bendre (Treasurer of Vidya Prasarak Mandal, Thane), Principal Dr. Moses Kolet, Special Guest Mr. Basudev Banerjee (Applied Statistician with two years full time training from Indian Statistical Institute (ISI)), Dr. Asha Jindal (Professor and Head, Statistics Department at Kishinchand Chellaram College), Dr. Sudhakar Agarkar (Dean, VPM's Academy of International Education & Research, Thane), Dr. Annapurna Shankarnaryanan (Associate Professor of Statistics Department, St. Xavier's College Autonomous, Mumbai).

Inaugural session of the conference was preceded by Principal Dr. Moses Kolet. Inauguration and release of e-proceeding of NCAMS-2023 commenced by special guest Mr. Basudev Banerjee followed by welcome and introductory speech which was delivered by organizing secretary Mrs. Minal Wankhede.

Eminent personalities from research areas in Mathematics and Statistics shared their views with the audience. Gathering was graced by talk of special guest Mr. Basudev Banerjee. He talked on topic: TQM (Total Quality Management) and it's Application in Educational institutions. In his talk, he covered the detailed explanation of TQM, three major components of TQM, quality of product, quality characteristics, sampling and estimation process and application of trend analysis by moving average method, Histogram, Pareto Analysis, Fishbone or Ishikawa Analysis in Educational Institutions. He concluded his talk by talking about parameters for students' learning and process outcomes.

The 2<sup>nd</sup> plenary session was started with a keynote address delivered by eminent speaker Dr. Asha Jindal on topic GGSTATSPLOT: Visualization with Statistical Analysis. She emphasized her talk on the topic by giving an example of a research paper of Dr. Indrajeet Patil. In her talk, she delivered the basic definition of GGSTATSPLOT, two sample's analysis (parametric and non-parametric test) by using ggstatsplot in R-studio (R- Programming Language), along with sample testing, she demonstrated examples of code of sample testing in R-Studio using ggstatsplot. The inaugural session was concluded at 11:50 am and a vote of thanks given by organizing secretary Ms. Sumaiya Shaikh.

The 3<sup>rd</sup> plenary session was conducted by Dr. Sudhakar Agarkar on the topic: Mathematics for Socio-Economic Development. He threw light on Mathematics and areas of research, by considering an example of the literacy rate of India 1951-2011, construction of roads using mathematics, can maths resolve the discrepancy in the health sector, mathematics in artificial

intelligence, GDP growth, Golden Ratios in beauty. The talk was highly appreciated by the audience.

The post lunch session was initiated with the informative lecture delivered by guest speaker Dr. Annapurna Shankarnarayanan on topic: An Overview of Multivariate Analysis. In her talk, she shared her views on multivariate analysis, objective of multivariate, ways to organize a data in vectors, matrix and arrays, Multivariate data visualization, Scatter Plot Matrix, Star Plots, Principal Component Analysis (PCA), Factor Analysis, Discriminate Analysis. She also quoted, the world is generally a multivariate.

Further a Technical session was conducted in which 3 Oral Paper Presentations were done and it was chaired by Dr. Shilpa Gondhali (Assistant Professor, BITS Pilani, Goa) & Dr. Asha Jindal. The first day of the conference ended with cultural activities and formal vote of thanks proposed by Ms. Pradnya Barge (TYBSc Mathematics Student).

## **Day II - NCAMS - 2023**

The dignitaries present on day 2 of the conference were Principal Dr Moses Kolet, Vice Principal Mrs. Moitreyee Saha, Dr. Nithya Narayana (Retd. Professor, NES Ratnam college), Dr. Chhaya Lande (Professor, Symbiosis Institute of Technology, Pune), Dr. Anjum Ara Ahmad (Professor of Statistics, Rizvi College, Mumbai), Dr. Santosh Gite (Professor, University of Mumbai, Mumbai), Dr. Vijay Sarode (Principal, GM Vedak College of Science, Raigad), Dr. Shripad Garge (Assistant Professor, Indian Institute of Technology Bombay, Powai, Mumbai), Dr. Manisha Acharya (Vice Principal, Maharasi Dayanand College, Mumbai), Mr. Shirish Govind Joshi ( Ex. HR VPM, Thane) and Dr. Shilpa Gondhali (Assistant Professor, BITS Pilani, Goa).

The second day of the conference began with an invited talk by guest Dr. Nithya Naryana on the topic: Maths Matters in which she highlighted the importance of Mathematics by giving various examples of real life application of mathematics. She explained a problem of people visiting clubs using dominated eigenvalue and eigenvector, matrix-tree theorem, Principal Component Analysis. Followed by invited talk by Dr. Chhaya Lande on topic: Mathematical Modelling of water table fluctuation in various geological situation in which she talked on statistics of water distribution, importance of groundwater, surface-ground water interconnection, planning activity for saving water, Mathematical model, analytical model, numerical method, flow equation, linearization. She developed a hydrological model and explained an analytical solution of one dimensional linearized Boussinesq equation.

Further guest speaker Dr. Anjum Ara Ahmad delivered a talk on use of multivariate multiple linear regression model in statistical analysis in which she emphasized her talk on measures for assessing statistical significance, Roy's Greatest Characteristic Root(RGCR), Wilk's Lambda, Pillai's Criterion, Hotelling's Trace, Statistical software, Testing at pooled level, and Testing at state level. She explained this all with her research paper on the same topic. And continued by the talk of speaker Dr. Santosh Gite on the topic Regression and Classification in Machine Learning: Challenges and Research Directions where he talked on types of data, machine learning and its types. He focused his talk on supervised learning which includes regression and classification analysis followed by explanation of logistics regression, linear Discriminant Analysis, Naïve Bayes Theorem and simple & Multiple Linear Regression.

Post lunch session was initiated with informative and inspiring talk by Dr. Vijay Sarode on topic: International travel grants in which he told how failure is not ending, and also about different grants and it's criteria such as UNAIDS, IUNESCO, Wellcome trust, ford foundation, full bright scholarship, IASP, and many more. There was a technical session after the invited talks in which 3 oral papers were presented and it was chaired by Dr. Manisha Acharya and it was followed by poster presentation Competition in which 16 posters were presented & Judged by Dr. Shilpa Gondhali, Dr. Anjum Ara Ahmed, Ms. Divya Nair, Mrs. Sangita Patil.

After that, a valedictory address was given by Dr. Shripad Garge on topic: Application of Division Algebra and Wireless Communications in which he gave an explanation of rank criterion & special case by almighty Bharat Seturaman and description of division algebra.

Report of the two day conference was read by Mr. Sanchin Gondke (Assistant Professor, Mathematics Department). Three participants namely Mrs. Sangita Patil from Model College, Dr. Mrs. A. Madhavi from KES Shroff College and JRF research fellow and Mr. Arpit Raikwar gave their valuable feedback during the feedback session. Principal Dr. Moses Kolet Sir gave concluding remarks at the end.

And this two day national conference (NCAMS-2023) successfully ended with an official vote of thanks proposed by Ms. Tanzim Shaikh (Assistant Professor, Statistics Department) along with Mrs. Minal Wankhede (Head, Mathematics Department).

## **Report of First Pre-conference Workshop**

First pre-conference workshop of National Conference on Applied Mathematics and Statistics to be held on 13<sup>th</sup> and 14<sup>th</sup> January 2023 by the Department of Mathematics and Department of Statistics was organized on 26<sup>th</sup> November 2022 at 2pm at Patanjali Auditorium of B. N. Bandodkar College of Science (Autonomous), Thane. Guest Speaker Dr. Manisha Acharya, Vice-Principal and Head, Department of Mathematics, M. D. College gave a talk on "How to Write a Research Paper in Mathematics".

Dr. Manisha Acharya explained step by step how to begin research in Mathematics. She explained in detail the process of writing a research paper. The example of the Research Paper in Induction Principles of Mathematics given by her made students well acquainted with writing a paper in Mathematics. She threw light on ideas about different topics in which students can do research.

As the workshop was designed for undergraduate students, she also listed the role of a student as a volunteer in organizing a conference. At the end, she highlighted the benefits of attending the conference to students. She successfully created the enthusiasm among the students to write a research paper.

## **Report of Second Pre-conference Workshop**

Second pre-conference workshop of National Conference on Applied Mathematics and Statistics to be held on 13<sup>th</sup> and 14<sup>th</sup> January 2023 by the Department of Mathematics and Department of Statistics, was organized on 3<sup>rd</sup> December, 2022 at 9am at Panini Auditorium of BRIMS, Thane. First Guest Speaker Dr. Annapurna S., Vice-Principal and Associate Professor,

Department of Statistics, St. Xavier's College Autonomous gave a talk on "Writing a Research Paper in Statistics". Second Guest Speaker Mr. Mandar Bhanushe, Head, Faculty of Science and Technology, IDOL, University of Mumbai gave a talk on "Use of LaTeX in Research Paper" and Third Speaker Ms. Tanzim Shaikh, Assistant Professor, BNB college gave a talk on "Fuzzy Inventory Model".

Dr. Annapurna S. firstly, explained the origin and evolution of Statistics and then she explained one case study based on Aeroplane crash and how Statistics is used to get the answer to all the findings and then she explained step by step how to begin research in Statistics and Mathematics. She explained in detail the process of writing a research paper. The example of the Probability given by her made students well acquainted with writing a paper in Statistics. She threw light on ideas about different topics in which students can do research.

Mr. Mandar Bhanushe explained the LaTeX importance and how one can use this Software for writing thesis, making papers, notes, textbooks etc. He has demonstrated how to create a scientific document that looks professional and accurately reflects the precise equations and other graphics necessary to express the research work.

Ms. Tanzim Shaikh presented her research work on the Fuzzy Inventory Model and explained the standard format of writing a research paper.

The workshop was designed for undergraduate students and made them understand and aware about the research and its writing procedure. Students understood that original research like other scientific writing follows a standard format. The various sections included in the research paper are abstract, introduction, literature review methods, results, conclusion, acknowledgements, reference. All the Speakers successfully created the enthusiasm and curiosity among the students to write a research paper.

**Mrs. Minal Wankhede**

(Head, Department of Mathematics)

**Ms. Sumaiya Shaikh**

(Coordinator, Department of Statistics)



# Department Reports

## **Department of Biochemistry**

The academic year 2022-23 began in the month of July 2022, soon after commencing the lecture an 'Interactive session' was organized on 30<sup>th</sup> of July in which the students who have completed their internships at various institutes and laboratories shared their experiences with their fellow batchmates and juniors. Two of recent alumni students who have cleared T.Y.B.Sc. in the year 2021-22 and are pursuing their M.Sc. were also called. Four students from third year participated enthusiastically in the session. The session mainly focused on discussion about medical internships where students worked at various renowned hospitals in Mumbai like KEM, TATA, Jupiter explain in detail about their internship experiences. The session motivated many students to undertake internships during the period of Diwali, Christmas and Summer vacation.

'Jeevika club' of the department organized an innovative session named 'Mission I-m-Possible' on 26<sup>th</sup> August 2022, to encourage students to participate in competitive exams in large number. Ms. Sayali Daptardar, Head of the department, gave an in-depth knowledge on opportunities that students can grab based on their interests in Biochemistry and allied fields. She also gave a holistic view of the various national level exams that can be given by the students in order to get into a secured and funded future courses from renowned research institutes of the country. She emphasized that 'getting out of comfort zone and taking smart efforts' are the key habits required for winning the game. The students were motivated and asked many questions at the end of the session to clear their doubts and fears.

With the view of encouraging students to participate in 'Avishkar: The Research convention' an interactive lecture was organized by the department on 19<sup>th</sup> September 2022 for all F.Y., S.Y. and T.Y.B.Sc. students of the college. Ms. Meetali Chinnkar, Assistant professor of the department conducted the lecture which was intended to inform students about rules and requirements of the convention. The lecture was attended by 51 students from various departments of the college. The lecture was able to clear all the doubts of the students regarding the competition.

Every year the Biochemistry department organizes a certificate course in 'Food Adulteration and Quality Management'. This year too it was organized for 15 days between 14<sup>th</sup> of September to 1<sup>st</sup> October, 2022. The certificate course intends to make students aware about food adulterations and the importance of food quality. It also provides theoretical and practical knowledge of concepts such as food packaging and sensory attributes of food and also about various food laws, additives and preservatives used in the food industry. This year 27 students had enrolled for the course out of which 5 students were from G.N. Khalsa College, Matunga. Remaining students were from various departments of our college. During the course two guest lectures were arranged for which stalwarts in the field, Dr Jayant Bandekar, Former Head, Radiation Biology & Health Science Division, BARC, Mumbai and Dr Shilpa Verekar, Head, CQL Laboratory, Parle-Agro Pvt. Ltd. were invited. The sessions were kept open to all students of the college, free of cost. The talks were interesting and engaging. The department also organized two industrial visits during the short duration of the course. For the industrial visit the students were taken to ISKON Community Kitchen at Byculla and Katraj Dairy, Pune. Overall, we received very positive feedback for the course by all the participants.

Our department tries to make education easier for students by connecting theory with practical application. With the same view a visit to the CETP plant, Koparkhairne was organized on 28<sup>th</sup> September, 2022 for T.Y.B.Sc. students and 16<sup>th</sup> February, 2023 for S.Y.B.Sc. students for them to

understand the wastewater treatment in-depth. The visit made students understand the process in an effective way and also made them realize the importance of effluent treatment.

The department is working hard towards the holistic development of students. This year we took one more step towards this by arranging remedial lecture for T. Y. B. Sc. students. The negative impact of online teaching-learning was evident by poor basics of students, rightly observed by teachers of the department in diagnostic teaching. Thus, to help students brush up basics a remedial lecture series was organized from 16<sup>th</sup> December to 21<sup>st</sup> December, 2022 where the basic concepts of topics such as proteins, nucleic acids, cell biology, and amino acids were taught. This lecture series also gave students a hands-on experience in microbiology techniques. The students got the much-needed guidance and appreciated the timely delivery of the lecture series.

For making students aware of various industries of the field, the department had planned an industrial visit of students from all classes to Pune-Mahabaleshwar from 3<sup>rd</sup> to 5<sup>th</sup> January 2023. A perfect mix of food industry, Entrepreneurial set up, research industry and winery department was chosen to cater to the needs of varied interests of the students. Excellent atmosphere, food, stay and Mapro plant and garden visit made it a memorable experience for all.

To impart research aptitude among students the 'Journal club' activity was organized on 31<sup>st</sup> January, 2023, where students of S. Y. B. Sc. presented on a topic from research papers. This event was open to all students of the department. The session included presentations by Ms. Ankita Sharma and Ms. Nupur Torne on X-ray film degradation by bromelain., Ms. Sakshi Mishra presented a paper related to gene expression in plant and Ms. Sarah Shaikh presented a paper on "plant hormone Gibberellins". The session also included a talk by Ms. Pranoti Joshi who shared her experience of a Hand-on workshop attended by her at NFB, Matunga on "Gene cloning and expression". The session motivated students to take active participation in research.

All the activities of the department were organized by student leader's group under the guidance of teachers. For each activity students were assigned duties such as making brochure, creating feedback links, and looking after arrangements of the event. Their effort and dedication are duly acknowledged by the department. The department is also proud of its achievers. This year has been exceptional in terms of the heights the department has achieved. Various students have taken part in different events and won different prizes the most recent being of Ms. Pranoti Joshi (T.Y.B.Sc.) won 5<sup>th</sup> rank prize in Micropodium competition at '21<sup>st</sup> National level Microbiolympiad'. A notable achievement this year has been of Ms. Ankita Sharma and Ms. Nupur Torne who had represented our college at state level at 'Avishkar: The Research Convention' getting selected at district level, making the department proud for the achievement. The project was completed under the guidance of Ms. Pooja Kanse, Assistant professor of the department. Our students have also won prizes in various extracurricular events and intercollegiate competitions. Ms. Bhumika Khorpe (F.Y.B.Sc.) won 1<sup>st</sup> prize in the sketching competition in the inter-collegiate festival Avahan organized by J. K. College of Science and Commerce, Navi Mumbai. She has also been awarded third prize in the 'Accounting test' competition in the Inter-collegiate Cultural festival "Oasis" organized by Shree Narayana Guru College of Commerce, Mumbai. Ms. Vanshika, Ms. Sanillah from first year also bagged prizes in intercollegiate competitions.

Understanding that parents are important stakeholders of the education system, the department has always organized a free and interactive Parents-Teachers meet. There were two

Parents-Teachers meetings organized in this academic year in which parents were informed about departmental activities, their ward's attendance and overall development. A one-to-one interaction between teachers and parents made it easier for parents to know about their child in detail.

The BOS of the department is actively involved in reframing the syllabus of T. Y. B. Sc. for the upcoming academic year. The department also plans to introduce a new certificate course at the beginning of the next academic year. Teachers of the department were actively involved in research activities and have attended workshops and FDPs for self-development. Ms. Sayali Daptardar and Ms. Meetali Chinnkar also published their research work in a reputed journal. With the enthusiastic and hard-working team, the department will surely achieve greater heights in future.

**Ms. Sayali Daptardar**  
In-Charge, Department of Biochemistry



Dussehra Pooja at Department of Biochemistry



Visit to NCMR during 3 days IV to Pune-  
Mahabaleshwar by Department of Biochemistry

## **Department of Biotechnology and Microbiology**

The year 2022-23 witnessed resumption of offline classes in educational institutions. Like every year, apart from regular lectures and practicals, the Department of Biotechnology and Microbiology organized several events for the benefit of students.

Preparing the students for competitive exams through Career guidance sessions is a regular activity of the Department. One such career guidance session was delivered by eminent scientists Dr. Ujjwal Rathore and Dr. Shweta Karambelkar, post-doctoral fellows, University of California, San Francisco. They shared their current research work on HIV therapy, made students aware of opportunities in the research field and motivated students for appearing in competitive exams to enter in top research institutions. They discussed the immense tangible and intangible rewards that can be obtained as an active researcher. In view of ongoing examinations, the session was attended by select interested students from FY, SY and TY Biotechnology and Microbiology.

The alumni of the department participate equally enthusiastically in career guidance sessions. At the onset of the academic year, Ms. Subhashini Singh, alumnus of the department, made students acquainted with details of applying abroad for PhD. During her session on 1st July 2022, she not only discussed different avenues open for students post their graduation, but also inspired students to prepare for competitive exams. An intensive question-answer session was conducted at the end of the lecture which helped in solving the queries of the students.

The next session on 2nd July 2022 was by Dr. Jayashree Pawar, co-coordinator, Biotechnology. She made students acquainted with future prospects in Biotechnology and microbiology, discussed the detailed schedule of different competitive exams, their patterns and inspired students to prepare for competitive exams. She gave an elaborate explanation on the pattern, marking scheme and preparation of the competitive exams like JGEEBILS, JAM, JNU etc. and the doors that would open for students after qualifying these exams. The session uncovered diverse career options such as Bioinformatics and Intellectual property rights (IPR) and entrepreneurship through interesting examples.

Alumnus Mr. Subhash Khatri, Ph.D. Scholar, TIFR, Mumbai, guided the students on 15<sup>th</sup> October 2022. He introduced students to the international level research work at TIFR, Mumbai and shared valuable tips regarding preparation for competitive exams, including solving earlier year question papers. He focused on important topics in mathematics, physics and chemistry, and also guided on how to approach questions from these subjects for the JGEEBILS exam. Students were highly motivated to appear for competitive exams after Mr. Subhash's session, as reflected in their feedback.

Colloquium Lectures are organized in memory of Late Dr. V. N. Bedekar, Founder of Vidya Prasarak Mandal, Thane. 'Preparatory sessions' before lectures by eminent scientists is a flagship activity of the Department. A preparatory session on epigenetics was conducted by Dr. Ashwini Tilak on 18th July 2022. She created a perfect base for the students to understand the colloquium lecture by Dr. Sanjay Gupta, Principal Investigator, ACTREC on 19th July 2022. Dr. Gupta explained the role of epigenetics as a new hallmark for Cancer. The students felt inspired to actively take up research in the field of life sciences. At the end of the session, Dr. Gupta asked students to submit their 'thought process' about epigenetic- research based on his talk which he would screen and give opportunity for two selected students to work as interns in his lab at ACTREC.

The Department regularly organizes parent-teacher meeting. During the academic year 2022-23, parent-teachers meetings were arranged on 2nd July 2022, 7th January 2023 and 21st January 2023. During the meeting, the parents were acquainted with activities held in last semester, the future activities planned and overall performance of students. They were given the information regarding various competitive examinations, their schedule and importance of the same. Parents were also suggested to keep a check on writing practice of students to improve academic performance.

In order to give practical insights into the subject, visits were arranged at various industries and research Institutes. Visit of T. Y. B. Sc. Biotechnology and Microbiology to Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Kharghar, Navi Mumbai was arranged on 22nd August 2022 and 1st December 2022. Students could see the infrastructure and understand the level of research projects at an Institution of international repute during the visit.

Industrial Visit of Third year Biotechnology- Microbiology students was arranged during 12<sup>th</sup> to 14<sup>th</sup> December 2022. During the industrial visit, students went to see the greenhouse facility at KF bioplants, Pune, for cultivation of commercial varieties of flowers and learnt about the technical aspects such as hardening of plants developed through tissue culture. They also learnt about the process details of spirulina cultivation and the entrepreneurial journey of the founder and director of Nutrigien Agrotech. During a trail in the Biodiversity Park at Mahabaleshwar, students got acquainted with a few traditional medicinal and spice plants and commonly observed species of birds and butterflies in the western ghats Sahyadri region.

To acquaint the students with the process of collecting, treating and disposing of the industrial effluents, Visit of TY BSc Biotechnology students to the common effluent treatment plant (CETP) was planned and conducted on 16/02/2023 to CETP, Koparkhairane, Navi Mumbai. Mr. Mahesh Patil (Staff CETP), made students aware about proper handling and disposal of solid and liquid effluent wastes with enhanced feasibility. 37 students visited CETP with two teachers.

Students also participated in the 21st national level Microbiolympiad held on 10<sup>th</sup> February 2023. Toppers of this first round from all three classes FYBSC, SYBSc, TYBSc secured the positions among the top ten colleges selected for the final round held at Aurangabad on 20<sup>th</sup> Feb. 2023. The special guidance session was conducted prior to the final round by Dr. Kalpita Mulye, Dr. Jayashree Pawar and Ms. Sayali Daptardar.



**Dr. Jayashree Pawar**  
Coordinator, Biotechnology

**Dr. Kalpita Mulye**  
Coordinator, Microbiology

## Department of Botany

After long days the academic year 2022- 23 started with an offline mode of teaching. The learners enjoyed this year due to free social interactions which took place between peer members and teachers during conduct of lectures and practicals. Botany department gives full exposure to the indoor and outdoor activities of students to achieve curricular and co-curricular excellence. It had been reflected through positive feedback of alumni of 2021-22.

This year our two faculty members Dr. Moitreyee Saha and Dr. Vinod Jamdhade were honoured with Professorship. Principal Dr. Moses Kolet sir has been awarded “Best College Principal Award” by Global Eminence Awards 2022.

The Department of Botany organized a Workshop on Bloom's Taxonomy in Question Paper Setting for newly joined faculty members on 17th November 2022. Through this, all teachers became acquainted with action verbs related to Bloom's Taxonomy and understood framing question papers which can satisfy all levels of cognitive abilities of learners.

In order to achieve holistic development of students, the Department of Botany organized various activities under different themes.

### Theme : ‘Student Skill Development’

UG students were deprived of laboratory experience due to online mode of learning during COVID-19 lockdown. Thus bridge course was utmost needed to brush up their old knowledge of various laboratory practices. They were also taught parts of compound microscope, sectioning and staining technique during the bridge course held on 26<sup>th</sup> June, 5<sup>th</sup> July, 12<sup>th</sup>-17<sup>th</sup> September 2022.

On 25<sup>th</sup> August 2022, Department of Botany organized a “**Trichromatic Biofest**”, a flower arrangement show on occasion of “**Aazadi ka Amrit Mahotsav**” in order to ignite a sense of gratitude towards the Nation, National Flag and Freedom Fighters. It also helped to develop the entrepreneurial skill among the students as they prepared innovative theme based floral bouquets, garland and bio-jewellery involving three colours of national flag from the botanical source.

In order to enhance the habit of reading and writing, the Department of Botany included Book Review Writing as an Internal Examination component. It provided exposure for various Fiction-Non fiction books based on Biography, History, Science, etc. Due to this, students were also able to understand books and scientific journal reviews from plant science sources. They were trained for the same on 28<sup>th</sup> January 2023, where a Workshop on ‘**Book and Documentary review writing**’ was conducted by Mrs. Kadambari H. Manjrekar.

Field visits are essential for teaching the practical aspects in botany. Botany faculty conducted field visits to **Botanical Garden (Jijamata Udyan, Mumbai)**, **Rice Research Centre at Karjat**, **Karla caves at Lonavala**, **Jawaharlal Nehru Forest Garden at Nashik**, **Institute of Oriental Study, Thane**, **Krishi Vigyan Bhavan at Baramati**, **KF Bioplants Industry and National Centre for Grape Research at Pune**. All these visits improved student's knowledge with respect to floral diversity, vegetation, biodiversity, biodegradation, floriculture and food crop improvement.

**Theme: 'Student Career Development'**

Department of Botany has planned to conduct Career guidance lecture in month of April for SYBSc and TYBSc Botany Students

**Theme: 'Student Enrichment Programme'**

Late Dr. V.N.Bedekar Colloquium Lecture on 'Millets: The Superfood in your plate' was arranged on 28<sup>th</sup> September 2022. Dr. Jai Kiran Kini (Research Director, YMT Ayurvedic Medical College, Navi Mumbai) was the resource person. This colloquium has improved knowledge about millets and its significance in nutrition. It has evoked students to alter bad habits related to food (what we eat) and nutrition (what the body needs). It has created awareness about the United Nations (UN) theme which has declared the for forthcoming Year 2023 as International Year of Millets.

Dept of Botany had completed a Certificate Course on 'Mocktails from Nature's Basket' (2 credits) from 12<sup>th</sup> February to 20<sup>th</sup> March 2023. The course imparted knowledge about nutritional and medicinal values of plants. Total 20 Students learned the art of preparation of presentation of nutritious mocktails. It helped to develop aptitude to set up professional business.

**Club Activities - The Journal and Movie Club 'Curiosity'** conducted an inauguration ceremony by presenting a short documentary titled "**Mona come back**" (on 1<sup>st</sup> October, 2022) and "**Gene Bank**" (on 30<sup>th</sup> January 2023). Both the movies were compiled by student-members and Technical Experts. The former movie highlighted the reforestation and nature care through the story of Padmashri Mr. Jadhav Peyang - "Forest Man of India" and later on the movie informed the importance of Gene Bank for conservation of indigenous, endangered and threatened species of plants and animals. This year, the elected Core Student-Members of Curiosity Club were as follows - Secretary – Mr. Smit Haware; Joint Secretary – Ms. Ashwini Yadav; Editor-in-chief - Ms. Maryam Syed and Ms. Zubaida Khan; Technical Expert - Ms. Tasneem Khan, Ms. Shilpa Vishwakarma, Mr. Pankaj Desai and Mr. Rohit Utekar

The Inauguration of **Botany Club 'Srishti 2022-23'** was held on 1<sup>st</sup> October, 2022. Dr. Tejashri Bhalerao (BAMS, Ayurvedacharya) was the resource person. She highlighted the importance of Ayurveda and role of millets in maintenance of Tri-doshas for healthy lifestyle. On 6<sup>th</sup> March 2023, Palvi fest was celebrated by organizing various activities. Food stalls of beverages and 'Millet Bhel', exhibition of Dish Garden and interesting games were some of the highlights of the event. This year, the elected Core Student-Members of Srishti Club were as follows - Secretary – Ms. Suparna Karmokar, Joint Secretary – Ms. Shravani Karale, Treasurer – Ms. Amala Kulkarni, Head Incharge Refreshment - Ms. Sarika Bhise and Head of Incharge Discipline - Ms. Satyabhama Yadav.

**Theme : Student Support**

**Parent and Mentor-Mentee meetings** – Department of Botany had organized parent teacher meeting for T.Y. and S.Y.B.Sc. students on 8<sup>th</sup> October 2022 where parents were briefed about various activities of the Department and importance of regular attendance. The Faculty of Botany department also renders student support through Mentor-Mentee meetings.

**Prof. Dr. V. M. Jamdhade**  
Head, Department of Botany

## Department of Chemistry

The academic year 2022-23 began with an **inaugural lecture** by Dr. Anita Goswami-Giri; Professor and Head, department of Chemistry for S.Y.B.Sc and TY B.Sc. on 20/06/2022. The first week was especially given for **revision lectures** for S.Y.B.Sc and T.Y.B.Sc from 20/06/2022 where students were made aware of various topics of chemistry so as to cope-up with the current syllabus. S.Y.B.Sc. syllabus was modified under autonomy and has been approved in Academic council meeting held on 14/06/2022.

**Inaugural lecture** for F.Y. B.Sc students by Head of the department on 8th August 2022 by introducing the subject and its importance, careers and optional subject. The **chemistry club** was inaugurated with a lecture of Dr. Ajit Bhumkar and Dr.Pralhad Wagh on- "*Career in Chemistry*" on 23/06/2022 for T.Y.B.Sc Chemistry students. Various opportunities in academics, industries, Govt. & Non-Govt sectors along with required qualification were told to students. **Total 28 students and two teachers participated.**

Prof. Dr. Goswami-Giri Anita and Dr. Sandeep Kahandal delivered a lecture on- "*Safety in Chemical Laboratory*" on 25/06/2022 for T.Y.B.Sc Chemistry students. The **workshop** focused on safety is no accident, lab safety starts with me. They also explained about the PPE kit, fire extinguishers, safety symbols used in the laboratory, GHS, CAS number, and first aid measures. **Total 36 students and two teachers participated.**

The **alumni interaction** session was arranged on 02/08/2022 for TY students by Mr.Tejas Kadam regarding various admission processes in higher education. **Total 18 students and 2 teachers participated.** Mr. Devendra Bansode who specialized in Clinical Research and Regulatory Affairs, delivered a talk on 06/08/2022 regarding attractive CV making. He also provided information about pharmacovigilance, Zydus life sciences QA, QC, Stride organic, current needs-demand and so on. **Total 27 students and 3 teachers** attended the interactive session.

On November 10, 2022 the **movie screening** "*Chemistry- the base of world*" was initiated. The movie was prepared by Mr.Nilesh Jadhav, T.Y.B.Sc student. It was all about the facts of kitchen chemistry, forest chemistry. Total **51 students and 2 teachers participated** in the club activity.

Students and teachers participated in the collective singing of the national anthem on 17/08/2022. They also participated in "Har Ghar Tiranga" on the occasion of 75 years of independence.

A *Parent-Teacher meeting* was conducted on 07/09/2022 regarding their ward progress. Head of the department informed about departmental functioning for student growth.

**Dr. Anita S.Goswami-Giri** authored two Book chapters published in the book "Application of Environmental Biotechnology for Global Sustainability." First edition 2023, ISBN: 978-625-8284-30-0 Published by Global Academy (Turkey) –

- 1) Utilizing Biotechnology to Produce Fuels 2023, pg.-62-69 and 2) Current Development Application of Nano-Bio pesticides and Future Perspectives 2023 pg. 83-91.

**Dr. Anita S.Goswami-Giri** authored Book chapters is published in book, Recent Advances in Analytical Techniques "Chromatography: A versatile techniques for separation pg.76-87 first edition 2022 ISBN:978-93-94766-13-6

**Dr. Anita S.Goswami-Giri** delivered talk on *Indian Women in Innovation* at one day international seminar on innovation and technology for Gender Equality organized by Shri Vivekanand Shishan

Sanstha Kolhapur, R.P. Mahavidyalaya Osmanabad, Modern College Pune on 8th March 2023, International Women's day.

**Dr. Ajit Bhumkar** presented a poster in the National Conference on Recent Advances in Chemical Science (RACS-2023), organized by Mithibai College, Mumbai on 23<sup>rd</sup> Feb. 2023.

**Dr. Pralhad Wagh** presented a research paper in the International E-Conference on **1) Recent Innovations in Science and Technology (RIST-2023)**, organized by Government of Maharashtra, I.Y College, Mumbai on 10<sup>th</sup> and 11<sup>th</sup> Jan. 2023. **2) Presented poster in the National Conference on Recent Advances in Chemical Science (RACS-2023)**, organized by Mithibai College, Mumbai on 23<sup>rd</sup> Feb. 2023.

**Dr. Sandeep Kahandal** published one chapter and two research papers Current Trends in ICT and Education (2022). Volume-1, ICT :A Promising Platform for the Indian Higher Education, Page No. 1-8, AkiNik Publications, New Delhi, ISBN: 978-93-5570-187-9, Book DOI: <https://doi.org/10.22271/ed.book.1826>.

#### Research Papers:

1. Padmakar A. Kulkarni, **Sandeep S. Kahandal**, Nitin A. Mirgane, Ashis Kumar Satpati, Suresh S. Shendage, Highly efficient magnetically separable Zn-Ag@L-arginine Fe<sub>3</sub>O<sub>4</sub> catalyst for synthesis of 2-aryl-substituted benzimidazoles and multicomponent synthesis of pyrimidines, Results in Chemistry, 4 (2022) 100655 (Page No 1-10) Scopus.
2. **Sandeep S. Kahandal**, Efficient Route for the Synthesis of 1,3-Dioxolanes Catalyzed by Sulfated Mixed Oxides of Yttria-Zirconia, International Journal of Innovative Science and Research Technology, 8, (2), 2023, ISSN No:-2456-2165.

**Ms. Akashta Singh** cleared her central teachers eligibility test (CTET)

The **workshop** on, "Chemical waste disposal in UG-PG chemistry Laboratories - Recycle and Reuse" by Mr. Vishwas Joshi CEO, Chiral Green Consultancy, Thane on 14/12/2022, 15/12/2022 and 17/12/2023. The workshop focused on the equivalent of acidic toilet cleaner. The Disposable Chemicals were classified for Recycling and Reuse for the manufacturing of paints using organic acids, neutral compounds, etc. Total 7 Teaching, 10 Non-teaching and 13 UG Students participated in the workshop.

Every year the department conducts a **Certificate course** on 'Instrumentation and Preparation of standard solution', initiated in the Month of March 2023.

The **industrial visit** was arranged to Silvassa for S.Y., T.Y. Chemistry and M.Sc Chemistry students on 16 & 17 February 2023. Students were made aware of Rayon/fabric polymer processing and its coloring. **Total 49 students and 3 teachers' participated in the industrial visit.**

The **Chemophilic event** was arranged on 9<sup>th</sup> March 2023 with the theme *Element of Surprise* where students exhibited various experimental models, Chem-Games, Chemingo, a pinch of sodium chloride, special attention Atma ka khel-Bhondu Baba return. **Total 124 students, 14 teachers and 11 non teaching staff participated** in this event.

Late. Dr. V.N. Bedekar **Colloquium Lecture** was arranged on 10th March 2023. The lecture was delivered by Dr. Ram Yadhav, Motivational Speaker on "Maze Rashtra Maze Career". **Total 67 students, 07 teachers and 09 non-teaching staff** participated in it.

**Dr. Anita Goswami-Giri**

Professor and Head Department of Chemistry

## Department of Environmental Science and Biodiversity, Wildlife Conservation and Management

The academic year 2022-23 began with a series of webinars and online lectures conducted by eminent scientists and speakers in their respective fields. The objectives of these lectures were to create awareness about different environmental, biodiversity aspects and understand the practical applications of their syllabus topics. The list of such jointly organized sessions is as mentioned in the table below:

Sr. no.	Date	Topic of Webinar	Name of Speaker
1.	23/07/2022	A Peep into King Cobra Ecology Through Telemetric Project	Mr. Dhiraj Bhaisare
2.	25/07/2022	The magical world of Herps	Dr. Varad Giri
3.	26/07/2022	Butterflies of Western Ghats	Mr. Ashok Sengupta
4.	27/07/2022	Butterfly Garden Development	Mr. Sammilan Shetty
5.	29/07/2022	The Science of Whereabouts In Conservation Biology	Mr. Soham Seal
6.	20/08/2022	Amazing World of Spiders	Mr. Pranav Joshi
7.	05/09/2022	Odonata Diversity Informatics Tools and Techniques	Dr. Pankaj Koparde
8.	14/09/2022	Primatology Our Mirror	Mr. Avadhoot Velankar

Along with these online sessions, offline programs were arranged by both departments individually and also jointly in collaboration with different organizations for the benefit of students.

- ❑ An offline session on **Mangroves Matter** was conducted by Dr. Prasad Karnik on occasion of International Day for Conservation of Mangroves, **26<sup>th</sup> July, 2022**. This was in collaboration with Paryavaran Dakshata Mandal. The importance and significance of mangrove conservation was key point highlighted in this session.
- ❑ Mr. Mohan Upadhyay, better known as Kaasvanche baba, visited the college on **28<sup>th</sup> July, 2022** to conduct a session and movie screening on **“Sea Turtle Conservation”**. It was jointly organized by both departments receiving an overwhelming response of 120 student participants and 4 faculty members.
- ❑ An activity under **“Walking with Butterflies”** was organized by both departments for the month of September. It was declared as Big Butterfly month and thus involved field work in recording the different species of butterflies. This helped students identify them and know the host plants, nectar plants and life cycle study.
- ❑ On the occasion of **International Day of Clean air for Blue skies**, an offline program on **7<sup>th</sup>**

**September 2022** was arranged jointly by both departments in collaboration with NSS Unit, NCC Unit, Yuva Jagar and Thane Municipal Corporation. It was attended by about 166 students and 5 faculty members. The speaker Dr. Raju Jadhav highlighted the importance of clean and pollution free air and its different monitoring techniques.

- ❑ Syamantak “University of Life”, Sindhudurg in collaboration with both departments held a special screening for its critically acclaimed Marathi short film “Mi Dhamapur Talav Boltay” in college on **17th September, 2022**. The movie and subsequent discussion was carried out by **Ms. Clara Correia, Mr. Stalin Dayanand** and **Mr. Muhammad Shaikh**.
- ❑ On the occasion of **World Wetland day** on **2nd February, 2023**, both departments jointly organized an activity for students to create awareness about conservation and importance of wetland conservation.
- ❑ An offline elocution activity on eminent environmentalist was arranged by both departments on **National Science Day, 28th February, 2023**. Students studied the notable work of these eminent contributors in field of science and environment. A group of around 25 students with 3 faculty members were a part of this activity.

Field visits and study tours were also organized for students related to ecological restoration, industrial visits, study of NGO working, different ecosystems and treatment plants.

- ❑ Maharashtra Nature Park Society, Mumbai under ecological restoration was a one day field visit on 21<sup>st</sup> February, 2023
- ❑ An industrial visit to CETP, Navi Mumbai was arranged on 24<sup>th</sup> February, 2023 for M.Sc. students.
- ❑ A visit to NGO Paryavaran Dakshata Mandal was planned on 3<sup>rd</sup> March, 2023 to understand the working and activities under them.



Visit to Maharashtra State Angling Association (MSAA),  
Powai



Visit to US Consulate General BKC,  
Mumbai

**Ms. Saloni Sheth**  
Department of Environmental Science

**Mr. Aditya Mhatre**  
Department of Biodiversity, Wildlife Conservation  
and Management

## Department of Human Science

Department of Human Science of V.P.M.'s B. N. Bandodkar College of Science (Autonomous), Thane organized an activity named "Talent show", under departmental club SOHAM to display talent of F.Y.B.Sc, S.Y.B.Sc & T.Y.B.Sc Human Science students on 27<sup>th</sup> August 2022 from 11.00 am to 2.30 pm in Zoology lab. The event was organized for the talent display of Human Science students of V.P.M.'s B. N. Bandodkar College of Science. Talents such as Poetry and Shayari, Storytelling, Book review, Display of paintings, Rap singing were displayed by T.Y.B.Sc students. Talents like Self defence, Duet singing, calligraphy & yoga poses were performed by S.Y.B.Sc & F.Y.B.Sc students.

On 29<sup>th</sup> September 2022, a visit to Dharmavir Anand Dighe Jidd Shalav (Special school) was organized for S.Y.B.Sc students. Total 28 students along with 2 teachers visited. On 1<sup>st</sup> October 2022, 18 T.Y.B.Sc. students visited Ameya Enterprises Water Purification unit along with 2 teachers, as an industrial visit. The Department of Human science in association with Paryavaran Dakshata Mandal organized an eco-friendly Kandil making workshop on 15<sup>th</sup> October 2022, for the Diwali festival. 27 students along with 6 teachers attended the workshop.

In addition, department also organized Suicide prevention workshop in association with Sangath organization in Patanjali Auditorium on 14<sup>th</sup> December 2022. 55 students along with 7 teachers attended the workshop. 4 students from S.Y.B.Sc represented a research project titled Suicidal Vulnerability Inventory in youth in Avishkar competition, University of Mumbai, and got selected for the final round under guidance of Ms. Komal Kadam, Assistant Professor from Human Science department. On 20<sup>th</sup> & 21<sup>st</sup> January 2023, Meraki fest was organized under departmental club SOHAM. During the fest, many guest lectures like legal empowerment and photography workshops were conducted. Several activities like coaster making, movie screening, self-defense workshop, anger management workshop, murder mystery game & personality testing booths were organized.

From 26<sup>th</sup> February to 1<sup>st</sup> March, the department organized an excursion to Goa covering several archeological sites, biodiversity sites (Sanctuary visit) & industries. On 16<sup>th</sup> February 2023, 19 students visited Chatrapati Shivaji Maharaj Vastu Sangrahalay and heritage properties of Mumbai and 19 T.Y.B.Sc visited Thane Regional Hospital.



CSMT Museum Visit



Activity during Anger Management Workshop

**Prof. Dr. Vinda Manjramkar**  
Co-ordinator, Department of Human Science

## Department of Mathematics

During the academic year 2022-23, the Department of Mathematics conducted various activities under the Mathematics Club "Siddhant". Inaugural Lecture of Siddhant Club was arranged on August 04, 2022 at Patanjali Auditorium. Mr. Salil Sawarkar (Assistant Professor, Dept. of Mathematics, Smt. C.H.M. College, Ulhasnagar) was invited to deliver a talk on "Surprises in Mathematics". He motivated our students to think about the surprises in mathematics and he also inspired them to do research in the field of Mathematics & Application of Mathematics. Students got to know about the surprises in Prime Numbers, Rational & Irrational Numbers, Sets & Functions, Series & Sequences, Pythagoras Theorem, etc. They also got to know the History of a few Mathematicians.

In order to teach the students about history of Lohagad Fort and to enhance awareness about environment, flora and fauna & to make the students familiar with the culture of place, Department of Mathematics along with Department of Statistics arranged one day Lohagad Trek on August 03, 2022 supported by Travel Ustaad Company. Students were taught about the history of Lohagad fort such as how Chhatrapati Shivaji Maharaj recaptured the fort in 1670 AD and used it for keeping his treasury, etc.

The Mathematics Department arranged lectures for F.Y.B.Sc. and S.Y.B.Sc. Mathematics students which were conducted by T.Y.B.Sc Mathematics students on the occasion of Teacher's day on September 06, 2022. Pradnya Barge, Akansha Kumbhar, Neha Vishwakarma, Sanjana Yadav and Chanchal Dhotre were the T.Y.B.Sc Mathematics students who acted as Teachers for the day.

The Department of Mathematics along with the Department of Statistics organized the National Conference on Applied Mathematics and Statistics in collaboration with University of Mumbai on 13th and 14th January, 2023 at Thorle Bajirao Peshwe Sabhagruha.

The Annual Fest "Mathlete" of the Department of Mathematics was organized on February 06, 2023 at Patanjali Auditorium. Eighty four students of F.Y.B.Sc, S.Y.B.Sc and T.Y.B.Sc participated in the event. "Mathlete" includes various exciting and interesting quizzes and games and is organized by T.Y.B.Sc Mathematics students with the goal to have participants apply their mathematical knowledge and logical thinking to master and enjoy these quizzes and games.

**Poster/Sketch Making Competition** winners were Ms. Vaishnavi Nagare (1<sup>st</sup>), Ms. Sarika Jadhav (2<sup>nd</sup>), Mr. Bhagya Desale (3<sup>rd</sup>) and Ms. Rafiya Khan (Consolation). **Photography Competition (Capture Me!)** winners were Ms. Sonali Panpatil (1<sup>st</sup>) and Ms. Almira Kelkar (2<sup>nd</sup>). **Meme Competition (Maths Makes Laughter)** winners were Ms. Vrushali Chavhan (1<sup>st</sup>), Ms. Sanjana Yadav (2<sup>nd</sup>) and Mr. Atharva Sonawane (3<sup>rd</sup>). **Fast & Furious Game** winners were Mr. Awin Varerkar (1<sup>st</sup>), Ms. Sakshi Rane (2<sup>nd</sup>) and Mr. Shiva Udaiyar (3<sup>rd</sup>). **Hit On Time Game** winner was Mr. Aditya Shinde and Runner-up was Mr. Sohit Yadav. The most popular and awaited game every year is Mr. & Ms. Mathlete. This year Mr. Sohit Yadav won the title of **Mr. Mathlete** and Ms. Payal Rangi won the title of **Ms. Mathlete**.

**Mrs. Minal Wankhede**  
Head, Department of Mathematics

## Department of Physics

On August 4, 2022, **Dr. Gopi Veeravalli**, a **software developer** from the Physics class of 2000 who is currently working for **Bosch Private Limited Canada** on the Detection of anti-manipulation devices, gave an alumni-inspiring talk. It facilitates the creation of a forum for the sharing of opinions and experiences with current pupils.

On August 26, 2022, S.Y., T.Y and M.Sc students visited an expo at the **DAE Convention Center BARC Anushakti Nagar Trombay** to learn more about the many difficulties the Department of Atomic Energy faces and to find out what resources are available to help with those problems.

On September 26, 2022 (SYBSc), and September 30, 2022 (T Y B Sc and M Sc.) our own faculty, Mrs. Gauri Zope and Mr. Vaibhav Wagh (Asst. Professor), kept talks on **Interactive Physics Simulation** to allow students to model, simulate, and explore a wide variety of physical phenomena and create any experiment they could imagine.

On October 5, 2022, “**Ashoka Vijayadashami**, or “**The victory of good over evil**,” is a celebration specifically for **non-teaching employees**. Its goal is to enhance relationships and foster a positive work environment.

Arranged **Mr. Nitin Dubey’s “Advance imaging with use of unique code aperture” colloquium lecture in honour of the late Dr. V. N. Bedekar**. The resource is Aluminous from the Physics Department of B N Bandodkar College, who is also **pursuing a Ph.D. in Applied Optics from IIT Delhi and an M. Tech. in Optics from Ben Gurion University of the Negev in Israel**. On December 16, 2022, he gave the class a brief introduction to the area of incoherent digital holography and its use in the study of optics.

Under the direction of **Coordinator Assistant Professor Sushant Pawar and visiting faculty Mr. Vasudev Kolhatkar**, a **certificate course on “Introduction to astronomy and astrophysics”** will be offered from January 11 through January 28, 2023. Aids students in grasping the fundamentals of astronomy and astrophysics, as well as how clocks function and their relationship to the sun, through the use of stargazing, different calendars, and student-made “Handmade Refracting Telescopes” made with their own ideas and under the supervision of teachers.

Students are given significant exposure to genuine working conditions and a practical perspective through **organised industrial visits under the able guidance of Professor Bhalchandra Mandlekar to Kerala Keltron Electronic as part of interactive learning**.

Students can improve their interpersonal, communication, and teamwork skills through educational and industrial tours from January 31, 2023, to June 6, 2023. visited a garden of spices and looked at plants used in medicine. Munnar’s Ripple Tea Factory was visited. knows the fundamental processes of the Leaf to Lip cycle: plucking, withering, rolling, and oxidising.

**Dr. Sangita Meshram**  
Head, Department of Physics

## Department of Statistics

Academic year 2022-23 started with an offline mode of teaching and continued to present the challenge of involving students physically in various curricular and co-curricular activities by arranging guest lecture, competition, bridge lecture, certificates courses and fun based activities like Statistics fest under Sankhya Club.

In the first week of this year the Department of Statistics has conducted **Bridge lectures** for S.Y.B.Sc and T.Y.B.Sc students on Descriptive Statistics and Statistical methods concepts, so that they can easily cope-up with the regular studies and current syllabus.

### Activity: I

The Statistics Club was inaugurated on the day of National Statistics Day on 29/06/2022,

The National Statistics Day is celebrated every year on June 29<sup>th</sup> in India to create public awareness about the importance of statistics in socio-economic planning and policy formulation. Celebrating the Statistics Day, to popularize the use of Statistics in everyday life and sensitize the public as to how Statistics helps in shaping and framing policies.

Department of Statistics has arranged one Quiz Competition which consists of 3 rounds and competition was arranged to achieve the following objectives:

- ◆ To make students aware about Indian statisticians
- ◆ By participating in quiz competitions, students are encouraged to do team work and implement their knowledge, which raises their confidence and critical thinking.

Round I of the competition was a Quiz Conducted on the online platform of Kahoot. 8 best scoring teams out of the total 17 teams proceeded to Round II. It was a crossword puzzle competition in which each of the qualified teams was given a blank cross word which they had to answer in a span of 10 minutes. The 4 best scoring teams proceeded to the final round which was a Rapid fire round and 4 matches were played between the best scoring teams from the crossword competition.

In previous academic year we had organised three important events for the student; details of the event as follows:

### Activity: II

Event Name: Statistics Department Annual Fest 2021-22 (STATSVERSE)

Date: 11/03/2022 & 14/03/2022

Statistics Fest named “**STATSVERSE**” arranged by T.Y.B.Sc Statistics students. The tradition of conducting departmental fest has been going on in the Statistics Department since 2016. The name of the fest was ‘**STATSVERSE**’, which can be explained as a collection of all things related to Statistics. The event was conducted on 11<sup>th</sup> and 14<sup>th</sup> March, 2022 from 9:00 am to 5:00 pm. Ms. Shruti Pathak and Mr. Athrav Tikare worked as the Secretary and Joint Secretary respectively. The objective of the fest was to inculcate a competitive spirit in all our students, provide a platform to showcase their talents and skills and also encourage participation from the various departments in the college. Total of 04 teaching staff, 171 students were present for the event. The events of 11<sup>th</sup> March of Stats Fest were as follows:

1. Mind Bogglers
2. Chain Kulli ki main kulli
3. Smash it to win it
4. Without fire cook

On 14<sup>th</sup> March, Prize distribution ceremony was conducted in Patanjali Auditorium & Principal sir has encouraged and motivated students and also felicitated to all the winners and also appreciated to all the volunteers and staff of the department.

**Activity: III**

Event Name: Statistics Department IV-VELNESHWAR

Date: 24/03/2022 to 27/03/2022

A group of 39 students (including 28 boys and 11 girls) of TYBSc Statistics were taken to Velneshwar from 24/03/22 to 27/03/22 accompanied by Respected Principal Dr. Moses Kolet Sir, HOD of Statistics Dept. Ms. Sumaiya Shaikh, Teaching staff Ms. Priyanka Chavan, Ms. Vaishali Deshmukh, Ms. Saba Pangarkar and two lab staff. This trip provided exposure to the students about VPM's engineering college and its vision and mission. They gather wider knowledge on various subjects like Civil Engineering, Electrical Engineering, Electronics and Telecommunication Engineering, Instrumentation and Mechanical engineering.

**Activity: IV**

Event Name: Two weeks certificate course on R software

Date: 8/02/2022 to 24/02/2022 & 02/02/2023 to 16/02/2023

A Basics of R Software Course is introduced as a certificate course conducted by Department of Statistics, V.P. M's B.N. Bandodkar College of Science, Thane. Certificate course was conducted through online mode. In choice based credit system the course is of 45 hrs duration which has 3 credits. The objective of the course was,

1. To familiarize them with basic regular expressions in R.
2. To impart knowledge about creating charts, plots and vectors.
3. To impart knowledge about basic data analysis procedures.
4. To understand the multiple regression models.
5. To understand the procedure to perform all conventional statistical models and analysis tests.
6. To develop hands-on experience on solving problems related to real-life data.

There are 4 units in the course conducted by 4 resource person,

Unit 1: Fundamental of R

Unit 2: Descriptive Statistics

Unit 3: Probability and probability distribution

Unit 4: Correlation analysis, Linear Regression analysis and Curve Fitting.

**For Academic Year 2021-22**

The course was held during 08th to 24th February, 2022 using Google Meet Online Platform in between 01.00pm to 04.00pm. Total **44 participants** were registered for this online course, which includes in house students, outsider's students and some faculties too from all over the Maharashtra. On 08th Feb, 2022 at 1.00 pm, the inauguration of Online Certificate Course was done by our Principal Capt Dr. Moses Kolet by giving valuable inputs and motivational speech. On 2nd March, 2022 at 2.00pm certificates were distributed for successfully completing the course. All students actively participated and provided valuable feedback for the entire course.

**For Academic Year 2022-23**

The course was held during 02nd to 16th February, 2023 using Google Meet Online Platform in between 08.30am to 11.30am. Total **21 participants** were registered for this online course. On 02nd Feb, 2023 at 8.30 am, the inauguration of Online Certificate Course was done by our Head Ms. Sumaiya Shaikh by giving beautiful insight of the course. On 16th February, 2023 at 1.00pm certificates were distributed for successfully completing the course. All students actively participated and provided valuable feedback for the entire course.

**Remarkable Outcome of the Course**

- ◆ Students will be able to edit and save changes in existing data. Summarise and graphically display data.
- ◆ Perform all conventional statistical analysis tests.
- ◆ Read existing datasets into R or create new ones. Handle any form of data.

For this Academic Year, in the starting of the term we have created 4 groups of TY students and given some tasks to each of the groups so they can enhance their skills and personalities. This year, the elected core student-members of Sankhya Club were as follows: Secretary- Ms.Shreya Nadkarni; Joint Secretary-Mr, Aniruddha Shelke and Mr.Suraj Vishwakarma.

**Activity: V**

Event Name: Offline Classroom Presentation

Date: 18th July, 2022 - 30th July, 2022

The offline classroom presentation was arranged to enhance the skill of the students and build confidence about their concept and to achieve the following objectives:

- ◆ To make students aware about Statistical distributions learned in S.Y.B.Sc.
- ◆ By participating in classroom presentations students are encouraged to do team work and implement their knowledge, which raises their confidence and critical thinking.

All students were divided into four groups which were given the distribution and all groups have presented using black board and power point presentation.

**Activity: VI**

Event Name: Trekking

Date: 03/08/2022

This activity was arranged to provide some knowledge other than subject & to make the students know about history of Lohagad Fort, to enhance awareness about environment, flora and fauna & to make the students familiar with the culture of the place. There were 49 participants and the trek was conducted under the guidance of Travel Ustaad Company. The duration of the trek was from 6:30 a.m. to 9:30 p.m. Students of TY BSc Mathematics and Statistics actively participated in this trek.

## Activity: VII

Event Name: Pre-Conference Workshop

Date: 26/11/2022 & 3/12/2022

The Pre Conference Workshop was arranged to train and encourage students in their early stage of research, to carry out research activity using recent techniques in order to achieve a high degree of productivity. There were four resource people for both the workshop **Dr. Manisha Acharya, Dr. Annapurna S., Mr. Mandar Bhanush and Ms. Tanzim Shaikh** who shared their knowledge about the topic like how to write a research paper in Statistics and Mathematics, Use of LaTeX for writing the research paper & Inventory Model. Students of SY, TY-Stats & TY- Maths have explored the workshop for better understanding of the research and its importance.



## Activity: VIII

Event Name: National Conference on Applied Mathematics and Statistics

Date: 13/01/2023 & 14/01/2023

The Conference was inaugurated along with release of e-proceedings following the welcome address by respected Principal Dr. Capt. Moses Kolet. A special guest Mr. Basudev Banerjee has delivered the inaugural talk on the topic "TQM and its Application in Educational Institutions". Dr. Asha Jindal from HSNL university delivered the keynote address on "GGSTATSPLOT: Visualization with Statistical Analysis". Renowned national level scientists in the field of Mathematics and Statistics research including Dr. Annapurna S., Dr. Anjuma Ara Ahmed, Dr. Santosh Gite, Dr. Vijay Sarode, Dr. Chhaya Lande, Dr. Nithaya, Dr. S. Agarkar, Dr. Shilpa, shared their valuable work and views that introduced the audience to contemporary research and enriched them with advancement in the field. Dr. Shripad Garge from IIT Bombay address the audience with comprehensive overview about applied research in his valedictory session



On both the day around 120+ participants were present including research scholar, young researcher, subject expert, staff and student. The Conference has invited talks, research papers, presentations and poster competition.

**Activity: IX**

Event Name: Parents Meeting & Mentor-Mentee Meeting

Date: 27/08/2022 \_SYBSC\_MS & 07/09/2022\_TYBSC\_Statistics

A parent teacher meeting was conducted for SY and TY students for term I of Academic year 2022-23 in which parents were oriented with the curriculum and co-curriculum dealt by the department, make aware of the committees for the student's benefits as well as upcoming events arranged by the departments and its benefits, also give glimpse of the certificates courses and its importance. The faculty of the department also renders student support through mentor mentee meetings.

**Activity: X**

Event Name: First Colloquium lecture on "The Opportunities and challenges in public Health research for Statistics Students"

Date: 21/02/2023

**Mr. Prashant Bhandarkar, Medical Statisticians from BARC** has given thoughtful insights about the public health domain and brilliant career guidance in this respective domain and also talked about the challenges and given a glimpse of his journey in this domain.

**Activity: XI**

Event Name: Second Colloquium lecture on "Indian Statistical System and Sample Survey"

Date: 22/02/2023

**Mrs. Supriya Roy (ISS), Deputy Director General** at National Statistical Office, Mumbai. She delivered the talk and gave insight about working behaviour of the NSSO, scrutiny of the data, preparation of the questionnaire and she was accompanied by her four-member team from the office and at the end of the talk they conducted a small quiz competition for the students and gave prizes too.

**Ms. Sumaiya Shaikh**  
Head, Department of Statistics

## Department of Zoology

Zoology department has been on the forefront of the college missions in terms of curriculum, curriculum, research, conferences, contribution to university, society etc. departmental faculty worked in numerous responsible posts and committees in the college. Zoologist availed 2 Principals, 3 Vice principals, 4 Cultural committee chairmen, 2 Exam Controller, 1 University dean to faculty of science, 3 Chairmen to T.Y.B.Sc Examination at University of Mumbai, 2 NCC Officers, Yoga Committee foundation, 3 authors for Textbooks in zoology at University of Mumbai, 2 patent holders, 2 major research projects over 5 lacs, 2 in charge Advanced study center, VPM. Department conducted five conferences since 1994, (one international level). Departmental faculty has been pioneering in the research since 1980's, and associated with social organizations like Hariyali, Enviro-vigil, HOPE, BNHS, SACON, WWF, Mangrove Cell, NIO, CIFE, FSI, TIFR, CRI, BARC, Hopkins, Sindhuswadhyay, MPEDA, etc. We have a high profile repository and signature work of research on water pollution monitoring on Thane creek and Ulhas river estuary. Nevertheless, the department is popular in students from the CBZ group and recorded consistently inflow of a high number of students to the zoology subject due to the efforts taken by faculty through effective, updated and flexible teaching; liberal extension of helping hands; career orientation and friendly learning environment to the student in the department.

Apart from quality teaching and prompt syllabi completion, the department conducts various activities in an academic year viz. introductory sessions, excursions, zoology club activities, empirical sessions, exhibitions, internal assessment, mentorship, parent teacher interaction, school student's complex, career orientation, guest lectures, hands on training, quiz competitions, class tests, revisions etc.

Career guidance in zoology subject '**What next after BSc Zoology**' conducted by Dr. Kiran M. Pariya on 24 May 2022 online (google meet) to enlighten the scope and job opportunities. The talk included pedagogy of zoology to S.Y.B.Sc students seeking admission in T.Y.B.Sc before the college opened in the second week of June 2022.

Dr. Sudesh D. Rathod conducted an outdoor practical session on 07 July 2022 on the college campus. The session was focussed on taxonomy of invertebrates. The sample collection from the type of waterbody like atrophic, eutrophic, and dystrophic type of lentic waters and their characteristics. Identification of the specimens was conducted in the laboratory. Students realized the intensity of importance of animal identification and the application of taxonomy. The empirical study enhances the understanding and its pedagogical importance in students. The experience gives hands-on experience of the subject and application.

**Zoology Club Inaugural Function:** Mr. Hemant. V. Karkhanis- Associate manager in the mangrove department Construction unit of Godrej and Boyce Mfg. Co.Ltd was invited for a guest lecture on the occasion of the inauguration of the 'Zoology club', on 9 July 2022. The objective of the program was to make students aware regarding mangrove conditions in urban areas and help in identifying mangroves, flora & fauna. Mr. Hemant highlighted field photography. He guided about the camera and gist of photography technique in zoom and macro technique. The mangrove vegetation of Thane Creek has been voluntarily protected by Godrej for several years as a social obligation.

**Parent teacher meeting :** Parents of T.Y.B.Sc, Zoology-Students along with the "Teaching

Faculty of the Zoology Department conducted on Friday, 26/08/22 at 8.00 pm. on 'Google Link'. Teachers introduced the functioning and role of parents in the students' development and studies. Parents gave their inputs about the expectations from the department and administration. Meeting was adjourned with suggestions and feedback.

**School-College Complex** activity was conducted on 22 Nov. 2022 for VPM's Polytechnic College students. Demonstration of biological instruments was given to 24 third year polytechnic Dr. S. D. Rathod, Head of Department talked about the role of zoology in the social, environmental and career and explained the infrastructure availed and efforts taken by the staff to instill the knowledge through the curriculum and research. Ms. Nikeeta Keni dealt with the handling of microscope and showed slides of microscopic organisms and histology. Ms. Anjali Yadav exhibited the museum specimens and explained their characters. Ms. Nimeesha Vagal introduced the instruments used in the department, its maintenance and gave hands on practice to students.

**A Taxonomical Survey of Invertebrates on the College Campus on 28/09/2022** Dr. Clara, (Activist Against environmental destruction) was invited for the guidance for exploring the field for taxonomical survey and recording the animals. The photograph was the additional information shared by the Biodiversity Department from the college. Students observed slugs, moths, butterflies, butterfly larvae, cocoons, wasps, flies, honey bees, beetles, spiders, ants. Spider juveniles clumping on the spider web was an attraction. A spider mimicking the ants and jumping spiders were also observed.

#### **Excursions :**

##### **F.Y.B.Sc Excursion:**

One day visit to **Chhatrapati Shivaji Maharaj Sangrahalaya** (Former Prince of Wales Museum) was visited on 28-Feb. 2023 to see 'Natural History Section where birds arranged as Passeriformes, raptors, pheasant, water waders. And mammals like monkeys, big cats, bison, deer, wild goats, foxes, jackals, wild dogs and hyena, tapir, elephant and whale jaw observed.

##### **T.Y.B.Sc Excursion :**

A nine days excursion to Bangalore, Mysore, Ooty, and Bandipur National Park was carried out. Students studied the zoo, museums, wildlife in the field, forest structure, diversity, avifauna and learned the record keeping, wildlife, photography and behavior of animals. Students experienced mammals like spotted deer, sambar, elephants, monkeys, lion tailed macaque, mongoose, snakes, heron, kingfishers, golden oriole, eagle, brahmani kite, peacocks, parrots, and others.

##### **S.Y.B.Sc Excursion :**

One-day excursion was carried to Arnala Village on 25 Feb. 2023 to observe the fish drying yards, fish landings and cooperative society cold storage center. Bhajanlal dairy farm was visited on the way to see cattle varieties like Murrah Buffaloes and Jafarabadi Cows was visited on the go.

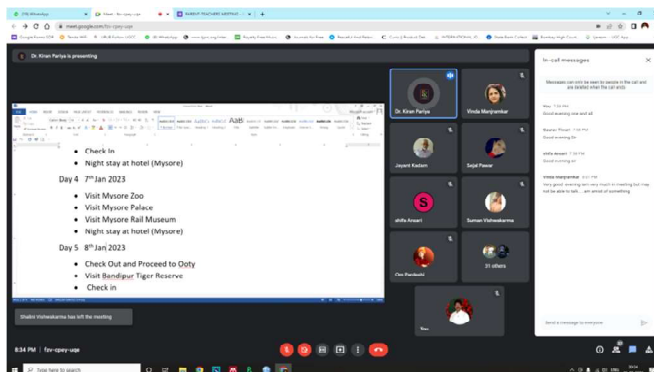
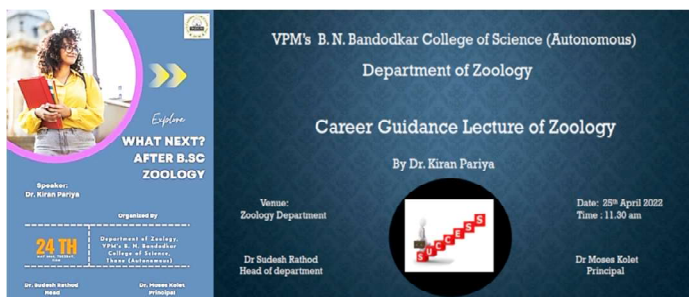
#### **Zoomagica Festival (Zoology Club Activities) from 25<sup>th</sup> to 31<sup>st</sup> January 2023**

**Treasure Hunt:** Zoomagica on 25/1/2023 (outdoor games event) was conducted in the college campus

1. The games encouraged students to identify animals by their names and taxonomic characters.
2. Students showcased their photography abilities by clicking Zoology related photographs in the campus.
3. Students were encouraged to participate in extracurricular activities along with studies.

**Zoomagica Exhibition:** Zoomagica on 27/1/2023, 28/1/2023, 1. It helped provide students a platform to showcase their creativity and develop several social skills. 2. It helped introduce Zoology practically to the audience who visited the exhibition and created an interest among them regarding the same. 3. The practical representation helped understand the zoological concepts more easily and effectively.

**Patent and Patenting:** Zoomagica on 31/1/2023 Dr. Kantilal Nagare and Dr. Dinesh Wanule who are well known as patent men from Birla College for grant of more than 23 Indian patents delivered the lectures on the types of patents and process of patenting. 1. It helped students learn more about the concept of national and foreign patent 2. Method and importance of patenting. 3. It helped create an interest among the youth regarding the topic and its advantages.



**Dr. Sudeesh Rathod**  
Head, Department of Zoology

### ग्रंथालय विभाग

ग्रंथालयात आजमितीला एकूण ३२५७५ पुस्तके पदवी महाविद्यालयाची, ४९९४ कनिष्ठ महाविद्यालयाची, ३८३६ पुस्तके पुस्तक पेढी योजने अंतर्गत अशी एकूण ४१४०५ पुस्तके उपलब्ध आहेत. तसेच १४ मासिके, १२ राष्ट्रीय व १० आंतरराष्ट्रीय वैज्ञानिक नियतकालिके अवांतर वाचकांसाठी उपलब्ध आहेत. २०२२-२०२३ या शैक्षणिक वर्षात ४२५ पुस्तके खरेदी केली.

विद्यार्थ्यांना ग्रंथालयातील ग्रंथसंपदेची ओळख व्हावी याकरिता ग्रंथालयातर्फे ग्रंथालय उद्बोधन सत्र १८ जुलै ते २० जुलै २०२२ या कालावधीत द्वितीय वर्ष व तृतीय वर्ष विज्ञान शाखेच्या विद्यार्थ्यांकरिता भरवण्यात आले होते. ग्रंथालयात उपलब्ध ग्रंथ संग्रहाची माहिती, नियतकालिके, संदर्भ ग्रंथ, ग्रंथालयाच्या वेळा, ग्रंथालयामार्फत देण्यात येणाऱ्या सेवा-सुविधा, पुस्तक पेढी योजना या आणि अशा विविध योजनांबाबत या सत्रामध्ये विद्यार्थ्यांना माहिती देण्यात आली.

KNIMBUS या डिजिटल प्लॅटफॉर्मबद्दल सर्व ग्रंथालयीन सहकार्यांना प्रशिक्षण देण्याकरिता ग्रंथालय विभागातर्फे संकुलातील सर्व महाविद्यालयांतील ग्रंथालयांच्या ग्रंथालयीन सहकाऱ्यांचे प्रशिक्षण सत्र १३ जून २०२२ रोजी आयोजित करण्यात आले होते.

सर्व विद्यार्थ्यांमध्ये KNIMBUS या डिजिटल प्लॅटफॉर्मबद्दल जागरूकता निर्माण करण्याकरिता ऑनलाइन सत्र २५, २६ आणि २७ ऑगस्ट २०२२ रोजी संपन्न झाली. KNIMBUS या इलेक्ट्रॉनिक प्लॅटफॉर्मच्या माध्यमातून विद्यार्थ्यांना पुस्तके, नियतकालिके, डेटाबेस, प्रोजेक्ट इत्यादी उपलब्ध आहेत इलेक्ट्रॉनिक साधने वापरण्याकरता महाविद्यालयातर्फे प्रत्येक विद्यार्थ्याचे ईमेल आयडी तयार करण्यात आले आहे. याबरोबरच विद्यार्थ्यांना e-resources वापरणे सोपे जावे याकरिता ग्रंथालय सहकारी नियमित प्रशिक्षण देत असतात. Knimbus, Digital Repository व Web OP-C यांचा वापर कसा करावा याबद्दलचे व्हिडिओ तयार करून QR Code च्या माध्यमातून ग्रंथालयामध्ये प्रदर्शित करण्यात आले आहेत.

फ्रेंड्स ऑफ लायब्ररी क्लब तर्फे लेखक तुमच्या भेटीला हा कार्यक्रम २७ सप्टेंबर २०२२ रोजी ऑनलाइन माध्यमातून संपन्न झाला. आपल्याच महाविद्यालयाच्या माजी विद्यार्थ्यांनी सौ आशाताता पडवेकर यांनी लिहिलेल्या आई: एक नाव असतं या पुस्तकानिमित्त त्यांच्याशी संवाद साधण्यात आला. सौ मनीषा चव्हाण यांनी मुलाखतीच्या माध्यमातून या कार्यक्रमाचे संचलन केले. सौ आशाताई यांनी पुस्तक लिहिण्याबाबतची त्यांची प्रेरणा पुस्तक लिहीत असताना त्यांना येणाऱ्या अडचणी याबाबत अतिशय साध्या सरळ भाषेत विद्यार्थ्यांशी संवाद साधला.

ग्रंथालय विभाग आणि वनस्पतीशास्त्र विभाग यांच्या संयुक्त विद्यमाने तृतीय वर्ष विभागाच्या विद्यार्थ्यांकरिता वनस्पतीशास्त्र विषयातील संदर्भ ग्रंथाचा परिचय हे सत्र १५ जानेवारी २०२३ रोजी आयोजित करण्यात आले होते.

वनस्पती शास्त्रातील उपयुक्त संदर्भ ग्रंथ, विशेष संदर्भ ग्रंथ, नियतकालिके यावर ग्रंथपाल कादंबरी मांजरेकर यांनी सखोल मार्गदर्शन केले. तसेच नियतकालिकांतील संदर्भ कसे वापरावे याबद्दल चर्चा केली. MS-Word चा वापर संदर्भ सूची बनवण्याकरता कशा प्रकारे करता येईल याबद्दल प्रात्यक्षिक दिले.

मराठी भाषा संवर्धन पंधरवडा यानिमित्ताने ग्रंथालय विभागातर्फे २८ जानेवारी २०२३ रोजी मराठीतून विज्ञान या विषयावर पुस्तक प्रदर्शन भरवण्यात आले होते. विज्ञान विषयातील मराठी भाषेतून उपलब्ध पुस्तकांचे प्रदर्शन यावेळी भरवण्यात आले होते.

ग्रंथालय विभाग पुस्तक प्रदर्शन आणि माहिती प्रदर्शनाच्या माध्यमातून विद्यार्थ्यांमध्ये जागरूकता निर्माण करण्याचं कार्य सदैव करत आहेत. विद्यार्थ्यांना देशातील सामाजिक, राजकीय, क्षेत्रात काम करणाऱ्या थोर व्यक्तींच्या कार्याबद्दल माहिती या विविध प्रदर्शनामधून देण्यात येते. याबरोबरच विविध वैज्ञानिकांनी बदलची माहिती देखील त्यांचे जन्मदिवस लक्षात घेऊन प्रदर्शित करण्यात येत असते. अशा प्रकारे यावर्षी खालील विविध दिवस ग्रंथालय विभागात साजरे करण्यात आले.

राजश्री शाहू महाराज (२६ जून), लोकमान्य टोळक पुण्यतिथी (१ ऑगस्ट), तुकाराम भाऊराव साठे जयंती (१ ऑगस्ट), शिक्षक दिन (५ सप्टेंबर), सरदार वल्लभभाई पटेल जयंती (३१ ऑक्टोबर), इंदिरा गांधी पुण्यतिथी (३१ ऑक्टोबर), मोलाना अब्दुल कलाम आझाद जयंती (११ नोव्हेंबर), श्रीनिवास रामानुजन जयंती (२२ डिसेंबर), सावित्रीबाई फुले जयंती (३ जानेवारी) जिजाऊ मासाहेब जयंती (१२ जानेवारी), स्वामी विवेकानंद जयंती (१२ जानेवारी), नेताजी सुभाषचंद्रबोस जयंती (२३ जानेवारी), बाळासाहेब ठाकरे जयंती (२३ जानेवारी), महात्मा गांधीपुण्यतिथी (३० जानेवारी), संत सेवालाल महाराज जयंती (१५ फेब्रुवारी), छत्रपती शिवाजी महाराज जयंती (१९ फेब्रुवारी) संत गाडगेबाबा जयंती (२३ फेब्रुवारी), रविदास महाराज जयंती (२३ फेब्रुवारी), विनायक दामोदर सावरकर पुण्यतिथी (२६ फेब्रुवारी), मराठी भाषा दिवस (२७ फेब्रुवारी), विज्ञान दिवस (२८ फेब्रुवारी), यशवंतराव चव्हाण जयंती (१२ मार्च) आदी थोर व्यक्तींवर आधारित माहिती प्रदर्शन आयोजित करण्यात आले होते

पर्यावरण विषयक विविध दिवस जसे जागतिक हवामान दिवस (२३ मार्च), जागतिक पर्यावरण दिवस (५ जून ), यावर ग्रंथ प्रदर्शन आयोजित करण्यात आले होते.

ग्रंथालय विभागातर्फे २३ मार्च २०२३ रोजी Book Mark Competition ही स्पर्धा आयोजित करण्यात आली होती. या स्पर्धेमध्ये २३ विद्यार्थ्यांनी आपला सहभाग नोंदवला. विद्यार्थ्यांनी अतिशय कलात्मकरित्या विघटनशील पदार्थ वापरून बुक मार्क बनवले होते. या स्पर्धेत प्रथम वर्ष विज्ञान शाखेतील कु. तन्वी येरम हिला प्रथम पारितोषिक, अकरावी इयत्तेतील कु. रागिणी भोसलेला द्वितीय पारितोषिक तर कु. रेणुका गलांडे हिला तृतीय पारितोषिक प्राप्त झाले. प्रथम वर्ष विज्ञान शाखेतील कु. करीमा मंडल आणि कु. निकिता अढलगे यांना उत्तेजनार्थ पारितोषिके प्राप्त झाले.

सौ. कादंबरी मांजरेकर  
ग्रंथपाल

**मराठी विभाग****मराठी भाषा गौरव दिन**

विद्या प्रसारक मंडळाच्या बांदोडकर विज्ञान(स्वायत्त) महाविद्यालयात मराठी भाषा विभाग व ग्रंथालय विभाग यांच्या संयुक्त विद्यमाने मराठी भाषा गौरव दिन मोठ्या उत्साहाने साजरा करण्यात आला. महाविद्यालयाचे प्राचार्य डॉ. मोझेस कोलेट यांच्या मार्गदर्शनाखाली महाविद्यालयाच्या पतंजली सभागृहात प्रमुख पाहुण्या म्हणून उपस्थित सुप्रसिद्ध लेखिका प्रा. साधना जोशी, ग्रंथपाल सौ. कादंबरी मांजरेकर, मराठी भाषा विभागाचे प्रा. बिपीन धुमाळे, प्रा. अपर्णा वाघेरे, प्रा. अनिल आठवले सेवानिवृत्त प्रा. प्रकाश माळी यांच्या हस्ते सरस्वती व कुसुमाग्रज यांच्या प्रतिमेला पुष्पहार अर्पण करून पूजन केले व यानंतर पतंजली योग केन्द्र मध्ये ग्रंथ प्रदर्शनाचे उद्घाटन झाले, पतंजली सभागृहात विद्यार्थ्यांनी पोवाडा, गाणी, नृत्य, अभिनय, प्रहसन असे विविध कार्यक्रम सादर करून कुसुमाग्रजांना विनम्र अभिवादन केले. प्रा. बिपीन धुमाळे यांनी कार्यक्रमाचे प्रास्ताविक केले तर सेवानिवृत्त प्रा. प्रकाश माळी यांनी विद्यार्थ्यांनी सादर केलेल्या विविध कलागुणांचे कौतुक करून मार्गदर्शन केले.

प्रमुख पाहुण्या सौ. साधना जोशी यांनी मराठी भाषेत दर्जेदार कविता, साहित्य यांची ओळख करून देऊन आपणही सृजनशील साहित्य निर्माण करू शकतो याचे प्रत्यंतर देत व विविध दाखले देत आपले बीज भाषण सादर केले, कार्यक्रमासाठी डॉ. उज्वला गोखे, कॅप्टन बिपीन धुमाळे व प्रा. अनिल आठवले यांच्यासह अकरावी विद्यार्थी-विद्यार्थीनी मोठ्या संख्येने उपस्थित होते. या बहारदार कार्यक्रमाचे निवेदन रागिणी भोसले, निकिता, चांदणे, क्रिश, यांनी अतिशय सुंदर पद्धतीने केले, तसेच सॅम या अमराठी विद्यार्थ्याने मराठी भाषेत मनोगत व्यक्त केले. तर आभार प्रदर्शन प्रा. अनिल आठवले यांनी केले.

प्रा. बिपीन धुमाळे  
मराठी भाषा विभाग

## हिंदी दिवस

बा.ना.बांदोडकर विज्ञान स्वायत्त महाविद्यालय ठाणे हिंदी दिवस बहुत ही उत्साह के साथ पतंजलि सभागार में संपन्न हुआ।

बा.ना. बांदोडकर विज्ञान महाविद्यालय में हिंदी दिवस के उपलक्ष में हिंदी पखवाड़े का आयोजन किया गया। दिनांक १० सितंबर से लेकर ३० सितंबर तक हिंदी विभाग के द्वारा अलग - अलग प्रतियोगिता का आयोजन किया था। सर्वप्रथम राष्ट्रीय स्तर हिंदी प्रतियोगिता का आयोजन किया गया। इस प्रतियोगिता में करीब करीब ८० छात्रों ने बढ़चढ़कर हिस्सा लिया। इस प्रतियोगिता का परिणाम २७ सितम्बर को घोषित किया गया। इस साल हिंदी पखवाड़ा मनाने वक्त छात्रों के कला गुणों का विकास को मद्देनजर नजर रखते हुए २७ सितंबर को हिंदी दिवस बड़े धूमधाम से मनाया गया। इसी कार्यक्रम में अतिथि के उपस्थिति में महाविद्यालय के प्रधानाचार्य कॅप्टन डॉ. मोझेस कोलेट जी ने विजेताओं को महाविद्यालय की ओर से प्रमाणपत्र एवं मेडल्स देकर सम्मानित किया गया। प्रतियोगिता में प्रथम आनेवाले विजेता कुमारी सोनल शरद चव्हाण ने (प्रथम स्थान) दिव्या भारत खुने (द्वितीय स्थान) दिशा रत्नाकर पुरी (तृतीय स्थान) एवं उत्तेजनार्थ कुमारी अपेक्षा भारत डाकी, कुमारी रागीणी प्रशांत भोसले, कुमार सॅम शशिकांत राय सभी छात्रों को प्रमाणपत्र, मेडल्स, देकर सम्मानित किया। महाराष्ट्र राज्य पाठ्यपुस्तक मंडल ने व्यवहारिक हिंदी को बढ़ावा देकर छात्रों को नई दिशा देने का एक सफल कदम उठाया है। इसी को ध्यान में रखते 'मै उद्घोषक' अर्थात् उत्कृष्ट सूत्रसंचालक प्रतियोगिता का भी आयोजन किया गया था। इस प्रतियोगिता में एक उद्घोषक को चुना गया कुमारी नूरी फातीमा शेख इस छात्र ने बाजी मारकर जीत हासिल की इन सभी कार्यक्रमों का आयोजन महाविद्यालय के पतंजली सभागृह में आयी किया गया।

इस अवसर पर ऑनलाईन 'हिंदी प्रश्न मजूंशा' का आयोजन किया था। इस प्रतियोगिता में कुल १४३ छात्रों सहभाग रहा। इतना ही नहीं इस प्रतियोगिता में महाविद्यालय के अध्यापकों ने भी हिस्सा लिया था। हिंदी राष्ट्र भाषा होने के नाते हमें उसका सम्मान करना चाहिए। अलग-अलग-बोलियां रहन-सहन खान पान को अपनी कला के माध्यम से छात्रों ने नृत्याविकार के से प्रस्तुत किया। एक अंध छात्र ने भी अक्षदा लोखंडे ने सुमधुर गीत गाकर लता मंगेशकर जी के स्वर को उजागर किया। तथा एक पैर से अधू होने से भी कुमारी प्रेरणा सरदार इस छात्र ने 'नाचे मयुरी' सा नृत्याविष्कार को प्रस्तुत किया। तथा श्रीधर कलसगोंड, और उसके समुह ने ढोंगी बाबा इस नाटिका को पेश कर अंधश्रद्धा निर्मूलन को जागृत किया। और मस्ती की पाठशाला एक हास्य - व्यंग्य नाटिका प्रस्तुत कर छात्रों में पढाई के प्रति अपनापन बढ़ा दिया। कुमारी अंकिता शिंदे और भाग्यश्री कोली और उनके समुह ने अनेकता में एकता दर्शाने वाले नृत्याविष्कार पेश कर भारत की अखंडता को दर्शाया।

प्रमुख अतिथि प्रा. योगेश सिंह जी ने छात्रों की सराहना कर हिंदी भाषा के उद्गम का राज बताया उन्होंने कहा कि भारत में रहने के वाले मूल नागरिकों को प्राचीन काल में नाग शब्द नहीं से पहचाना जाता था। नाग कि लिपि अर्थात् नागरी नाम से पहचाना जाने लगा। और संस्कृत यह देवनाम से पहचानी जाती थी। इसतरह देवनागरी लिपि का निर्माण हुआ और नगर में रहने वाले नागरिकों नागरिकों को नागरिक कहा जाने लगा। नागरिकता ये हमारे देश की पहचान सभ्यता और संस्कृति से बन गयी। जैसे भारत की कथाओं में हमेशा शेषनाग, वासुकीनाग, अनंतनाग कालिया नाग हमने पढा है। जैसे आज का नागपुर प्राचीन काल में सर्प की राजधानी अनंतनाग जम्मू कश्मीर में स्थित है। और नागालैंड भी इस से संबंधित है। इस तरह से हम देवनागरी लिपि से जुड़े हुए हैं और जुड़कर रहना है। इस तरह हिंदी शब्द की पहचान करवाकर छात्रों के भाषा का ज्ञान बढ़ा दिया।

दूसरे अतिथि आयडियल कालेज के श्रीमान हानिफ शेख जी ने गजल पेश कर सभी को मंत्र मुग्ध कर दिया। महाविद्यालय के अध्यापक श्री विनोद थोरात एवं प्रकाश माली जी ने भी अपने कुछ छंद शेरों शायरी से वातावरण में उल्हास भर दिया। इस अवसर पर उपप्राचार्या सौ. सुनिता ढाकणे, एवं पर्यवेक्षिका डॉ. संध्या पावले उपस्थित रहे तथा सभी अध्यापक उपस्थित रहे। कार्यक्रम का सूत्रसंचालन शैलजा यादव, अक्षता बनसोडे, नूरी फातिमा, अमोल चौधुले, प्रगती उखांडे, पूर्वेश तळेले, साक्षी

इन्होंने किया । और पूर्वेश आणि निखिल ने फोटोग्राफी आणि व्हिडिओ बनाने के लिए सहयोग दिया । साउंड टेक्निशियन अवधूत काकडे, साहिल गगनहळ्ळी, इन्होंने मदद की । कार्यक्रम सफल होने हेतु मंदार क्षीरसागर कुमारी सृष्टी यादव, शैलजा यादव, आश्लेषा भोसले, अमोल चौघुले, रेश्मा राठोड, इनकी मेहनत रंग लाई । प्रधानाचार्य कॅप्टन मोझेस कोलेट जी ने कार्यक्रम के अंत तक बैठकर कार्यक्रम का आनंद लिया और छात्रों की सराहना भी की । कार्यक्रम का आयोजन नियोजन हिंदी विभाग प्रमुख प्रा. अनिल आठवले जी ने सुचारू रूप से किया । इसमें छात्रों का बड़ा योगदान रहा । अंत में हिंदी विभाग प्रमुख प्रा. अनिल आठवले जी ने आभार प्रस्तुत कर कार्यक्रम की समाप्ति राष्ट्रगीत से संपन्न हुई ।

प्रा. अनिल आठवले  
हिंदी विभाग

## संस्कृत विभाग

### संस्कृतदिनसमारोहः।

विद्याप्रसारकमण्डलस्य बा. ना. बांदोडकर विज्ञानमहाविद्यालये (स्वायत्त) 'संस्कृतदिवसः' महता उत्साहेन आचरितः । महाविद्यालयस्य संस्कृतविभागेन एतस्य कार्यक्रमस्य आयोजनं कृतम् । कार्यक्रमः ११ (एकादश) तथा १२ (द्वादश) कक्षायाः छात्रैः प्रस्तुतः । अस्मिन् अवसरे वझे - केळकर - महाविद्यालयस्य संस्कृतविभागप्रमुखा अध्यापिका अदितीमाधवन् महोदया मुख्यातिथिरूपेण उपस्थिता आसीत् । महाविद्यालयस्य परम्परानुसारं पुस्तकैः, पुष्पैः च तस्याः स्वागतं कृतम् । कार्यक्रमस्य आरम्भः सरस्वतीवन्दनेन अभवत् । विभागाध्यक्षा अध्यापिका निशामहोदया प्रस्तावनायां अस्य दिवसस्य इतिहासं महत्त्वं च कथितवती । संस्कृतभाषायाः संरक्षणं प्रचारं प्रसारं उद्दिश्य तथा च तस्याः ज्ञानसम्पदः विषये सर्वान् प्रज्ञापयितुं अयं दिवसः आचर्यते । इति अस्य दिनस्य प्रयोजनम् अपि तया कथितम् । महाविद्यालयस्य प्राचार्यः कॅ. डॉ. मोझेस कोलेट महोदयः छात्राणां कृते आह्वानं कृतवान् यत् ते संस्कृतभाषा तथा आधुनिकशिक्षायाः संयोजनं कुर्वन्तु । संस्कृत - भाषां वाच्यभाषां कर्तुं प्रयत्नः करणीयः, सर्वेऽपि तस्याः ज्ञानं प्राप्नुयात् इति इच्छा अपि सः प्रकटितवान् । महाविद्यालयस्य उपप्राचार्या सुनीता ढाकणे महोदया 'छात्राः संस्कृतभाषायाः परम्पराम् अग्रे नयन्तु, तदर्थं प्रयत्नं कुर्वन्तु इति चिन्तनं प्रकटीकृतवती । तदनन्तरं छात्रैः सांस्कृतिककार्यक्रमाः प्रस्तुताः । नृत्य - नाट्य - सङ्गीत - काव्यशास्त्रविनोदादि कार्यक्रमैः प्रेक्षकाः नन्दिताः । अदितीमहोदया पाठ्यपुस्तकनिर्मितविषये कानिचित् विनोदपूर्णानि उदाहरणानि दत्तवती । संस्कृतभाषायां छात्राणां ज्ञानं रुचिः च वर्धेत् अतः काचित् भाषाक्रीडा अपि क्रीडयति स्म । उपस्थिताः सर्वे जनाः कार्यक्रमम् आस्वाद्य संतुष्टाः अभवन्, स्वगृहं प्रत्ययान् / प्रत्ययुः ।

कु. निशा वर्तक, संस्कृत विभाग प्रमुख  
स्वानंदी पतंगराव, FYJC

**यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ अभ्यासक्रम अहवाल**

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाच्या विविध अभ्यासक्रमांकरता खालीलप्रमाणे नोंदणी झाली.

अभ्यासक्रम	विद्यार्थी संख्या
ग्रंथालय आणि माहितीशास्त्र निष्णात अभ्यासक्रम	२५
ग्रंथालय व माहितीशास्त्र पदवी अभ्यासक्रम	११
वृत्तपत्रविद्या आणि पदविका अभ्यासक्रम	२१
प्रथम वर्ष बॅचलर ऑफ कॉम्प्युटर ऍप्लिकेशन (बी.सी.ए)	१४
द्वितीय वर्ष बॅचलर ऑफ कॉम्प्युटर ऍप्लिकेशन (बी.सी.ए)	०९
तृतीय वर्ष बॅचलर ऑफ कॉम्प्युटर ऍप्लिकेशन (बी.सी.ए)	०३
प्रथम वर्ष मास्टर ऑफ कम्प्युटर ऍप्लिकेशन्स (एम.सी.ए)	०५
द्वितीय वर्ष मास्टर ऑफ कम्प्युटर ऍप्लिकेशन्स (एम.सी.ए)	०७
तृतीय वर्ष मास्टर ऑफ कम्प्युटर ऍप्लिकेशन्स (एम.सी.ए)	०३

जागतिक पुस्तक दिनाचे औचित्य साधून यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाच्या माजी विद्यार्थ्यांचे स्नेहसंमेलन २३ एप्रिल २०२२ रोजी संपन्न झाले. यावेळी २२ माजी विद्यार्थी, प्रा. नारायण बारसे, श्री. पंकज गोडसे उपस्थित होते. या संपूर्ण कार्यक्रमाचे सूत्रसंचालन माजी विद्यार्थिनी सौ. मनीषा चव्हाण यांनी केले. केंद्रसंयोजिका सौ. कादंबरी मांजरेकर यांनी या कार्यक्रमाचे प्रास्तविक केले. सर्वच माजी विद्यार्थी उत्स्फूर्तपणे सादरीकरण करत होते ज्यामध्ये सौ. विभा भगरे यांनी स्वरचित कविता सादर केली, सौ. स्वाती कोबल, आशालता पडवेकर, प्रज्ञा कुचेकर यांनी मनोगत व्यक्त केले. या स्नेहसंमेलनाची सांगता राष्ट्रगीताने झाली.

ग्रंथालय आणि माहितीशास्त्र निष्णात या अभ्यासक्रमाचे २०२२-२३ या शैक्षणिक वर्षाचे शिबीर १९ जानेवारी ते २१ जानेवारी २०२३ या दिवशी पार पडले. दररोज सकाळी ९.०० ते सायंकाळी ६.०० या वेळेत शिबिराचे आयोजन करण्यात आले होते. १९ जानेवारी २०२३ रोजी सकाळी ०९.०० वाजता या शिबिराचे उद्घाटन शिबीर तज्ञ डॉ. सचिन शास्त्री, ग्रंथपाल, व्ही के. के. मेनन वाणिज्य आणि विज्ञान महाविद्यालय, भांडुप व डॉ. महेश दळवी ज्ञानसाधना महाविद्यालय, ठाणे, प्रा. नारायण बारसे, ग्रंथपाल, जोशी बेडेकर कला वाणिज्य महाविद्यालय, ठाणे आणि केंद्रसंयोजिका सौ. कादंबरी मांजरेकर यांच्या हस्ते झाले. या शिबिरासाठी बा.ना.बांदोडकर अभ्यासकेंद्राचे एकूण १८ विद्यार्थी पूर्णवेळ उपस्थित होते. या शिबिरामध्ये १८ विद्यार्थ्यांचे प्रकल्प आराखडे मंजूर झाले.

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाच्या २०२०-२०२१ शैक्षणिक वर्षात उत्तीर्ण झालेल्या विद्यार्थ्यांचा पदवी वितरण सोहळा ५ मार्च २०२३ रोजी संपन्न झाला. महाविद्यालयाचे प्राचार्य डॉ. मोझेस कोलेट सर आणि केंद्रसंयोजिका सौ. कादंबरी मांजरेकर यांनी ग्रंथालय व माहितीशास्त्र पदवी अभ्यासक्रम व ग्रंथालय व माहितीशास्त्र निष्णात अभ्यासक्रमाच्या उपस्थित विद्यार्थ्यांना पदवी वितरित केली.

सौ. कादंबरी मांजरेकर  
केंद्रसंयोजिका

# College Activities



Ms. Geeta Venkatesh, Detroit, US  
(Chemistry Alumnus) guided students  
on 3R's Principle



Gurupournima with Retired Teachers  
of our Teachers



Workshop on Pollution free  
Diwali - Dr. Mahesh Bedekar



An Interactive Session on International Women Day  
by Mr. Patil (SBI, Branch Manager) organized by WDC



Marathi Bhasha Diwas in presence of popular Author  
Mrs. Sadhana Joshi



Sanskrit Din Samaroh by Department of Sanskrit



Educational Visit to Institute for Oriental Study, Thane



Visit to ISCON Community Kitchen organized by Department  
of Biochemistry under Certificate Course - Food Adulteration  
& Quality Management



IV to Keltron Electronics, Kerala by Department of Physics

# College Activities



Certificate Course on Mocktails by Department of Botany



Fun Games organized by Department of Mathematics in Mathelete



Visit to CETP, Navi Mumbai organized by Department of EVS & BWCM



Visit to Powai Lake by Department of EVS & BWCM



Preconference workshop organized by Department of Mathematics & Statistics



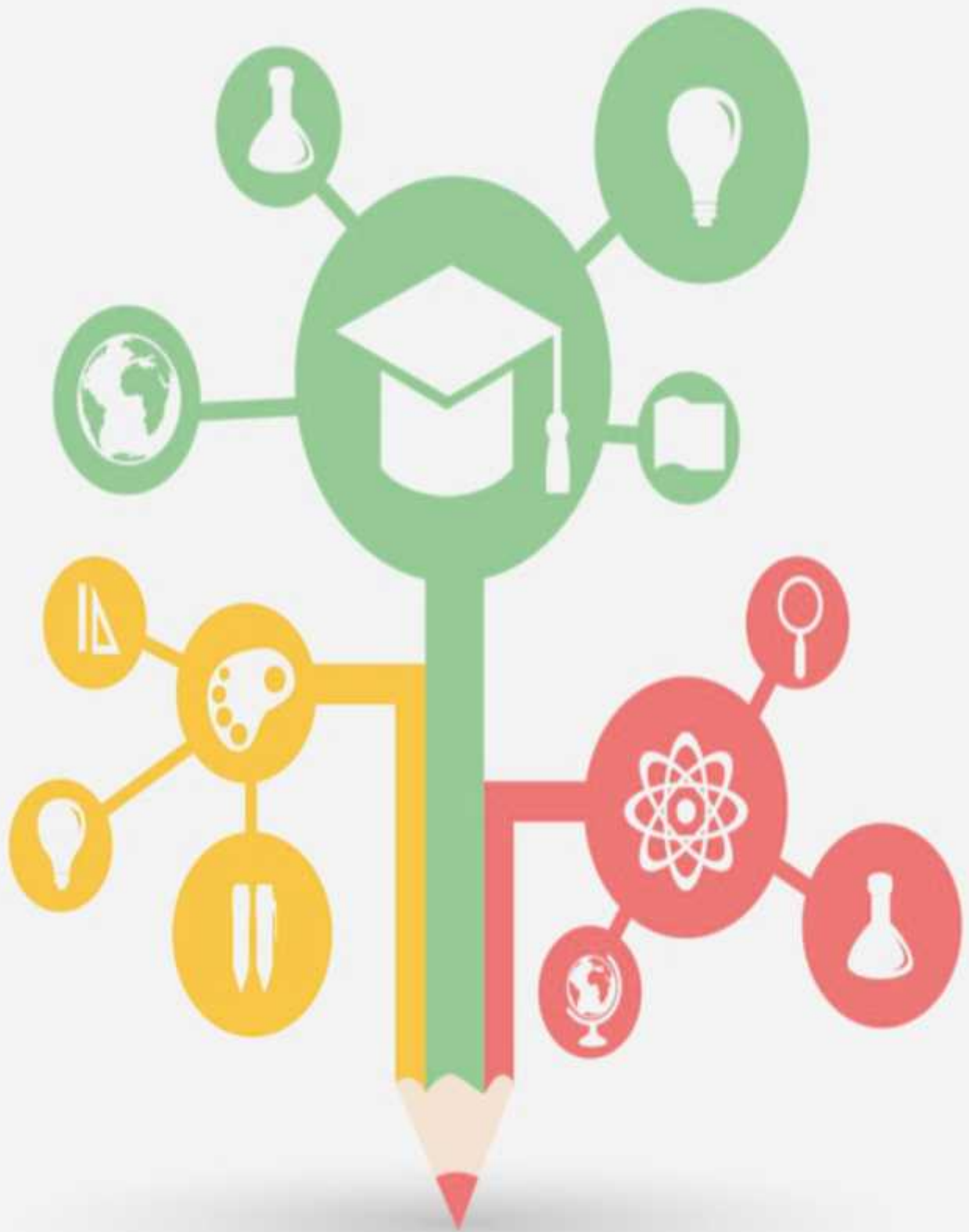
Field Visit organized by Department of Botany



Hosting the Second Term Training Program of DLLE



Colloquium Lecture organized by Department of Statistics



# **Committee Reports**

## Anubandh: Alumni Association

Anubandh: Alumni Association of B. N. Bandodkar College of Science is a registered body under the Vidya Prasarak Mandal trust. Anubandh is actively involved in the planning and execution of various activities throughout the year for students' benefit and overall development of college. Keeping in mind the mental health of the students in especially the stressful environment of the pandemic and exams, Anubandh conducted workshops on "Transformational Meditation" and "Transformation through meditation" on 25<sup>th</sup> June and 27<sup>th</sup> August respectively. Both the workshops were conducted by Shri Umesh Lalit (Secretary of Anubandh Alumni Association, Director, Yoga Alliance International). Guidance Session on "3R's and The Ways to Success in US" was conducted by Ms Geeta Venkatesh (US Chemistry Scholar) on 27<sup>th</sup> June to introduce the concept of 3R's and its implementation in US and to understand the education system of US and ways to success in US.

A workshop on "Translation as a Career" was conducted on 8<sup>th</sup> July by Shri. Narendra Gole, (Retired Senior Scientist BARC). He explained Translation, Translator, necessity of translation and qualities required in a translator. Workshop on Origami: "Happy Folding" was conducted by Mrs. Anushri Tambe (Asst. Prof., A. P. Shah Institute of Technology) on 27<sup>th</sup> August. This origami workshop was conducted to make students aware of paper folding skill, teach few basic folds and models in origami and how this art finds its applications in science and technology. Workshop on Self Defence was conducted on 10<sup>th</sup> September by Shri Sanjay Athavale (Chairman of Anubandh Alumni Association, Ex- State Service Class I Officer). This workshop helped students to understand the importance of self-defence and to learn basic techniques necessary for self defence.

Swaranjali is a theme-based musical activity organized by Vidya Prasarak Mandal colleges. This year, it was organised by B. N. Bandodkar College of Science in collaboration with Anubandh on 17<sup>th</sup> September. This event of Swaranjali was based on the theme "Saundarya" (beauty), expressed through multiple art forms including singing, dance and painting by teachers, students and alumni of the college. Alumni Mrs Shubhada Phatak and Nachiket Kolhatkar gave wonderful singing performances in this event.



Workshop on 'Transformation through meditation' by Shri Umesh Lalit

**Mrs. Umalaxmi Patne**  
Coordinator, Alumni Association

## **Avishkar Committee**

University of Mumbai conducts research convention Avishkar every year for inculcating research culture in young students. For the academic year 2022-23 the first round for 17<sup>th</sup> Avishkar was held on 16<sup>th</sup> December 2022 at Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai. Total 10 project entries in five categories viz. Humanities, Languages and Fine arts, Commerce, Management and Law, Pure sciences, Agriculture and Animal husbandry, Medicine and pharmacy were sent. Twenty five students who worked on these projects presented their work and received participation certificates.

Four projects got selected for the final round that was held on 26<sup>th</sup> December 2022 at Dnyanasadhana College, Thane. One project guided by Principal Dr. Moses Kolet, presented by Ms. Sanjeeda Islam, and Ms. Kavita Gowda –TY Biotechnology students received first consolation prize, in the 'Commerce, Management' and 'Law' category.

Dr. Kalpita Mulye, Dr. Jayashree Pawar with Ms. Mitali Chinnkar, and Ms. Supriya Damle coordinated application collection and uploading process. Ms. Meetali and Ms. Supriya even accompanied students at the competition.

**Dr. Kalpita Mulye**  
(Coordinator, Avishkar Committee)

**Dr. Jayashree Pawar**  
(Co-Coordinator, Avishkar Committee)

## Science Square Committee and Research Scholars Programme (SSRSP)

The following events were carried out throughout the year by the Science Square Committee and Research Scholars Programme (SSRSP):

### ◆ National Science Day Celebration

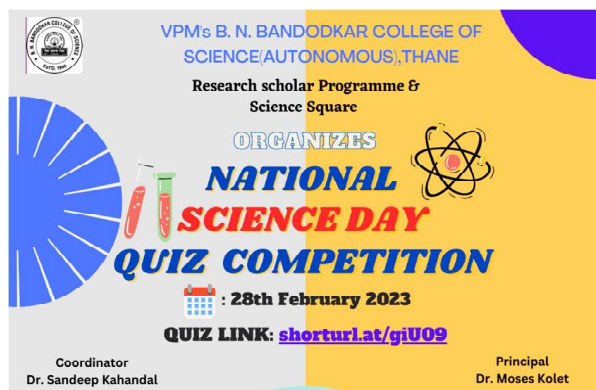
In memory of the Late Sir Chrandrashekhara Venkat Raman, who discovered the “Raman Effect” and which received the Nobel Prize in 1930, India celebrates National Science Day on February 28 every year. It is not only a memorable day but also an honoured tradition among scientists and the academic community of India.

To develop scientifically informed, caring, and responsible students who can think critically, work for betterment of environment and society, the Science Square Committee and Research Scholars Programme (SSRSP) organized “**National Science Day- Quiz 2023**” on 28<sup>th</sup> February 2023, conducted through online mode. In total, 173 students (UG and PG) took part in the online Quiz event and participants got to learn new concepts. This activity helped students expand their knowledge by stimulating their curiosity. It also underlines the importance and relevance of science in our daily lives.

### ◆ Mini Research Projects:

In the years 2022-2023, a total of 2 projects have been received under the Science Square, and through this activity, a platform was provided to the students to become acquainted with research and research methodology.

- ◆ **Satyabhama M. Yadav** completed a project titled ‘Edible flowers – The wonders of culinary world’ under the guidance of **Miss. Aishwarya Deshmukh** and **Dr. Moitreyee Saha**. (Department of Botany)
- ◆ **Ramdas V. Salunkhe, Ramkishan D. Kumbhar, Aastha S. Yadav, Amruta B. Sawant, Ankita S. Sharma, Melvin I. Nadar, Nupur K. Torne, Prachi S. Vishwakarma, Sakshi M. Mishra** completed project titled ‘**INDUSTRIES IN MUMBAI**’ under the guidance of **Mr. Sudhir K. Bhosale** (Foundation Course Department)



**Dr. Sandeep S. Kahandal**

Coordinator- Science Square Committee and  
Research Scholars Programme (SSRSP)

## Cultural Association

**Aakanksha Fest - the college festival of VPM's B. N. Bandodkar College of Science (Autonomous), Thane,** and related cultural activities were organized by the Cultural committee with a different zeal after two years of Covid.

### Theme reveal

The theme of Aakanksha fest for the current year was **Potterhead: Let's enter into a Fantasy World**. The theme reveal event was presented on 19th December 2022. The theme was revealed by students through a short act based on the theme, which the audience enjoyed. Hundred plus audience gathered at the Patanjali auditorium for the theme reveal.

### Youth Festival

The University of Mumbai, Department of Student's Development organized the 55th Youth Festival in the academic year 2022-23. This year B. N. Bandodkar College of Science (Autonomous) Thane, hosted a youth fest for Fine and Literary arts section for zone IV. Around 50 colleges from the zone were invited and attended the fest.

The zonal round eliminations were hosted by the cultural committee, volunteers, teaching and non-teaching staff with the help of NSS volunteers. Two students from our college qualified in the zonal round. **Atharva Bagade** secured **3rd rank** for Classical Instrumental (Percussion) Solo: Taalvadya and **Shlesha Boke** got the **2nd rank** for Indian Classical Dance in the Zonal round.

### Aakanksha Fest: Days Celebration

This year we celebrated group-alike day, Netflix day, meme day, denim day, and traditional day from 19<sup>th</sup> to 24<sup>th</sup> December.

Group-alike day was organised on 19<sup>th</sup> December 2023. Students dressed alike in groups and pairs in decent and catchy outfits. Netflix day was organised on 20<sup>th</sup> December 2023. Participants were encouraged to dress up as their favourite characters featured in Netflix series for the Netflix day. A ramp walk was organized which received great enthusiasm and participation from students. This segment generated great social media activity and engagement.

Meme day was organised on 21<sup>st</sup> December 2023. Students liked this new concept where they dressed up as and portrayed their favourite trending meme character. Students gave great responses and hilarious memes were recreated. Denim day was celebrated on 22<sup>nd</sup> December 2023, when students put on their denim outfits and clicked lots of pictures in the college campus.

Traditional Day was organized on 24th December 2023. Participants came in traditional attire. This was very well appreciated and students got an opportunity to click photographs with their cohort in Traditional clothes. The day's event was a good precursor to the forthcoming Aakanksha Fest celebrations.

### Aakanksha Fest Elimination Round

A series of contests were held as a part of Aakanksha Fest celebrations and the winners of said contests were allowed to perform in the final Aakanksha fest event. The results for Performing Arts, creative arts, and literary arts were declared online.

**Aakanksha Fest Final Event**

Aakanksha Fest was held on 23<sup>rd</sup> December 2022. The event started with the national anthem and lightening of the lamp, followed by the Principal's address. The cultural program began with 'Ganesh Vandana' with a dance performance. The whole event had a storyline in which characters from the Harry Potter series were shown trying to light up interest about the theme in the audience. Bharatanatyam performance, rap songs, classical singing, flute performance, table playing and a few more acts were performed. The fest ended with a DJ night for the audience, which was enjoyed by everyone.

The whole event was streamed live on Instagram and YouTube.

**Dr. Kiran Pariya**  
Coordinator, Cultural Association

## **Department of Lifelong Learning and Extension (DLLE)**

The Department of Lifelong Learning and Extension (DLLE) promotes a meaningful and sustained rapport between the University/colleges and the community. The DLLE offers flexible Continuing Education opportunities for the people.

### **Enrollment:**

The DLLE student's enrollment for the academic year 2022-23 is a total of 116 from various departments. 33 boys and 83 girls have enrolled.

### **First-term training program organized by the University of Mumbai:**

The first term training program for extension work teachers and student managers was organized by the Department of Lifelong Learning and Extension, University of Mumbai on 23<sup>rd</sup> August 2023 in Shri Sidh Thakurnath College of Arts and Commerce Ulhasnagar. Two teachers Ms. Nikeeta Keni and Ms. Komal Kadam and 3 student managers Apurva, Poornima, and Aditya attended the training. Dr. Kunal D. Jadhav (I/C Director DLLE) and many other dignitaries, teachers, and student managers also attended the meeting.

### **First term training program organized by the college:**

First term training program was also organized in B.N.Bandodkar College on 12<sup>th</sup> September 2022 in Patanjali Sabhagruha. The program was held by DLLE Co-ordinator Dr. Vinda Manjramkar and Extension teachers Ms. Nikeeta Keni and Ms. Supriya Damle. The objective of the program was to give instructions and guidance to DLLE students regarding projects like APY, CP, SWS, and IOP and the importance of the project completion for 10 grace marks.

### **Second term training programme organized by the University of Mumbai was organised by Our College.**

The second term training program for extension work teachers and student managers was organized by the Department of Lifelong Learning and Extension, University of Mumbai on 29<sup>th</sup> November 2023 in B. N. Bandodkar College of Science, Thane from 9.30 am-3.30 pm. DLLE Co-ordinator Dr Vinda Manjramkar and all extension teachers Ms. Nikeeta Keni, Ms. Supriya Damle, Ms. Komal Kadam, Dr. Ashwini Tilak, and Ms Pooja Kanse and all student managers Iqra, Apurva, Poornima and Aditya and volunteers of DLLE organized and attended the training. Following dignitaries and teachers attended the training:

Dr. Kunal Jadhav (I/C Director DLLE), Capt. Dr. Moses J. Kolet Principal, B. N. Bandodkar College of Science (Autonomous), Dr. Vinda Manjramkar, Co-ordinator DLLE, B. N. Bandodkar College of Science (Autonomous). Mr. Mandar Bhanushe, Expert Mathematician & Faculty, IDOL, University of Mumbai, was our guest. Dr. Vinda Manjramkar, Dr. Vaishali Nirmalkar, Faculty, G. M. Momin College, Bhiwandi, Dr. Vrinda Nishandar, Faculty, Birla College, Kalyan. The dignitaries have guided for filing of annexures and UDAAN registration.

### **Second term training program organized in college:**

The second term training program for student managers and DLLE students was organized in B. N. Bandodkar college in the Zoology department on 20<sup>th</sup> December 2022. The program was held by all extension teachers to give instructions of UDAAN fest registration as well as guidance for project completion.

**The projects selected by DLLE students are as follows:-**

**Anna Poorna Yojna (APY) Programs**

DLLE students who have undertaken the project of APY organized food stalls in our college at various events like Youth festival, Akaksha fest, UDAAN fest, Zoology fest and other college functions as well as training program etc. They provided food to teachers and students at a lower price with appropriate hygiene. The students gained knowledge and learned about various things such as regular market values of various commodities, business management, overall management, etc. through this program. Total 37 students have enrolled for APY.

**Career project (CP)**

DLLE students who have undertaken the project of CP have taken the interviews of people from various fields such as Teachers, Lawyers, Entrepreneur etc. Total 20 students have enrolled for CP.

**Status of Women In Society (SWS)**

DLLE students who have undertaken the project of SWS have done the survey of 40 women in the local areas of 25 -50 years of age to know the status of women in society. In that survey they know the education of ladies, income source, poverty line etc. Total 47 students have enrolled for SWS.

**Industrial Orientation Program (IOP)**

DLLE students who have undertaken the project of IOP have done the internship in particular industry or workplace and gained a certificate of their work done. Total 10 students have enrolled for IOP.

**UDAAN**

UDAAN is the DLLE fest which was organized in B.N.Bandodkar College of Science, Thane on 15<sup>th</sup> February 2023 in Thorale Bajirao auditorium. Total of 374 participants of DLLE from different colleges across Thane district participated in this program. The DLLE students of B. N. Bandodkar have participated in street play, poster making, creative writing, and powada. **The student won 2<sup>nd</sup> prize in creative writing and Consolidation prize in street play.** They have performed well in these competitions with great spirit.

**Other activities:**

1. DLLE Food stalls of APY were kept open during the Youth festival of university organised by our college on 12<sup>th</sup> August 2022.
2. Ganpati idol-making workshop was held on 26<sup>th</sup> August 2022 and 22 students participated.
3. Mehendi competition month of rain festivals was held on 30<sup>th</sup> August 2022 and 27 students participated.
4. Poster-making competition was held on 10<sup>th</sup> September 2022 and 22 students participated.
5. Kandil-making workshop - pre Diwali skill program for eco-friendly lanterns was held on 15<sup>th</sup> October 2022 and 27 students participated.
6. Suicide prevention workshop was held on 12<sup>th</sup> December 2022.
7. Interview on the news channel of DLLE students.

**Prof. Dr. Mrs. Vinda Manjramkar**  
Co-ordinator, DLLE

## Gymkhana

Gymkhana committee contains 12 members, Secretary - Ms. Kasturi Khandekar, Joint-Secretary - Kalash Dongare, and other members namely Mr. Dhiraj Khade , Mahesh Kale, Sakshi Jadhav, Aakansha Sawant, Jainish Koli, Dev Jadli.

The inauguration of Gymkhana of academic year 2022-23 was organized by the gymkhana department on 26<sup>th</sup> August 2022. Mr. Rajesh Gadgil was chief guest of this ceremony. Dr. Ajit Bhumkar Sir, the coordinator of Gymkhana committee, gave brief information about Gymkhana's various activities and appealed to the students to actively participate in the same. Mr. Rajesh Gadgil explained the basic skill of swimming. He also mentioned how swimming is beneficial. Swimming keeps our body fit and sound. He elaborated on how to use different tactics while swimming. He not only talked about sports information but also talked about leadership qualities. The session was informative and enriching. He further explained to the students how a better career can be pursued in this field and introduced them to the opportunities and skills needed for acquiring good positions in the concerned field.

Students interacted with the speaker and obtained valuable information related to opportunities in the field of Sports. Total 113 Students and 6 Committee members participated in the event.

During this academic year 2022-23 several activities were arranged by the gymkhana department such as Table-Tennis, Chess, Carrom, Box Cricket Tournament, Football Tournaments as well as Athletics. Students also actively participated in Intercollegiate Competitions such as Box Cricket, Football, Kabaddi, Kho-Kho, Volleyball, Chess, Air Rifle Shooting, Judo, Taekwondo, Boxing, Weightlifting, Swimming, Cycling and Athletics. Students showed great enthusiasm and secured **22 medals at university level, 5 medals at DSO level by Jr. College students**. Two students participated in an inter university sports competition.

On the occasion of National Sports Day, the Gymkhana department organized a Carrom tournament on 29<sup>th</sup> August, 2022. Total 55 students (40 boys and 15 girls) participated.

The Gymkhana department organized 'Annual Sport Day' event from 15<sup>th</sup> December 2022 to 23<sup>rd</sup> December 2022. In this event the committee organized Table-Tennis, Chess, Carrom, Box Cricket Tournament, Football Tournaments as well as Athletics like 200 m run, 400 m run, disc throw, short put. There were 326 students participated from our college with great enthusiasm.

On 17<sup>th</sup> February, 2023 Gymkhana department organized 'Annual Sport Prize Distribution Ceremony'. The Chief guest for this ceremony was Miss Ketaki Jagdish Gokhale (International Artistic Gymnast). She explained the importance of sport. On this day all the sports competition winners were felicitated with the medals.

**Dr. Ajit Bhumkar**  
Coordinator, Gymkhana

## **National Cadet Corp (NCC)**

- **Administrative Front: -**

1. Pralhad Lalba Dahikamble appointed as a Senior Under Officer.
2. Ashishkumar Kripashankar Yadav and Ashish Santosh Gujar were appointed as a Junior Under Officer.
3. Shubham Mangesh Jadhav was appointed as Company Sergeant Master.
4. Pankaj Chandrabhushan Yadav was appointed as a Company Quarter Master Sergeant.

- **Enrollment Drive: -**

Enrollment starts in the month of June. Selection was taken on Physical and Mental basis of the cadets. Eligible cadets got selected in that.

- **NCC Activities: -**

1. Our ASC Thane unit also celebrates Independent Day and Republic Day every year and also organises various programs.
2. Cadets also participate in various social activities like blood donation, Tree plantation, Kargil Vijay Diwas, Shahid Diwas, Yoga Day and many other activities.
3. Cadets also participate in various rallies like Anti Drug Rally, Night March etc.

- **National Level Camps: -**

1. JUO Field Ashish Gujar did Shivaji Trekking Camp at Pune.
2. LCPL Nihal Gilbile did Ek Bharat Shreshtha Bharat (EBSB) Camp at Odisha.
3. CDT Shailesh Yadav did Basic Leadership Camp at Aurangabad.
4. CDT Shubham Prajapati did Basic Leadership Camp at Aurangabad.
5. CDT Rahul Yadav did Army Attachment Camp at Pune.
6. CDT Shubham Yadav did Basic Leadership Camp and Advance Leadership Camp at Aurangabad.
7. CDT Amol Udugade did Ek Bharat Shreshtha Bharat (EBSB) Camp at Aurangabad

- **State Level Camps: -**

1. SUO Prahlad Dahikamble did Thal Sainik Camp till IGC at Ahmednagar.
2. JUO Ashishkumar Yadav did Army Attachment Camp at Pune.
3. CSM Shubham Jadhav did Thal Sainik Camp till CAT 3.
4. CQMS Pankaj Yadav did Thal Sainik Camp till IGC at Ahmednagar.
5. SGT Onkar Chorati did Republic Day Camp till IGC.

6. SGT Manish Dabhade did Thal Sainik Camp till IGC at Ahmednagar and Republic Day Camp till IGC at Pune.
7. CPL Mahadeva Wakle did Army Attachment Camp at Pune.
8. CPL Aditya Shinde did Army Attachment Camp at Nashik Center .
9. LCPL Kunal Matele did Army Attachment Camp at Nashik Center.
10. CDT Abhang Devale did Republic Day Camp till IGC at Pune.
11. CDT Shubham Yadav did Thal Sainik Camp till IGC at Ahmednagar and Republic Day Camp at Pune.
12. 4 cadets represent Mumbai 'B' group in Thal Sainik Camp till IGC at Ahmednagar.
13. 3 cadets represent Mumbai 'B' group in Republic Day Camp till IGC at Pune
14. 4 cadets did Army attachment camp at Pune and 2 did at Nashik centre. total 6 cadets did army attachment camp

● **Regional Level Camps: -**

Many of our cadets represented our ASC Thane unit Combined Annual Training Camp held at Khadawali and ASC Thane College Campus.

● **Noteworthy Achievements: -**

CDT Shailesh Yadav represented All India Thal Sainik Camp at Delhi in 2022.

● **Important Events of 1 MAH BN/ ASC Thane NCC Army Boys UNIT**

Sr.No.	Event No.	Date	Chief Guest
1	Indian Army Day	15/01/2022	Sub.Maj. Rajkumar
2	Yoga And Well being	12/02/2022	Shri. Umesh Lalit
3	Bharatratna Lata Mangeskar Bhavpurna Shradhanjali	10/02/2022	---
4	Black Day	14/02/2022	Capt.Bipin Dhumale
5	Occasion of Chhatrapati Shivaji Maharaj Jayanti	19/02/2022	Dr.(Capt.)Moses Kolet
6	Anubandh Alumni Association	26/02/2022	Dr.(Capt.)Moses Kolet
7	Traffic Safety Awareness	07/03/2022	Ms.Vidhi Kothari
8	International Woman's Day	08/03/2022	Dr.(Capt.)Moses Kolet
9	International Day of Clean Air Air For Blue Skies	07/09/2022	

## SANYUJA 2022-23

10	Cleanliness Campaign Program	10/08/2022	Dr.(Capt.)Moses Kolet
11	Cleanliness Campaign Program	11/08/2022	Dr.(Capt.)Moses Kolet
12	75th Independence Day of India	15/08/2022	Dr.(Capt.) Moses Kolet
13	Blood Donation Camp	06/08/2022	Dr. (Capt.) Moses Kolet
14	National Anthem singing program	09/08/2022	Indian Army Soldier Havaladar Bhup Singh/ Havaladar Dk Singh
15	Har Ghar Tiranga Rally program under Amrit Mahotsav of Independence	10/08/2022	Dr.(Capt.) Moses Kolet
16	Puneet Sagar Abhiyan	12/08/2022	Capt. Bipin Dhumale
17	Ncc Day	04/11/2022	Capt. Bipin Dhumale
18	Sea Visit	14/11/2022	Capt. Bipin Dhumale
19	Blood Donation	24/11/2022	Capt. Bipin Dhumale
20	Aids Day	01/12/2022	Capt. Bipin Dhumale
21	Puneet Sagar Abhiyan	05/12/2022	Capt. Bipin Dhumale
22	Nishchay Seminar	10/02/2023	Aishwarya M. Singh
23	Blood Donation	26/12/2022	Capt. Bipin Dhumale
24	Swachhta Abhiyan	11/01/2023	Capt. Bipin Dhumale
25	No Honking Awareness Drive	30/01/2023	Dr. Mahesh Bedekar
26	Republic Day	26/01/2023	Dr.(Capt.) Moses Kolet
27	Cleanliness Drive	11/02/2023	Capt. Bipin Dhumale
28	The Story of Bravery and Sacrifice of Indian Army	28/01/2023	Sub.Maj.Hon.Capt. Yogendra Singh Yadav
29	Black Day	14/02/2023	Dr.(Capt.)Moses Kolet, Capt. Bipin Dhumale
30	Yuva Utsav	21/03/2023	Dr.(Capt.) Moses Kolet

**Capt. Bipin Dhumale**  
Associate NCC Officer

## **National Service Scheme (NSS)**

The NSS unit of VPM's B N Bandodkar College of Science (Autonomous), Thane is working to identify the needs and problems of the community and involve the NSS volunteers in problem-solving exercise to develop a sense of social and civic responsibility among themselves. It also helps to acquire leadership qualities and democratic values for national integration and social harmony. NSS attempts to establish meaningful linkages between 'Campus and Community,' 'College and Village' and 'Knowledge and Action'.

In the academic year 2022-23 NSS unit had organized various activities for the benefits of students, staff, and society. In this we have addressed an important issue based on various themes. A district level street play competition was arranged in collaboration with the Social welfare Department of Thane District and Nasha Mukti mandal, Maharashtra state.

The first theme highlights the importance of reduction of pollution through cleanliness of the self and surroundings. Sensitization of students with respect to environmental issues was accomplished through a number of events under this theme. NSS had conducted various cleanliness drives at college campus, historical place, Thane central jail, Mahagiri coastal area in collaboration with Paryavaran Dakshata mandal, Babasaheb Ambedkar Statue cleaning in collaboration with TMC, Cleanliness Drive at Chirma Devi fountain. In addition to this 7-days **SAY NO TO PLASTIC (ZERO PLAST)** drive was conducted in the college campus and surrounding area. Under the national program of Azadi ka Amrit Mahotsav, mega tree plantation was conducted at Yeoor as well as on the college campus. A Mega E-waste collection drive was also conducted. Street play was presented by the students at Mumbai on 'Vasundhara Diwas' to create awareness on hazards of plastic waste. Days like International Day of Clean Air for Blue Skies, World water day were celebrated keeping the intention to sensitize the students. The movie was screened on **"MI DHAMAPUR TALAO BOLTOY."** The Pollution Free Diwali Campaign was conducted by the students. The Nisarga Mela Treasure hunt competition was conducted to understand the importance of preservation of natural resources.

The second theme was based on the importance of health and hygiene. Under this theme various drives were conducted. Three blood donation camps were conducted at the college in which the majority of blood donors were the current NSS, non-NSS, Ex-NSS students and teachers of our college. Vaccination drive for a second dose against Covid was conducted. Mega Diabetes Screening and Eye checkup camp was conducted which was held beneficial for all stakeholders. Students participated in rallies on road safety week and organ donation awareness and AIDS awareness. Street play was conducted by the students in the campus on Cancer awareness. Seminars were conducted on international drugs day and feminine hygiene.

Other various days were celebrated like Maharashtra Din, Independence Day, NSS Foundation Day, Indian Constitution Day, Dr. Babasaheb Ambedkar Mahaparinirvaan Day, National Voters Day, Republic Day, Shivjayanti, National Constitution Day, International Women's Day.

Students participated in Rakhi making and Ganpati idol making workshops which were organized in collaboration with Paryavaran Dakshata Mandal. Students contributed to Voter Id Registration and Aadhar Card Linking Camp organized by the Collector office. A Rakhi selling stall was installed in college to help the women of Seva Vivek and the children of Sobati Foundation. NSS volunteers contributed in Covid vaccination drive, resource collection drive (clothes and

utility articles) and their distribution to the concerned people. Awareness programmes had been organized to address issues including cybercrime, mental health, World Heart Day, Cyber Sakhi, voting awareness, AIDS awareness, traffic safety, women empowerment, and women's defense. Students participated in a rally Beti Bachao Beti Padhao in collaboration with VPM's Law college.

University of Mumbai suggested various programs for NSS students. Our students conducted and participated in these programs. Countdown Programme of International Yoga Day, International Yoga Day, Shivrajyabhishek Sohala, Harghar-Tiranga Mass National Anthem Singing, Harghartiranga Patriotic Film screening, Fit India Campaign, National Unity Run And Pledge, Birth Anniversary of Sardar Vallabhbhai Patel, Vigilance Awareness, Integrity Pledge. Students also Participated in programs arranged by University like Bhajan Sandhya and National Conference about Struggle for Swatantrata Through Science.

NSS has organized a 7-days residential camp from 3<sup>rd</sup> January to 9<sup>th</sup> January 2023 at Maan Ashram Shala, Maan Village, Vikramgad, District Palghar. Through this camp students interacted with school children and guided them through education, cultural and sports activities. Students also contributed in cleaning and setting their surroundings as per their requirements and advice of the authority.

These social outreach programs brought a great impact on the comprehensive development of the students as they come across different categories of people and their living standards. It also helped in bringing hidden personality traits of students which will eventually help them to become a better citizen.

NSS unit has remarkable achievements for the year 2022-23: In this academic year Secretary of NSS Kaustubh Jadhav attended Pre-RD State Level Selection Camp and Aavhan (State Level Training Camp on Disaster Management). Tushar Dalvi has attended State Level Adventure camp. Joint- secretary Vrushali Shinde has attended the National Integration Camp. Four students Sanskriti Mourya, Shailesh Pal, Shubham Baiker and Khan Taha attended District level NSS camp. Three students Nandini Tyagi, Advait Rawool and Simran Nishad attended LTP camp. Pradnya

Mane has secured first prize in a university level slogan writing competition. A team of students secured 2<sup>nd</sup> prize in intercollegiate dance competition at JVM's Mehta College. A team of students also secured 2<sup>nd</sup> prize in district level street play competition organized by Paryavaran Dakshata Mandal. Team of NSS secured 1<sup>st</sup> Prize in NYK District level Competition & 2<sup>nd</sup> Prize in Goonj Intercollegiate Dance Competition.



Some Achievements and Various Street Plays

**Dr. Ujjwala Gokhe**  
NSS, Coordinator

## **Research Committee**

All students of V.P.M'S B. N. Bandodkar College of Science (Autonomous) Thane can gain the highest education in all aspects and in all streams. Our college is one of the first colleges to promote a research culture among faculty and staff members. The college is dedicated to encouraging a research culture among faculty and students since basic, long-term research sets the foundation for the institution's future growth.

A committee "Science Square" has been propagating research culture among the students since 2004. Considering the recommendation by NAAC a Research Committee was formed in June 2009. The college implemented a number of policies to improve research efforts generally and sustainably as part of its journey toward excellence. The relevant management body educated, inspired, and assisted the academic members in creating and submitting research proposals for extramural support to several funding organizations.

Mini-research projects have been one of the crucial components of all the college's submissions to UGC, DBT, DST, Mumbai University, and various agencies. With all of these efforts, notable outcomes have been attained, particularly in terms of establishing a research culture among students and the teachers serving as these students' mentors. The research policy of the college aims to realize the institution's vision and mission and identify research areas of academic, practical, and social significance to contribute to the country's development. It also aims to develop and promote the scientific temperament and research aptitude of all students.

The contemporary College places a high priority on research and knowledge exchange. This policy's goal is to guarantee that everyone is on the same page regarding the College's research objectives, goals, and supporting procedures.

Participation in Research Convention Avishkar 17<sup>th</sup> Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai on December 16, 2022, for **Thane** zone. 35 students from our institution participated in this competition in the 5 different categories.

National Science Day is celebrated annually on February 28 in honor of Indian physicist and Nobel Prize winner Sir Chandrasekhara Venkata Raman, who discovered the Raman Effect. The Science Square Committee and Research Committee jointly celebrate one of the important science festivals.

On March 20, 2023, the Research Committee scheduled personal interviews for Ph.D. admission. For the subjects of Botany, Chemistry, Environmental Science, and Zoology, interviews were held.

The teaching staff is encouraged to prepare and present a small research project proposal during this academic year to the research committee. Regularly RAC conducted by the committee for progress report of the students.

**Prof. Dr. V. M. Jamdhade**  
Coordinator, Research Committee

## **Women Development Cell (WDC)**

### **❑ Guest Lecture on “Know your Rights” 21/09/2022**

Women development Cell of B. N. Bandodkar College of Science Conducted lecture on “Know Your Rights” conducted by invited speaker Advocate Jyotsna Banale on September 21, 2022 at Patanjali Auditorium at 1.30 p.m.

All the legal rights that women should know were told to the students during the lecture with following key points:

- ◆ Women rights under the constitution of India
- ◆ Crime against women
- ◆ Domestic Violence
- ◆ Women-specific legislation
- ◆ The Vishakha guidelines
- ◆ Free legal aid
- ◆ Government Institution
- ◆ Helpline numbers

The lecture is attended by 97 students of FYBSc, SYBSc and TYBSc students along with teaching and non-teaching staff of the college.

### **❑ International Women’s Day celebration, March 08, 2023**

On the occasion of International Women’s Day, Women Development Cell and NSS Unit of B. N. Bandodkar college of Science organized various activities along with the guest lecture on March 08, 2023 at Patanjali Auditorium from 11am to 5pm

From 11am to 2pm various game activities were conducted by NSS students and many of the teachers along with the students participated in the activities.

Dr. Mrs Vinda Manjramkar (Professor, Zoology Department) gave a wonderful talk on women’s rights and today’s scenario. The complete status of women in India and her contribution in overall development of society was brought to the notice of the audience.

Mr. Ganesh Patil (Branch Manager, SBI) was invited to deliver a talk on the “Investment Schemes”. He gave the complete insight of all the investment opportunities available related to State Bank of India. Systematic Investment plan and the benefit of the medi-claim policy was the key ingredient of his talk.

Thirty two faculty members along with 96 students participated actively throughout the programme.

All the outstanding female students along with the female staff were felicitated with Medals by the Principal Dr. Moses Kolet sir. Mrs. Minal Wankhede (Coordinator, WDC) proposed a vote of thanks at the end.

**Mrs. Minal Wankhede**  
Coordinator, WDC

## Yoga Committee

Yoga class was started from the academic year 2000 - 2001 in collaboration with Shri Ambika Yog Kutir, Thane under the guidance of Mr. M.H. Dixit Sir and Dr. R.P. Athlaye Sir.

The Yoga committee provides yoga training free of cost to the students and staff of this college (and other institutes of Vidya Prasarak Mandal) in collaboration with Shri Nikam Guruji's Shri Ambika Yog Kutir, Thane.

We celebrated International Yoga Day on 21<sup>st</sup> June 2022 in collaboration with Ambika Yog Kutir, Thane. All together 205 participants attended this session. 10 yoga teachers from the Kutir guided the participants during the session.

Shri. Ramachandra Surveji, Secretary of Shri Ambika Yog Kutir, Thane and the yoga teachers of Kutir extended their excellent co-operation to teach a 3 month certificate course. The training is given once in a week for 2 hours duration. The course is completed in 8 to 10 days of training. This yoga course was conducted for FYJC Students of B.N. Bandodkar College for the academic year 2022-2023 in patanjali Yog Kendra. The duration of the course was from 26<sup>th</sup> Sept 2022 to 29<sup>th</sup> Dec.2022. 480 students were involved in this course, out of which 321 students successfully completed the course. Certificated distribution function was arranged for these students on 13<sup>th</sup> March 2023 in Patanjali Sabhagruh. Neti workshop was conducted for Non teaching Staff and for FYJC Students under the guidance Mrs. S.D. Pimpure & Mrs.D.D.Ladhe during the academic year 2022-2023. 15 Non-teaching staff and 85 Students attended the workshop and successfully practiced Neti.

The yoga package designed by Shri. Nikam Guruji is useful to prevent sickness and has ability even to cure different ailments of body and mind. I appeal to the students and staff to learn and practice yoga for total health.

In future, we are planning to conduct different workshops in yoga on Shuddhi Kriya, Neti and Suryanamaskar for Students, Teaching & Non-teaching Staff of Vidya Prasarak Mandal.

The Committee extends its sincere thanks to Shri Ambika Yog Kutir, VPM Management, Principal Captain Dr. Moses Kolet Sir, teaching and non-teaching staff for their excellent co-operation.



**Mrs. Shubhangi D. Pimpure**  
Coordinator, Yoga Committee

# Cultural Activities



Youth Fest Zonal Round Inauguration



Youth Fest Zonal Round Prize Distribution



Inspection by Zonal Coordinator & Co-Coordinator

## 75th Azadi Ka Amrit Mahotsav Cultural Events



Cultural Association 2022-23

Cultural Volunteers 2022-23



Bollywood Day



Traditional Day



Denim Day



Performances by Students & Teachers at Aakanksha Fest 2022-23

(Collage Credit: Shreyas Phansekar (Cultural Joint Secretary))

# Gymkhana Sports Achivements



**Mr. Shubham U Yadav**  
3rd Place In Inter College  
Shooting Competition



**Ms. Rishita Arenkeri**  
Silver Medal In DSO  
Kickboxing



**Ms. Amruta P Thombre**  
Silver Medal- Intercollegiate  
Wrestling Competition



**Mr. Tharv Sable**  
2nd in 1500m



**Mr. Aaraf Mansoori**  
2nd in MU Power Lifting  
Thane Zone



**Mr. Shreyas D Mistry**  
Bronze Medal In Individual  
Cycling Road competition  
All India Level Selection



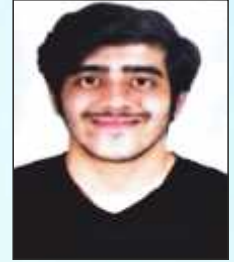
**Ms. Shraddha Patil**  
Bronze Medal In 100m Sprint



**Mr. Pratik P Darde**  
Silver Medal In Intercollegiate  
& Team Runner up



**Mr. Harshit A Divedi**  
Gold Medal In MU 200m



**Mr. Aditya Bhat**  
2nd in MU Power Lifting  
Thane Zone



**Mr. Koustubh S Shirke**  
Silver Medal In Interzonal  
U/60 KG



**Mr. Neelkamal B Bandgar**  
Gold & Silver Medal In MU  
Interzonal 10m Air Pistol Shooting  
All India Level Selection



**Ms. Neha S Pawar**  
Silver Medal In Interzonal  
Weight Lifting



**Ms. Sakshi Tambe**  
Gold Medal In  
Intercollegiate Wrestling



**Mr. Aditya S Shinde**  
Intercollegiate Team  
Runner Up



**Mr. Paramveer D Singh**  
Gold Medal In MU  
Boxing tournament



**Mr. Harsh K Manera**  
Gold Medal In Inter  
Collegiate Peep sight rifle



**Ms. Mansi Gadag**  
Silver Medal In Inter  
Collegiate Open Sightrifle



**Ms. Khushi Swarn**  
4th Place in Carrom



**Mr. Harshad S Pawar**  
Gold Medal In MU Boxing  
tournament



**Mr. Raunak Mali**  
Bronze Medal In 51-54  
Weight Category



**Ms. Deebanshi A Patil**  
2nd rank in Skating (Quad)  
(Collage Credit: Mr. Smit Haware SYBSc BZ)



**Ms. Shreya Joshi**  
1st in 400m



**Mr. Prasad A Patil**  
Selected For School Games  
National Competition



**Mr. Koustubh S Patil**  
Division Leval Chess  
Participation

(Collage Credit: Mr. Smit Hawre)

# NCC Activities



Career Guidance Session



Unity Day Celebration



Celebration of Constitution Citizenship Day



National Martyrs Day Celebration



Black Day Celebration



Republic Day Celebration

# NSS Activities



Tree Plantation



NSS Foundation Day



Pollution Free Diwali



NSS Committee Members



Environment Friendly Ganeshotsav



District Level Street Play Competition



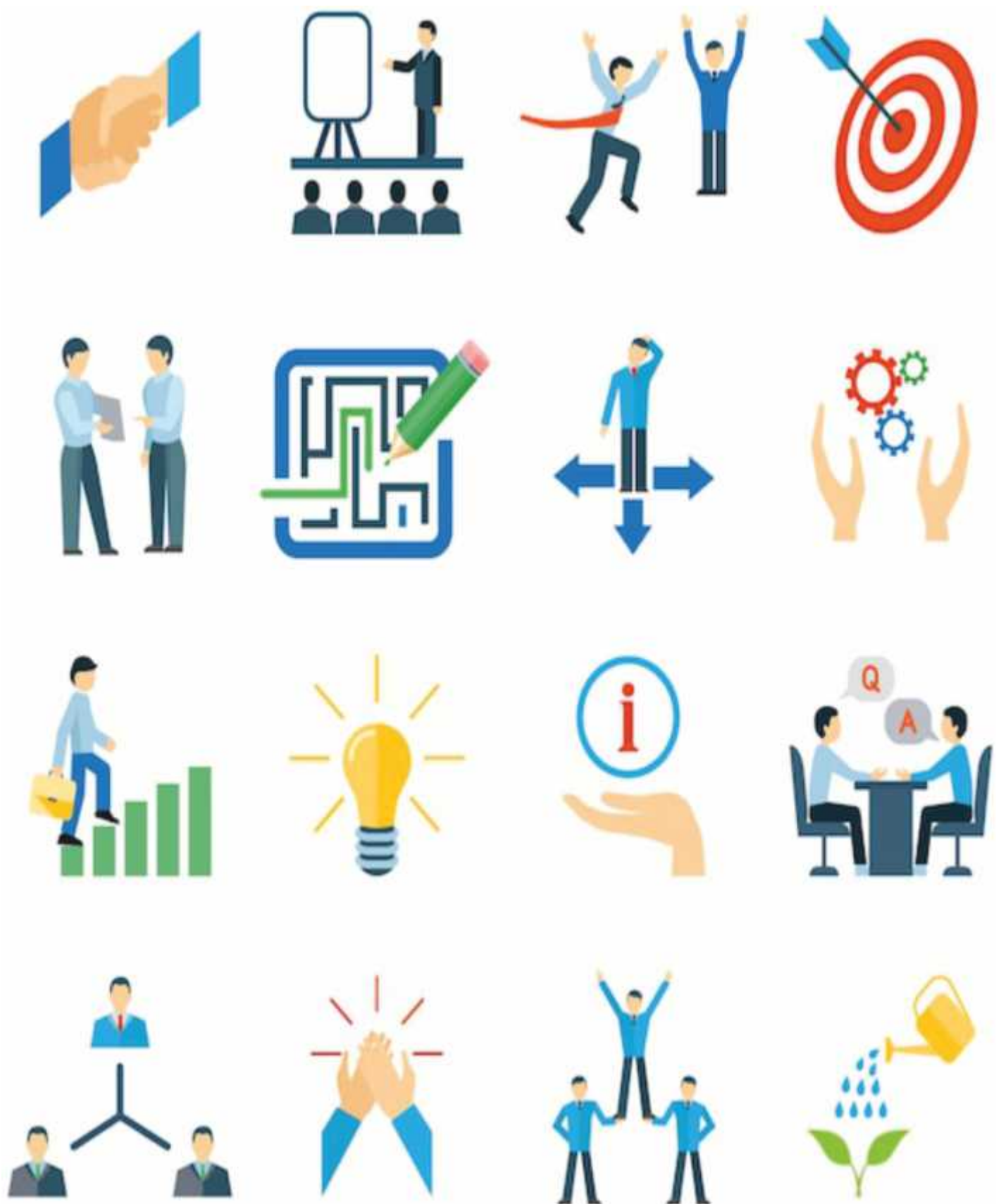
NSS 7 Days Residential Camp Activities



Cleanliness Drive at Chirma Devi Temple & ZeroPlast (Say 'No To Plastic')



Mega Blood Donation Camp  
(Collage Credit: Mr. Kaustubh Jadhav (NSS, Secretary))



**Promising Careers**

## **B.Sc. in Nutritionist and Dietetics : A Career option after 12<sup>th</sup> Science (PCB)**

Students who are good in science but have a phobia or dislike mathematics, can pursue higher education in biological sciences. There are different courses for biology students without mathematics. Among all, the medical field is considered a highly reputed one. Science groups students have a great future in the medical field. Mostly, science groups, students can go with the medical field. Apart from the Bachelor of Medicine and Bachelor of Surgery, there are many divisions in the medical field. The medical field has a lot of potential opportunities in current circumstances. The medical field ensures job opportunities. Mostly people know only about MBBS and Nursing Courses that are related to the medical field but, in reality, there are 35 divisions in the medical field. Each division focuses on a particular specialized topic.

One more interesting field is Nutritionist and Dietetics.

### **B.Sc. in Nutritionist and Dietetics**

B.Sc. Nutrition and Dietetics, also known as bachelor of science in nutrition and dietetics, is an undergraduate program. Usually, this course is pursued by the students of bioscience.

#### **Course includes : -**

This program includes subjects related to nutrition and dietetics science and educates students about lifestyle management, managing eating habits, food habits, preparing a suitable diet for others, managing a balanced diet, food management, etc. The syllabus consists of chapters like food microbiology, Human physiology, food quality analysis, nutritional ethics, food service management, etc.

#### **Basic Eligibility : -**

- An applicant should pass 10+2.
- An applicant must be a student of the bioscience field.
- Minimum 50% marks in HSC from affiliated boards or University.
- Merit-based selection.
- Few colleges hold entrance exams as a criterion for eligibility.

#### **To get admission, a candidate must follow these steps :**

- First, the candidate has to fill up the application form of the college appropriately.
- The next step is preparing a merit list for counseling.
- At last, the candidate will be called for an interview, document verification, and enrolment.
- When a candidate proves their eligibility, they can be granted admissions for this program.

#### **Fees structure and duration of course : -**

This is a three-year full-time semester patterned course.

The average annual fee for this course is usually 50,000 to 2.5 lacs per annum, depending on the colleges for the universities.

**Job Prospectus :-** Dietician, Marketing manager, Clinical dietitian, Nutritionist

**Salary –** Average salary INR 3,00,000 to 15,00,000/-

**Employment area:-** Canteen, catering departments (star hotels), food service field, health and recreation club, health care field, health department (GOVT./PVT), hospitals, nursing care facilities, restaurants etc.

**Top recruiting organization –** Health care, health department (GOVT/PVT) hospitals, nursing care and restaurants etc.

- Bachelor of Science Honours in Nutrition and Dietetics emphasizes on food, diet, nutrition, production, preservation, management, among others.
- The course is a part of science which focuses on the effects of food on the health of humans. Moreover, the field also emphasizes a complete scientific understanding of nutrition alongside the practical application in terms of rehabilitation and healthcare of the patients.

**Mrs. Ashwini V. Sawant**

Assistant Teacher, Department of Biology

## Career Prospects in Biodiversity, Wildlife Conservation and Management

The main aim of the course is to provide knowledge on current theories in wildlife administration and present an insight into appropriate protection policies and act and their implementation mechanism at a global and local level. It also focuses on the control and management of untamed life populations and living spaces. One can also learn about the fundamental policies which work towards the betterment and protection of wildlife.

After completing the degree in Wildlife Management, candidate can discover career prospects in the government as well as the private sector. Apart from this, one can get associated with NGOs or help groups to work for the betterment of the wildlife or environment.

Below are the various career options which can be chosen after getting the degree.

- Conservation Official
- Ecologist
- Forestry Expert
- Habitat Manager
- Wildlife Biologist
- Researchers
- Wildlife Photographers
- Film/ Documentary making for BBC, Discovery, National Geographic
- Wildlife Journalism
- Wildlife Educator
- Wildlife Law Enforcement Officer
- Wildlife Technician
- Wildlife Inspector and Forensics Specialist

### Benefits of the course

- Wildlife Conservation specialists give persons with the ability to be involved in a variety of tasks and projects at the same time, such as monitoring or studying fauna in the wild or in captivity.
- In most cases, the task entails both office and engrossing field work.
- It is beneficial for avid nature and wildlife enthusiasts, campers, trekkers and wilderness explorers.

**Some of the minor disadvantages as follows :**

- Long working hours and adhering to strict deadlines.
- Requires field trips (even in remote areas), being away from home for extended periods.

Completing the course from a renowned institute makes a great impact, with respect to knowledge gain, swift placements, and overall development. Here is a list of some of the renowned Indian institutes offering wildlife management courses.

- Wildlife Institute of India (WII), Dehradun
- Advanced Institute for Wildlife Conservation (AIWC), Kelambakkam (TN)
- Agharkar Research Institute (ARI), Pune
- Aligarh Muslim University (AMU), Aligarh

A variety of top universities in the world also offer these courses. Some of the renowned universities offering this course are mentioned below.

- Monash University, Australia
- University of Alberta, Canada
- University of Leeds, England
- University of Otago, New Zealand

**Mr. Aditya Mhatre**

Assistant Professor,

Department of Biodiversity, Wildlife Conservation and Management

## Environmental Science as a Career

The area of biology known as environmental science is focused on how organisms and their environments interact. In order to research the environment and find solutions to environmental issues, environmental science incorporates physical and biological disciplines, including but not limited to ecology, physics, chemistry, biology, soil science, geology, atmospheric science, and geography. An integrated, quantitative, and interdisciplinary approach to the study of environmental systems is provided by environmental science. The earth's environment has been the primary source of life for all living things. Everything that we need to sustain life, including food, clothing, housing, water, sunlight, and air, is provided for us by the environment. However, the accelerated rate of urbanization and industrialization has seriously upset and disrupted the ecological balance in our environment, leading to unsustainable growth and development.

This increase may appear to us to be beneficial in the short term, but it will be harmful in the long run. As a result, there is now a higher awareness of the need to preserve and safeguard the ecosystem and all of its valuable elements. Environmentalists and environmental scientists have a big obligation to suggest various environmentally friendly development approaches. At all levels—international, national, state, and local—there is a growing awareness of the need to continue development without endangering the environment, but whether or not this is even conceivable is a question that can only be answered by environmentalists. Research organizations are constantly working to create eco-friendly processes or technologies to protect our environment. MNCs are using eco-friendly techniques in their business. The field of environmental studies has thus opened up a wide range of options.

Clean air, noise reduction, water protection, pollution control, waste management, and other processes call for new services, and these goods and services have contributed to the creation of numerous jobs. For environmental scientists, engineers, modelers, biologists, journalists, and many other professionals, a career in environmental science promises excellent employment options.

Environmental science is mainly the study of energy conservation, biodiversity, climate change, contaminated groundwater, contaminated soil, and the numerous technologies created to treat pollution caused by air, water, sound, industry, vehicles, and plastics. Since people all across the world have grown more concerned with maintaining a clean and protected environment, environmental science has recently become a sought-after career.

The concern for the preservation and protection of our environment is very broad. A specific field is required, such as environmental science, ecological science, environmental technology, and many more. Environmental education is one method of addressing environmental issues. The first time environmental education was mentioned was at the 1977 Stockholm Conference on Environmental Education in Tbilisi, Georgia Republic. Here, a number of guiding principles were established for the establishment of environmental education programs in many nations, including India. Since 1980, numerous environmental-related initiatives have been launched in Indian universities and elsewhere. Separate departments have also been created for the study of environmental science.

Understanding earth processes, assessing alternative energy sources, reducing pollution, managing natural resources, and studying the effects of climate change are just a few of the

topics that environmental scientists study. Physical, chemical, and biological processes almost invariably interact with one another to create environmental challenges. Environmental scientists analyse environmental issues using a methodical methodology. The capacity to relate spatial and temporal correlations as well as quantitative analysis are essential skills for environmental scientists.

### **Leadership Attributes**

Programs in environmental science require a thorough understanding of the topic because they are multi-disciplinary and comprehensive in character. To pursue a profession in environmental science, one must have a high aptitude and ambition. Additionally, one should be interested in environmental and public health issues. Those who are interested in a profession in environmental science should be self-starters and have the ability to lead or work in a team.

### **Courses and Eligibility**

Candidates must meet the requirements listed below in order to be considered for admission to the M.Sc. in Environmental Science program. The applicant must have obtained a Bachelor of Science degree from a recognized university, institution, or institute in any subject of science other than mathematics and statistics. Candidates must have earned a bachelor's or graduate degree with at least 60% of the possible points. Candidates from SC, ST, and OBC are also given a 5% relaxation. Several colleges and universities also make reference to the scores obtained in their own entrance exams.

Doctoral programs such as Ph.D. in Environmental Science are also available at the institute.

### **Job Prospects**

Careers in environmental science provide many job prospects. The word "Environmental Science" encompasses a number of activities that are aimed at preserving the environment. As a result, environmental scientists, professors, biologists, environmental professionals, engineers, and environmental journalists have a good amount of career options. According to their knowledge and experience, environmental scientists with master's or doctoral degrees can find rewarding positions. They are required by the departments and organisations listed below:

### **National Level Departments/ Organizations**

- Industries, distilleries, fertilizer plants, mines, refineries, textile mills, etc.
- Social Development
- Research and Development
- Forest and Wildlife Management
- NGOs
- Pollution Control Boards
- Urban Planning
- Water Resources and Agriculture

- Public Institutions and Private Industries and Firms
- Colleges and Universities
- Ministry of Environment and Forests
- NEERI
- Maharashtra Biodiversity Board
- National biodiversity board

**International Organizations:**

These organizations are involved in environmental management, and conservation efforts:

- Inter-governmental Panel on Climate Change (IPCC)
- United Nations Environment Programme (UNEP)
- Earth System Governance Project
- Embassies and other International organization related to the environment.

**Dr. V.M. Jamdhade, Ms.Saloni Seth and Ms.Asba Ansari**  
Department of Environmental Science

## Career in Statistics

Statisticians collect, analyse, interpret and present quantitative information. They may design and manage experiments and surveys and deal with collection of data. This role also involves processing and analysing data and looking for patterns with the view to making decisions. Statisticians may work in many sectors including education, pharmaceutical and scientific research, finance, forensics, government, market research, sports and transportation.

Career opportunities which are directly related to Statistics degree include:

**1. Actuarial analyst :** An actuarial analyst, understand and use complex mathematical formulas, particularly in the area of advanced statistics and modelling, use spreadsheets or other specialist software to complete data analysis tasks, provide technical support to a team of actuaries, producing statistical reports and analysis

**2. Actuary :** An actuary performs the task, use mathematical modelling techniques and statistical concepts to determine probability and assess risks, for example, analysing pension scheme liabilities to price commercial insurance, analyse statistical data in order to make calculations, for example, accident rates for particular groups of people be an effective communicator, to discuss and explain complex topics in a simple way, develop new financial products, prepare presentations, reports, valuations and quarterly updates, monitor risk within trading positions in investment banking to ensure excessive risks are not taken during the fast pace of trading

**3. Data analyst :** This role involves using high level mathematical and problem-solving skills, which may involve tasks such as identifying areas to increase productivity and efficiency, develop and support reporting systems and manipulate data and information relating to business operations. Analysts are in demand and may work across a range of sectors, including finance, consulting, education, government and science

**4. Data scientist :** Organisations may use large amounts of data, and data scientists turn this data into information using algorithms and machine learning. They usually work by delivering projects for customers or clients depending on their business needs, and then articulate their findings by using clear communication skills. Employers of data scientists may work across the finance, retail, scientific research, academia and e-commerce sectors. Data Science is a multi-disciplinary field containing elements from: Statistics, Information technology, Operational research, Optimisation, Mathematics.

**5. Financial risk analyst :** Financial risk analysts identify and analyse the areas of potential risk threatening the assets, earning capacity or success of organisations in the industrial, commercial or public sector. As a financial risk analyst, you'll be responsible for predicting change and future trends, as well as forecasting cost to the organisation. Skills required are strong numeracy, analytical and strategy skills good research skills, planning and organisational skills and problem-solving ability.

**6. Operational researcher :** People working in this role look at the way an organisation operates, and uses mathematical and analytical techniques to support it to develop better business systems and processes. For example, they may look at ways of improving air traffic control processes, measuring player performance in sports teams, or to model the behaviour of retail customers.

**7. Business analysts :** Business analysts help an organisation achieve its goals by analysing data, assessing processes and systems, creating solutions and planning for the future. Skills

required are excellent analytical skills and an informed, evidence-based approach, a strong interest in business and business development, a good understanding of information technology.

**8. Biostatistics and Medical Statistic :** Biostatisticians are statisticians working in the field of health and health research. There are two main areas of application with biostatisticians working on clinical research projects and public health research projects. Statistical analysis can vary greatly in complexity. Some projects can be handled through standard statistical methods and software. Other projects may require methodological development and research on the part of the statistician and the development of computer programs.

**9. Statisticians in Industry :** Statisticians working in the manufacturing industry and retail environment provide valuable assistance in designing the best possible product, ensuring customer satisfaction and retention, analysis of warranty issues and identification of corrective actions, the reduction of variability in the transition from design to manufacturing in order to deliver robust products, supply-chain optimization solutions and part scheduling coordination, quality control to ensure a consistently excellent product, market research and customer satisfaction surveys, financial forecasting, planning, risk assessment and pricing, analysis of vehicle maintenance costs and part life duration, data mining of production, warranty and used parts data.

**10. Statisticians in the Mining Industry and Earth Sciences :** Statistics and probability play a valuable role in the mining industry. Establishing new mines, or expanding production into unexplored areas of a mineral deposit, can be very costly and risky, particularly in the developmental stages – statistical techniques are used to manage these risks and make decisions that reduce costs. Statisticians in a mining environment are often called upon for advice on a sampling strategy to provide information about the characteristics of the deposits (geology, grade, depth, quality) and the rock (density, size and hardness), which ultimately translate into money the mining company will make if it embarks on the new project. Statistics plays a critical role again when it comes to the analysis of the sampling results – a wide variety of techniques are employed to analyse these data.

**11. Statisticians in Naval Operations Research :** At the Institute for Maritime Technology (IMT) a statistician has some freedom to build his/her own career around one or more of a wide spectrum of naval decision problems.

**12. Statistics Education-Teaching :** A Qualified teacher with a background in Statistics is in great demand with the introduction of the new school syllabus.

**13. Statistics in the Biological Sciences : A Biometrician** differs from the traditional Statistician in that they are confronted by a wide range of problems dealing with all the phenomena that affect animal nutrition and breeding, plant breeding and crop production, as well as diseases and pests on both plants, animals and the environment. Biometricians typically perform the following tasks: advise researchers in the design and planning of biological experiments to ensure that useful data are obtained, analyse data in order to determine if certain treatments applied to subjects have different results, determine trends and underlying relationships in biological processes, forecast future conditions of resources like forests or watersheds. Essential attributes are an inquisitive mind, an ability to think quantitatively, an interest in applying statistical methods to biological problems and the will to learn about related biological sciences.

**Ms. Saba Pangarkar**  
Assistant Professor, Department of Statistics

## ग्रंथालय व माहितीशास्त्रातील करिअर

जगात ज्ञानाइतके पवित्र दुसरे काहीही नाही आणि आपण ते अनेक प्रकारे मिळवू शकतो. त्यापैकी ग्रंथालय हा सर्वात महत्वाचा स्रोत आहे. हे एकमेव असे भांडार आहे ज्या ठिकाणी जगातील सर्व ज्ञानाचे पूर्ती केली जाते. आपण लहानपणापासून शाळेतील व महाविद्यालयातील ग्रंथालयात असलेली भरमसाठ पुस्तके पाहिली आहेत. एवढ्या लाखो पुस्तकांमधून ग्रंथालयातील कर्मचारी अचूक आपल्याला हवे असलेले, हव्या त्या लेखकाचे, नेमकी तीच वृत्ती असलेले पुस्तक आपल्यासमोर हजर करतात.

छपाईचा शोध लागल्यापासून ते आताच्या डिजिटल इलेक्ट्रॉनिक कालखंडात सुद्धा पुस्तक शोधणे एक कला आहे. गुगलच्या माहितीच्या आधारे माहितीचे भांडार उपलब्ध असले तरी त्यातील संजीवनी वनस्पती रुपातील अचूक पुस्तक शोधणे एक कौशल्य आहे. सध्याच्या युगात छापील पुस्तके, इलेक्ट्रॉनिक पुस्तके, नियतकालिके, अनेक प्रकारचे शैक्षणिक साहित्य यांच्या व्यवस्थापना करता ग्रंथालयांचे योगदान कायमच मोठे राहिले आहे आणि त्यामुळेच या क्षेत्रात करिअर करणे हा एक चांगला पर्याय उपलब्ध आहे.

ग्रंथालय शास्त्रात करिअर करण्याच्या संधी अगदी दहावी परीक्षा उत्तीर्ण झाल्या पासून उपलब्ध आहेत. यामध्ये प्रमाणपत्र अभ्यासक्रमापासून ते विद्यावाचस्पती म्हणजेच पीएचडी इथपर्यंत शिक्षण घेता येऊ शकते. या प्रकारे ज्या पातळीवर शिक्षण घ्याल त्या पातळीच्या संधी उपलब्ध आहेत जसे ग्रंथालय परिचर, ग्रंथालय सहाय्यक, सहाय्यक ग्रंथपाल, उप-ग्रंथपाल, ग्रंथपाल, ग्रंथालय संचालक अशा तऱ्हेने विविध पदांवर काम करण्याची संधी उपलब्ध आहे सध्याच्या माहिती-तंत्रज्ञानाच्या युगात पदनाम ते फक्त ग्रंथपाला पुरते मर्यादित न राहता नॉलेज मॅनेजर, डॉक्युमेंटेशन ऑफिसर, डॉक्युमेंट मॅनेजर अशा पद्धतीने ओळखले जाते.

ग्रंथालय प्रमाणपत्र पदविका अभ्यासक्रम पूर्ण केल्यावर ग्रंथालय सहाय्यक, ग्रंथालय आणि माहितीशास्त्र पदवी पूर्ण केल्यावर महाविद्यालयांमध्ये सहाय्यक ग्रंथपाल तसेच शाळांमध्ये ग्रंथपाल म्हणून देखील संधी उपलब्ध आहेत. महाविद्यालयांमध्ये ग्रंथपाल पदाकरीता कोणत्याही विषयातील पदवी शिक्षण, ग्रंथालय आणि माहितीशास्त्र निष्णात पदवी आणि सेट अथवा नेट परीक्षा उत्तीर्ण होणे आवश्यक आहे. ग्रंथालय आणि माहितीशास्त्रातील विद्या वाचस्पती पदवी व महाविद्यालयांमध्ये ग्रंथपाल पदावरील १५ वर्षांच्या अनुभवावर विद्यापिठीय ग्रंथपाल होण्याच्या संधी देखील उपलब्ध आहेत. ग्रंथालय आणि माहितीशास्त्रातील विविध पदवी आणि त्याबरोबरीनेच सध्याच्या युगात आवश्यक अशी संभाषण कौशल्ये, माहिती अधिकार, संगणकाचा वापर, नित्य घडामोडींचा अभ्यास या यासारख्या अनेक गोष्टी एक उत्कृष्ट ग्रंथपालामध्ये पाहायला मिळतात.

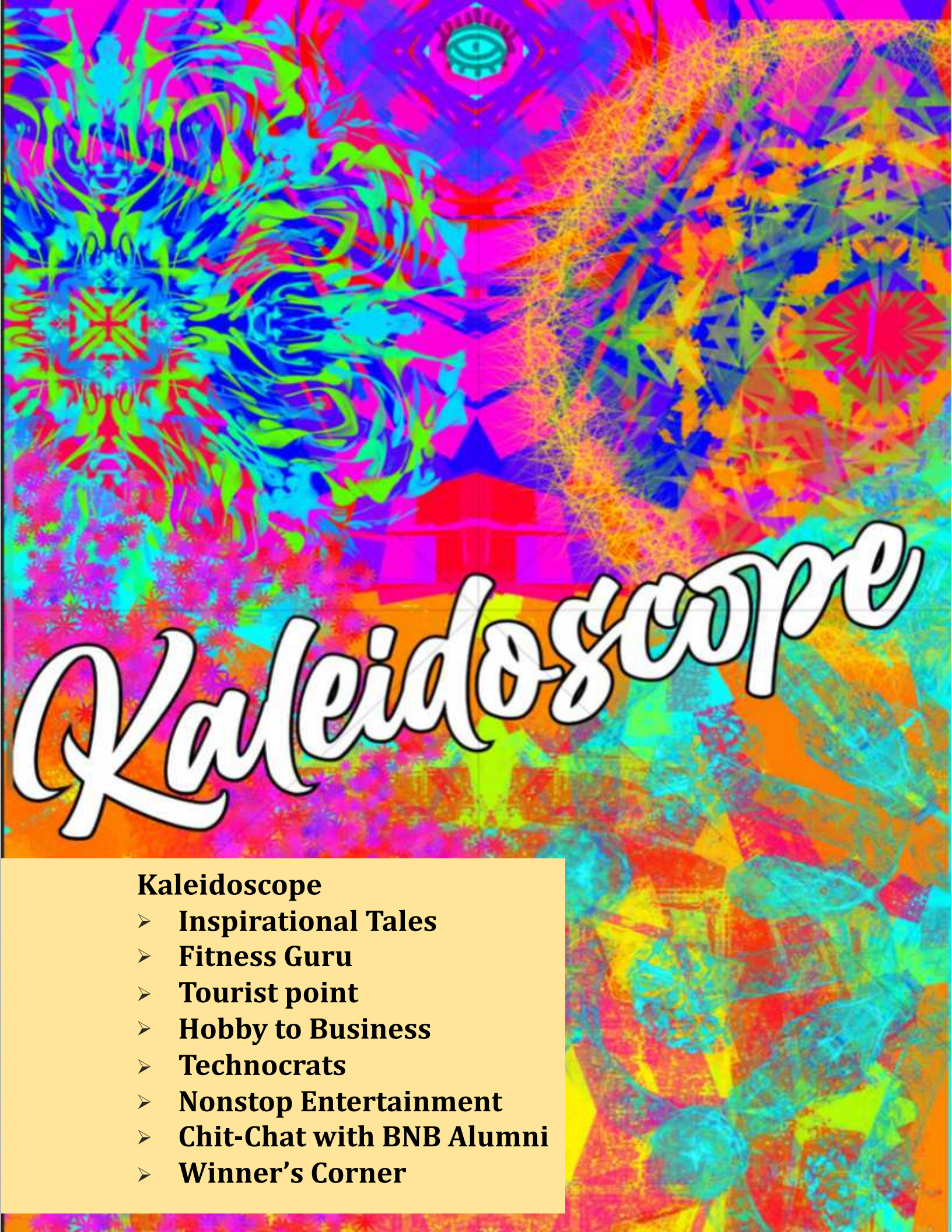
महाराष्ट्रातील सर्व पारंपरिक विद्यापीठांमध्ये ज्यामध्ये मुंबई विद्यापीठ, एस एन डी टी, सावित्रीबाईल फुले पुणे शिवाजी इत्यादी सर्व विद्यापीठांचा समावेश आहे त्यामध्ये ग्रंथालय व माहितीशास्त्र निष्णात अभ्यासक्रम हा नियमित पद्धतीने शिक्षण घेऊन पूर्ण करता येऊ शकतो.

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ, टिळक महाराष्ट्र विद्यापीठ, इंदिरा गांधी राष्ट्रीय मुक्त विद्यापीठ यासारख्या विविध विद्यापीठांमधून ग्रंथालय व माहितीशास्त्र निष्णात अभ्यासक्रम हा अभ्यासक्रम दूरस्थ शिक्षण पद्धतीने उपलब्ध आहे. यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठातर्फे दूरस्थ शिक्षण पद्धतीने हा अभ्यासक्रम मराठी भाषेतून देखील उपलब्ध आहे. नोकरी सांभाळून पुढे शिक्षण घेऊ इच्छिणाऱ्या लोकांसाठी अतिशय उत्तम संधी आहे तसेच मराठी भाषेतून शिक्षण असल्यामुळे भाषेची अडचण जाणवत नाही. ग्रंथालयांचे प्रकार, संशोधन पद्धती, संदर्भ सेवा, माहिती तंत्रज्ञानाचा ग्रंथालयात वापर, ग्रंथालय वर्गीकरण, तालिकीकरण, इलेक्ट्रॉनिक संसाधने, ग्रंथालय व्यवस्थापन, सोशल मीडियाचा वापर याबद्दल अभ्यासक्रमात समावेश आहे.

ग्रंथालय व माहितीशास्त्रातील पदवी संपादन केल्यानंतर शैक्षणिक संस्था, बँका, कंपन्या, विद्यापीठे, सरकारी कार्यालय, वस्तुसंग्रहालये, शाळा, हॉस्पिटल, एअरलाइन्स, वर्तमानपत्रे टीव्ही वाहिन्या इत्यादी अनेक ठिकाणी ग्रंथालय शास्त्रातील रोजगाराच्या संधी उपलब्ध आहे. तसेच ग्रंथालय शास्त्रातील प्राध्यापक म्हणून देखील संधी उपलब्ध आहेत. ग्रंथालय शास्त्रातील शिक्षणाबरोबर संशोधनाच्या संधी देखील या क्षेत्रात उपलब्ध आहेत ज्यामध्ये लघु संशोधन प्रकल्प, संशोधन पेपर, कार्यशाळा परिसंवाद आणि परिषदांमध्ये संशोधनपर विचारदेखील मांडता येऊ शकतात.

ग्रंथालय व माहितीशास्त्र या क्षेत्राची निवड करून ज्ञानाची भूक भागविण्यासाठी पुस्तकांच्या विश्वात वावरण्याचा अनुभव नक्कीच घ्यायला आवडू शकेल.

सौ. कादंबरी मांजरेकर, ग्रंथपाल, केंद्रसंयोजिका



# Kaleidoscope

## **Kaleidoscope**

- **Inspirational Tales**
- **Fitness Guru**
- **Tourist point**
- **Hobby to Business**
- **Technocrats**
- **Nonstop Entertainment**
- **Chit-Chat with BNB Alumni**
- **Winner's Corner**

# Activities of College Magazine & Wallpaper Committee



Sanyuja 2021-22 Publication on 10th May 2022



Interview with BNB Alumnus Hon. Mr. Rajesh Narvekar (District Collector)



Online Workshop on Creative Writing & Cover Page Designing for Sanyuja 2022-23



FYBSc Induction Lecture on Sanyuja 2022-23

**Cover Page Making Competition**  
Ms. Sarita Gupte - TYBSc (Computer Science) First Prize

**Essay Writing Competition**  
➤ Ms. Shruti Kanhurkar - FYBSc (CBZ) First Prize

➤ Ms. Muskan Bakshi - FYBSc (PCM) Second Prize

**Review Writing Competition**  
➤ Mr. Shravan Bhosle - FYBSc (Human Science) First Prize

➤ Ms. Sarita Gupte - TYBSc (Computer Science) Second Prize



## आज शिवाजी महाराज असते तर

आज जर छत्रपती शिवाजी महाराज असते तर!!! स्वर्ग कसा असतो ते तर मला माहीत नाही, परंतु आज महाराज असते तर, प्रत्यक्ष स्वर्गसुख तुम्ही-आम्ही सर्वांनीच उपभोगले असते. कदाचित आपणही महाराजांचे मावळे राहिले असतो, तेवढीच स्वराज्याची सेवा आपल्या हातून करण्याचा योग आला असता. असो...



आज शिवाजी महाराज असते तर भारत कधीही पारतंत्र्यात गेलाच नसता. महाराजांनी तेव्हा आदिलशाही तर नष्ट केलीच होती पण पुढे मोगलांनाही स्वराज्यात त्यांनी शिरकाव करू दिला नाही, जर ते असते तर त्यांनी इंग्रजांना ही भारतावर राज्य करू दिले नसते. अखंड भारत स्वराज्या प्रमाणे अबाधित असता. दिल्ली तक्त महाराजांनीच राखला असता.

आज शिवाजी महाराज असते तर भ्रष्टाचाराला वाव मिळाला नसता. यदा- कदाचित भ्रष्टाचार हा शब्दच नसता किंवा पुर्णतः नेस्तनाबूत झाला असता. सर्व कारभार सुरळीत व प्रामाणीक पणे आणि विनय नीतीने पार पडले असते. जर महाराज असते तर भ्रष्टाचार निर्मुलन खात्याची नियुक्ती सरकारला करावीच लागली नसती.

आज महाराज असते तर युवकांना एक नविन प्रेरणा देखील मिळाली असती. आज शिवाजी महाराज असते तर एकही तरुण सुशिक्षित बेरोजगार नसता. सर्वांमध्ये एक शुद्ध निर्मळतेची भावना राहिली असती. मुख्य म्हणजे आजच्या काळात सतत हरवत असलेली माणुसकी, माणसामाणसामधील माणुसपण हे तेवत राहिलं असतं.

आज महाराज असते तर निर्भया प्रकरण सारखा अत्याचार घडलाच नसता, यदा कदाचित असं घडलच असतं तर तिला न्याय मिळायला एवढा वेळ लागलाच नसता कारण महाराजांसाठी आया-बहिणींची अब्रु म्हणजे सर्वस्व होतं. तेव्हा अशा अत्याचाराचा गडावरील टकमक टोकावरून कधीच कडेलोट केला असता.

आजच्या काळात शिक्षण संस्थांनी जणू शिक्षणाचा बाजारच मांडला आहे. जर उच्च प्रतियेचे शिक्षण घ्यायचे असले तर पाण्यासारखा पैसा खर्च करावा लागतो. पण, जर महाराज असते तर गोर-गरीबांनाही उच्च, अति उच्च शिक्षण घेता आले असते. कारण आजच्या काळात गुणवत्ता असणे सर्वस्व नाही. त्याला जोड पैसा असेल तरच प्रगतीपथावर जाऊ शकतो. आजही बरेच लोक अशिक्षित आहेत. कदाचित महागड्या शिक्षण पद्धतीमुळे आजही दीन-दलित मागासवर्गीयांना शिक्षण सक्तीचे होत नाही. महाराज असते तर शिक्षण घेणे हा महाराजांचा आदेश समजून पालन केले गेले असते व सर्व सुशिक्षित आणि समजदार असते.

राहता राहिला प्रश्न महिला सुरक्षिततेचा, स्त्रिया तर स्वतःच इतक्या सक्षम असत्या की, त्यांचा अपमान करण्याची किंवा त्यांच्याकडे वाकड्या नजरेनं पाहण्याची हिंमतही झाली नसती. आज स्त्रिया बाहेर जाण्याआधी सुरक्षिततेचा विचार करतात परंतु महाराज असते तर, स्त्रिया निर्धास्तपणे सन्मानाने जगल्या असत्या. जर मुलांना हातात मोबाईल दिला तर घरात फक्त मुलच घडतील आणि जर मुलांना जिजाऊंची किंवा शिवाजी महाराजांची शिकवण दिली तर कदाचित उद्याचा संभाजी घडू शकतो आणि त्यासाठी आईचे काळीज हे जिजाऊसारखे असले पाहिजे.

आज शिवाजी महाराज असते तर बत्तीस मण सोन्याचा रत्नजडीत सिंहासन इंग्लंडला गेले नसते तर त्या सिंहासनावर विराजमान असलेल्या महाराजांना मानाचा मुजरा करण्याचे सौभाग्य आपल्या सर्वांना लाभले असते.

आज शिवाजी महाराज असते तर भारत देश हा महासत्ता राहिला असता. शिवाजी महाराजांनंतर त्यांचा वारसा संभाजी महाराजांनी चालवला आणि त्यानंतर राजाराम महाराज यांनी चालवला. परंतु त्या नंतरही महात्मा ज्योतीराव फुले, छत्रपती शाहू महाराज, डॉ. बाबासाहेब आंबेडकर यांनी त्यांचा वारसा चालवला. यांनी देखील भारताचा विकास कसा होईल किंवा भारत कशा पद्धतीने पुढे जाईल याचा विचार केला आणि त्या विचारांना प्रत्यक्षात आणले देखील. महात्मा ज्योतीराव फुले व त्यांच्या पत्नी सावित्रीबाई ज्योतीराव फुले आणि शाहू छत्रपती शाहू महाराज यांनी समाजकार्य केले, त्यांनी ही गड संवर्धनाचे कार्य केले पण पुढे काळ बदलला, इंग्रज आले ते गेल्यानंतर लोकशाहीचा उगम झाला. लोकशाही आल्यानंतर गड संवर्धनाची महत्त्वपूर्ण जबाबदारी ही महाराष्ट्रात राहणाऱ्या जनतेची आहे.

धन्य ती आई जिने शिवरायांना जन्म दिला आणि धन्य तो राजा ज्याने स्वराज्य घडविला.

जय जिजाऊ, जय शिवराय

Ms. Prerna Gosavi  
FYJC

## The Unsung Hero of Nandurbar

I'm so proud and blessed to be born in a family where my ancestors had devoted their life for the freedom of India so that we all Indians could enjoy the ecstatic Independence.

My grandfather, Mr Vishwanath Bhikaji Wavde, was a freedom fighter. He was born and lived for a long time in Nandurbar. Nandurbar is a district in Maharashtra close to Dhule district. The struggle for our independence had started way back in 1857. So when my hero - my grandfather was born India was fighting for its independence. He was influenced by the thoughts of Gandhij, that **ahimsa** is a good and right path for gaining freedom. He participated in many struggles against the British like the '**Salt Satyagraha**', '**Quit India Movement**' etc. His wife Sou. Kamal Tai (my grandmother ) supported him in all his activities for freedom. She took care of the children and house. Many times she had to run away from the Britishers along with her children to keep them safe.

Wavdeji's major participation as a leader was in 1942 when from 8<sup>th</sup> of August to 9<sup>th</sup> September 1942, Nandurbar was on fire as many possessions against the British were organized.

All the school students came out of their schools shouting 'Vande Matarama' and joined the procession. This procession was led by Shri Vishvanath Wavde. As the procession moved forward the students of all Marathi and Gujrati schools joined them. The police tried to stop the procession but none of the freedom fighters were ready to back out.

Shri Wavde had promised to hoist the flag in the courtyard of the court on 9<sup>th</sup> September 1942. So on 9<sup>th</sup> September the procession which had turned big reached the court. '**Karange Ya marenge**' '**Inqalab Zindabad**', '**Bharat Chodo**' these were slogans heard throughout Nandurbar.

The procession reached Manik chowk. It was decided that the flag would be hoisted at Manik Chowk and the procession would disperse (as all the participants were pro **ashimsa**), But

the police opened gunfire on the procession. This leads to the death of many children like Sashi Kumar, Laldas, Sashidhar, Dhansukhlal, Ghanshyam. Also many were arrested and thrown in the Nandurbar Jail like Shyam Bhai from Nirzar, Bhagwandas Shah was handicapped during the police firing. Lawyer Ratilal Ghosaliya Kamalshankar, Chunni Bhai Wani fought for justice in the court. Later Vishwanath Wavde, Trimbak Bhai Shroff (Lawyer), Bhau Govind Chaudhary (Lawyer) addressed the crowd in the graveyard for which they were arrested.

Thus to make India free many unsung heroes sacrificed their lives. My grandfather never mentioned his contribution to me and to my sisters, in fact not even to his children because he thought it was his duty to see his motherland FREE and INDEPENDENT which would make the coming generations breathe in a free environment.

My salute and dandavat to all these ***Unsung Heroes of INDIA*** who stayed silent and made others the Heroes of our country.

**Mrs. Leena Kelkar**  
Faculty, IT/CS Department




 Fitness  
Guru

## Epigenetics - Thought Process

Firstly, I would like to thank Dr Sanjay Gupta (Principal Investigator, ACTREC) for taking out the time to conduct a lecture on epigenetics and cancer and for providing us with this remarkable opportunity. I attended this lecture, sitting at the front I was awe-struck.

Changing your genetic destiny was a phrase that stuck with me even after Dr Sanjay Gupta's lecture. It piqued my curiosity. But more than that it opened my eyes to a whole new area in scientific research. Being an inquisitive person by nature, armed with knowledge from the lecture and a sparked curiosity I read research papers on epigenetics and went through the histone database.

We know from epigenetics that it isn't nature vs nurture but a combination of both. In the notion of nature and nurture, there is evidence that psychosocial experiences can change epigenetic chemical tags across the genome. This change additionally influences mental health problems, such as depression, anxiety and addiction.

There have also been positive epigenetic associations with counselling interventions, together with cognitive behavioural therapy, diet, exercise and mindfulness. This raised a question for me: Can epigenetics play a role in mental health counselling and treatment of mental illnesses? As someone who loves to meditate and practice mindfulness, I pondered what role could this play in transgenerational epigenetics?

Along with this, the concept of imprinting was particularly interesting to me. During imprinting, the less attention a mother shows the child the more methylated their genes are and the more attention a mother bestows on her child the less methylated their genes are. I wondered where Post-Partum Depression (PPD) would fit into this equation. Would it make the child more susceptible to addiction, anxiety, depression or other mental health disorders? A lot of these disorders come with stress. We know that there is a link between many diseases like cardiovascular dysfunctions, diabetes, cancer, autoimmune syndromes and stress. This made me think-Can early treatment of PPD change the epigenetics of infants and further reduce the risk of many diseases later on in life?

It made me think about the effect PPD has on babies-specifically from an epigenetic point of view. PPD affects around one in seven women. Women experiencing baby blues tend to recover expeditiously. But PPD tends to last longer and severely affects women's capability to return to normal function. PPD not only affects the mother but also affects the relationship with her infant.

Maternal brain response and behaviour are also compromised in PPD. It has been demonstrated in research that women at risk for PPD exhibit more DNA methylation changes at loci that are sensitive to epigenetic reprogramming in the mouse hippocampus (a brain region involved in mediating estrogen's effects on mood). From this data, two biomarker loci (HP1BP3 and TTC9B) were identified that were proficient in prospectively predicting PPD in humans. Importantly, DNA methylation of HP1BP3 was associated with several inflammatory cell-type elevations occurring in assayed antenatally depressed relative to antenatally euthymic women and required incorporation of cellular heterogeneity metrics into the model thus achieving an accurate prediction across both subgroups.

Epigenetic changes that alter gene expression are hypothesized as a central mechanism that can explain prenatal and postnatal adaptation. Early experiences in life can significantly affect the development of mental health disorders by biologically embedding insults during sensitive developmental periods and amassing damage over time due to chronic stress.

Another thing I mulled over was the role of epigenetics across generations or commonly known as transgenerational epigenetics. What role would transgenerational epigenetics play in cancers that are inherited like breast cancer? Further, how would the treatment of transgenerational cancers with epi-drugs affect future generations?

It was hypothesized that breast cancer starts in utero in the 1990s. Since then, the vast majority of research using both human cohorts and animal models has supported that theory. However, it is becoming evident that parental exposure can result in breast cancer being passed down through many generations and across generations. The major epigenetic changes that are dysregulated in breast cancer are DNA methylation, histone modification, and nucleosome remodelling. Several genes involved in breast cancer proliferation, anti-apoptosis, invasion, and metastasis have been shown to undergo epigenetic changes.

As epigenetic plasticity is maximum during early development, environmental exposures occurring during that period may increase the risk of diseases such as breast cancer. A growing number of epigenetic changes involved in the regulation of genes which are involved in breast tumour growth and metastasis have been reported recently.

Drugs possessing epigenetic modulatory activities are known as epi-drugs, mainly the inhibitors of histone deacetylases (HDACs) and DNA methyltransferases (DNMTs). Some of these drugs are undergoing testing in clinical trials for the treatment of breast cancer. Several phytochemicals, including green tea polyphenols, curcumin, genistein, resveratrol, and sulforaphane, have also been shown to alter epigenetic modifications in multiple types of cancer including breast cancer. This was a full-circle moment for me. Dr Sanjay Gupta talked about the benefits of curcumin during his lecture. Epigenetics is right in front of us, it's in the way we live and I think that is fascinating.

All this said, I would like to keep learning about epigenetics. Dr Sanjay Gupta has provided us with this tremendous opportunity that I am deeply grateful for. I am particularly excited to immerse myself and keep exploring different aspects of epigenetics. Overall, while writing this I have gained colossal amounts of knowledge and found a new interest, which I will pursue with persistence.

**Ms. Ketaki Nirbhavane**  
SYBSc. Biotechnology

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## Stress Management

Do you feel overwhelmed due to pending assignments? Does your sleep get disturbed when exams are approaching? Do you find yourself worrying about how to do well in life? Do you start to skip meals or binge eat when worried about something? If yes, it could be a sign of stress.

### Understanding stress:

Stress is a natural bio-psychological response to demanding situations. If not handled well, it affects our physical health (Hormonal fluctuations, Sleep disturbances, changes in blood pressure, Digestion problem, stomach upset, Body ache etc.), psychological health (Difficulty concentration, Negative thinking, mental breakdown, being emotional) and social well-being (interpersonal conflicts, poor performance in social setting, low confidence). But what can we do about it?

### Stress Management:

Stress management offers a range of strategies to help people deal with stress effectively, that are divided into 2 categories – 1) Prevention, 2) Dealing with stress

#### **PREVENTIVE MEASURES** – to help keep the stress away from you

1. **Practicing relaxation** – practicing breathing exercises, yoga, meditation helps you calm you down and improves your concentration, enabling you to work effectively. 10 minutes of simple breathing exercise every day, whenever and wherever comfortable has profound effects on mental well-being.
2. **Self-care** - regardless of how busy you get, taking some time for yourself and engaging in the activities you find pleasurable. Self-care activities differ from one another. Some people enjoy art, some enjoy literature, while others enjoy cleaning. Identification of the pleasurable activities becomes crucial. Once a week any one or two activities that differ from your daily routine will help you keep the stress away from you.
3. **Life skills** – Learning to prioritize tasks, effective time management, assertive skills, ability to maintain healthy relationships help you stay away from unnecessary stress
4. **Positive self-talk** - Instead of saying, “it seems impossible to do,” say, “I’ll do my best I can. I’ve got this.” Instead of saying, “I feel helpless,” say, “I can reach out for help if I need it.”

#### **DEALING WITH STRESS** –

- Before dealing with stress, individuals need to **recognize their existing pattern of stress reactions**. Some unhealthy stress reactions – skipping meals, overeating, exhausting yourself by working extra, procrastination, turning away from stressful tasks, depending on addiction to feel good, sleep disturbance, developing dependency on other people etc.
- **A stress journal** can help you identify the regular stressors in your life and how you deal with stress. Each time you feel stressed, keep track of it. Keeping a daily log will enable you to see patterns and common themes. Write down:

- After recognition, **replacing unhealthy ways with better and healthier ways** to deal with stress you're experiencing –
  1. Count to 10 before you speak or react.
  2. Break down big problems into smaller parts. Take one step at a time.
  3. Turn on some calm music or an inspirational podcast to help you deal with road rage.
  4. Work out or do something active. Exercise is a great antidote for stress.

**Ms. Komal Kadam**

Assistant Professor, Department of Human Science



**Tourist  
Point**

## प्राच्यविद्यासंस्थायाः दर्शनम् - अन्वेषणं जीवने सर्जनशीलतायाः, संस्कृत्याः अध्ययनेन ।

२२ ऑगस्टस्य प्रभातम् अभूतम् । तेन प्रभातेन बा. ना. बान्दोडकर महाविद्यालयस्य द्वादशकक्षायाः विद्यार्थिनः आनन्दिताः यत् अद्य तु तेषाम् परिक्षायाः अन्तिमम् आव्हानम् । परिक्षायाः अन्ते ते श्रमपरिहारकृते अपि उत्सुकाः । परन्तु संस्कृतस्य विद्यार्थिनः अधिकाः आनन्दिताः यत् तेषाम् रसायनशास्त्र - संस्कृतभाषयोः परिक्षायाः अन्तरे अध्यापिकया सह (निशा महोदया) ते हजुरीस्थितां प्राच्यविद्यासंस्थां गमिष्यन्ति ।

पूर्वनिश्चिताः पञ्चदश छात्राः तु प्राच्यविद्यासंस्थां गन्तुम् उत्सुकाः एव परन्तु प्रस्थानदिने अन्योऽपि त्रयः छात्राः एतस्याम् यात्रायाम् सहभागिनः अभवन् । सर्वेऽपि महाविद्यालयस्य सप्तमभवनस्य द्वारसमीपे मिलितवन्तः प्रस्थानविषये विचारितवन्तः । तस्मिन्नेव समये अध्यापिका तत्र आगतवती तथा च छात्रान् प्रस्थानविषये कथितवती । तस्याः मार्गदर्शनानुसारेणैव छात्राः मार्गक्रमणं कुर्वन्ति स्म । अग्रेसराः समुत्सुकाः छात्राः सर्वेषाम् कृते त्रिचक्रिकाम् अवेक्षन्ते स्म । ताभिः त्रिचक्रिकाभिः त्रयाणां समूहेन छात्राः प्रवासं कृतवन्तः ।

हजुरीस्थितस्य डखुड कार्यलयस्य पुरतः सर्वे पुनः समाहित्य प्राध्यापिकायाः आगमनार्थं प्रतिक्रितवन्तः च । द्वाभ्याम् छात्राभ्याम् सह त्रिचक्रिकया प्राध्यापिकायाम् आगतवत्याम् सर्वे प्राच्यविद्यासंस्थां प्रति पादक्रमणं कृतवन्तः । प्राच्यविद्यासंस्थासंकुले प्राप्तवत्या अध्यापिकया छात्रेभ्यः संस्थायां पालनीयानां नियमानुशासनानां विषये सूचनाः दत्ताः । नैकानि छायाचित्राणि च चलच्चित्राणि छात्रैः नोदनीकृतानि । तेषाम् कानिचन चलच्चित्राणि पूर्वैः इति अस्य छात्रस्य खर्पीरसीरा अकाऊन्टे सन्ति । प्राच्यविद्याभवने आगताः ते ग्रन्थपालिकायाः (रूपाली प्रधान महोदया) मार्गदर्शने प्रथमतः भवनस्य अग्रस्थे / उपरिस्थे कक्षे प्राप्तीभूताः । तत्र संस्थायाः पुरातनवस्तूनां संग्रहः वर्तते । तया महोदयया एव छात्रेभ्यः चित्र - मानवकृति - राजाज्ञा - प्रशस्तीपत्र - मूर्ति - दीप - शिलालेखादीनां प्राचीनवस्तूनां विषये यथोचितं सुरसं कथायुक्तं ज्ञानं प्रदत्तम् । अध्यापिका निशा महोदया अपि छात्रेभ्यः नैकानाम् मानवकृतिनाम् चित्राणां च विषये बहुमुल्यं ज्ञानं दत्तवती । तथा यत्र आवश्यकं तत्र पाठ्यपुस्तकविषयकान् सन्दर्भान् अपि दत्तवती । राजा रविवर्मा इत्यस्य प्रसिद्धचित्रकारस्य चित्राणि ननु कक्षस्य आर्कषणस्थानानि । छात्रेभ्यः पुरातनश्रीस्थानकस्य कृष्णगौरानि छायाचित्राणि रोचन्ते । पुरातन कलवा - ब्रिजः, कौपिनेश्वर - देवालयः, श्रीस्थानकदुर्गः, कारावासः तथा च गडकरी - रङ्गयातनस्य कृष्णधवलानि छायाचित्राणि तेषाम् हृदयाणि स्फुरितवन्ति । भवनस्य द्वितीयेस्तरे प्राप्ते ते छात्राः कोशविभागं दृष्टवन्तः, तान् पठितुं च आरब्धवन्तः । कोशशास्त्रः, तेषां प्रकाराः, संशोधने तेषां महत्त्वम् इत्यादीन् विषयान् ज्ञातवन्तः । किञ्चित् कालानन्तरं ते कक्षे स्थिते चर्चाकक्षे आगन्तुं रूपाली महोदयया अध्यापिकया च आदिष्टाः । चर्चाकक्षे आगतान् तान् प्रधान महोदया तथा च निशा महोदया नाणक - हस्तलिखितानां विषये ज्ञानं प्रदत्तवत्यौ । तेषाम् अध्ययनेन छात्राः प्राचीनसंस्कृति - भाषासमृद्धि - लिपि - शास्त्रादि विषयेषु प्रबुद्धाः । ततः छात्राः प्रथमेस्तरे स्थिते कक्षे प्रविष्टवन्तः । एतस्मिन्स्तरे संस्थायाः विशालः ग्रन्थसंग्रहः वर्तते । ते ग्रन्थाः छात्रान् आकर्षयन्ति स्म । आचार्यायाः अनुमत्यनन्तरे ते पुस्तकपठनम् अकुर्वन् । नैकानां विषयाणां पुस्तकानि छात्राणाम् हृदयान् रञ्जयन्ति । पुस्तकपठनं छात्राणां हृदयेषु सर्जनशीलतां जनयति, ग्रन्थालयः तेषां बुद्धिं विकासयति, प्राचीनेतिहासेन ते चिन्तनशीलाः भवन्ति, परिपक्वता आयाति । इत्यर्थं एतद् प्राच्यविद्याभ्याससंस्थायाः यात्रा छात्राणां कृते अतीव औपकारिकी आह्लाददायिनी, ज्ञानपूर्णा अभूत् ।

सुयश शिरसाट

SYJC

## Fort Raigad - A Heaven of History

Fort Raigad is a historical site located in Mahad of District Raigad. It was built nearly 400 years ago in 1674 AD by none other than the Nation's Most Beloved King Chhatrapati Shivaji Maharaj, the founder of Maratha Empire. Along with him, Hiroji Indulkar was the Chief Engineer who made this gigantic fort. It was made using Stone, Lead and is undoubtedly the pride of our nation. This fort is one of the strongest and is none other than a marvel of engineering as it has been standing for more than 400 years.

### Geographical location:-

Fort Raigad is a hill fort located in the Sahyadri mountain range. It stands at an altitude of 1356m (4449 ft) above sea level. This fort is absolutely blessed by nature and one can enjoy the beautiful scenery and view while visiting the fort. It contains approximately a whopping 1747 steps to the base of the fort from the ground. Although now there is a ropeway available for tourists, known as Raigad Ropeway, which can be used by tourists to reach the fort in just 4 minutes!

### Significant observations/ Must watch places:-

- ◆ *Maha Darwaja*
- ◆ Samadhi of Rajmata Jijabai (Ausaheb)
- ◆ Ganga sagar lake
- ◆ *Takmak Tok*
- ◆ *Hirkani Buruj*

One can explore a lot of things at Fort Raigad. For instance, one can see this gigantic door when one reaches the entrance of the fort. This door is known as *Maha Darwaja*. It has a pair of doors of 21 m. It is the one and only way to visit the fort. Further, we can witness the *samadhi* of Rajmata Jijabai (Ausaheb), the mother of Shivaji Maharaj. The *samadhi* features a photo of her. In front of the fort lies an artificial lake known as Ganga Sagar Lake. Next up is the *Takmak Tok*. It is a cliff and from here, criminals were thrown off as a punishment. This place has now been fenced off. Among all these places to visit, one must see the *Hirkani Buruj*. One should definitely see this wall made on a steep cliff in the honour of Hirkani. We all know the story of her when she was in the fort selling milk to the people when the gates got closed. Hearing the cry of her infant, she couldn't stop but came down from the steep cliff in complete darkness, all alone to calm down her baby and to feed him. When this incident was reported to the king, he decided to build a wall at that cliff in honour of Hirkani's courage and bravery. *Hirkani Buruj* is also a symbol of courage and bravery.

### Local culture, language, historical importance:-

Maharashtra has its own unique language, culture, traditions, and so does Raigad district too! 'Marathi' is the local language spoken here as well as throughout Maharashtra. Some local dialects of Marathi such as Konkani, Ghati Marathi are also used for communication. Dressing style of that era was of very high quality. Men used to wear dhoti, also known as Dhotar, along

with *Pheta* which is kept over head. Women used to wear Nine-yard saree, also known as *Nauwari Saree* and Choli. Talking about cuisine, *Kandyachi Bhaji* or Onion Fritters with a cup of tea is extremely popular here especially in the rainy season. Also *Falooda* is a must-try option in terms of cuisine. This Fort has a huge historical importance. Back in the days, this Fort played a pivotal role in formation of the Maratha Empire and because of it, several invasions were defeated. It also witnessed many historical moments such as Birth of Rajaram I, son of Chhatrapati Shivaji Maharaj, death of Maharaj's wife, Saibai and a lot more.

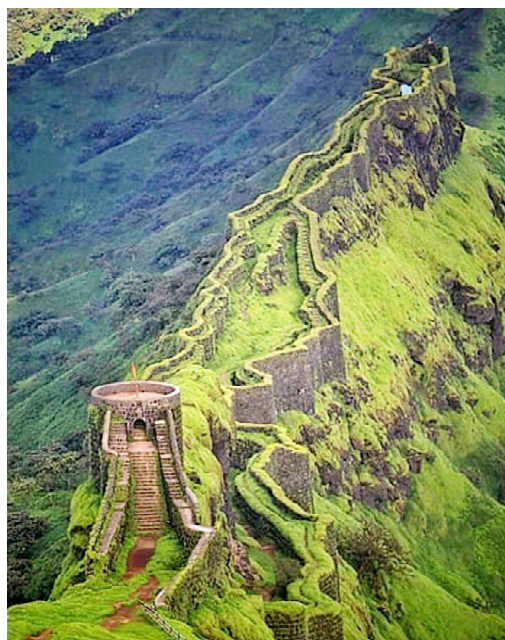
### How to get there?

- ◆ By Road:- From Mumbai:- 99 km, Time:- approx. 2 hours, From Pune:- 143 km, Time:- approx. 2:30 hours
- ◆ By Train:- Travel to Veer Dasgaon railway station. Then 40 km by Road.

My experience at Fort Raigad was very informative and entertaining. I got to learn many new things about Chhatrapati Shivaji Maharaj and the Maratha Empire. Although I was deeply sad to see the scribblings done on the walls of the fort by careless tourists. I would like to request everyone to go visit the Fort Raigad at least once and please do not vandalize the monument in any possible ways. It is the pride of our state, our nation and we must conserve it so that it could be passed on to next generations.

**Mr. Aarush Sawant**

FYJC



## A Steady Journey of Creativity

I have always been passionate about henna (mehendi) since I was 5-6 years old as my Mother is a Mehendi artist. I have seen her applying beautiful mehendi to our relatives and neighbors during the festivals like Diwali, Eid, Rakshabandhan, Karvachauth, and during wedding seasons. I used to learn different types of designs like Arabic, Pakistani, Bridal and our Traditional designs.

While doing so I thought why not turn my hobby into a business? So, I started posting my mehendi designs on different social media and also made some advertising posters to do marketing.

Making a business plan requires a lot of effort, patience and consistency. The utmost challenge I face is getting orders. During festival times, I get many orders but during the rest of the days It's a bit tougher to get a single order. Most of the time we are not paid by our known ones. People always argue, "Why should we pay a pretty amount to a mehendi artist?"

So here are my experience based tips for this business:

- \* It needs a lot of practice to be perfect in a particular design.
- \* It is not at all easy to sit in the same position for hours to apply mehendi.
- \* We get orders occasionally.
- \* Applying mehendi is a service which is to be provided to the customer.

Please be consistent in any field which will always lead your path towards success. So as I mentioned earlier, being patient and determined is the only way to get what you want!

**Ms. Saneelah Vasaikar**  
FYBSc Biochemistry



## Transformers and Generative AI: A Sophisticated Look at Advancements

In recent years, advancements in natural language processing have revolutionized the field of artificial intelligence, specifically in the domain of Transformers and Generative AI. These advances have allowed for the creation of more sophisticated models that are capable of generating coherent and contextually relevant text. One such model is the Large Language Model (LLM), which has become increasingly popular due to its ability to generate high-quality text with greater fluency and coherence.

Transformers, in particular, have been at the forefront of these advancements. They are deep learning models that use a self-attention mechanism to process sequences of input data. This allows for the creation of models that can better understand the context and meaning of a given text, making them ideal for applications such as language translation, text summarization, and sentiment analysis.

Generative AI, on the other hand, refers to the ability of an AI system to create new, unique content. This is achieved through the use of deep learning models that are trained on large amounts of data, allowing them to learn patterns and generate new content that is contextually relevant and coherent.

The combination of Transformers and Generative AI has led to the creation of some truly remarkable models. One example of this is GPT-3, a LLM developed by OpenAI. This model is capable of generating text that is indistinguishable from that written by a human, making it a powerful tool for a wide range of applications.

One of the main benefits of LLMs is their ability to learn from large amounts of data. This allows them to capture nuances in language that may be missed by traditional models, resulting in more accurate and contextually relevant output. Additionally, LLMs are capable of generating text that is more fluent and coherent, making them ideal for applications such as chatbots, virtual assistants, and customer service systems.

Despite their many benefits, there are also concerns surrounding the use of LLMs and generative AI more broadly. One of the main concerns is the potential for these models to be used for malicious purposes, such as generating fake news or propaganda. There is also a fear that these models could be used to create highly convincing deep fake videos or audio, which could have serious implications for privacy and security.

Another concern is the potential for LLMs to perpetuate biases and stereotypes that are present in the data they are trained on. For example, if an LLM is trained on a dataset that contains gender biases, it may generate text that reinforces these biases, leading to further discrimination and inequality.

In conclusion, advancements in Transformers and Generative AI have led to the development of some truly remarkable models, such as GPT-3. These models have the potential to revolutionize a wide range of industries, from customer service to journalism. However, there are also concerns surrounding the use of LLMs and generative AI more broadly, particularly in regards to privacy, security, and bias. It is important that these concerns are addressed as we continue to develop and deploy these technologies.

And now, the final piece of information that may shock or surprise you: this entire write up was also (almost) completely written by AI. That's right, the very words you have been reading all along were generated by an artificial intelligence model. While this may be surprising, it also highlights the incredible capabilities of these models, and the potential they have for creating new and innovative content. However, it also underscores the need for careful consideration and ethical guidelines as we continue to develop these technologies.

**Mr. Prathamesh Warghade**

FYJC

## **Can Quantum Technology Tell the Secrets of Its Own World?**

The technology on par with the invention of the wheel is about to have another phase of its evolution to turn into an even greater and astronomically important for our technological future propagating the intelligence of mankind to levels never even thought of before – The Quantum World. Since the 1960's our computers have been getting exponentially smaller and today's scientists are facing a pretty new and unforeseen challenge – computers are getting as small as an atom!!

To explain that we first need to understand what computing exactly means, of course, the traditional sense of computers we know today i.e. our mobile phones and smartwatches have become smaller and smaller from the giant computers filling up entire rooms in the 1940s. However in today's terms computers and computing are more so thought of as transistors on silicon chips or semiconductors as we know them, transistors are basically a switch which lets electrons pass through when turned on and blocks them when off, the problems arises when we started fitting in more of these transistors into a small silicon chip, though the first chip consisted of just about 4 transistors now however that number has risen to just about 2.6 Trillion transistors, yes trillion with a "T" or in numbers terms 2,600,000,000,000 transistors which means a single transistor is just approximately 17.76 nanometres as big as Rhino Virus or literal DNA strands and Protein molecules, and they are shrinking even more! The point made here is that at this scale the transistors stop working in the traditional sense we were prepared to use them - as an on-and-off switch which is depending if the switch was on or off, different combinations of numbers were made to calculate and work or computing, but with the current problem, the switches are becoming so small that the electrons that use to stop when the switch was off might as well transfer themselves to the other side of the switch, This effect is known as "Quantum Tunnelling" this might sound like some sci-fi alien tech to the general population but that's the thing about the quantum world!! It's actually in its natural form.

Moving ahead instead of this effect being a setback to the revelations of newer more adaptive technology, scientists as usual have found a way to use this phenomenon to their advantage. The information of the switch – on or off can be expressed in numbers by 1 for on and 0 for off, but due to quantum tunnelling we do not know for sure if the transistor is on or off meaning the information or bits as its known is virtually both on and off! This might sound pretty obvious but this means that where 4 typical transistors produce 16 combinations of which we can use only one combination a transistor in a quantum computer can be all of the 16 combinations at the

same time! And taking into account the number of transistors mentioned above, 2.6 trillion transistors can make more combinations than there are atoms in the universe. It's difficult to comprehend how big of a number this even is. Moving ahead, how is this tech so important? well a normal computer if searching from a database or simulating an experiment will check literally every single combination for every process that it will require to fulfil the task, meaning if asked what is my favourite ice-cream flavour to a computer if there are about 200 options to choose, a normal computer would take 2 seconds but a quantum computer will take just a square root of that time, this might not sound like a big difference but imagine on a scale where a simulation of a specific molecule is being learned about where there could be thousands if not millions of possibilities, to say that it shortens the time significantly is an understatement, this research can be used to learn about quantum world's properties as we are not sure how certain elements work we can let the quantum computers simulate those properties for us to learn about when this does truly take place, it will be one of the biggest breakthrough humanity has ever seen.

While quantum computers will probably not replace our home computers immediately or even in the near future, in some areas they are vastly superior and learning about them will be the first step to harnessing their true power. The extent of technology's capabilities remains unknown and the only way to discover them is by exploring further.

**Mr. Shravan Bhosle**  
FYBSc Human Science

## **Virtual Reality and Augmented Reality**

Virtual Reality (VR) and Augmented Reality (AR) are two revolutionary technologies that have transformed the way we interact with the world around us. These technologies have made it possible to create immersive experiences that allow users to explore new worlds and interact with virtual objects in a way that was previously impossible. While VR and AR share some similarities, they differ in their approach to creating these experiences.

Virtual Reality (VR) is a technology that creates a completely immersive environment that the user can interact with. This is achieved through the use of a headset that is worn by the user, which tracks the movement of their head and eyes to create the illusion of being in a virtual space. The headset is equipped with high-resolution screens that display a 3D image that covers the entire field of view. This creates the feeling of being completely immersed in a virtual world, and allows the user to interact with the environment in a way that feels natural.

One of the main benefits of VR is that it allows users to experience things that would be difficult or impossible to do in the real world. For example, VR can be used to simulate dangerous or risky scenarios, such as flying a plane or performing surgery. This can help train professionals in a safe environment, without the risk of injury or harm. VR can also be used for entertainment purposes, such as gaming or watching movies, where users can feel like they are actually inside the game or movie.

On the other hand, Augmented Reality (AR) is a technology that overlays virtual objects onto the real world. This is achieved through the use of a camera-equipped device, such as a smartphone or tablet, that is pointed at the real world. The device then uses software to analyze the image and overlay virtual objects onto it. The virtual objects can be anything from simple text and images to complex 3D models.

AR is being used in a variety of applications, such as education, gaming, and advertising. For example, AR can be used in education to provide students with interactive and immersive learning experiences. It can also be used in gaming to create new types of gameplay, where virtual objects are overlaid onto the real world. In advertising, AR can be used to create interactive ads that allow users to see how a product will look in their home or office.

One of the main benefits of AR is that it allows users to interact with virtual objects in the real world, which can create a more immersive experience. For example, AR can be used to create a virtual art gallery, where users can walk around and interact with the art as if they were actually in a physical gallery.

In conclusion, VR and AR are two revolutionary technologies that have transformed the way we interact with the world around us. While VR creates completely immersive virtual environments, AR overlays virtual objects onto the real world. Both technologies have a wide range of applications, from entertainment and gaming to education and advertising. As these technologies continue to evolve, we can expect to see even more innovative and exciting applications in the future.

**Ms. Nehal Dolare**  
SYJC

## Genomics

Genomics is a field of study that deals with the structure, function, and evolution of genomes. A genome is the complete set of genetic information of an organism, including all its genes and DNA sequences. Genomics has been revolutionizing the way we understand life on earth, from the smallest bacteria to the most complex organisms, such as humans.

The study of genomics has been advancing rapidly in the last few decades, driven by technological advancements in DNA sequencing and computing power. DNA sequencing technologies have allowed scientists to decipher the genetic code of various organisms, from bacteria to humans. This has led to the discovery of new genes, the understanding of their functions, and their interactions with other genes.

Genomics has many applications in medicine, agriculture, and environmental sciences. In medicine, genomics has enabled the identification of disease-causing mutations, the development of new drugs, and personalized medicine. For example, cancer genomics has led to the identification of specific genetic mutations that cause cancer. This has allowed for the development of new targeted therapies that can specifically target the mutated genes and improve patient outcomes.

In agriculture, genomics has led to the development of new crop varieties that are resistant to pests and diseases. Genomics has also enabled the identification of genes that control important traits, such as yield, drought tolerance, and nutrient content. This has allowed for the development of crops that are more productive and nutritious, with reduced environmental impact.

In environmental sciences, genomics has enabled the study of microbial communities that play important roles in the environment. For example, microbial communities in soil play a critical role in nutrient cycling and carbon sequestration. Genomics has allowed for the identification of specific microbial species and their functions in the environment, which can inform the development of strategies to promote environmental sustainability.

Despite the many benefits of genomics, it also raises important ethical, legal, and social issues. One of the main concerns is the potential for discrimination based on genetic information. This includes discrimination in employment, insurance, and access to healthcare. To address these concerns, many countries have enacted laws that protect individuals from genetic discrimination.

Another concern is the privacy of genetic information. Genetic information is highly personal and sensitive, and there is a risk that it could be misused or disclosed without consent. To address these concerns, many countries have enacted laws that regulate the collection, storage, and use of genetic information.

In conclusion, genomics is a rapidly advancing field that has the potential to revolutionize our understanding of life on earth. It has many applications in medicine, agriculture, and environmental sciences, and has the potential to improve human health and promote environmental sustainability. However, it also raises important ethical, legal, and social issues that must be addressed to ensure that the benefits of genomics are realized while minimising the risks.

**Ms. Nehal Dolare**  
SYJC

## **Cybersecurity**

Cybersecurity has become an increasingly important issue in today's digital age. With the growing dependence on technology in both personal and professional aspects, the need for protection against cyber threats has become paramount. Cybersecurity refers to the practice of protecting networks, devices, and sensitive information from unauthorised access, theft, damage, or any other form of malicious activity.

The consequences of cyber-attacks can be severe, with potential outcomes including financial losses, reputation damage, loss of intellectual property, and even national security threats. It is important for individuals, organizations, and governments to take proactive measures to ensure cybersecurity.

One of the main challenges in cybersecurity is the constantly evolving nature of cyber threats. Cybercriminals are constantly developing new methods to infiltrate systems, and it is essential for security measures to be updated and adapted accordingly. This is particularly important for businesses, which are often targeted by cybercriminals seeking to access sensitive customer data or corporate secrets.

There are a number of different measures that can be taken to enhance cybersecurity. One of the most effective methods is through the implementation of strong passwords and multifactor authentication. This ensures that only authorized individuals can access sensitive information. It is also important to keep all software up-to-date, as outdated software can have vulnerabilities that cybercriminals can exploit.

Another essential element of cybersecurity is employee education and awareness. This involves training employees on how to recognize and respond to potential cyber threats, such as phishing emails or suspicious links. This can help to prevent employees from inadvertently becoming the source of a cyber-attack.

In addition to individual and organizational measures, governments also play a crucial role in cybersecurity. Governments have the responsibility to ensure that adequate cybersecurity measures are in place to protect their citizens and critical infrastructure. This includes investing in cybersecurity research and development, as well as partnering with the private sector to develop effective cybersecurity solutions.

The importance of cybersecurity has only become more apparent with the COVID-19 pandemic. With more people working remotely and increased reliance on digital technology, the potential for cyber threats has grown. This has led to increased attention and investment in cybersecurity measures by both businesses and governments.

In conclusion, cybersecurity is a critical issue in today's digital age. It is essential for individuals, organizations, and governments to take proactive measures to protect against cyber threats. This includes implementing strong passwords and multifactor authentication, keeping software up-to-date, employee education and awareness, and government investment in cybersecurity research and development. By working together to enhance cybersecurity, we can protect ourselves, our businesses, and our communities from the potential harm of cyber-attacks.

**Ms. Nehal Dolare**  
SYJC

## Computing Power

Computing power is the ability of a computer or computing system to perform complex operations and calculations at a rapid pace. With the advancement of technology, computing power has increased dramatically over the years, enabling us to achieve greater levels of efficiency and innovation. Today, computing power plays a vital role in every aspect of our lives, from the way we work to the way we communicate and entertain ourselves.

One of the primary drivers of computing power is Moore's Law, which states that the number of transistors on a microchip doubles every two years. This law has held true for several decades, and it has been the driving force behind the exponential growth of computing power. As a result, computers have become smaller, faster, and more powerful, allowing us to perform more complex tasks with greater ease.

The increased computing power has led to significant improvements in various fields such as medicine, engineering, and science. In medicine, computing power has enabled doctors and researchers to develop more accurate diagnostic tools, simulate complex procedures, and process vast amounts of data to find new treatments for diseases. For example, machine learning algorithms have been developed to diagnose diseases such as cancer, which can help in early detection and improve survival rates. In engineering, computing power has allowed engineers to simulate complex systems and optimize designs before they are built, reducing costs and improving efficiency. In science, computing power has enabled researchers to process vast amounts of data, simulate complex systems, and make new discoveries that were previously impossible.

Another factor that has contributed to the increase in computing power is the development of parallel computing. Parallel computing is the use of multiple processors to perform tasks simultaneously, thereby increasing the overall processing power of a system. This approach has been used in various applications such as weather forecasting, financial modeling, and scientific simulations. With parallel computing, large and complex tasks can be divided into smaller sub-tasks and processed simultaneously, reducing the time required to complete them.

Cloud computing is another technology that has contributed to the growth of computing power. Cloud computing involves the use of remote servers to store, manage, and process data, enabling users to access computing resources from anywhere at any time. This approach has enabled businesses and organizations to reduce costs, improve efficiency, and scale up their operations quickly. With cloud computing, computing power can be accessed on-demand, allowing users to pay only for the resources they need.

However, with the increase in computing power, there are also challenges that need to be addressed. One of the challenges is the security of data and systems. As computing power has increased, so has the sophistication of cyber-attacks. Hackers can now use advanced techniques to breach security measures and steal sensitive data, causing significant financial and reputational damage. Therefore, it is essential to develop robust security measures to protect data and systems.

In conclusion, computing power has played a critical role in transforming our lives and enabling us to achieve new levels of efficiency and innovation. The increase in computing power has led to significant improvements in various fields such as medicine, engineering, and science, and has enabled us to process vast amounts of data and simulate complex systems. However, it is essential to address the challenges that come with the increase in computing power, such as the security of data and systems. As we continue to push the boundaries of technology, the role of computing power is only set to become more crucial in shaping our future.

**Ms. Nehal Dolare**  
SYJC

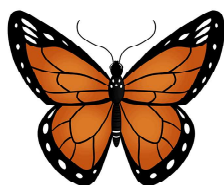
## Winged Wonders

Have you ever wondered why butterflies are present? What is their role in life? How influential are they in the grand scheme of things? In order to understand and answer these questions, let us take a look into some general information first.

Nature has many gems hidden away in its confines but shows some of these to us on a daily basis. Birds, plants, and animals are omnipresent in our surroundings. Another creature that is always fluttering its wings around us is butterflies! Butterflies, along with their cousins, Moths, belong to an insect group known as Lepidoptera, meaning 'scaled wings' owing to the teeny tiny scales that make up their wings. These winged insects come in all shapes and sizes but the most distinct feature about these beauties are the colour contrasts. Every colour imaginable on the spectrum, from yellows to reds to deep blues and vibrant greens, can be found in the wings. Add patterns to the mix and you have a plethora of combinations to observe in wonder. These beauties can be found just about anywhere on our planet, except one icy continent somewhere in the south. Our country, India, boasts over a 1000 different species which can be found in different terrains and habitats. The state of Maharashtra has its very own state butterfly: The Blue Mormon, a big and beautiful black and blue butterfly. They cover just about every nook and cranny of the country, living in their own small world. You may find butterflies hovering near flowers, sucking up nectar or you may find them on manure or wet soil, merrily taking up vital minerals or just chilling on leaves, basking their wings.

Now we come to the burning question: Why are butterflies as they are and what is their role? Over the years, all of us have read in the school textbooks about how food provides us with energy to live. The same is true for many in the natural world too. Butterflies are a good source of nutrition for a variety of organisms. Birds, lizards, frogs are prime predators for them. But that's not all that they are good for. Butterflies are important insect pollinators too. Those sticky pollen grains attach themselves to the butterflies when one visits a flower for nectar, which is then deposited on another as the butterfly goes around sipping. This is essential because the cycle of pollination ensures that fruits and new saplings are always borne to ensure continuity of the plant species.

Butterflies are also considered as bio-indicators. Ecologists sometimes will look at the butterfly populations or presence to understand changes in the ecosystem. Degradation and climate change can drastically affect butterflies which are found in a specific area. Such causes are diminishing butterfly activity day by day. So, this should raise a question: How do we help them in places such as cities? The answer: Create a green corner. Potted plants, a small terrace garden or even backyards can be home to any butterfly. One needs to keep in mind a few things when implementing these green corners. First and foremost, appropriate plants need to be available for the butterflies to recognise that patch as their safe haven. *Asclepias* (Milkweeds), *Cassia* (Golden Tree), *Lantana camara* (Ghaneri), *Stachytarphata* (Jamaican Spike), *Leea indica* (Bandicoot Berry) are some examples of plants which can be grown in backyards. For very space-limited places like balconies, plants like *Kalanchoe*, *Zinnia*, *Periwinkle* (Sadafuli) and *Murraya koenigii* (Kadipatta/ Curry tree) are ideal. The area must also remain relatively undisturbed, away from the hustle and bustle of people. Plenty of sunlight and fresh air is a must. Littering must be curbed as far as possible in and around the area. When maintaining your plants, do not use pesticides and insecticides. Following some simple rules and keeping your surroundings clean goes a long way in helping not just butterflies, but nature itself. If you manage to sustain the growth of the plants and your surroundings, then you could enjoy watching these beautiful insects brighten up your day at any time.



**Mr. Paarth Wagh**, M.Sc. Biodiversity,  
Wildlife Conservation and Management

## Miyawaki Forest: Savior of Earth

Akira Miyawaki was a Japanese Botanist and an expert Plant Ecologist who specialized in seeds and natural forests and was the right hand in natural vegetation restoration of degraded plants.

Miyawaki, a young graduate student in the late 1950s learned about the concept of potential natural vegetation and interaction of plant species with each other which led him to explore the vegetation in Japan. Soon upon visiting the Shinto Shrines (**a structure whose main purpose is to house ("enshrine") one or more kami, the deities of the Shinto religion**) in Japan, he began noticing the 'Chinju no mori' that is the forest area surrounding the Shrine, showing presence of native vegetation being indigenous to the place that shows presence of the five categories of native vegetation. He made another important observation that only 0.06% of contemporary Japanese forests were indigenous. Contemporary forests are created using forestry principles which were not sufficient enough to address the climate change issues and did not contain most resilient vegetation either. This is a world-wide problem as reforestation can take up to 200-300 years to grow naturally containing very little percentage of indigenous plant species.

### **Miyawaki Method of Afforestation:**

Akira Miyawaki developed, tested and refined a method of ecological engineering which is known as the Miyawaki's method to restore native forests using seeds of native plants on degraded soil that are deforested and without humus. Miyawaki's method mimics the way a forest would restore itself naturally without human interruption along with favourable conditions to grow.

Forests grown in this way are more resilient to climate change and reverse the effects of climate change as indigenous species have taken thousands of years to adapt to their local environment to create a supporting ecosystem. The afforestation principle is based on how the species would have interaction in a natural forest. This method involves planting a diverse mixture of trees close together to maximise density and create balance. Denseness of the growth of trees provides a greater amount of forage for pollinators and refuge birds. More canopies cover shades out weeds and creates a cool home for insects and the increase in leaf litter is directly proportional the increase in soil fertility.

### **Following steps are involved in Miyawaki's method:**

#### **Step 1: *Identification and selection of native species:-***

When planting a Miyawaki forest the first step is identification of native species best suited to the area being planted also termed as natural potential vegetation. Forests are multi-layered and as Miyawaki method is based on natural forests, the identification and planting is done in four layers of vegetation. E.g.- building a resistant wall of canopy trees, trees, sub-trees and shrubs. Selection of more number of species will bring about the diversity of the forest.

#### **Step 2: *Preparation of Soil :-***

Soil texture helps in determining the water holding capacity, water infiltration, root perforation capacity, nutrient retention and erodibility. Once the determination of soil texture and type is done the soil needs to be provided with **perforators, water retainers, organic fertilizers** and lastly **mulch**.

- **Perforators:** these material helps improve perforation and help roots to grow quickly. For this a biomass that is spongy and dry in nature suits best. E.g. Husk, rice hush, wheat husk, groundnut husk, cornhusk.
- **Water retainers:** They provide the soil with more water holding capacity. Natural materials such a coco peat or dry sugarcane stalk can be used.
- **Organic fertilizers:** They provide nourishment to the soil. Manure provides small amount of nutrition over time whereas vermicompost provides immediate boost of nutrition but reduces over time. Fertilizers are chosen based on the soil requirement.
- **Mulch:** Insulates and protects the soil. It prevent sunlight from directly falling onto the soil. Direct sunlight makes the soil dry and unfavourable conditions for the plants to grow.

### **Step 3:- Planning the forest:-**

The minimum width of the area should be 3 meters but ideally 4 meters is recommended. Watering the plants regularly is important for the first 2-3 years hence water availability is important. This can be done by building pipelines or on small scale availability of borewells and wells are sufficient.

### **Step 4: Lastly Planting of Trees!**

Following above given measures the trees should be planted. Loosen the soil, add the required manures, perforators, water retainers etc. and pant the trees along with a bamboo stick which will provide support to the growing plant and will ensure that the plant stays upright instead of drooping which is essential for a Miyawaki forest.

### **Indian Miyawaki Forests :-**

**Mumbai** - The Miyawaki forest at Bhakti Park that was planted on 26<sup>th</sup> January 2020 is among the first few forests in Mumbai. By the end of 2023 the BMC will finish growing four lakh trees says Jitender Pardeshi, Superintendent of BMC's garden and trees department.

**Gujarat** – Maze garden at the Statue of Unity is one the most lasts growing attraction in India. 180000 saplings have been planted there.

**Hyderabad** – The city now hosts country's largest Miyawaki Forest spread over 18 acres near Kavagunda that lies in the airport area of Hyderabad.

**Bangalore** - About 4.5 acres of area of Miyawaki forest created in Indian Railway Institute of Disaster Management land in Hejjalla, Mysuru road.

Implementation of the Miyawaki method even on the small scale can lead to a huge difference in the biodiversity of the area. This is one the best way of afforestation and one of the easiest to follow. With a very little help one can build a small forest even in their backyard. With the guidance of NGOs, Government a large scale production of these forests can me implemented. This being one of the most effective way of afforestation, reversing the climate change effects seems possible in a span of 50-80 years.

**Ms. Aarti Chauhan**  
TYBSc Botany

## Artificial Life

***“Our intelligence is what makes us humans, and AI is an extension of that quality”. – Yann LuCun.*** We Humans are living in an artificial era. We have made advancement in technology for easy access to our daily lifestyle. At every moment/ every step we use technology. So, the artificial things that have grabbed our human lifestyle are the necessity of today’s world, the Communication system of the 21st century. In the past, we used to communicate through birds like pigeons delivering messages from one place to another and it was proven as an inconvenient way. Therefore, we started developing new devices and the latest ways for communication. Initially, it started with a suitcase size telephone, yet the inconvenience raised and our minds started to ponder about new advancement, thereby, coming with the solution of smartphones, the “New Era Communication”. The story didn’t come to an end over here, we also wanted to do advancement in it like the first smartphone was introduced with 2G network, then we introduced 3G, 4G and now we have developed the 5G network speed.

Living in an artificial world is not detrimental, however, we must also take care of nature. We humans are known as the “smartest animal” or “the most intelligent animal on earth”, we all know that we humans are raised from nature, depending completely on nature for food, clothing, shelter etc. but now we rely mostly on artificial things. From acquiring food to shelter and many necessities we make use of artificial products. To include the substantial, one is agriculture. In agriculture, farmers use synthetic products like pesticides, insecticides. But there is an organic option to it such as - “usage of organic pests, organic fertilizer, organic manure”. Farmers think that use of pesticides and other artificial derivatives are the effortless routes for rapid crop production, but no they are wrong, even if they are rapid ways, they are not eco-friendly. In fact, they make the soil infertile and even cause fetal problems of food poisoning and other food related hazards. Many farmers in western countries have adapted to organic farming and if we start conducting research under this, there is affirmation that we can even find the solution for it. Many western countries have found alternatives to it with the help of technology such as killing of pests with the help of drones or robots. Australia is the first country in the world who has completely adopted and is practicing organic farming. Another estimated report is that India will grow its organic market by 30% from 2020-22.

Meat is the major food of today’s world, around 86% of world’s total population consumes meat and in India around 42.8% of women consume meat while 48.9% of men’s consume meat. Recently, a fabulous research was conducted in Singapore for *in-vitro* growth of meat. As soon as the research was successful, the government of Singapore announced distribution of these meat in the whole country. This research saved humans from consuming antibiotic injected chickens.

In conclusion We humans are predominantly dependent on AI (Artificial Intelligence) technology. Various giant researches in the world are accomplished with the help of technology. Technology has influenced or controlled every minute and moment of our lives.

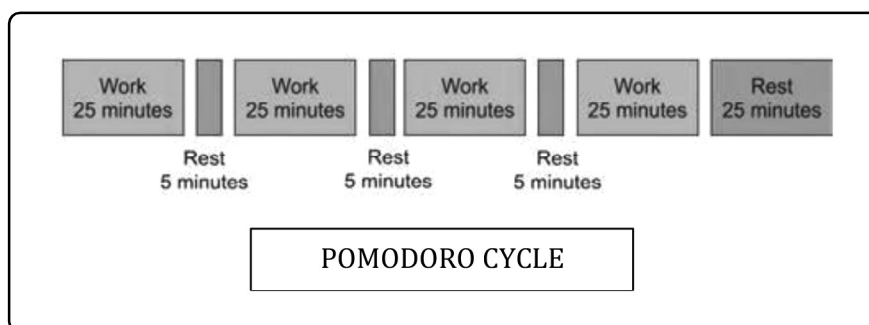
***“Predicting the future isn’t magic, its artificial intelligence.” – Dave Waters.***

**Ms. Pranoti Joshi**  
TYBSc Biochemistry

## Time Management Technique






Human kind is in the search for the 25<sup>th</sup> hour in a day or an extra day in a week but alas! No one is yet successful. We all have to manage in the standardised time given to get our task completed. Getting work done on time is an achievement achieved by some while many are relying on extensions of deadline by even a minute to get the task done. Time management is a skill and an important one which is used effectively to save time and a lot of stress. Traditionally, people use timetables, To-Do lists, planners, etc to manage their time effectively but 'One-size-fits-all' is not the mandate. One must figure out various time management techniques and decide which works best for them. Here's a tomato timer technique.

Pomodoro Technique is a trending time management technique developed in 1900's by Francesco Cirillo, an University student then struggling to focus on his studies and completing assignments. He used the kitchen timer to set intervals for study and break. The timer used was tomato shaped hence the technique got its name 'Pomodoro' as it is an Italian word for tomato. The technique has cycles of study/work and breaks called 'Interval' or 'Pomodoro' these combine to form a pomodoro cycle.



One can set their timer for 25 minutes and carry out their task and once the alarm rings you can have your 5-minute break. After 1 hour 55 minutes you get a 25 to 30 minutes break. You can then begin with the cycle again. The last long break is when you are going to repeat the cycle again.

By following a few simple steps one can use the effective technique for time management:

-  Choose your task/tasks for the day
-  Set a 25 minute timer
-  Work until time is up!
-  Take a 5 minute break
-  After every 4 interval take a 25-30 minute break

Studies suggest that the maximum attention span of humans range between 30-45 minutes and the design of the technique helps one to optimally use their concentration. Pomodoro helps to combat the overwhelming feeling of how to manage a big task with maximum concentration and attention. The dedicated time slots help to curb the distractions as one is aware they will have their break time after a certain time of working. The technique helps one to be mentally prepared for their work time and for their break. One can manually set timer for work and break or else there are apps for android (e.g. Pomodoro timer) and iOS (30/30) users.

Beginners can start with simple tasks and a few cycles. It is evident in the start to constantly keep looking at the timer but with time one gets accustomed. There might be instances when you could have completed your task before time is up, that my friend, is an opportunity for you to learn more, explore new concepts, proofread your work instead of going for an early break. One may get distracted in the beginning which is normal with time and practice you will become pro at avoiding distraction. The technique can be used by students as well as professionals. Students can have their study intervals and practise question intervals. Professionals can use this to complete their daily tasks/activities. The feeling of task accomplishment on time reinforces one to practise the Pomodoro method.

As the saying goes 'Time and tide waits none' one must put their time to best use. So set your timers and ready, steady, go!

**Ms. Nilima Pandey**  
Assistant Professor, Department of Botany

## Inner Strength and Success in Life

**What is the definition of Success?** - Gaining fame/ wealth/ property/ health. To gain fame and wealth, earning money by intellectual power is necessary.

According to sister Nivedita- "A man with good intellect is a clever Ape, but a man with high ethical morals and value is a Human"

To become successful not only intellect but also humanity is essential. **According to Professor Daniel, Harvard University- "IQ contributes 20% in the process of success but EQ (Emotional Quotient) contributes much more than 20% in the process of success".**

What is EQ?

- Ability to manage extreme emotions and to maintain harmony in nature. E.g. Ability to digest failure or even small success in life with no ego and depression.
- Ability to face the most tragic situations.
- Ability to show courage and risk-taking nature.
- Ability to accept new challenges.

EQ is dependent on "inner strength". Inner strength is given in small amount from the birth but it has to develop in proper way in life and also has to maintain throughout the life time.

There are several factors affecting or influencing the degree of "Inner strength"

1. **Mother** is the 1<sup>st</sup> and foremost factor, her food, thoughts, lifestyle, EQ influence the child in every stage of development. Love, care and patience are qualities contributed by mother generally.
2. **Father** is the 2<sup>nd</sup> major factor, bravery, confidence, risk taking ability, positive approach towards life is contributed by father.
3. **Teacher** plays important role in students' life. She identifies the true quality and character of an individual. It can be very well reflected by following story - '**Story of a Tiger**'

Once a Tigress gave birth to cub and died. Later cub developed into a herd of sheep and started behaving like sheep. One day a wild tiger attacked the herd and amazed to see grass eating tiger. Wild tiger brought grass eating tiger to river and showed him his face as the reflection in water of the river. Thus Wild tiger convinced grass eating tiger his true character.

Teacher is a person who practically guides us to follow certain characteristics.

4. **Company**- All saints stressed in the company/ environment in which we are growing. Company is an unpredictable but one can discriminate between good and bad thing. e.g. Books can be considered as a best company for company seekers. Good company helps in development of character. Positive aspects of company are -
  - Encouragement- Confidence, positiveness, high risk-taking ability.
  - Justice- Develop equality and it helps in decision.
  - Love and care- Proper understanding and accommodative nature.

There are few Negative aspects of company also. They are -

- Fear- Apprehensiveness (constantly worrying about the future)
  - Criticism- Develop quality to see negative point in others which may lead to development/ignition of bad qualities within us.
  - Antisocial- Destructive nature.
5. **Faith** - Faith is to believe in qualities of oneself. Positive aspects are necessary for socially responsible person and a good administrator. It leads to creativity and determination.

Thus, to practically apply positive qualities, we must know them first develop and nurture them throughout lifetime, just like how a dancer first understands the sequence of foot steps; practices it & performs best on so; lets all be the best performers of our lives.

**Ms. Vrushali Mohite**  
Asst. Professor, Department of Botany

## **People of Old Age**

*People of Old Age are with a bundle of  
knowledge*

*Either you gain it Or you lose it*

*Doesn't matter as it is up-to you  
that you want the priceless knowledge  
or you want to abdicate it*

*Choose it yourself, either shed their tears  
Or keep them with you for eternal years  
At this point of time, be the parent of your  
parent  
As not everyone gets this chance.*

*I might sound rude but I don't want to  
create a feud  
I hope you like my poem, for that I am  
Roem*

**Ms. Saneelah Vasaikar**  
FYBSc Biochemistry

## **Me, I and Myself**

*Hey, do you know me?*

*Tell me you recognise me*

*Oh love, trust me I looked everywhere*

*And found you in a mirror;*

*In a reflection not so discernible*

*I found a reflection so vulnerable*

*Craving for recognition*

*I put a finger out to touch you*

*But you Disappeared.*

*You disappeared, Just like that*

*Hey, it's me, your own self*

*Now looking at the stranger figure*

*Staring across the mirror that we once*

*Embraced with petals wanting to look*

*Winsome, you put on a smile forcing*

*Your pink lips to curve*

*Desperate for beauty to tell you*

*She is here, In you, I, myself.*

**Ms. Vaishnavi Bhogale**  
FYJC

## कविता मना मनातली

नी नोकरीचे ठिकाण कत्तलखाना झालय...!  
 मुलाखतीच्या वेळेसच बावरलेला उमेदवार,  
 नियुक्ती झाली नी अजूनच खचला.  
 फ्रेशर, कामाचा अनुभव नाही ही त्याची अडचण झाली,  
 वरिष्ठ नी हातचं राखून सहकार्य करणारे कलींग, यांना तो पुरता वैतागलाय....!  
 नी नोकरीचे ठिकाण कत्तलखाना झालय.....!

कधी तो दुर्गम खेड्यातून येतो,  
 तर कधी शहरातील झोपडपट्टीतून,  
 मागास परिवार नी वातावरणातून आलेला, आधुनिक युगाचे ज्ञान नसलेला,  
 पुढारलेल्या समाजासमोर हतबल झालाय...  
 नी नोकरीचे ठिकाण कत्तलखाना झालय...!

हुकूमशाहीला साथ देणारे,  
 नी कान भरणी करणारे, जागोजागी त्याचा उपमर्द नी बेइज्जती करताहेत,  
 गुराढोश सारखे काम करणाऱ्या,  
 त्या गरजवंताला सवलती नी बढती याला मुकावं लागलय ....  
 नी नोकरीचे ठिकाण कत्तलखाना झालय.....!

नोकरीचे ठिकाण कुठेही असो, खाजगी, सहकारी, सरकारी.  
 धाक दाखवून काम करून घेणे हा शिरस्ता झालाय,  
 पिढ्यान पिढ्या अज्ञान नी आर्थिक अडचणीत असणारा,  
 तो पुढच्या पिढीलाही महागड शिक्षण देऊ शकत नाहीये...  
 सेवाकाळात फरपट सोसणाऱ्याला  
 निवृत्तीनंतर मात्र सगळं अनोळखी झालंय...  
 नी नोकरीचे ठिकाण कत्तलखाना झालय.....!

उठ मर्दा तू जागा हो,  
 भारतीय संविधान, नी त्यातील तुझे अधिकार,  
 समजून घे, केविलवाणी भिक मागू नको,  
 तुझ्या वरील अन्याय ठणकावून विचार,  
 अन्यथा, गुलाम आणि बरबाद होशील सध्या जे चाललंय...  
 नी नोकरीचे ठिकाण कत्तलखाना झालय.....!

श्री. रामचंद्र लक्ष्मण शिंदे  
 नवी मुंबई

## अधूरी बातें

मुस्कुराकर कभी दो लफ़्ज़ कह दो हमसे,  
कान तरस रहे हैं तुम्हारी आवाज को सुनने,  
जितना जला हूँ उतना ना जला होगा कोई,  
तुम्हारा जवाब आएगा काश लेकिन मेरा जनाज़ा लगेगा उठने।

वह नहीं है मेरी महबूबा,  
वह नहीं है मेरी माशूका,  
वह है वह एक शख्स,  
जिसे नहीं चाहता मैं खोना।

उसके लिए भले रोया होगा मैं दिन-रात,  
उसके मीठे लफ़्ज़ सुनने के लिए हो रहा होगा मेरा दिल बेताब,  
उसने पलट के नहीं देखा हाल मेरा कभी और उसकी चुप्पी ने मुझे दे दिया है अब जवाब।

मैं चाहता तो कह सकता था वह सारे सच,  
लेकिन मैं नहीं देखना चाहता कभी उसे उदास,  
राज ये दिल में हमेशा के लिए दफन हो गया,  
डाल दी उसने उस पर मिट्टी और हमेशा के लिए उस मिट्टी में मिल गई मेरी आखरी साँस।

आखरी दम तक मैं तड़पा उसके शब्द में सुनने के लिए मेरी वह गवाही,  
पर कटाक्ष शब्दों से भरी पड़ी यह मेरी जख्म भरे लिखाई,  
न जाने कहां-कहां घूमा रहूंगा मैं लेने उसके लिए दवाई,  
वह जानती नहीं पगली और पता नहीं वह किसके बहकावे में आ गई।

आ गया वो अंतिम पन्ना जिंदगी का जिसमें अधूरी रह गई मेरी फरमाइश,  
राख हो गया मैं और दफन हो गए मेरे वह सारे आशीष,  
हवें मैं उड़ गई मेरी रूह और जमीन में समा गया मेरा शीश,  
भर दिया उसके प्याले में अमृत और पी गया मैं उसके पीड़ा-ओं का विष।

विष पीकर ना अमर हुआ लगा अंदर ही अंदर मैं मरने,  
यह बातें अधूरी रह गई ना कभी कुछ पाया बोल मैं,  
ना ही बोल पाई तुम और ना ही यह झूठ लगा मिटने,  
तुम्हारा जवाब आएगा काश लेकिन तब तक मेरा जनाज़ा लगेगा उठने।

जयेश नवनाथ मधुरकर

TYBSc Physics

### दफा कीजिये

मेरे इस नामालूम से दर्द की दवा दीजिए  
अगर दे नहीं सकते तो फक्त दुआ कीजिए  
जिस चीज़ से मिल जाए दिल को राहत  
पल भर के लिए ही सही, वो अता कीजिए  
मुहब्बत अगर रखता लगती है खता आपको  
मेश कहना है कि ज़रूर ये खता कीजिए  
अगर वफा नहीं सकते किसी के साथ,  
कम से कम अपने साथ तो वफा कीजिए  
खूबसूरती देख कर मुरीद न बन सके  
सके किसी को देख कर ही न मरा कीजिए  
आप की कामयाबी पे जलन होती हो जिसे  
ऐसे हासिदों से दूर रहा कीजिए।  
कैद लगती हो किसी को मुहब्बत आपकी  
बेवफा कैदियों को दिल से रिहा कीजिए।  
ऐतबार न हो अगर किसी की मुहब्बत पर  
आप खुद से ही इश्क किया कीजिए।  
लोगों के ऐब को नजरअंदाज कर नूरी  
अपने ऐबों पे नज़र रखा कीजिए ।

Qureshi Noori Fatima  
SYJC

### रोना छोड़ दो

हर शख्स के खातिर जीना छोड़ दो  
खुद के सिवा सब पे मरना छोड़ दो  
जिस दिल में हर कोई बस जाए  
इतने बड़े दिल में बसना छोड़ दो  
ज़बानों से निकले पत्थर, जो दिल पे पड़े  
इमारत खड़ी करो, उन्हें गिनना छोड़ दो  
दुख तकलीफ, अजीयत, हर तरह के गम  
बेकार अहसास में बहना छोड़ दो  
करीबी ही दिल दुखाते हैं अकसर  
जमीर की सुनो, इतना सहना छोड़ दो  
रुकावटें, परेशानियां, ये सब बहाने हैं  
कामयाब होना है तो, इन पे रونا छोड़ दो  
नींद में मीठे सपने की ज़रूरत क्या है?  
हकीकत में देखो, बेखबर सोना छोड़ दो  
यह दुनिया सुनती नहीं, देखने की आदी है  
कुछ बन के दिखाओ, सिर्फ कहना छोड़ दो

Qureshi Noori Fatima  
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## टाळी... आयुष्यातील एक अविभाज्य घटक

टाळी, किती साधे सोपे दोन अक्षर. एका हाताच्या चार बोटांनी दुसऱ्या हाताच्या तळव्यावर आघात केल्यावर जो ध्वनी निर्माण होतो किंवा नाद निर्माण होतो ती म्हणजे टाळी. किती साध आणि सोपे आहे, नाही का? पण खरच ती इतकी सोपी नाही हो!

टाळीचा प्रवास आपल्या जन्मापासून जो सुरू होतो तो अगदी आपल्या अंतापर्यंत सुरूच असतो. म्हणजे बघा आपण जन्माला आलो त्यानंतर भोकाड पसरतो, अशा वेळी आपली आई, आजी, काकी, मामी, मावशी, आत्या, शेजारी आपल्या समोर टाळी वाजवतात अशा प्रकारे या टाळीचा आपल्या आयुष्यात सर्वात पहिल्यांदा प्रवेश होतो!.

दोन्ही इवल्याशा हाताचे पंजे पकडत ते दोन्ही एकमेकांवर हलके हलके वाजवायला शिकवतात व टाळीचा नाद आपल्या शरीरात मुरू लागतो. साधारण दीड दोन वर्षांचे असताना एखादी गोष्ट पाहून ऐकून आनंद झाला की ते आपोआपच आपले दोन्ही पंजे उगाचच एकमेकांना स्पर्श करत टाळी वाजवायचा प्रयत्न करते पण त्यात नाद नसतो. पण त्यात असते एक अविरत निरागसता, एक निखालस आनंद त्या नुसत्या अव्यक्त टाळीच्या आविर्भावाने मन प्रसन्न होऊन जाते. टाळीचे बाळकडू तिथेच अंगात मुरते.

आपण शाळेत गेलो की टाळी प्रगल्भ होते. शिक्षक त्याच्याकडे लक्ष वेधण्या करिता टाळीचा वापर करतात. एखाद्याला प्रोत्साहन द्यायला टाळी वाजवावी हा संस्कार आपल्यात भिनवला जातो. एखाद्याचे भाषण झाल्यावर किंवा एखादा कार्यक्रम झाल्यावर किंवा कोणाच्या तरी स्वागतासाठी आपल्याला टाळी वाजवण्यास शिकवले जाते. टाळीला आता भाषा आणि भाव समजू लागतात.

तरुणतरुणी मधलं एखादं जोडपं देतात ती टाळीची साद. एक मित्र-मैत्रीण देतात ती टाळी. बोलावण्यासाठी देतात ती टाळी. दिलखुलास टाळी, टिंगल टवाळीची टाळी, मस्तीची परिसिमा ओलांडल्यावरची टाळी, खळखळून, आवडलेल्या गोष्टीवर दिलेली दाद म्हणजे टाळी या मुळे आपल्यात चैतन्य निर्माण होत.

टाळीचे प्रकार पण भरपूर. लहान मुलांच्या छोट्या छोट्या पंजाची न वाजणारी टाळी. तरुण पोरानांची उत्साही टाळी. तर वयस्कर लोकांची अलगद एकमेकांना कसाबसा स्पर्श करत एक अबोल अनुभवी टाळी!

गाणी म्हणताना वाजणारी टाळी. कुठल्याही कलाकाराला त्याच्या कलेला टाळ्यांच्या आवाजात मिळणारा प्रतिसाद, कार्यक्रमात निवेदक आपल्याला नेहमी सांगतात की टाळ्यांची कंजुशी करू नका!

एखाद्या कार्यक्रमात कोणा मान्यवराचं स्वागत टाळ्यांच्या कडकडाटाने होणे म्हणजे त्याला दिलेली ती मानवंदना. राजकारणात मात्र एकाच पक्षातील किंवा भिन्न पक्षांतील नेत्यांनी एकमेकांना दिलेली टाळी लगेच चर्चेचा विषय बनून जाते. ते समजून घेणे आपल्या सारख्या सर्वसामान्य माणसाच्या आवाक्याबाहेर असते त्याबाबतीत आपण लांब राहिलेल्या बर.

दिंडी, मोर्चा, पालखी, निषेध यावेळी देखील टाळ्यांचा नाद घुमतो. वाढदिवसाला आपल्या जवळच्या लोकांच्या टाळ्यांच्या आवाजात केक कापतानाचा आनंद काही औरच असतो.

भांडणात पण या टाळीला आपण सोडत नाही. कोणाची बाजू खरी आणि कोणाची खोटी असा प्रश्न आला की दोन्ही बाजूने बोलले जाते. एका हाताने कधी टाळी वाजते का या टाळीला उगाचच त्या भांडणात गोवले जाते.

टाळी ही आपल्या आयुष्यात कायम नाद रूपात घर करून असते. सकाळ पासून ते संध्याकाळ पर्यंत टाळीचा ध्वनी आपल्या कानात नुसता पिंगा घालत असतो.

काही जण अवहेलनात्मक टाळी वाजवतात. काही संगीतकारांनी तर टाळीचा यथोचित वापर करून बऱ्याच गाण्यांना चाली दिल्या आहेत ! तसेच योग शास्त्रात व वैद्यक शास्त्रात सुद्धा टाळी चे महत्त्व आहे आणि शेवटी आपण जेव्हा आनंदी असतो तेव्हाच तर टाळी वाजवली जाते आणि जगात आनंदासाठी तर सर्व आटापिटा चाललेला असतो म्हणून निरोगी राहण्यासाठी टाळी वाजवावी.

प्रा. बिपीन धुमाळे  
मराठी विभाग प्रमुख

## संवाद

संवाद म्हटलं की सर्वांना आठवतं ते फक्त दोन व्यक्तींमधली बोलणं. जेव्हा दोन व्यक्ती भेटतात त्यांच्या बोलण्याला संवादाचा रूप येत.

पण संवाद इतके दुस्तर झाले आहेत की नात्यांची घट्ट दोर तुटण्याची वेळ आली आहे. असं म्हणतात की, मायेची ओढ तुटली की नाती आपोआप दुस्तर होत जातात. त्याचप्रमाणे जर मायेचं अस्तर गळून पडलं की संवाद आपोआप संपतो. एकच छताखाली असलेलं कुटुंब एकत्र बसतात खर, पण संवाद नावाचं जे चक्र ते शक्यच नाही होत, कारण जो वेळ घरात मिळतो तो आपण मोबाईल फोनच्या प्रवाहात आपण गुरफटून जातो आणि इथे संवादच संपतो. नात्याची वीण हळू हळू कमजोर होते.

आजच्या युगात अशी परिस्थिती आहे की तोंड बंद, बोट चालू!!

आपण एकमेकांसमोर मोकळे होतच नाही. मनातल्या मनात कुटत राहतो. 'थेंबे थेंबे तळे साचे' म्हणता म्हणता मनात गोष्टींचा किंवा दुःखा एवढा मोठा डोंगर निर्माण होतो की त्याचा परिणाम म्हणजे आत्महत्या. मनात प्रश्न साचले की, विकृतीकडे वाटचाल सुरू होते, आणि मानसिक संतुलन बिघडते. आपल दुःख दुसऱ्याला सांगितल्याने दुःखाचा भार कमी होतो. दुःखाचा हा डोंगर हळू हळू कमी होऊन, मनातली विकृती संपते.

माणसे मनातल्या मनात संवाद साधतात पण मनातलं मनातच विरून जात व्यक्त झाल्याशिवाय एका मनाच दुसऱ्या मनाला कळणार कसं?

संवाद स्वतःच्या मनाशी साधता आला पाहिजे. संवाद स्वतःशी करायचा असेल तर स्वतः वर प्रेम करता आलं पाहिजे आणि एकदा की स्वतःवर प्रेम निर्माण झालं की आपोआप संवाद निर्माण होतो. मग तो संवाद स्वतः च्या मनाशी असो वा दुसऱ्याच्या मनाशी.

संवाद नसला तरीही मुक्या भावनांना ही शब्दरूप येऊ शकते. धुंदी कळ्यांना धुंदी फुलांना समजण्यासाठी संवाद हा साधता आलाच पाहिजे. आपण असं म्हणतो की प्रेमात, 'इशारो इशारो से बाते होती है' पण त्या इशान्यांच्या साथीला शब्दांची साथच नसेल तर त्या प्रेमाच्या नात्यामधून प्रेमाचा सुगंध बहरेल का? प्रेमाच्या त्या नात्यात गोड संवाद हवाच ना!

दगडातून शिल्प अवतरते ते संवादातून, मनातली कविता बाहेर येते ते संवादातून, सौंदर्य प्रेमाचे, सौंदर्य जीवनाचे, मनातील प्रेमळ अशी भावना व्यक्त होते ती संवादातूनच!

संदीप खरे यांनी खूप छान म्हटलं आहे,  
ऐसे काही व्हावे, मन शांत निजावे  
एकांताच्या वेळी, आकांत निभावे  
बघ संध्येच्या वाती, कुणी भिरभिरता पक्षी  
वाटे त्याचे गाव पुसावे..

संवाद असो हा मनाचा मनाशी किंवा एका मनाचा दुसऱ्या मनाशी, किंवा प्रेमात बहरणाऱ्या दोन फुलांचा, संवाद असो मैत्रीच्या बागेतील, आणि घरातल्या गोड नात्यांचा. संवाद हा झालाच पाहिजे. जेव्हा हा संवाद होईल तेव्हा जीवनाचा सार आपोआप बहरेल.

Ms. Shruti Kanhurkar  
FYBSc (CBZ)

## प्रेम हे प्रेम असतं.....

आपल्या दोन अक्षरांच्या एका शब्दात अनंत सागरासारखा अर्थ घेऊन जन्माला आलेला शब्द म्हणजे प्रेम. दिसायला छोटा पण अर्थ मात्र अनंत सागराएवढा. प्रेम म्हणजे माया, ममता, प्रीती, विश्वास. प्रेम ज्यातून सुख, समाधान, शांती मिळत राहते. प्रेम त्या सागरासारखे आहे ज्याची खोली न मोजता येण्यासारखी आहे.

प्रेमाचा सरळ संबंध भावनेशी असतो. मग ते प्रेम एखाद्या व्यक्तीचे त्याच्या कुत्र्यावर, स्वातंत्र्य सैनिकाचे स्वातंत्र्याशी, आईचं आपल्या लेकराशी, एका वेड्या धुंद प्रियकरच आपल्या प्रेयसीशी! प्रेमाला विशिष्ट मर्यादित बांधता येत नाही. प्रेम हे अमर्यादित असतं. प्रेम हे स्वच्छंद उडणाऱ्या पक्ष्याप्रमाणे स्वतंत्र असते. ज्याला कोणीही आपल्या मुठीसारख्या पिंजऱ्यात कधीच बांधून ठेवू शकत नाही.

प्रेमाशिवाय मनुष्याचे जीवन असंभव आहे. म्हणूनच प्रेम हेच जीवन आहे असं म्हटलं तरी वागवं ठरणार नाही. प्रेम नेहमी निस्वार्थी असते, स्वार्थी तर लोक असतात जे त्याला विकृत स्वरूप देतात.

निस्वार्थ भावनेने समोरच्याला सर्वस्व अर्पण करणे म्हणजे प्रेम! एका हृदयाची दोर दुसऱ्या हृदयाशी आपोआप जुळणे म्हणजे प्रेम! एका मनाचा दुसऱ्या मनाला काहीही न बोलता समजणे म्हणजे प्रेम! समोरचेच्या नजरेशी नजर भिडली की ओठांवर हळुच येणार स्मितहास्य म्हणजे प्रेम!

मंगेश पाडगांवकरांनी खूप छान म्हटलं आहे;

प्रेम कधी रुसणं असतं,

डोळ्यांनीच हसणं असतं,

दोन ओळींची चिठ्ठीसुद्धा प्रेम असतं,

घट्ट घट्ट मिठीसुद्धा प्रेम असतं,

प्रेम म्हणजे प्रेम असतं!

प्रेम ही अशी भावना आहे जी मनातून नव्हे तर हृदयातून येते आणि इथेच तर खरी गफलत होते! एवढ्या तेवढ्या आकर्षणाला प्रेम समजून प्रेम शब्दालाच आपण कायमचं मुकुन बसतो.

प्रेम काय असतं? कोणाला तरी प्राप्त करणं किंवा स्वतःला कायमचं गमावून बसणं, एक नातं किंवा एक स्वतंत्र, जीवनाचं यश किंवा जीवनात मिळालेलं एक छोटंसं अपयश.

प्रेमाची व्याख्या प्रत्येकासाठी, प्रत्येकाच्या नजरेत, प्रत्येकाच्या मनात वेगवेगळी असते. कोणासाठी ते दुःख असतं तर कोणासाठी सुख, कोणासाठी बागेत फुलणारी कळी तर कोणासाठी कोमजलेल फुले, कोणासाठी ते यश असत तर कोणासाठी अपयश, कोणासाठी ते जीवन असत तर कोणासाठी जीवनाचा खेळ!!

प्रेम, प्रेम हे फक्त आणि फक्त प्रेम असतं!

**Ms. Shruti Kanhurkar**  
FYBSc (CBZ)

## एक पुस्तक परिचय - तोतोचान

तोतोचान पुस्तक हातात घेतल्या घेतल्याच ते लहान मुलांचे काहीतरी वैशिष्ट्यपूर्ण गोष्टी दर्शवणारे असे पुस्तक आहे हे लक्षात येते. परंतु केवळ लहान मुलांनीच नव्हे तर मोठ्यांनीही आवर्जून वाचावे असे हे पुस्तक. तोतोचानची ही गोष्ट जी वाचल्यावर प्रत्येकाला अशा मजेदार शाळेत जायला नक्की आवडेल असते वाटते.

छोट्या तोतोचानला संपूर्ण अवतीभवतीच्या जगाचे कुतूहल आहे. बालमुलभ औत्सुक्याने ती वागते जे पारंपारिक शाळेच्या शिस्तीत बसत नाही. शाळेतल्या डेस्कच्या आवजाचे तिला इतके कौतुक वाटते की, ती वही, पट्टी, पेन्सिल, रबर घेण्यासाठी क्रमाने डेस्क उघडते. ठेवतांनाही तशीच क्रमाने उघडून बंद करते. खिडकीबाहेरच्या बँड वाल्यांना वाजवा रे वाजवा म्हणते आणि खिडकीत अख्खा वर्ग गोळा करते. बाईनी आता ये जागेवर म्हटल्यावर दुसरे बँडवाले आले आणि त्यांना वाजवा नाही म्हटले तर वाईट वाटेल म्हणून थांबले असे सांगते. या आणि अशा कृत्यांमुळे बिचारीला शाळा बदलण्याची वेळ येते.

लेखकाची शैली इतकी चांगली आहे की, आपणही तोतोचानच्या बरोबर तिच्या जगावेगळ्या तोमोई शाळेत जातो. इथे सहा आगगाडीचे डबे वर्ग म्हणून असतात. इकडचे मुख्याध्यापक कोबोयाशी तब्बल चार तास न कंटाळता आवडीने तिचे बोलणे ऐकतात. तु एक चांगली मुलगी आहेस हे त्यांचे वाक्य तोतोचानच्या मनावर कोरले जाते. निसर्गात सहजपणे मुले जीवनमूल्ये शिकतात. कुठेच शिकण्याची सक्ती नसते. सगळे मुलांच्या मनासारखे निरामय आनंदाचे. मनमोकळे वातावरण. छोट्या छोट्या प्रसंगातून मुले आपले आपणच छोटे धडे शिकतात. शहाणी होतात. आज ती मुले खूप मोठ्या हुद्यावर आवडीच्या क्षेत्रात काम करत आहेत. सर्वांच्या मनात त्या जगावेगळ्या शाळेबद्दल आणि घडवणाऱ्या मुख्य सरांबद्दल अतिशय जिवाळा आहे.

छोटीशी असणारी ही कथा शिक्षणाचे नवे दालन उघडून दाखवणारी आहे. वेगळ्या देशाची एक निराळीच शिक्षण पद्धती येथे आपणास अनुभवायला मिळते.

लेखक : तेत्सुको कुरूयानगी  
 अनुवाद : चेतना गोसवी देशमुख  
 सौ. शामल संदेश कुलकर्णी  
 वरिष्ठ लिपिक  
 बांदोडकर महाविद्यालय ठाणे.

Chit-chat  
with  
BNB Alumni

## Interview with Mr. Rajesh Narvekar (IAS)



**Aashvin:** Let us begin the interview by asking a question about your beginning sir, you are from Sirsi which is in Karwar and you grew up in the Thane district, so, how was your childhood like?

**Answer -** I was born in Karnataka, Karwar district but my father was working in Maharashtra state government as a forest officer. I came to Thane when I was in 10<sup>th</sup> standard. In between I studied at in many places, like Mahabaleshwar, Sawantwadi, and till 9<sup>th</sup> standard I was in Kinwat that is a remote tribal district in Nanded. From there my father got transferred to Shahpur so we were staying in Thane, so I completed my 10<sup>th</sup> from Bedekar school then I shifted to science faculty in Bandodkar since, that time there were very few colleges. Since Bedekar school and Bandodkar college belonged to the same institution, we opted for Bandodkar. From 10<sup>th</sup> onwards I was in Thane, till my graduation.

Childhood at that time was very much different from what we see right now. It was the era of Mobile-less world! So, one to one contact was the basis of friendship. In college days, Thane Talaopali was the ultimate site for our friends to meet daily from 6 to 9 pm. From my first year till my graduation, we used to meet but through personal meetings, communications, and attending many programmes like programmes of classical singers, Bhimsen Joshi, Lata Mangeshkar, Shirish Kanekar, those type of cultural activities were there at that time which we used to enjoy together.

**Siddhant:** Sir, you studied chemistry for a bachelor's and then you changed your field to M.A history. So how did you make this choice? Was it a part of your planning to become an IAS?

**Answer -** Actually, choosing science was a mistake on my part, since from my school time only I had an inclination for Literature, History, and Geography i.e. Arts subjects. But because I scored good marks i.e., more than 80 percent in 10<sup>th</sup> standard, I was considered a brilliant student; out of social compulsions and family background of medical practitioners; everybody thought that I should join the medical stream. I hated maths and in 12<sup>th</sup> standard, I could not score good marks

and therefore I chose PCB group (physics, chemistry, biology). At that time, I had a passion for movies, I was participating in dramas also in Bandodkar college Lions club, INT there we use to have drama competition so that time I thought I will complete my B.Sc. and I will join film institute to complete course of edition and for that BSc was compulsory, so I opted for B.Sc. But again in B.Sc., I got more involved in other activities so the first year was bad I score 50 to 70 percent marks. The second year was even worse and I failed in final year while and all my other friends got first class!

**Siddhant : Sir, then what made you choose MA in history? How much did it help you in IAS studies?**

**Answer -** After passing out all the friends joined private companies and I realised that no one has time for me! Everyone has changed one's priorities. Secondly, my parents were unhappy, although they didn't scold me but 'He was building his castle in the air'! were the words written by my father Those words really hurt me and my mother was also very sad. Being an elder son, I knew my parents had lot of expectations from me; so, although BSc was not my passion, I first thought of clearing BSc exam and then to find something as an alternate career. I cleared BSc, and then approached Chintamanrao Deshmukh institute which gives coaching for UPSC examinations by Thane municipal corporation that was started in 1988. I opted for history and Marathi Vangmay (Marathi literature) being my liking subjects. There was misconception that a graduate has an accumulated knowledge of graduation subjects. I used to study for 12 – 14 hours. For 6 months I got to listen to renowned professors like, Vijaya Rajadhyaksha, Ramesh Tendulkar, Prabha Ganorkar and Yasmin shaikh. That was the turning point! I became very serious of the subjects and my studies.

As, my father was transferred to Pune, I came to know about the Pune university and Jaykar library. I was planning to join Jaykar library for studies but there was no possibility of getting admission without joining any course in university campus. So, I thought of completing M.A. history, after giving qualifying admission test. You will be surprised to know that right from 1<sup>st</sup> semester I was topper for 2 years in Pune university! I even passed NET eligibility test for lecturer and again I got junior research fellowship for PhD research from University Grants Commission. I realised selection of liking subjects changes your career. So now-a-days I always insist students to go by intuitions and your passion then only you will get success. Otherwise even though you are successful you may not be happy!

**Sanjeeda : Sir as you are working as an IAS officer for so long. IAS is one of the TOP positions. How has been your experience being an IAS?**

**Answer -** As an IAS officer, fortunately, I could work in on many positions. I worked in Mantralaya as a private secretary of the home minister then I worked in the MIDC, as a deputy secretary and a joint secretary to chief minister. From there I came to Thane as a district collector. After joining, I always thought at the back of mind that I should not restrict myself to one sector and to explore as many sectors as possible in service. So that's the reason I got to experience as a private secretary to a minister in housing, Stamp duty and Registrations, as a Superintendent of stamps in Mumbai. I could also get a lot of exposure as a state delegate. I had to travel to countries like Japan, China, Italy for various projects. So, working at different high positions gives you different exposure and it helps in improving your personality.

**Vaishnavi : Sir you are an IAS of the 2009 batch but you have been working since 1994. So how did you manage to work and prepare for IAS?**

**Answer -** In 1994, I was working as the Deputy Collector and then I got promoted to the position of an IAS officer. The postings after becoming an IAS such as Collector, Municipal Commissioner, Zilla Parishad CEO, or the way I will be Secretary after 1 and a half year means Transport Commissioner or State Commissioner are the postings you get to post to after becoming an IAS Officer but at the start, everyone has to work as Deputy Collector, Additional Collector. Thus, there was no such issue. Basically, we have two channels to work under Government Union Public Service Commission and State Public Service Commission. At Union Public Service Commission, students from all over India compete and 2<sup>nd</sup> Union Service Public Commission, students from all over Maharashtra compete.

If you are directly qualifying the UPSC then IAS, IPS as I Mentioned earlier comes under it and If you are qualifying SPSC then Deputy Collector, DSP, Sales Tax, and RTO come under it. Those who are qualifying through State as Deputy Collector become an IAS, while those with DSP become an IPS, both channels remain open. The promotion channel opening depends upon mobility so it takes those many years to become an IAS Officer.

**Shrunoti: Sir you have travelled to many countries like Japan, China, South Korea, and also the U.S.A in Berkeley University for various projects. So, what is the difference between these countries' administrations and our administration?**

**Answer -** Yes, there is a difference. In our case the democratic setup and public behaviour reflection to the administration; in the U.S.A. they go by 100 per cent merit and they are law-abiding people. In the case of Japan, the people are cultural. In our case to say the record, our people are hypocrites, we try to act good but that does not mean we are good, like even in Japan when they serve, they bow politely and serve on their knees as a sign of respect, they do it from the heart; so, Japan's system is very different. America is different as they do administration professionally, while China is communities altogether different. South Korea is also a very law-abiding administration once on. Even the ministers stand in the queue holding the plate for lunch. They don't consider themselves different or higher more like us where Rajeshahi still persists.

**Aashvin: As you mentioned, you were the collector of Thane just when covid hit in the pandemic situation. We keep talking about doctors, nurses and sanitary workers, but I think the people who work behind the scenes, the administrative services, they get very little credit for the work. How did Covid-19 pandemic hit top positions such as yours?**

**Answer -** I'll deviate a little bit from this, doctors, nurses and sanitary workers were there but the coordination responsibility belonged to the collector. I can say the other way, I was at the forefront. I got maximum publicity and awards. Doctors perhaps got less as they were behind the scenes, and actually working. I was not actually working, but was just coordinating. But it was a tough task. I guess from 11<sup>th</sup> March to 31<sup>st</sup> August for six months all days I was in office, in lockdown period from morning 9 to atleast 1:30 in the night. It was compulsory for me to quarantine myself because I was moving out; my family members were staying in house in quarantine. We used to interact only once in the night when I reached home for dinner. There was a lot of pressure about the migrant workers who were stuck in Mumbai-Thane area, so, providing them food packets that too in lakhs per day was very difficult. Then, transporting them to their respective states was very difficult. First train in India for migrant labours was successfully run by me from Bhiwandi to Gorakhpur.

People near the window of the train and standing at the doors, they were weeping and crying and shouting “Jai Maharashtra! Jai Maharashtra!” as the train passed. This was a satisfying experience. We set off 80 trains and transferred 1.25 lakhs of people from Thane to different parts of India right from Jammu Kashmir to Cochin and Calcutta to Gujarat. Besides this, managing oxygen supply, distribution of Remdesivir injections and other medicines, it was tough in the second wave. Availability of beds was also tough. It was a challenging time.

**Siddhant : What were the changes you observed while being posted in new cities and what was the cooperation like by the locals in the developmental stages of important projects, you have administered the construction of a transparent skywalk, a viewing gallery in the Malshej Ghat area of Murbad Taluka?**

Answer -I have very good support from the M.L.A. and M.P. in the Thane district. Fortunately, all the politicians are positive towards development, despite differences in their political ideologies. So as a collector I used to put a proposal and I always got 100% support. Even the locals have been very helpful because whenever development happens then only the prices of their properties and other things would rise. In Navi Mumbai also the new airport is coming here and Sewri-Nhava Sheva trans harbour link is coming in November this year so Navi Mumbai will be developed in deeps and domes the development which would have been taken in 20 years maybe it will happen in 5 years.

**Shrunoti: Thank you so much, sir; it was a wonderful interview. One last question – sir, you explained your life story and took us through its journey, we would very much benefit from it. For young graduates like us who would go in different fields and make choices in life while facing problems, what way can we cultivate our personality to push through such times? What is your advice?**

Answer -I advise you to choose and go in fields that your heart desires. Secondly, even if you go in any field or don't do service you are bound to encounter problems in life itself at various stages but remember never to let your spirits down. You can come out of every problem. Never get discouraged due to failures, be bold to face it and you will overcome it. Trust and love themselves. We love others but we need to love our own self! Learn to take decisions on your own and calmly think about it and even have a solution, if problems come. You need to be calm and firm. Just remember that bad times arrive in everyone's life but so does it pass also. Good time doesn't stick around neither bad time. Rather than thinking of extremes if we keep calm and remember our old decisions then I think in life ahead you would be 100 % successful.

All students: Thank you so much sir.

Mr. Aashvin Das (TY Micro)

Ms. Vaishnavi Belose (TY Biochemistry)

Mr. Siddhant Mote (TY Biochemistry)

Ms. Sanjeeda Khan (TY biotechnology)

Ms. Shrunoti Joshi (TY biotechnology)

**Guiding Teacher:**  
**Ms. Sayali Daptardar**  
(In-charge, Dept of Biochemistry)

## Winner's Corner

### स्वतंत्र भारतातील स्वतंत्र महिला

अल्बर्ट आइन्स्टाईन यांनी खूप छान म्हटले आहे, गर्दीचा पाठलाग करणारी स्त्री सहसा गर्दीपेक्षा पुढे जात नाही; मात्र एकटी चालणारी स्त्री स्वतःला अशा ठिकाणी सापडण्याची शक्यता असते जिथे याआधी कोणीही पाहिले नसेल.

हे अल्बर्ट आइन्स्टाईन यांनी म्हटलेले वाक्य प्रत्येक त्या स्त्रीला लागू पडत जी आज यशाच्या शिखराच्या पोहचलेली आहे. आजची स्त्री ही आधीची स्त्री म्हणजेच स्वातंत्र्य पूर्वीच्या काळातील स्त्रियांपेक्षा जास्त कर्तृत्ववान, संवेनशील व बुद्धीमान झाली आहे. आजच्या जगात स्त्रिया प्रत्येक क्षेत्रात पुरुषांच्या खांद्याला खांदा लावून काम करत आहे. समाजाच्या विकासात आपले योगदान देत आहे.

स्वतंत्रपूर्व काळात राणी लक्ष्मीबाई, सावित्रीबाई फुले, कस्तुरबा गांधी यांसारख्या अनेक स्त्रियांनी स्वतंत्र चळवळीत सहभागी होऊन देशाला स्वातंत्र्य मिळून देण्यात योगदान दिले. अखेर तो सोन्याचा दिवस उजाडला आणि १५ ऑगस्ट १९४७ रोजी भारताला स्वातंत्र्य मिळाले त्याचप्रमाणे स्त्रियांना अनेक अधिकार प्राप्त झाले.

आता स्त्रियांचे कर्तृत्वक्षेत्र फक्त स्वयंपाकघरापुरते मर्यादित राहिले नसून तिने नवीन जगात पदार्पण केले आहे. अशा जगात ज्यात तिच्यावर कसलीच बंधने लादली गेली नाही. गेल्या ७५ वर्षांपासून स्त्रियांनी स्वतःच्या जीवनात आमूलाग्र बदल घडवून आणले. विविध क्षेत्रात मोठी कामगिरी बजावली आहे.

स्वातंत्र्यानंतरच्या या विकासात खूप मोठ्या प्रमाणात स्त्रियांचा समावेश आहे. त्याचे उत्तम उदाहरण म्हणजे अवनी चतुर्वेदी. ह्या भारताच्या पहिल्या महिला लढाऊ विमानाच्या वैमानिक आहे. पहिल्या अशा महिला ज्यांनी 'MiG-21 Bison' या लढाऊ विमानाने उड्डाण भरली. अगदी कमी वयात त्यांनी हे यश संपादन केले.

आजची स्त्री शिक्षणाच्या क्षेत्रात पण आघाडीवर आहे. त्या मोठमोठ्या विद्यालयामध्ये उच्च शिक्षण घेत आहे. पूर्वीच्या काळात स्त्रियांवर अनेक बंधने होती. ती शाळेत जाऊन शिक्षण घेऊ शकत नव्हती, परंतु आज अनेक स्त्रिया शिक्षण घेऊन मोठमोठे यश प्राप्त केले आहे.

स्त्रियांनी शिक्षणच नव्हे तर क्रीडा क्षेत्रात पण मोठे यश संपादन केले आहे. ज्या समाजात मुलींनी कसे उठावे, कसे बसावे, किती हसावे, किती हसू नये या बंधनांची शिकवण दिली जात असताना त्या काळात मोठ्या धाडसाने तिने क्रीडा जगतात देशासाठी सुवर्ण, कांस्य, रौप्य पदक मिळवून भारताची मान जगात रोशन केली. नीलिमा घोष ह्या भारताच्या पहिल्या महिला खेळाडू ज्यांनी १९५२ च्या ऑलिंपिक मध्ये मोठी कामगिरी केली. करणाम मलेश्वरी ह्या भारताच्या पहिल्या महिला खेळाडू ठरल्या ज्यांनी ऑलिंपिक मध्ये भारताला प्रथमच सुवर्ण पदक मिळवून दिले. त्यांनी २९ आंतरराष्ट्रीय पदके भारताला मिळवून दिली, त्यात ११ सुवर्ण पदके होती. हेच नव्हे तर सानिया मिर्झा, मेरी कॉम, सानिया नेहवाल, पी.वी. सिंधू, साक्षी मलिक यांसारख्या अनेक महिलांनी राष्ट्रीय, आंतरराष्ट्रीय पदके मिळवून क्रीडा जगतात भारताचा इतिहास लिहिला.

सावरपाडा सारख्या दुर्गम भागाचे नाव संपूर्ण जगात रोशन करणारी ती पण एक स्त्री होती. कविता राऊत हिने राष्ट्र कुल आणि आशियाई क्रीडा स्पर्धातून आंतरराष्ट्रीय जगतात स्वतःचा ठसा उमटविला. या स्पर्धामध्ये भारताचे नाव उंचावले. कविता राऊत हिने 'सावरपाडा एक्स्प्रेस' या नावाने ओळख मिळवली. स्वतःचा एक आदर्श सर्वासमोर मांडला.

अशी अनेक क्षेत्र आहेत जिथे महिलांनी मोठ्या शर्थीने यश संपादन करून समाजात एक आदर्श निर्माण केले आहे. आपली एक नवीन ओळख निर्माण केली. स्त्रियांकडे बघण्याचा दृष्टीकोन बदलला. ह्या अशा प्रत्येक महिलेला व तिच्या कामगिरीला कोटी कोटी प्रणाम !!!

हसून प्रत्येक वेदना विसरणारी,  
जगतात स्वतःचं नाव उंचावणारी.  
प्रत्येक समाजकंटक सहन करणारी,  
कधीही न थांबणारी, उंच झेप घेणारी.  
प्रत्येक दिशा, प्रत्येक वाट प्रकाशमान करणारी,  
स्वतःच्या हिमतीवर उभारी घेणारी,  
ती एक शक्ती आहे ती एक नारी आहे,  
ती एक नारी आहे.

**Ms. Shruti Kanhurkar**

FYBSc (CBZ)

First Prize in Essay Writing Competition

Organized by College Magazine and Wallpaper Committee

## **Success of Women In India After 75 Years of Independence In Science And Technology**

Even after 75 years of independence and celebrating Amrit Mahotsav, our beloved country is facing problems evident in the Vedic period. The discrimination among genders and degradation of the status of women started during the later Vedic period. Discrimination is evident in every field from the house to the workplace. The women labor force participation is 25.1 percent which is much below than world average of 46 percent.

One of the fields where discussion about discrimination is quite strong is science and technology. A conference was held in Israel in November 2021 on the topic of india – Israel women in science, technology, engineering, and mathematics (STEM). It was discussed to provide gender-neutral compensation and flexible work hours to increase womens's participation.

### *Condition of Women in Science, Technology, Engineering, and Mathematics (STEM):*

Women's underrepresentation in science exists from recruitment to promotion, leadership, and awards. The data suggest that about 43 percent of the STEM graduates are in India. The major concern about this data is only 14 percent only continue their career in STEM. A survey in 2020 showed that only 89 out of 1,044 members of the Indian National Science Academy were women, amounting to 9 percent. Governing body of the Indian national science Academy had 7 women out of a total of 31 members. It was zero in 2015. Women are given smaller research

grants than males even though they represent 33.3 percent of total researchers, and the field of Artificial intelligence, only one in five professionals is a woman.

The achievement of males like Abdul kalam Azad, and C.V. Raman is very openly discussed but we very rarely talk about women's exceptions Kalpana Chawla and Sunita Williams.

**Some of those names are:**

- ◆ **Kadambini Ganguly** – She was the first female graduate of the British Empire and the first female physician in south Asia.
- ◆ **Anna Mani** – She was a physicist and meteorologist. Her contribution is in the field of ozone, solar radiation, and wind energy.
- ◆ **Dr. Indira Hinduja** – She was a gynecologist by profession and developed oocyte donation techniques for menopausal and ovarian failure patients. She was the first woman to deliver a test tube baby.
- ◆ **Dr. Aditi Pant** – She is an oceanographer and one of the first Indian women to visit Antarctica she was part of the third Indian expedition to Antarctica
- ◆ **Dr. Suman Sahai** – She is the founder of the Gene Campaign in India. She is the brain of the patent campaign for Azadirachta Indica (Neem) and Turmeric.

**Reason for Low Participation:**

**Stereotypes** – People still have a mindset that boys are better at science than girls.

**Economic concern**– Science is quite costlier than arts and commerce.

**Patriarchy** – A male-dominated work environment and gender bias hold women back.

fewer women-specific science institutes- women-specific colleges are only 11% in India and the majority of them offer arts and commerce.

**Lack of Role Models**– women's achievement is a very less discussed topic, rural people still believe moving out of home will spoil them and avoid discussing people who left home for higher studies.

Harassments– Workplace harassment is very common and it scares and keeps women out of work.

**Initiatives by Government for Increasing Participation:**

- 1) **Knowledge Involvement in Research Advancement through Nurturing (KIRAN) Scheme** – It was launched in 2014-15, this was an umbrella scheme under which all women-specific programs were introduced. One program under this was the Woman scientist scheme provided career opportunities to unemployed women scientists and those who had broken and were not able to begin work.
- 2) **Vigyan Jyoti scheme** – It was launched to address the underrepresentation of women in the field of science and technology. It began at the school level where students from classes 9 - 12 are encouraged to pursue a career in STEM. It provided exposure to rural girls and assisted them in planning careers in science.

- 3) Gender Advancement for Transforming Institutions (GATI) program– It was for developing and assessing a framework for gender equality in STEM.
- 4) Consolidation of University Research for Innovation And Excellence (CURIE) program – It was to improve R&D infrastructure and research facilities to create excellence in S&T in women's universities.

Science and technology is the field which is growing rapidly and becoming the reason for the development of other sectors. Under-representation of women is a loss of societal and economic development as well. Policies and strategies need to develop to enhance the representation. There is a need for behavioral changes which can be done by bringing them in front and giving responsibility.

**Ms. Muskan Bakshi**

FYBSc (PCM)

Second Prize in Essay Writing Competition

Organized by College Magazine and Wallpaper Committee

## **I Was My Own Stalker And I Didn't Know Anything About It, Or Did I?**

Book by: Sidney Sheldon

Courtesy: HarperCollins Publishers

Content

With the ominous title of "Tell me your dreams" a fictional book based on actual cases, no doubt brings eerie vibes to the readers with its psychology and suspense-based theme, Sidney Sheldon has written a book that a reader simply cannot put down.

The book starts with a women named Ashley who worked at a graphics company with a general average life, but recently she has been feeling like someone is watching over her at all times, despite her attempts to seek help, her efforts were unsuccessful, soon things take a turn for the worse, she comes home to a messed-up apartment where she lives alone! She suddenly finds herself waking up in different motels in different cities, days after going to sleep. One day, there is the dead body of a young man was found undraped near her apartment! Upon arrival, the police offer to help Ashley and provide security, but the police officer assigned to protect Ashley is soon found dead and unclothed as well! The suspicion falls on Ashley and the investigation begins, after some time it is revealed that Ashley is really the murderer of the two men and also was involved in a different murder in a nearby city. Ashley is crying her eyes out pleading that she is not guilty, but all the evidence line up to her being the criminal, before her court hearing a psychiatrist is called upon to evaluate her after the reveal that Ashley was looking for mental health support, the psychiatrist analyses and realizes that Ashley suffers from MPD - multiple personality disorder! She has two different personalities inside her name: Toni- a young

violent girl who murdered the 3 young men and Alette- a calm woman who stopped Toni from doing more extreme things. In the following court trial, Ashley is not charged with any crimes but is sent to a mental health rehabilitation facility to be cured, the doctors start the therapy with an understanding of the different people in Ashley, Toni was born because her father use to sexually abuse her and when those men approached her for intimate behaviour she went out of control and murdered them. Meanwhile, Alette was a calm painter who was born when Ashley felt alone and lonely after her mother's death. The therapy went on for a few years, during which there were a few instances of Ashley harming herself and Toni having an outburst, but soon Toni and Alette both agreed to leave Ashley, after which she was allowed to start a new life, cured and happier than ever!

### **My personal opinion**

One of the strengths of the book is how Sheldon portrays the different personalities within Ashley as distinct and complex individuals, with their own thoughts, feelings, and desires. Also, writer has precisely ordered the events of Ashley's life so that the suspense builds up step by step making the reader think that there is actually an overarching character responsible for troubling Ashley, even the end is not a sudden patchy wrap-up, rather all reasons for her actions are explained one by one. The writer effectively describes the different environments in which Ashley finds herself, making the reader feel as if they are alongside the protagonist.

### **Critique**

Though the book distinctly being from the trope of psychological fiction, some of the factors like the violent behaviour of the alternate characters are exaggerated to create a more complex plot, which may not accurately reflect the experiences of people with MPD and may and may contribute to forming harmful stereotypes about people with MPD.

### **Conclusion**

Overall, "Tell Me Your Dreams" is a gripping and thought-provoking thriller that is sure to keep readers engaged from start to finish. The combination of intense psychological drama and forensic science make it well-rounded and compelling to read. If you enjoy suspenseful novels with complex characters and unpredictable plots, this book is definitely worth checking out.

**Mr. Shravan Bhosle**

FYBSc (Human Science)

First Prize in Documentary Film/Book Review Writing Competition

Organized by College Magazine and Wallpaper Committee

## Tiny Changes, Remarkable Results

'Every action you take is a vote for the type of person you wish to become!'

If these lines excite you, then you should definitely read one of the greatest non fiction, life-changing book 'Atomic Habits' written by 'James Clear.' It is one of the million copy bestseller books.

This book offers a proven framework for improving everyday. It provides easy ways to build good habits and break the bad ones to live a better life.

'Small Habits make a big difference!' The point of the "Atomic Habits" approach is to make minor changes in habits and repeat them consistently. If you can improve by 1% each day, you will be 37 times better after a year.

According to the writer 'habits are the compound interest of self-improvement', The same way that money multiplies through compound interest, the effects of your habits multiply as you repeat them. One should focus on the system and not on goals. Goals are the results that you want to achieve and systems are the processes that take you to the results.

This book teaches readers to focus on identity and not on goals. If you want to change your habits, focus on who you want to be rather than what you want to achieve. One should always follow the four laws of behavior change : make it obvious, make it attractive, make it easy and make it satisfying.

### Critique

There was a very small part in the book that said 'simple is not always easy.' And I could relate with it completely but the writer did not explain in detail.

I felt personally that when it comes to habits, lifestyle also plays an important role. But the role of lifestyle is not mentioned in this book.

#### Personal opinion

According to me Changes that seem small and unimportant at first will compound into remarkable results if you are willing to stick to them for a longer period of time.

Atomic habit is a regular practice or routine that is not only small and easy to do but is also the source of incredible power. Bad habits repeat themselves again and again, not because you don't want to change, but because you have the wrong system for change.

Atomic habits are beneficial over time, so one must give their body and mind time to reap the benefits of a healthy lifestyle.

### Conclusion

This book has thought me tactics that are making me stick with small habits that will eventually compound creating the impact that I desire. Atomic habits break down the building blocks of behavior change to find smarter ways of reaching your goals.

Atomic Habits will reshape the way you think about process and success, and give you the tools and strategies you need to transform your habits - whether you are a team looking to win a championship, an organization hoping to redefine an industry, or simply an individual who wishes to lose weight, reduce stress or achieve any other goal.

**Ms. Sarita Gupte**

TYBSc (Computer Science)

Second Prize in Documentary Film/Book Review Writing Competition

Organized by College Magazine and Wallpaper Committee

**SLOGANS**

Avoid Plastic - Accept Nature

Wet garbage is our best compost

Plant tree for pollution free

सायकलचा वापर म्हणजे पर्यावरणाचा आदर

सायकलचा स्वीकार म्हणजे पर्यावरणाचा विचार!!

झाडे वाढवा प्रगती वाढवा

पर्यावरणाचा करा विचार लावा किमान झाडे चार

**Mr. Raj Dhumale**

SYBSc Computer Science

First Prize in Slogan Competition organized by TMC

येणाऱ्या पिढीच्या उत्तम जीवनासाठी करू आपण संरक्षण

सायकल चालवून करू आपण पर्यावरणाचे रक्षण

**Mr. Amol Choughule**

SYJC

Second Prize in Slogan Competition  
organized by TMC

## Spread Awareness, Stop Resistance

What if there was a world where medicines didn't work? It sounds like the plot of a dystopian novel but it is the chilling reality of the world that we exist in now. Antimicrobial drug resistance (AMR) emanates when viruses, bacteria, fungi, and parasites no longer respond to medicines and modify over time.

Daphne Deckers, a Dutch author, and celebrity felt sick one day in 2014, her official diagnosis was a bladder infection, and with this came the prescribed antibiotics. When her symptoms failed to improve, she was hospitalized. She learned that she had a multidrug resistant E. Coli infection. This infection can usually be treated with eight antibiotics. In her case, seven of those didn't work. The eighth antibiotic saved her life.

Reading about the personal struggles of people who've gone through this unnerving ordeal makes us realize how dangerous AMR is. The World Health Organisation has reported that AMR is one of the top ten global public health threats facing humankind.

Doctors and epidemiologists all around the globe have been calling out for cognizance. Lack of hygiene and clean water, overprescription, unfinished treatments, and inadequate infection prevention and control promotes the spread of microbes, some of which are resistant to antimicrobial treatment. The cost of AMR to the economy is consequential. In addition to disability and death, extended illnesses result in prolonged hospital stays meaning more expenses for the financially challenged.

The WHO has many committees and plans to tackle this crisis including Global Action Plan on Antimicrobial Resistance, Tripartite Joint Secretariat on Antimicrobial Resistance, World Antimicrobial Awareness Week and numerous more.

Erasmus once remarked "Prevention is better than cure" we can prevent AMR by limiting infection by following hygiene practices, and getting vaccinated. But beyond that, I think we can take measures by spreading awareness and starting a dialogue. In my opinion, the preeminent step towards change is awareness. Awareness is comparable to the sun, when it shines, we are brought out of the dark, it is a colossal agent for change. This is a public health dilemma. We ought to spread awareness and stop resistance

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Quotes by Erasmus ("Prevention is better than cure"), Eckhart Tolle, Thich Nhat Hanh

**Ketaki Nirbhavane**

SYBSc Biotechnology

First Prize in Article Writing Competition

Organized by Amity Institute of Biotechnology and Microbiologists Society of India



Book-Mark Competition organized by Department of Library



Ganapati Idol making by DLLE Students



Kandil making by DLLE Students



Handmade Refracting Telescopes made by Physics students under Certificate Course of on Astronomy & Astrophysics



Demonstration of Biological Instruments to Polytechnic students by Department of Zoology



Excursion at Arnala by Department of Zoology



Textile Industry Visit at Div-Daman by Department of Chemistry



Celebration of 'Yuva Utsav' with Nehru Yuva Kendra, Thane



Convocation Ceremony graced by presence of Mr. Bendre (Treasurer, VPM) & Dr. Agarkar (Dean, VPM's Academy of International Education & Research)



Chief Guest Dr. Bedekar  
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Ms. Ragini Bhosale received Cash Prize (Rs. 7000/-) in  
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Workshop on Pollution free Diwali -  
Dr. Surendra Dighe (Jidnyasa Trust)



Appreciation by Vice Chancellor Prof. Dr. Shirke (University of Mumbai)  
for organizing Youth Festival 2022



Presentation on Autonomy at State Government  
arranged event in University of Mumbai



Quick Heal Foundation awarded Trophy to IT-CS Department for  
conducting Cyber Security Awareness Campaign in the Rural School



College hosted UDAAN Fest on behalf of University of Mumbai



Consolation Prize Winners of Street Play Competition, UDAAN Fest



Annual Prize Distribution Ceremony - Chief Guest Dr. Vijay Bedekar