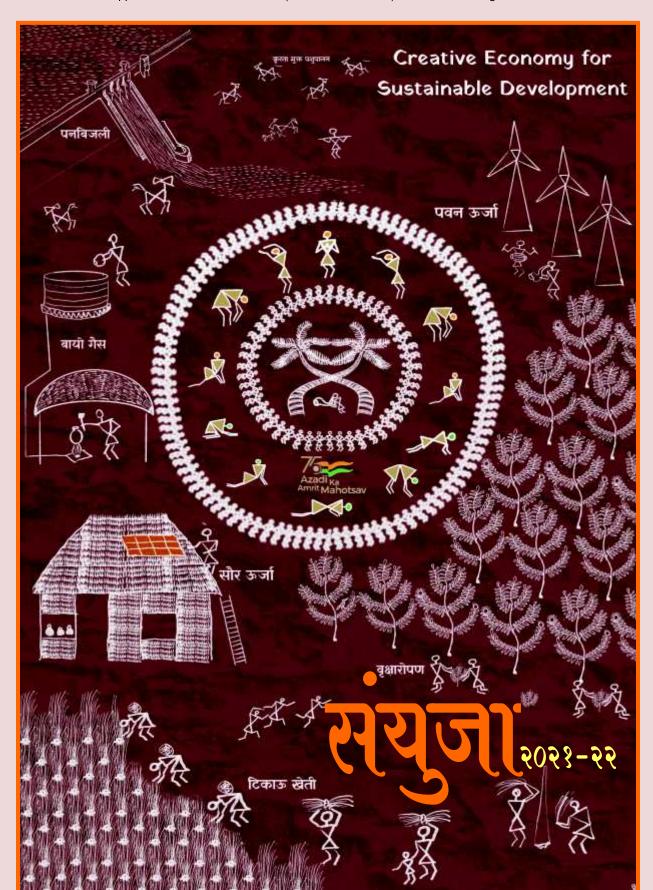
### Vidya Prasarak Mandal's



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

NAAC Re-accredited 'A' Grade, College with Potential for Excellence (CPE),
Best College Award, ISO 9001: 2015 Certified, 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.





International Webinar Series on 'The Art of Writing Reserch Papers'



National Coference on 'Microbiome : The Story Untold!'



Mrs. Sadhana Joshi & Dr. Sumedha Bedekar Conducted Event on Nationalism & Love for the Nation



Celebration Of Marathi Bhasha Diwas & National Science Day with Mrs. Meghana Sane (Marathi Drama Artist & Author)



Gracious Presence of Famous Actors Mr. Bhau Kadam & Mr. Kushal Badrike along with BNB Aluminus Mr. Viju Mane (Director & Writer of Marathi Film Industry)



Celebration of 'Azadi Ka Amrit Mahostav' by performing Surya Namaskar



Voter ID Awareness Program conducted by NSS and NCC Group



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

NAAC Re-accredited 'A' Grade, College with Potential for Excellence (CPE),
Best College Award, ISO 9001: 2015 Certified, 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.

# **SANYUJA 2021-22**

### **MAGAZINE & WALLPAPER COMMITTEE**

#### **Dr. Moses Kolet**

(Principal and Chairperson)

#### Dr. Urmila Kumavat

(Co-ordinator, Magazine and Wallpaper Committee)

### **Magazine and Wallpaper Committee**

#### **Staff Members**

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

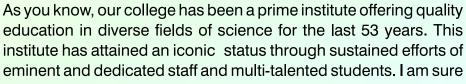
#### Student Volunteers

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(Joint Secretary)		
Mr. Aashvin Kumar Das	Mr. Omkar Mundhe	Ms. Shruti Machha
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	(Joint Secretary) Mr. Aashvin Kumar Das Ms. Harshada Suryawanshi	(Joint Secretary) Mr. Aashvin Kumar Das Mr. Omkar Mundhe Ms. Harshada Suryawanshi Mr. Parth Avhad

<u>Disclaimer</u>: 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.

# Principal's Desk

I congratulate the 'Sanyuja team' on accomplishing the extensive task of collating information and exhibiting hidden talent of our staff and students in 'Sanyuja 2021-2022'. In true sense, this published issue of the annual magazine is portraying valuable contributions of the entire college. It is not only unlocking artistic expressions of students in form of articles but also highlighting achievements of the college through departmental and committee reports. In spite of the challenges posed by the pandemic, making most of the resources inaccessible, we have continued in our path of success.





the first section of 'Sanyuja' titled 'Recap 2021-22' would definitely draw your attention for a substantial period of time as it presents 'Annual Report of College 2021-22'. It summarises the participation of students of our college in the curricular, co-curricular and extra-curricular activities. I admire the unconditional efforts of teachers and enthusiastic students who bring glory to the college.

There are miles to go further and overcome setbacks through positive outlook and sustained progress. After receiving academic autonomy in the middle of AY 2020-21, under the visionary management of Vidya Prasarak Mandal, Thane, our institute is progressively reframing policies for holistic development of students. The institute has upgraded the syllabi of F.Y.B.Sc. with novel contents on 'History of Science' and 'Contributions of pioneer scientists'. These syllabi were implemented successfully in A.Y. 2021-2022. New certificate courses were also designed and approved through respective BOS (Board of Studies) and Academic Council. Currently 28 short term credit based certificate courses are available in the college for holistic overall development of learners and more such courses are in the pipeline. All these new syllabi and value added courses would be definitely helpful for developing essential skills for grabbing a job and for nurturing entrepreneurship among students. It is my appeal to all students to derive the best possible benefit through these novel disciplines.

I take this opportunity to thank Dr. Vijay Bedekar, Chairman, Vidya Prasarak Mandal, Thane and his team for their constant encouragement and support for all activities of the college. My thanks are also due to dedicated staff, students and their parents for all these stellar achievements and wish you all the best.

### **Editorial**

Dear Readers,

It's my privilege to serve as catalyst in publishing the annual issue of our college magazine, 'Sanyuja 2021-2022' which presents a diverse array of creative work by college staff and students. Undoubtedly, working with the entire committee under the dynamic leadership of Principal Dr. Moses Kolet (Chairperson, College Magazine & Wallpaper Committee) was a joyful experience.

This year Sanyuja has introduced two novel sections, viz., 'Promising Career' & 'Kaleidoscope'. Promising Career involves articles written by teachers covering avenues in higher education and career in respective subjects. It caters the intellectual needs of students who wish to achieve academic success and opt for better



career opportunities. Kaleidoscope exhibits a conglomeration of enthusiastic write ups based on a various themes. For the current year, themes were 'Inspirational Tales', 'Fitness Guru', 'Tourist Point', 'Technocrats', 'Hobby to business' and 'Nonstop entertainment'. It received an appreciable response from budding writers. The innovative ideas put forth through these themes will surely churn the minds of the readers taking them to the surreal world of exuberance. Equally interesting is the 'Chit-chat with BNB Alumni' in which interaction with our alumni revealed some of their quite interesting success stories. Additionally, the section of 'Winner of the race' involves contributions from winning students that would inform the readers about their co-curricular success at various intercollegiate competitions.

Apart from literary art, Sanyuja 2021-2022 has also presented an excellent platform for student's drawing skills. The cover-page of this year's magazine is based on theme of 'Creative Economy for Sustainable Development' and last page is a collage on the theme of 'My College'. Apart from these, creative compositions of many students have colourfully filled all title pages of the college magazine. I believe the overall content of this issue would be sufficient to hold the interest and admiration of the readers.

Dr. Urmila Kumavat

Editor

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# **Magazine & Wallpaper Committee**



**Standing:** Top Row - Mr.Omkar Mundhe, Ms. Sheha Tiwari, Mr. Aashvin Kay Das, Middle Row - Ms. Chaitanya Dhadve, Mr. Shreyas Phansekar (Joint Secretary), Mr. Atul Singh (Secretary), Ms. Muktai Chavan, Ms. Shruti Machha, Bottom Row - Ms. Saba Pangarkar, Ms. Priyanka Chavan

Sitting: Ms. Saloni Sheth, Dr. Jayashree Pawar, Mrs. Uma Patne, Dr. Urmila Kumavat (Coordinator) Principal Dr. Moses Kolet (Chairperson), Mrs. Minal Wankhede, Lt. Bipin Dhumale, Dr. Abhay Hule, Ms. Sayali Dapatardar, Dr. Ashwini Tilak

# Principal's Report for the Academic Year 2021-2022

I am happy to present the annual report for the academic year 2021-2022. As you all are aware, this academic year has largely been executed under lockdown restrictions; the college which was closed for physical teaching since Mid-March 2020 had largely remained in this condition, following lockdown measures implemented from time to time to curb spread of the pandemic; and had implemented online mode of delivery of learning material as well as online conduct of examinations. The college has opened for offline teaching since February 2022. I am very happy to state the college has made noteworthy progress in spite of the continued constraints. The achievements, signify indomitable spirit and strong resilience. The last prize distribution ceremony was held online on 17th May 2021 and this report is a continuation of achievements since then.

#### Special Awards and Recognitions received during the year:

**Thirty four** special Awards and Recognitions including Two Thane *Gaurav Puraskars* were received by the college and its staff and students during this academic year as mentioned below:

No.	Award/ Honour	Conferred upon	Conferring/ Inviting Agency
1	Certificate of Appreciation	College	National AIDS Control Org., & Govt. of Mah.
2	Memento of Appreciation	NSS Unit of College	University of Mumbai
3	Appreciation Memento	College	VPM's Joshi Bedekar College
4	Certificate of Appreciation	College	District Health Authority
5	Memento of Appreciation	College	ICAI, Western Region Office
6	Memento of Appreciation	College	Navi Mumbai Students and Youth Foundation
7	Memento of Appreciation	College	Thane Municipal Corporation
8	Memento of Appreciation	College	Thane City TB Control Cell, TMC
9	Letter of Appreciation	College	Nehru Yuva Kendra, Thane District
10	Transformational Leader Award	Principal Dr. Moses Kolet	Valia Centre for Excellence & The Hindu
11	JMF Seva Sanskar Puraskar for work during Pandemic	Principal Dr. Moses Kolet	JMF Foundation & Vande Mataram College
12	National Level Thakur Award for Excellent Principal	Principal Dr. Moses Kolet	Thakur College, TCSC, TRCAC, TRCL, TRPS
13	Thane Gaurav Puraskar	Mr. Anil Athavale	Thane Municipal Corporation
14	Thane Gaurav Puraskar	Dr. Anita Goswami-Giri	Thane Municipal Corporation
15	Outstanding Scientist Award	Dr. Rohini Mandhare	VD Good Technology Factory

16	Envirocare Suresh R. Amrutkar Gold Medal	Ms. Muskan A. Khan	University of Mumbai
17	All India Winners of Debate	Ms. Sameedha Shetye	Confederation of Indian Industry CII
18	All India Winners of Debate	Mr. Siddhanth Pradhan	Confederation of Indian Industry CII
19	Overall Championship in Inter College NCC Competitions	Team of 20 Students	College, 1 Mah BN NCC
20	2 Silver medals in Kick Boxing	Ms. Sakshi Lokhande	Govt of Maharashtra
21	Third Position On the Spot Painting	Ms. Isha Pisal	University of Mumbai, Youth Festival
22	Third Position Western Solo Song	Ms. Kaveri Shinde	University of Mumbai, Youth Festival
23	First Position- Short Film Making	DLLE Team	University of Mumbai Udaan Festival
24	Bronze Medal	Mr. Pranav Gohil Astrophysics Conv.	International Astronomy and
25	Recognition as Guide for M.Sc. by Research	Dr. Sandeep Kahandal	University of Mumbai
26	Recognition as Guide for M.Sc. by Research	Dr. Pralhad Wagh	University of Mumbai
27	Recognition as Guide for M.Sc. by Research	Dr. Ajit Bhumkar	University of Mumbai
28	Recognition as Teacher for M.Sc. by Papers	Dr. Pralhad Wagh	University of Mumbai
29	Recognition as Teacher for M.Sc. by Papers	Dr. Ajit Bhumkar	University of Mumbai
31	Chief Minister's Scholarship	Mr.Jafreen T. Shaikh	DDG NCC
32	Selected for International Hackathon, UAE	Mr. Rishabh Singh	Quantum Computing Hackathon, Abu Dhabi
33	Nomination on Governing Council of Somaiya College	Principal Dr. Moses Kolet	University of Mumbai
34	Nomination on BOS of Ruia College	Principal Dr. Moses Kolet	University of Mumbai

### Patents published/ granted to members of staff: Eight patents were published/ granted/ filed as follows:

No.	Name	Patent details
1	Dr. Vinda Manjramkar	Australian patent (Jt) 08/6/21
2	Dr. Vinda Manjramkar	Australian patent (Jt) 15/7/21
3	Dr. Vinda Manjramkar	Australian patent (Jt) 23/8/21

4	Dr. Vinda Manjramkar	Australian patent (Jt) 24/8/21
5	Dr. S.D. Rathod	Indian patent (Jt) 9/9/2021
6	Dr. Anita Goswami-Giri	Indian patent filed (Jt) 10/1/2022
7	Dr. Anita Goswami-Giri	Indian patent filed (Jt) 10/1/2022
8	Dr. Vinda Manjramkar	Indian patent filed (Jt) 5/2/2022

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

**Seven** members of our staff achieved landmarks as mentioned below:

No.	Name	Department	Achievement
1	Dr. Sangita Meshram	Physics	Awarded Ph.D Degree of SRTM University, Nanded
2	Dr. Akanksha Shinde	Mathematics	Awarded Ph.D Degree of SRTM University, Nanded
3	Shri. Anil Athavale	Hindi	Completed course on 'School Management' from YCMOU
4	Ms. Komal Gaikwad	Biodiversity	Completed Global Career Counseling Course from University of California Los Angeles
5	Mr. Shankar Sawant	Non-Teaching	Passed LLB Examination of University of Mumbai
6	Ms. Swanandi Rasam	Non-Teaching	Passed M.Lib Sc Examination of YCMOU
7	Ms. Darshana Chavan	Mathematics (Jr Coll.)	Medal in Thane Half Marathon

#### **Special Invitations received by Members of Staff:**

No	Name	Invited by	Invitation as/ for
1	Prin. Dr. Moses Kolet	Somaiya College (Autonomous)	VC Nominee on Governing Body
2	Prin. Dr. Moses Kolet	R. Ruia College (Autonomous)	University Expert on BOS
3	Prin. Dr. Moses Kolet	Jt Dir HE, Kokan Region and Pillai College	Incubation Cell
4	Prin. Dr. Moses Kolet	Sharad Pawar Inspire Fellowships	Inspire Fellowships, Scientific Presentations
5	Prin. Dr. Moses Kolet	Sonopant Dandekar College, Palghar, Dist. Palghar	Member, Advisory Committee of National Conference on Environment and Biodiversity; Chairman, Tech. Session,
6	Prin. Dr. Moses Kolet	National Centre for Science Communicators	Member of Organizing Committee of National Conference on Role of Science Communicators in Enhancing Public Engagement with Science and Technology

7	Prin. Dr. Moses Kolet	National Centre for Science Communicators	Host for the First day of National Conference
8	Prin. Dr. Moses Kolet	Vidya Prasarak Mandal, Thane	Report Presentation on 86 <sup>th</sup> Foundation Day of VPM, Thane
9	Dr. Vinda Manjramkar	UGC HRDC University of Mumbai	Resource person for Orientation Course
10	Dr. Vinda Manjramkar	S. Chougule College, Kolhapur	Resource Person for National FDP
11	Dr. Vinda Manjramkar	CKT College, New Panvel	Guest Speaker
12	Dr. Vinda Manjramkar	Sharad Pawar Inspire Fellowships	Inspire Fellowships, Scientific Presentations
13	Dr. Vinda Manjramkar	CKT College, New Panvel	Expert member on BOS
14	Lt. Bipin Dhumale	NCC Directorate, Maharashtra	High Level Experts Committee Meet
15	Lt. Bipin Dhumale	NCC Directorate, Maharashtra	50 Years of 1971 War: <i>Vijay</i> <i>Shrinkhala</i>
16	Lt. Bipin Dhumale	VPM;s TMC Law College	Guest Faculty-Marathi <i>Bhasha</i> Pandhrawada
17	Dr. Kiran Pariya	Jt Dir HE, Kokan Region and Pillai College	Incubation Cell
18	Ms. Kadambari Manjrekar	CHM College	Resource Person for Library Science
19	Ms. Kadambari Manjrekar	Somaiya Vidyavihar	Member, Organizing committee, International Conference

### Noteworthy Achievements by students: Twenty five students exhibited extraordinary merit as depicted:

No.	Name	Department	Achievement
1	Ms. Muskan A. Khan	EvS	Winner of Envirocare Suresh R. Amrutkar Gold Medal of University of Mumbai for FIRST Rank in MSc (EvS)
2	Ms. Shambhavi Joshi Ms. Anushree Keni	Microbiology	Second Prize in Avishkar University Final Round
4	Shri. Pranav Gohil	SYBSc PM	Won Bronze Medal in International Astronomy and Astrophysics Convention 2021, Figured in top 7% of candidates at International Level; Won A+ Grade in International Space Science Course V.I; Research with Planet Hunters; Appointed as Brand Ambassador of Indian Astrobiology Research Foundation (IARF)
5	Ms. Nandini Tyagi	SYJC	Attended Summer Camp at IIT Bombay; Won Quiz Event at IIT Bombay; Won Best Presenter Award for video on Animal Cloning

6	Ms. Sakshi Lokhande	SYJC	Silver Medal in Kick Boxing at Mumbai Zonal Level Silver Medal in DSO Kick Boxing Tournament
7	Ms. Isha Pisal	SY Micro	THIRD Prize in On the Spot Painting Competition in <b>Youth Festival, Univ. of Mumbai</b>
8	Ms. Kaveri Shinde	TY Biotech	THIRD Prize in western Vocal Solo Competition: Youth Festival, Univ. of Mumbai
9	Cdt. Capt. Sujit Thanje	TYBSc Maths	Part of NCC Maharashtra contingent for Republic Day Parade 2022
10	Ms. Sameedha Shetye	TY Human Science	Winner of All India Debate Competition of CII
11	Mr. Siddhanth Pradhan	TY Human Science	Winner of All India Debate Competition of CII
12	Ms. Ashlesha Bhosale	FYBSc IT	Winner of Commendation Award from Aarine Foundation
13 14 15 16 17 18	Ms. Apurva Rathod Ms. Shruti Kundal Ms. Masifa Vasgare Ms. Ruba Surve Mr. Sohit Yadav Mr. Sitaram Pedini	FYBSc FYBSc FYBSc FYBSc FYBSc FYBSc IT	Winners of Short Film Making Competition in UDAAN Festival of University of Mumbai; FIRST POSITION
19	Mr. Nilesh Satpute	TYBSc	Cleared AFCAT Examination January 2022
20	Mr. Jafreen Tajuddin Shaikh	TYBSc Maths	Chief Minister's Scholarship through NCC
21	Mr. Mahadev Wakle	NCC Army (Boys)	Best Firer in Intercollegiate Firing Competition
22	Ms. Amruta Thombare	FYBSc PMS	Winner of competitions in 5 Intercollegiate events; State Level Wrestling champion
23	Ms. Manasi Gadag	SYBSc IT	National Level Women's Cricket
24	Mr. Prajwal Lokhande	FYJC	National Level Badminton
25	Mr. Rishabh Singh	TYBSc IT	Group Winners, International Hackathon, UAE

#### Service to the Nation during Lockdown and Floods:

Our NCC and NSS units collected **277 units of blood** and contributed their might in service to the nation during this academic year amidst lockdown as follows:

No.	Activity	Agency	Date/s	Venue	Work accomplished / Blood units collected
1	Vaccination Drive against COVID-19	Dr. Bedekar Hospital	26/6/21	Dr. V.N. Bedekar Institute of Management Studies	120 staff vaccinated 25 NCC & NSS volunteers gave their services
2	Blood Donation	NCC	9/7/21	Thane Railway Station	54 Blood Units collected
3	Collection Drive for Flood affected	NSS, NCC	26/7/21- 1/8/21	College Campus	Clothes, Utility Articles and Dry Food Grains collected

### **SANYUJA 2021-22**)

4	Distribution of items of Flood Relief	NSS. NCC	2/8/2021	Kankavali	Items collected for Flood Relief were distributed
5	Blood Donation	NCC	14/8/2021	Konkan Bhavan	104 Blood units collected
6	Blood Donation	NCC, NSS	7/9/2021	College	53 Blood Units collected
7	Blood Donation	NCC, NSS	5/3/2022	College	66 Blood Units collected
Tota	al Nos. of units of blo	od collected	for Governm	ent Blood Banks	277 Blood Units
8	'Puneet Sagar Abhiyaan' Beach Cleanliness Drive	NCC	22, 23 & 30/12/2021	Mumbai	Plastic Wastes from sea shores and handed over to NHAI for use in road construction
9	Mega E-waste collection drive	NCC, NSS	27/1/22 to 26/2/22	College	536 KG E-waste collected and handed over for recycling
10	Earth Day 'Puneet Sagar Abhiyaan' Beach Cleanliness Drive	NCC	April 2022	Mumbai	Plastic Wastes collected from sea shores and handed over for recycling
11	Street Play Team for 'Vasundhara Divas' Beach Cleanliness Drive	NCC	April 2022	Mumbai	Awareness on hazards of plastic wastes
12	Help to visually challenged	NCC	2021-22	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 departments/ institutions/ foundations mentioned below:

- 1. Quick Heal Foundation, Pune
- 2. TERI, Mumbai
- 3. VPM's Dr. V.N. Bedekar Institute of Management Studies
- 4. Maharashtra College, Mumbai
- 5. Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai
- 6. Naushad Ali Sarovar Samvardhini
- 7. E incarnation Recycling Pvt. Ltd.
- 8. Maharashtra State Angling Association
- 9. Budokan Institute of Martial Arts

These collaborations provide 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 2020-21 are as follows:

The overall percentage of success in the last year's under-graduate F.Y. and S.Y.B.Sc. examinations was **79.75%** and **91.14%** respectively. In the T.Y.B.Sc. examination conducted by the college under autonomy, the overall percentage of passing was **98.05%**. **100%** results were achieved by the Departments of Botany, Physics, Biotechnology, Biochemistry, Human Science and Information Technology. At the Post-Graduate M.Sc. (Part II) level the overall result was **97.77%**. **100%** results were achieved by the Departments of Chemistry, 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 University Examinations conducted in First Half of 2021

Class	Pass Percentage 2021-22 (%)
FYJC	100
SYJC	100
F.Y.B.Sc.	79.75
S.Y.B.Sc.	91.14
T.Y.B.Sc.	98.05
M.Sc. (Part I)	98.28
M.Sc. (Part II)	97.77

#### 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	100	7	Biotechnology	100	1	Chemistry	100
2	Chemistry	99.16	8	Biochemistry	100	2	Environmental Science	100
3	Mathematics	92.31	9	Computer Science	98.08	3	Information Technology	88.88
4	Physics	100	10	Human Science	100	4	Physics	100
5	Statistics	98.44	11	Information Technology	100	5	Biodiversity Conservation	100
6	Zoology	91.38	12	Microbiology	96.30		and Wildlife Mgmt.	
0	verall Result			T.Y. B.Sc. 98.05	,	M.Sc (Part II) 97.77		

### **SANYUJA 2021-22**)

I am happy to announce the award of **Envirocare Suresh R. Amrutkar Gold Medal of University of Mumbai** to our student **Ms. Khan Muskan Abdul Hamid** for securing First Rank in EvS at MSc Level.

Our college served as examination centre for examinations conducted by UPSC, CDS, MPSC, Department of Posts, Education Department (TET) and Institute of Chartered Accountants of India. 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	6500027/-
2	Jt. Director of H.E. Office	123200/-
3	Others	36000/-
	TOTAL	6659227/-
4	Book Bank Grant from University of Mumbai	99250/-

#### **New Trends Established:**

'Friends of Library' Club 'Vidya Mandalik' was established under mentorship of Mrs. Kadambari Manjrekar and started its activities with events titled 'Lekhak Tumchys Bhetila'- interactions with authors.

Innovation Corner was established in the college and inaugurated on 15<sup>th</sup> August 2021 Independence Day at the hands of Dr. Hemachandra C. Pradhan; under mentorship of Dr. Sudhakar Agarkar and blessings of Dr. Vijay Bedekar and VPM team. The club has been conducting its signature activity 'Know the Innovators' on the fourth Thursday of every month.

CUBE Collaborative Under-Graduate Biology Education, a TIFR national initiative activities were initiated in the college.

For the first time our students got a chance to receive professional coaching in athletics and other sports through newly formed VPM Sports Academy, the brainchild of Dr. Mahesh Bedekar, who, we are proud to say, is our alumnus. Our team prepared the E-flyer and Video for the inaugural session and our NCC cadets gave Guard of Honour to the Chief Guest. Our staff and students actively participated in the organization and conduct of VPM Sports Academy Inter Collegiate Sports Meet from 29/4/2022 to 1/5/2022.

Learners registered for free mentoring by State government approved MentorTogether Mentoring Organization.

161 students successfully completed Cyber Suraksha Course sponsored by Quick Heal Foundation.

71 students successfully completed the TEL (Teach Earn and Learn) Course of Institute of Chartered Accountants of India.

19 Non Teaching staff successfully completed 8 weeks voluntary training in Yoga organized in collaboration with Shri Ambika Yoga Kutir and were awarded certification from Ministry of AYUSH.

456 students completed course on Management for Beginners.

Google office based online helpline for all students was launched by Department of IT and

### **SANYUJA 2021-22**)

CS in addition to whatsapp and online based student help lines during the second phase of lockdown.

The first Convocation (Degree Distribution) Ceremony after award of autonomy was held on 30/3/2022

Combined Defence Services (CDS) was held for the first time in our college by UPSC.

Dr. Moses Kolet was appointed as Principal and Dr. (Mrs) M. Saha and Shri Abhijeet Kale were appointed as Vice Principals.

**Progress under Autonomy:** Our College has constituted all mandatory statutory bodies under autonomy since award of autonomy in mid-AY 2020-21 and commenced functioning as an autonomous institute.

Our College implemented its own syllabi under autonomy starting with FYBSc classes from this academic year 2021-2022.

The college introduced the 60:40 (External: Internal evaluation) pattern of evaluation starting from FYBSc classes during this academic year.

Our College has conducted its own examinations for all classes under autonomy. Examination compendium of the college was introduced for implementation. Degree Certificates under autonomy were awarded by the University of Mumbai and were distributed to students in the First convocation ceremony under autonomy, on 30/3/2022.

Two new Post-Graduate programs, namely, M.Sc. program in Data Science and M.Sc. program in Clinical Psychology are slated to begin from the coming academic year 2022-23.

Eleven existing certificate courses were upgraded under autonomy and 17 new credit based Certificate courses were added during this year, thus making 28 credit based certificate courses available to students for their holistic and all round development. In addition 2 courses were added and conducted for students with the help of Quick Heal Foundation and Institute of Chartered Accountants of India respectively. Four new certificate courses in Mathematics and Botany are also awaiting sanction and launch during the coming academic year. The option of elective courses has been provided along with core courses. Certificate courses for earning credits are also provided in every department for benefit of students.

#### Short Term Credit Based Certificate Courses available for learners

No	Certificate Course	Department	Hours	Credits
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 &		45	3
4	Techniques in Molecular Biology (Level-II)	Microbiology	45	3
5	Food Adulteration and Quality Management	Biochemistry	45	3
6	Research Scholar Programme	Botany	160	10
7	Fruit Preserves and Beverages: A Skill Development Course	Botany	60	4
8	Mocktails from Nature's Basket	Botany	30	2

9	Basic Excel	Botany	30	2
10	Instrumentation & Preparation of Standard Solutions	Chemistry	45	3
11	Solid Waste Management	Ev.S	30	2
12	The Central Public Administrative System	FC	30	2
13	Certificate Course in Creative Writing	ID	30	2
14	Economics for Beginners: The Basics	ID	32	2
15	Introduction to Principles of Marketing	ID	60	4
16	Awareness on Banking, Insurance and Cyber Frauds	ID, Alumni	30	2
17	Basic English Course	ID	30	2
18	Python Level I	IT & CS	45	3
19	Big Data Analysis	IT & CS	30	2
20	Next Generation Databases	IT & CS	30	2
21	Artificial Intelligence	IT & CS	30	2
22	Virtualization	IT & CS	30	2
23	Machine Learning	IT & CS	30	2
24	Certificate Course in Computer Skills	IT & CS	60	4
25	Basics of C++	Physics	45	3
26	Introduction to Astronomy and Astrophysics	Physics	45	3
27	Basics of R Software	Statistics	45	3
28	SPSS Basic Level I	Statistics	30	2

#### Online and Offline Activities Conducted:

Apart from online/ offline/hybrid lecture and practical sessions we have successfully conducted **288** online, offline and events in hybrid mode, namely, **128** webinars, offline/ online/hybrid events, conferences and seminars, **7** Dr. V.N. Bedekar Memorial Lectures, **11** local prize distributions and publications events, **33** courses and workshops, **One** International Research Webinar, **One** National Conference, **2** pre conference workshops, **10** inter-college events including One National Competition, One State Level Competition, One State Level Event, One Offline Regional Intercollegiate Competition and **95** festivals, competitions and other popular events for students; adding up to **288 events** as mentioned:

#### Dr. V.N. Bedekar Memorial Lectures:

**Seven lectures** in this series were conducted as mentioned below:

No.	Topic and Date	Invited Speaker	Conducted by (Dept)
1	IPR & Patents 29/7/21	Mr. Pervez Kudrolli; Ms. Khurana & Khurana, Advocates & Attorneys	Biotechnology & Microbiology
2	Tracks and Signs in Wildlife Studies, 28/8/21	Mr. Samrat Godambe Alumnus	Zoology

3	Plant Based Culture and Products vis-a-vis Ecological Economy, 4/9/2021	Dr. Suchandra Dutta, Taxonomist, Dept. of Botany, RD National College	Botany
4	Data Science- Scope & Challenges, 4/10/2021	Mr. Vinayak Deshpande. Managing Director, Sankhya Analytical Research Pvt. Ltd.	Statistics
5	Tribe Electricity, 8/10/2021	Mr. Kapil Bhorkar (Alumni) Forth Inst. of Chem Engg. Sc., Greece	Physics
6	Virtual Tour of Godrej Mangrove Park, 18/12/2021	Mr. Hemant Karkhanis, Alumni, Godrej Eco-Park	Human Science, ID
7	Impact of Bioisosteres in Drug Discovery, 21/4/2022	Dr. Arundhati Abhyankar, Nanavati College of Pharmacy	Chemistry
8	Recent Developments in IT, DateTBA	Shri A. Lewis, Govt IT functionary	IT; CS

#### Prize Distributions and Publication events: Eleven events were conducted as follows:

No.	Event	Invited Guest	Date
1	Prize Distribution Ceremony 2020-21	Dr Sudhakar Agarkar, Dean, VPM's Institute of International Studies	17/5/21
2	Publication of JBNB, Issue XI	Dr. Pramod Salaskar, Secretary, Naushad Ali Sarovar Sanvardhini	5/6/21
3	Publication of Sanyuja 2020-2021	Dr. Vijay V. Bedekar, Chairman, Vidya Prasarak Mandal, Thane	30/12/21
4	Prize Distribution: Intercollegiate NCC Events	Principal and Training Staff of 1 Mah BN NCC	13/12/21
5	Publication: Proceedings of National Conference on Microbiome: The Story Untold	Dr. Yogesh Souche, NCCS	7/1/22
6	Prize Distribution: NSS events, Treasure Hunt	NSS Alumni and BOS Members	24/12/21
7	Felicitation of Women Achievers	Mrs Sumedha Bedekar, Mrs Saroj Warke, Dr. (Mrs.) Jayanti Kulkarni & 10 Guests	8/3/22
8	Prizes to Cultural Team and Performers	Principal	9/3/22
9	Publication:Paper: YCMOU Journalism Course	Shri Dabholkar, Shri Shailesh Kasbe, Media Consultants	12/3/22
10	Prize Distribution: Statistics Fest: Stats Verse	Principal, HOD and staff of Statistics	14/3/22
11	Prize Distribution of Gymkhana Prizes	Shri Rajesh Gadgil, International Level Swimmer, Alumnus Shri Sanjay Athavale, National Sports Observer, Alumnus	19/3/22

# Online/ Offline Seminars and Conferences organized by the college: One Hundred and Twenty eight events were organized as mentioned below:

No.	Web Seminar/ Conference/ Event and Date	Invited Speaker/s	Conducted by Organizing Dept/s
1	Peer to Peer Learning 21/5/2021	Human Science Students & Alumni	Human Science and ID
2	Career Fair (Jr. college) 22/5/2021	Invited companies	Junior College
3	Career Guidance Webinar 23/5/2021	Mr. Kishor Patil, Mr. Pravin Kumar, Mr. Harshad Nevgi, State Bank of India	Human Science and ID
4	World Environment Day, 5/6/2021	Dr. Pramod Salaskar, NASS	Journal Committee (JBNB)
5	Shiv Rajyabhishek Sohala, 6/6/2021	Shri Prasanna Raote	NCC and NSS
6	Shiv Rajyabhishek Sohala 6/6/2021	Shri Uday Samant Hon'ble Education Minister	Ministry of Higher and Technical Education
7	Guidance Webinar for Avishkar University Finalists 10/6/2021	Ms. Alsaba Abdul Qadir All India Avishkar Finalist	Avishkar Committee
8	International Day of Yoga 21/6/2021	Shri Kaustubh Dalvi, Shri. Sandeep Kalgutkar, Ms. Manasi Shirke	Yoga Committee in collaboration with Shri Ambika Yoga Kutir
9	World Reading Day, 19/6/2021	Ms. Kadambari Manjrekar, HOD, Library	Library
10	Career Guidance Session 2/7/2021	Dr Jayashree Pawar HOD, Biotechnology	Biotechnology and Microbiology
11	Orientation for Entrance Examinations 4/7/2021	Shri Subhash Khatri	Biotechnology and Microbiology
12	Lekhak Tumchya Bhetila	Dr.Irene George Judah, Ex. Staffer, AFMC, Pune	Library Club
13	Guidance Session- How to Develop a Project, 11/7/2021	Shri Nikhil JainTCS	IT & CS
14	Coaching for NEET, JEE, 20/7/2021	Tata Motors CSR Activity	IT & Junior College
15	Guidance on Paper Solving 14/7/2021	Ms. Sai Joshi, MS Univ. Ms. Komal Gavas, Goa Univ	Biotechnology and Microbiology
16	Prawn Farming 16/7/2021	Dr. Prasad Karnik	Ev.S, BWCM, Zoology
17	Guidance on Paper Solving 16/7/2021	Ms.Himadri Kale, Goa Univ Ms.Manali Neman, Goa Univ	Biotechnology and Microbiology
18	Guidance on Paper Solving, 26/7/2021	Mr. Shivam Malwankar, AIIMS, New Delhi	Biotechnology and Microbiology
19	Kargil Vijay Divas 26/7/2021	Capt. Chandrashekhar Waralkar	NCC, NSS
20	The Power of Positive Thinking 7/8/2021	Dr. Kiran Pariya Cultural Activities Coordinator	Human Science and ID, Club Soham

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21	Tracking the lions of Gir Forest 10/8/2021	Dr. Meena Venkataraman	Ev.S & BWCM, Aaranya Club
22	International Youth Day, 12/8/2021	NCC	NCC, Govt. of Maharashtra
23	The Challenge of Good Health in Modern Age 13/8/2021	Mr. Dewang Sukhadare,Wellness Coach, Fit Army Wellness Centre	NSS, Fit India Campaign of University of Mumbai
24	An Equation and a Triangle 14/8/2021	Dr. Moses Kolet	Human Science and ID, Club Soham
25	Independence Day Live Streaming of Event	Dr. Vijay Bedekar	Vidya Prasarak Mandal
26	Inauguration of Innovation Corner 15/8/2021	Dr. Hemachandra C. Pradhan	Innovation Corner
27	Urban Bee Keeping, 18/8/2021	Mr. Shree Tare	Zoology
28	Sadbhavana Divas : A Humble Tribute to an Inspiring Leader 20/8/2021	Mr. Archis S. Joshi Director, Dr. Reddy Laboratories	NSS
29	How to Develop Your Profile for a Good Career: Inauguration of Chemistry Club Urja, 20/8/2021	Mr. Niketan Taware, Director, Bright Wavz	Chemistry, Chemistry Club
30	The Story of a Lost Tree" Inauguration of Botany Club, 21/8/2021	Mr. Rushabh Chaudhari Project Fellow, Naoroji Godrej Centre for Plant Research, Satara	Botany, Botany Club
31	Breakfast Recipes 21/8/2021	Peer to peer learning	Human Science and ID, Club Soham
32	Alan Turing: An Innovative Mathematician; 26/8/2021	Dr. Sudhakar Agarkar Dean, VPM's Institute of Foreign Studies	Innovation Corner Webinar - Know the Innovators No.1
33	Cyber Security for Women 26/8/2021	Cyber Sakhi in collaboration with Responsible Netism	NSS, WDC
34	Career Opportunities in Physics: Inauguration of Physics Club, 28/8/2021	Dr. Ramesh B. Bhise, HOD Physics, Hon. Balasaheb Jadhav ASC College, Junnar	Physics
35	Know about Internships: Inauguration of Mathematics Club, 28/8/21	Mr. Shiva Roy, Alumni & Masters student in Engineering	Mathematics
36	Resume Building1/9/2021	Mr. Chintan Mehta, Strategic Alliances Associate, IIDE	Statistics in collaboration with IIDE
37	Microbial Remediation: Inauguration of Biotech Club Jeevika, 5/9/2021	Dr. Utkarsha Lekhak, Dr. Homi Bhabha State University	Biotechnology and Microbiology
38	Motivation for Civil Services Competitive Examinations, 7/9/2021	Shri Rajesh Narvekar, (Alumni) Hon'ble Collector and District Magistrate, Thane District	NCC, NSS, College

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39	Anthropocene: Inauguration of Journal and Movie Club Curiosity, 3/9/2021	Screening and Discussion	Botany, Journal and Movie Club
40	Master class on Linkedin Essentials 21/9/2021	Mr. Chintan Mehta, Strategic Alliances Associate, IIDE	Statistics, Sankhya Club in collaboration with IIDE
41	Michael Faraday23/9/2021	Dr. Sudhakar Agarkar, Dean, VPM's Institute of Foreign Studies	Innovation Corner Webinar - Know the Innovators No.2
42	Virtual Tour of Jnanadweep College Campus, Sept.2021	Ms. Aishwarya DeshmukhFaculty	Botany
43	Careers in Botany, 22/9/2021	Dr. Snehal Bhangale, Faculty	Botany
44	Hindi Divas 24/9/2021	Dr. Manjula Desai, Shri Machindra Bhise, Shri Yogesh Singh, Ms. Geeta Singh	Hindi Dept. Jr. College
45	Build Your Career, 24/9/2021	Dr. Urmila Kumavat, Faculty	Botany
46	Gymkhana Guest Lecture 29/9/2021	Mr. Paresh Gada Gold Medallist, Chess	Gymkhana
47	Gandhi ji Jayanti, Lal Bahadur Shastri Ji Jayanti 2/10/2021	Human Science Student peers	Library, Human science
48	Bhajan Sandhya, 2/10/2021	NSS	University of Mumbai
49	Haifa Day celebration5/10/2021	Adv. Varsha Kolhatkar Mrs. Swati Indulkar	College, NCC
50	FYBSc NSS Orientation, 5/10/21	NSS	College, NSS Unit
51	Nationalism and Patriotism 6/10/2021	Mrs. Sumedha Bedekar Mrs. Joshi	College, NCC
52	Olive Ridley Turtles of Konkan Coast 2/10/2021	Shri Kaushik Koli	Ev.S & BWCM
53	Bird Migrations, 4/10/2021	Shri Tushar Parab	Ev.S & BWCM
54	Living with Snakes, 5/10/2021	Shri Laxmikant Deshpande, Darwin Scholar, UK	Ev.S & BWCM
55	Human-Monkey Interaction around Mumbai, 6/10/2021	Ms. Priya James	Ev.S & BWCM
56	Journals: An Important Tool in Research 7/10/21	Ms. Kadambari Manjrekar BNBCS	Research Committee, Library, Library Committee
57	MAPA: A Primary Tool to Start Literature Survey, 7/10/2021	Dr. Urmila Kumavat, BNBCS	Research Committee, Library, Library Committee
58	The Art of Writing Research Papers in Biological Sciences, 7/10/2021	Dr. Urmila Kumavat BNBCS	Research Committee, Library, Library Committee
59	The Art of Writing Research Papers in Physics, 8/10/2021	Dr. Vijay Mayekar HOD, Physics, R. Ruia College	Research Committee, Library, Library Committee

60	The Art of Writing Research Papers in IT, 8/10/2021	Prof Hiren Dand, HOD IT, Mulund College of Commerce Research	Committee, Library, Library Committee
61	The Art of Writing Research Papers in Chemical Sciences, 9/10/2021	Dr. Dinesh Sawant, Scientist, NCL, Pune	Research Committee, Library, Library Committee
62	The Art of Writing Research Papers in Mathematical Sciences11/10/2021	Dr. Shripad Garge, IIT Bombay	Research Committee, Library, Library Committee
63	The Art of Writing Research Papers in Humanities & Social Sciences, 11/10/2021	Dr. Rajen Suntoo Univ. of Mauritius	Research Committee, Library, Library Committee
64	Writing a Research paper as per Journal Requisites in Biological Sciences 12/10/2021	Dr. Snehal Bhangale & Dr Urmila Kumavat BNBCS	Research Committee, Library, Library Committee
65	Webinar on Dr. APJ Abdul Kalam,14/10/2021	Human Science, ID peer to peer learning	DLLE, Human Science and ID
66	Traffic Safety Arareness Campaign in Youth 18/10/2021	Ms. Vidhi Kothari, Safety Coordinator, Honda Motorcycle & Scooter India Pvt. Ltd	NCC, 1 BN NCC, Thane Municipal Corporation, RTO, Traffic Police
67	How to Manage Exam Related Stress: Inauguration of Student Leadership Committee 19/10/2021	Ms. Jayanthi Iyengar, Consulting Psychologist	NSS, Rotaract Club of Smart City, Navi Mumbai, SLC
68	Dr. Fredrick Banting: An Innovative of Diabetes Physician:The story and Innovative Research, 28/10/2021	Prof Venkatesh Gambhir Homi Bhabha Centre for Science, TIFR, Mumbai	Innovation Corner Webinar - Know the Innovators No.3
69	Lekhak Tumchya Bhetila, 30/10/2021	Mr. Yuvraj Wankhede (Student Writer)	Library Club
70	Informative Lecture for NCC Boys and Girls, 13/11/2021	Ex Cadet T. Gajanan Surveillance Officer, Defence Ministry	NCC
71	International Men's Day 19/11/2021	Mr. Prant Dawale, Alumni, Film Director, Deep Films & Adot Creations	NSS
72	Scientist's Life Story told: Dr. S.P. Agharkar: Botanist, 25/11/2021	Dr. Rajan Garge, Microbiologist, Environmentalist	Innovation Corner Webinar- Know the Innovators No.4
73	Voter Awareness Day 26/11/2021	Ms. Vrishali Patil, Tehsildar	NCC, NSS in collaboration with District Collector Office
74	NCC day Motivational Lecture (Offline) 27/11/2021	Shri Namdeo Bukane, Chief Security Officer, University of Mumbai	NCC
75	Various Entries in Defence Services (Offline) 4/12/2021	Capt (Retd) Ramesh Tope	NCC, NSS, Competitive Exam Guidance Committee

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76	Inauguration of Cultural Association activities 13/12/2021	Mrs Swati ShethAlumni, Actress, Writer, Voice over artist	Cultural association, DLLE
77	Minority Rights Day Offline 18/12/2021	Adv. Vinod H. Wagh, Faculty, VPM's Law College	NCC, NSS
78	Awareness on Self Defence Offline 18/12/2021	Mr. Sanjay Athavale, alumni, National Sports Observer & International Coach	NSS
79	Promotional Event, Interaction with Film Director, Actors, 20/12/2021	Mr. Viju Mane, Film Director, Alumni, Mr. Bhau Kadam	Cultural Association
80	Empowerment of Women 21/12/2021 Offline	Maj. Rohini Shivbalan Activist	Human Science, DLLE
81	Awareness on Bank Frauds and Cyber Safety, 22/12/2021 Offline	Mr. Gyan Barah, Head, Risk Containment Unit, ICICI Bank	College, NCC, NSS
82	Revisiting Complex Numbers	Prof Parag Mehta, Maastricht University, Netherlands	Mathematics
83	National Youth Day 12/1/2022, Online	Dr. Sharda Niwate	NCC, NSS
84	Awareness and Promotion of Sustainable Mensturation Options 15/1/2022	Dr. Seema Khandale, Founder, Ashay Social Group	WDC
85	Army Day- Motivational Talk, 15/1/2022	SM Raj Kumar, SM, 1 Mah BN NCC	NCC
86	Bonding with Chemistry 20/1/2022	Online Screening	Chemistry Club
87	Guidance for NCC 'C' Certificate Exams 20/1/2022	Lt. Col. S.S. Kadam AO, 1 Mah BN NCC	NCC
88	Awareness on Road Safety 22/1/2022	Mr. Vijay Kote (Childrens Traffic Park) & Ms. Vidhi Kothari (Hero Motorcycles)	NSS, NCC
89	Motivational Talk on Birth Anniversary of Netaji Subhash Chandra Bose 23/1/2022	Mr. Rohit ChaturvediAlumni, Sr. Statistical programming Associate	NSS
90	Scientist's Life Story told: Sir J.C. Bose: An Innovative Physicist, 23/12/2021	Dr. Sudhakar Agarkar, Dean, VPM's Academy of International Education & Research	Innovative Corner Webinar- Know the Innovators No.5
91	International Education Day: Udaan: Getting Ready for Education Abroad, 24/1/2022	Ms. Suchitra Surve, Director, Growth centre India Pvt Ltd.	Biotechnology, Microbiology, Jeevika Club
92	Prevention, Prohibition and Redressal of Sexual Harassment of Women Employees and Students of Higher Educational Institutes, 24/1/2022	Ms. Darshana Khambit, Alumni, PoSH Consultant, Public Speaking- Communication Expert	WDC, ICC, Maths Alumni

93	National Voter's Day Event Offline, 25/1/2022	Shri Viju Mane, Alumni, Film Director, Youth Ambassador Mrs. M. Mhatre, Nb. Tehsildar, Sub. Fakhruddin, Indian Army	NCC, NSS
94	Republic Day, 26/1/2022	Dr. Vijay Bedekar	Vidya Prasarak Mandal, NCC, NSS
95	3 Days Project Guidance Sessions 27-29/1/2022	Dr. Ranjeet Dharmapurikar, YCMOU & Dr. Narayan Barse, Joshi-Bedekar College	Library, YCMOU
96	Scientist's Life Story told: Dr. Satyendranath Bose, 27/1/2022	Dr. Sudhakar Agarkar, Dean, VPM's Institute of International Studies	Innovation Corner Webinar- Know the Innovators No.6
97	Understanding Importance of Rehabilitation in in Mental Health 29/1/2022	Ms. Kasthuri Rengan, Social Worker	Human Science, ID, DLLE
98	Student Outreach Mentor Go Program, 29/1/2022	Ms. Aastha Dalal, Mentor to Gether Organization	College, IT, CS, Mathematics, Statistics, Mentor Together
99	Practical Tips on Success in facing interviews of Corporate Sector 29/1/22	Shri Devdutt Kadrekar, CEO, Humane HR Consulting	Anubandh Alumni Association
100	Valuable Tips and Guidance for successfully facing and cracking interviews of competitive examinations 29/1/2022	Shri Sanjay Athavale, Former Official, Govt. of Maharashtra, National Sports Observer	Anubandh Alumni Association
101	Martyr's Day, 30/1/2022	Mrs. Sadhana Y. Joshi, Dr. Bedekar Vidya Mandir	NSS, NCC
102	World Wetlands Day, Collaborative Webinar on 'Konkan Safari'with Maharashtra College 2/2/2022	Prin (Dr) Sirajuddin Chougale Principal, Maharashtra College, Mumbai	Ev. S, Biodiversity, IQAC with Nature Club of Maharashtra College
103	Marathi Bhasha Samwardhan Pandhravada: <i>Sadarikarnatil</i> <i>Marathi</i> 3/2/2022	Mrs. Meghana Sane, Author, Actor	NSS, NCC. Yuva Jagar
104	Al and Machine Learning , Offline interaction, 5/2/2022	Mr. Sandeep Phanasgaonkar, Alumni, Industry Expert	Anubandh Alumni Association
105	Wonderful World of Sponges, 11/2/2022	Dr. KakvipureFaculty, BNN College	Zoology Club
106	Yoga and Wellbeing, Offline interaction, 12/2/2022	Mr. Umesh Lalit, Alumni, Research Director, World Yoga Federation & Meditation Alliance International	Anubandh Alumni Association
107	Mental Health and Youth 13/2/2022	Dr. Dhruv J. Parmar, Psychiatrist	Human Science, ID, DLLE
108	Shiv Jayanti Mahotsav19/2/2022	Shri Subhash Shinde,Vice Principal, Joshi Bedekar College, Historian	NSS

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109	My Journey from Thane to Boston, 20/2/2022	Ms. Gayatri Thorat,Alumni	Botany
110	Therapeutic Applications of Plants in Panchakarma, 21/2/2022	Dr. Umanka Ray, MD, Panchakarma	Botany
111	Career Opportunities in Botany, 22/2/2022	Dr. Dhanashri Patil,Faculty, Barrister Balasaheb Khardekar College, Vengurla	Botany
112	Birbal Sahni: An Innovative Paleontologist, 24/2/2022	Dr. Siddhivinayak Barve, Director, KET's Scientific Research Centre, Mulund	Innovation Corner Webinar- Know the Innovators No.7
113	Basic Leadership Traits for Self Development, Offline, 26/2/2022	Mr. Sanjay Mandlik,Alumni and HR Consultant	Anubandh Alumni Association
114	Placement Webinar 26/2/2022	Shri Vidyadhar Kamat,Alumni, Industrialist	Placement Cell, IT, CS
115	Embark on the Journey of Modernizing Physics , 28/2/2022	Shri Surendra Bapat, Former Head, Dept of Physics	Physics
116	Marathi Bhasha Divas, 28/2/2022	Mrs. Meghana Sane, Author, Actor	Marathi Dept., Research Committee
117	National Science Day, 28/2/2022	Shri Suhas Naik-Satam, Secretary, National Centre for Science CommunicationDr. Sudhakar Agarkar, Dean, VPM's Institute of International Studies	Research Committee, Science Square
118	Road Safety Webinar, 7/3/2022	Ms. Vidhi Kothari (Hero Motorcycles)	NCC, NSS
119	International Women's Day 8/3/3022	Brig. (Mrs.) S. V. Saraswati, Dy. DG, Military Nursing Service, New DelhiMrs Saroj WarkeTrustee, HimediaMrs. Sumedha Bedekar Philanthropist & Homemaker Dr Jayanti KulkarniScientist, BARC	College in collaboration with Joint Director, Higher Education; Ministry of Higher and Technical Education, Maharashtra
120	IPR, 11/3/2022	Dr. Jayashree Bengali, IPR Expert	IQAC, Research Committee
121	Yashwantrao Chavan Jayanti (Birth Anniversary), 12/3/2022	Shri Shailesh Kasbe, Press Consultant Shri Dabholkar, Press Official	Library, YCMOU Correspondence Course on Journalism
122	Guidance Seminar on 'Government Jobs Knocking at Your Door' 15/3/2022	Smt. Rasika Gupta Sonawane Edusolace-online learning centre for competitive exams	NSS, NCC
123	World Water Day 22/3/2022	Mrs, Manisha Pradhan; Shri Raju Jadhav, Scientists, Pollution Control Cell, TMC Dr. VinayS. Nikam, Prop.Envirocon Urban Hydro Environment	NCC, NSS, Students Council

124	'TB Mukta Thane'on occasion of World TB Day, 24/3/2022	Shri Prasad Oak, Film Producer, Brand Ambassador, Shri Arun Kadam, Actor, Health Officials, Thane Municipal Corporation	Thane Municipal Corporation, NCC, NSS, DLLE, Students Council, Cultural Asso.
125	Introductory Mathematical Methods: An Interdisciplinary Approach 26/3/2022	Dr. Shantanu Kadam,Faculty, S P Dnyanasadhana College	Physics
126	Staff Interaction1/4/2022	Dr. Satish Desai, Civil Engineer, UK	College
127	Opportunity and Future in Food Technology, 18/4/2022	Shri Umesh Kamble, Entrepreneur, CEO Farm to Fork	Biochemistry
128	Career Opportunities in Government Sevices, 22/4/2022	Shri Suhas Patil, Retd Commissioner. Central Excise	College, NCC

### Training Courses and Workshops Organized by the College:

Thirty three Courses and Workshops heve been organized during the year as follows:

No.	Course/ Workshop	Date/s	Organized by (Dept)
1	Paper Bag Day- Workshop on Paper Bag Making	12/7/2021	Ev.S & BWCM
2	Enhancement of Skills in Anatomy Diagrams	13/8/2021	Botany
3	ICT Workshop- Introduction to Google Doc	16/8/2021	Botany
4	COVID-care Immunity Booster Programme for students	24/8/2021 to 27/8/2021	NSS, University of Mumbai NSS, Art of Living Foundation
5	Home-scale Preparation of Jam, Squash & Syrup	30/8/2021	Botany
6	First Pre-conference Workshop of National Conference	25/9/2021	Biotech. & Microbiology
7	ICT Workshop- Google classroom Application	25/9/2021	Botany
8	Workshop on Making Google Forms and E-Posters	26/9/2021	Human Science and CS
9	Course on Excel	9/11/2021 to 17/11/2021	Botany, IT, CS
10	Second Pre-conference Workshop of National Conference	10/12/2021 to 11/12/2021	Biotech. & Microbiology
11	Ministry of AYUSH Yoga Course for Non Teaching Staff in collaboration with Shri Ambika Yoga Kutir	7/12/2021 to 31/1/2022	Yoga Committee
12	Workshop for IQAC team	23/12/2021	College, IQAC & Dr VN BRIMS
13	Workshop on Creative Writing	20/1/22 to 21/1/22	Magazine Committee
14	Training Workshop on Systems Automation	25/1/2022	VPM, BNBCS in collaboration with Mastersoft
15	Interview Cracking Skills for Corporate Interviews	29/1/2022	Anubandh Alumni Association
16	How to Face Interviews of Competitive Examinations	29/1/2022	Anubandh Alumni Association
17	Certificate Course on Management for Beginners in collaboration with Dr VN BRIMS	3/2/2022 to 14/3/2022	College, ID, IT

18	Disaster Management Training Course	4/2/2022- 5/2/2022	NCC, NSS, DLLE in collaboration with MCGB and Jan Kalyan Samiti of RSS
19	Course on R Software	8/2/2022 to 22/2/2022	Statistics
20	'Shankhanaad' Workshop on 'The Art of Conch Blowing'	7/3/2022	DLLE, WDC, NSS, Cultural
21	Workshop on Tips to Improve Hemoglobin Count	8/3/2022	NSS, NCC, College, WDC
22	Events related to celebration of International Women's Day	5/3/2022 to 8/3/2022	WDC, NCC, NSS, DLLE
23	Marine Training Programme	3/3/2022	Coastal & Marine Biodiversity Centre, Airoli
24	One Day Workshop on Data management for NAAC Accreditation	10/3/2022	IQAC for Jnanadweep Campus
25	2 Days Certificate Course on Banking, Insurance and Cyber Frauds	15/3/2022/ to 16/3/2022	Anubandh Alumni Association
26	One Day Workshop on World Water Day	22/3/2022	EvS, Biodiversity, NSS, NCC, Student Council
27	Field Training for EvS & Biodiversity Students Day 1	23/3/2022	Naushad Ali Sarovar Samvardhini; MSAA, Training at Dr. M.S. Kodarkar Research Station, Powai Lake
28	Field Training for EvS & Biodiversity Students Day 2	24/3/2022	NASS, Training at BNBCS
29	Educational Tour, IV	24/3/2022- 26/3/2022	Statistics
30	Visit to Central Institute of Fisheries Education	13/4/2022	Biodiversity and Wildlife Conservation Management
31	Certificate Course on Food Adulteration and Quality Management	Starts 18/4/2022	Biochemistry
32	Instrumentation & preparation of Standard Solutions	Planned	Chemistry
33	Workshop on 'Neti kriya' for healthy life	Planned	Yoga Committee

**Student Festivals (and other activities): Ninety six** student festivals, competitions, popular events and other ceremonies/ observances were organized online as well as offline as follows:

No.	Fest / Activity	Date/s	Organized by/ Collaboration
1	Inaugural Lecture SYBSc	15/6/21	College
2	Inaugural Lecture TYBSc	16/6/21	College
3	Guru Pournima Utsav	23/7/21	Sankhya Club, Statistics Dept
4	Debate Competition- Climate change and its effect on India	31/7/21	Depts .of Human Science, ID
5	NCC Fit India Event: 5 KM Run for Fitness; Offline event	4/9/2021	NCC

6	NCC Fit India Event: Cycle Rally	4/9/2021	NCC
7	Teachers Day Online Celebration	5/9/2021	Biotech. & Microbiology
8	Motivational Interaction with Hon'ble Collector of Thane District	7/9/2021	NCC, NSS, (Offline)
9	Inaugural Lecture FYBSc	7/9/2021	College
10	Eco Friendly Ganapati Decorations	10-13/9/2021	NSS
11	Drawing Competition	18-21/9/2021	NSS
12	State Level Essay Competition on occasion of Hindi Divas	24/9/2021	Hindi Dept, Jr. College
13	NSS Foundation Day Offline Event	24/9/2021	NSS
14	World Heart Day Activities	27-29/9/2021	NSS
15	10 days NCC Girls Camp	27/9/2021- 6/10/2021	NCC
16	Essay Writing and Flyer Making Competition on occasion of Gandhi Jayanti and Lal bahadur Shastri Jayanti	2/10/2021	DLLE, Human Science Dept & Dept of ID
17	Gandhi Jayanti Activitiy and Online Quiz	2/10/2021	NSS
18	Wild Life Week: Wildlife Diaries: Lets Explore Wilderness	2-6/10/2021	Ev.S & BWCM
19	International Research Webinar on Art of Writing Research Papers	7-12/10/2021	Research Committee, Library
20	Rangoli Competition, Theme Gender Equality	7/10/2021	NSS
21	Sketching and Portrait Competiition	8/10/2021	NSS
22	Tree Plantation	9/10/2021	NSS
23	Poem Writing Competition	10/10/2021	NSS
24	Online Global warming Quiz competition	11/10/2021	NSS
25	Slogan Competiition	12/10/2021	NSS
26	Mandala Art competition	13/10/2021	NSS
27	Dusshera Celebration	14/10/2021	College, Departments
28	Photography competition	14/10/2021	NSS
29	Blog Writing competition	15/10/2021	NSS
30	National Level Quiz Competition: Food for Thought: World Food Day	16/10/2021	Biochemistry Dept, Jeevika Club
31	Legal Awareness Rally	18/10/2021	NCC, NSS, Law College
32	Online Dialogue with Hon'ble Minister Shri Uday Samant	20/10/2021	College' Ministry of Higher Education
33	Treasure Hunt, NSS Alumni activity	20/10/2021	NSS
34	Induction Lectures for FYBSc Offline	20/10/2021	College
35	Induction Lectures for FYBSc Offline	21/10/2021	College

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36	Inter ICC Group Camp, PuneANO & 25 cadets	25/10/2021- 4/11/2021	NCC Group B
37	Launch of Mission Yuva Swasthya; Inauguration of COWIN Vaccination Drive for youth	25/10/2021- 2/11/2021	Govt. of Maharashtra, Joshi Bedekar College, NCC, NSS
38	Induction Lectures for FYBSc Offline	27/10/2021	College
39	Induction Lectures for FYBSc Offline	28/10/2021	College
40	Natiional Cancer Awareness Day Quiz	7/11/2021	NSS
41	Offline Quiz Contest on Health	20/11/2021	College and Civil Hospital
42	5 Days NSS Leadership Training Programme	17-21/11/21	University of Mumbai
43	Cyber Security Drive and Inauguration of State Level Awareness Drive	26/11/2021 Nimkar Arts	Quick Heal Foundation,
44	Constitution Day	26/11/2021	Jagar Janivancha, NCC, NSS, Library
45	Street Plays on Cyber Security Nimkar Arts & BNBCS	26, 27, 28/11/2021	Quick Heal Foundation,
46	NCC Day Celebration	27/11/2021	NCC
47	Poster Making Competition	1/12/2021	NCC, NSS
48	Quiz on occasion of Indian Navy Day	3/12/2021	NSS
49	Aarambh 2021: New beginning after pandemic	4/12/2021	Srishti Club, Botany
50	Homage to Gen. Bipin Rawat and all brave hearts lost in tragic accident	11/12/2021	NCC
51	Poster Presentation Competition: National Conference on Microbiome	9/12/2021	Biotech, Microbiol, Conf. Committee
52	Sutherland Interviews for Placements	10/12/2021	Placement Cell
53	Kotak Mahindra Interviews for Placements	13/12/2021	Placement Cell
54	Intercollege NCC TSC Competitions	13/12/2021	NCC and 1 Mah BN NCC
55	Vijay Divas Celebration of 50 Years of 1971 War	16/12/2021	NCC, NSS, Nehru Yuva Kendra
56	NSS Treasure Hunt and Sports	22/12/2021	NSS
57	National Mathematics Day	22/12/2021	Mathematics
58	National Consumer Day in collaboration with FDA	24/12/2021	Cultural, NCC,
59	Visit to Institute of Oriental Study	29/12/2021	Museum Study Group
60	Savitribai Phule Jayanti	3/1/2022	Library
61	Intercollegiate Debate Competition offline on National Youth Day	12/1/2022	College and District Civil Hospital
62	Swami Vivekanand Jayanti	12/1/2022	Library
63	Rajmata Jijabai Jayanti	12/1/2022	Library
64	Career in Management Courses after Graduation (2 Sessions)	15/1/2022	Placement Cell and Dr.V.N. BRIMS
65	Scholarship Workshop	15/1/2022	Special Cell
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| 66 | Online Training Workshop for all students:<br>Use of Knimbus Platform | 18-22/1/22   | Library                                   |
|----|-----------------------------------------------------------------------|--------------|-------------------------------------------|
| 67 | Birth anniversaries: Shri Balasaheb Thackeray & Subhash Chandra Bose  | 23/1/2022    | Library                                   |
| 68 | Inter Class Essay Writing and Poster Making:<br>National Voter's Day  | 24/1/2022    | NCC, NSS                                  |
| 69 | Bunker Busting, Obstacle Crossing                                     | 26/1/2022    | NCC                                       |
| 70 | Mathlete Inter Class competitions                                     | 31/1/2022    | Mathematics                               |
| 71 | Placement Webinar with Velox Motors                                   | 3/2/2022     | Placement Cell                            |
| 72 | Mega Yoga Session- 75 Crore Suryanamaskar<br>Campaign                 | 8/2/2022     | NCC, NSS, Yuva J.,<br>Jan Kalyan Samiti   |
| 73 | Placement Drive at Maruti Suzuki Velox Motors                         | 8/2/2022     | Placement Cell                            |
| 74 | Shraddhanjali to Bharat Ratna Lata Mangeshkar                         | 10/2/2022    | Min. Higher & Technical Edn               |
| 75 | Sant Sevalal Maharaj Jayanti                                          | 15/2/2022    | Library                                   |
| 76 | E-Collage Making Competition                                          | 19/2/2022    | Research, Science Square                  |
| 77 | Chhatrapati Shivaji Maharaj Jayanti                                   | 19/2/2022    | NCC                                       |
| 78 | Sant Gadagebaba Jayanti,<br>Sant Rohidas Maharaj Jayanti              | 23/2/2022    | Library                                   |
| 79 | Swatantraveer Sawarkar Punyatithi                                     | 26/2/2022    | Library                                   |
| 80 | Placement Programme                                                   | 26/2/2022    | ICAI TEL program                          |
| 81 | Physics Carnival                                                      | 28/2/2022    | Physics                                   |
| 82 | Audio Visual Show on Madam Marie Curie                                | 28/2/2022    | Research, Marathi,<br>Science Square      |
| 83 | Valedictory Function for Bas R Software Course                        | 2/3/2022     | Statistics                                |
| 84 | Educational and Informative Film Screening                            | 3/3/2022     | Botany, Journal,<br>Movie Club- Curiosity |
| 85 | Palvi Fest 2022                                                       | 4/3/2022     | Botany, Srishti Club                      |
| 86 | Saree Day, Tie Day                                                    | 3/3/2022     | Cultural                                  |
| 87 | Traditional Day                                                       | 4/3/2022     | Cultural                                  |
| 88 | Visit to Coastal and Marine Biodiversity Centre, Airoli               | 3/3/2022     | Biodiversity                              |
| 89 | Celebration of International Women's Day                              | 8/3/2022     | WDC                                       |
| 90 | Akanksha- Annual Cultural Festival                                    | 9/3/2022     | Cultural Committee                        |
| 91 | Basketball Carnival                                                   | 10/3/3022    | VPM Sports Academy                        |
| 92 | Statistics Festival- Stats Verse 2022                                 | 11-12/3/2022 | Statistics                                |
| 93 | Indoor Sports Competitions Carrom, Chess,<br>Table Tennis             | 7-12/3/2022  | Gymkhana Committee                        |
| 94 | Box Cricket Tournament                                                | 16/3/2022    | Gymkhana Committee                        |
| 95 | Sahitya Sahavas literary rendering                                    | 19/3/2022    | Sahotya Sahavas Committee                 |
| 96 | Farewell Function for SYJC Batch                                      | 20/4/2022    | Junior College                            |

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

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

| No. | Intercollegiate Event Organized                                                                      | Level               | Date/s             | Collaborating Agency                          |
|-----|------------------------------------------------------------------------------------------------------|---------------------|--------------------|-----------------------------------------------|
| 1   | Hindi Divas, Essay Writing Competition                                                               | State Level         | 24/9/2021          | NA                                            |
| 2   | National Quiz on World Food Day                                                                      | National            | 16/10/2021         |                                               |
| 3   | All India Poster Presentation Competition                                                            | National            | 9/12/2021          | Mycological Society of India (MU)             |
| 4   | Intercollegiate TSC Event Competition                                                                | Inter Collegiate    | 13/12/2021         | NCC                                           |
| 5   | Training Camp                                                                                        | NCC Zonal           | 15- 20/<br>12/2021 | NCC                                           |
| 6   | Intercollegiate Debate Competition<br>Offline on National Youth Day                                  | Inter<br>Collegiate | 12/1/2022          | College and District<br>Civil Hospital        |
| 7   | Intercollegiate Elocution and Advertisement<br>Poster making competitions on<br>National Voter's Day | Inter Collegiate    | 24/1/2022          | NSS                                           |
| 8   | Intercollegiate Debate on 'Should HIV be included in academic curricula of schools'                  | District Level      | 1/2/2022           | College, NSS, NCC,<br>District Civil Hospital |
| 9   | Training in Data Management for AQAR and NAAC Procedural Aspects                                     | Campus              | 10/3/2022          | Mastersoft Inc.                               |
| 10  | E-Poster Making and Slogan Writing<br>Competitions on World Water Day                                | Campus<br>Colleges  | 22/3/2022          | Thane Municipal<br>Corporation                |

**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.

#### Organization and Conduct of National Conference and Pre Conference Workshops:

The National Conference on **Microbial Biochemistry and Biotechnology: Microbiome-The Story Untold** was conducted in online mode on 7<sup>th</sup> and 8<sup>th</sup> January 2022 Proceedings of the National Conference were released during the Inaugural session at the hands of Dr. Yogesh Souche, the Key Note Speaker, from NCCS. The event had sessions on oral scientific paper presentation on both days of the conference. This well organized and excellently conductedNational Conference was a joint effort of departments of Microbiology, Biotechnology, Biochemistry, ID, Human Science and Botany.

Before the actual National conference, two pre conference workshops were organized on 25<sup>th</sup> September 2021(1<sup>st</sup> pre-conference workshop) and 10<sup>th</sup> & 11<sup>th</sup> December 2021(second pre-conference workshop). An All India Poster Presentation competition was organized as part of this National event on 9<sup>th</sup> December 2021.

Following our tradition, the conference for next academic year 2022-2023 was announced during the valedictory session, as 'National Conference on Applied Mathematics and Statistics;

### **SANYUJA 2021-22**)

to be jointly conducted by departments of Mathematics and Statistics in January 2023 I wish all success to the departments of Mathematics and Statistics for their maiden event and thank the organizing secretaries and organizing team of National Conference on 'Microbiome: The story Untold' for excellent conduct of the conference.

#### 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. **Nine** 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    | Dr. Akanksha Shinde  | Soft Skills Course                                                                                                 | SPPU Pune                                                                     |
| 2    | Ms. Minal Wankhede   | Ethics and Values in Higher Education                                                                              | MSFDA                                                                         |
| 3    | Ms. Komal Gaikwad    | One Month Faculty Induction Program                                                                                | MSFDA and HRDC<br>University of Mumbai                                        |
| 4    | Ms. Komal Kadam      | 10 Days Workshop on Research<br>Methodology in Social Sciences                                                     | S.M. Shetty College & Indian<br>Council of Social Science<br>Research ICSSR   |
| 5    | Ms. Sumaiya Shaikh   | FDP on Data Analysis with Statistical<br>Tools and Techniques using SPSS<br>theory and practical, A Beginner Model | Hazarimal Somani College & Shodh International Institute of Academic Research |
| 6    | Ms. Sayali Daptardar | Master Course on Stock Market<br>Trading and Investment                                                            | Bharti Institute                                                              |
| 7    | Ms. Rucha Khadke     | FDP- Empowering the Faculty in<br>Personal and professional Skills                                                 | KLE Society's Science &<br>Commerce College                                   |
| 8    | Ms. Pooja Kanse      | FDP- Methods of Material Synthesis                                                                                 | Bhavans Vivekanand College                                                    |
| 9    | Ms. Pooja Kanse      | FDP- Research in social Sciences-<br>Contemporary Trends, Perspectives<br>and Pedagogy                             | JNU, New Delhi &<br>Galgotia's University                                     |

One Hundred and forty eight of our Teaching and non-teaching staff members voluntarily completed 29 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

| S.No    | Name                                                                                                                                                                    | Course/ Training<br>Workshop                                                                    | Organized by                                                                  |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1-6     | Dr. Moses Kolet , Dr. M. Saha,<br>Dr. V.D. Manjramkar Dr. A.S. Goswami-Giri,<br>Shri. Abhijeet. Kale, Dr. Kalpita Mulye                                                 | 5 Days<br>State Level FDP<br>29/5/21-3/6/21                                                     | RUSA Maharashtra &<br>BMCC, Pune                                              |
| 7-13    | Dr. Urmila Kumavat, Dr. Ujjwala Gokhe,<br>Dr. Sandip Kahandal, Dr. Kalpita Mulye,<br>Dr. Jayashree Pawar,<br>Ms. Kadambari Manjrekar, Dr. Kiran Pariya                  | 8 Days Online<br>NAAC Workshop<br>15-22/11/2021                                                 | AAdhyapana,<br>Bangalore                                                      |
| 14-21   | Prin. Dr. Moses Kolet & IQAC Team                                                                                                                                       | NAAC Webinar on<br>NEP 2020 16/11/2021                                                          | NAAC, Bangalore                                                               |
| 22-24   | Prin Dr. Moses Kolet, Dr. Kalpita Mulye,<br>Dr Jayashree Pawar                                                                                                          | Higher Education<br>Conclave: NAAC Offline<br>Orientation 18/11/2021                            | Mastersoft Inc.                                                               |
| 25      | Prin. Dr. Moses Kolet                                                                                                                                                   | 3 Days<br>Principal' Conference<br>22-24/11/2021                                                | VPM's MPCOE,<br>Velneshwar                                                    |
| 26      | Lt. Bipin Dhumale                                                                                                                                                       | 2 Days NCC Conference<br>5-6/12/2021                                                            | 1 MAH BN NCC                                                                  |
| 27-34   | Ms. Kadambari Manjrekar, Dr. Kiran Pariya,<br>Dr. Urmila Kumavat, Dr Ujjwala Gokhe,<br>Dr. Sandip Kahandal, Dr Kalpita Mulye,<br>Dr Jayashree Pawar, Ms. Sumaiya Shaikh | 2 Days Offline NAAC<br>Training Workshop<br>6-7/12/2021                                         | Vaze-Kelkar<br>College                                                        |
| 35-53   | 19 Voluntary Participants from<br>Non-Teaching Staff                                                                                                                    | 8 Weeks Yoga Course<br>of Ministry of AYUSH<br>7/12/2021-7/2/2022                               | College in collaboration<br>with AYUSH Ministry and<br>Shri Ambika Yoga Kutir |
| 54 - 55 | Prin Dr. Moses Kolet, Dr Kiran Pariya                                                                                                                                   | Career Orientation<br>Workshop, 8/12/2021                                                       | Ministry of Higher and<br>Technical Education                                 |
| 56-59   | Dr. M. Saha, Mr. A.A. Kale,<br>Dr.Kalpita Mulye, Dr. Jayashree Pawar                                                                                                    | Workshop on Total<br>Quality Management,<br>18/12/2021                                          | National Centre for<br>Quality Management                                     |
| 60-75   | 16 NAAC Related Criteria Incharges and committee members, NAAC Coordinator, Dy. Coordinator                                                                             | Workshop on Blooms<br>taxonomy and NAAC,<br>Total Quality Management<br>in Education 23/12/2021 | College, IQAC in<br>collaboration with<br>DR V.N.BRIMS<br>and NCQM            |
| 76-80   | Mr. Chetan Moynak OS, Mr. Vipul Chavan,<br>Mr. Sagar Patil, Mr. Rupesh More,<br>Ms. Madhuri Shiudkar                                                                    | Workshop on Office<br>Procedures and NAAC<br>for Non Teaching Staff<br>2-4/1/2022               | Shroff College,<br>Mumbai                                                     |
| 81      | Ms. Rashmeen Shaikh, ID visiting                                                                                                                                        | National Investment<br>Awareness Programme                                                      | Anandibai Pradhan<br>Science College,<br>Nagothane                            |
| 82      | Dr. Moses Kolet                                                                                                                                                         | Mentorship for IT, CS,<br>Mathematics, Statistics<br>19/1/2022                                  | Joint Director, HE                                                            |

| 83-107  | 25 staff members associated with IQAC                                                                                                                                                                                                                                                 | Workshop on Data<br>Management for NAAC<br>Accreditation10/3/2022                                             | College, IQAC in collaboration with Mastersoft                   |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 108-111 | Dr. Moses Kolet,<br>Dr. Vinda Manjramkar,<br>Dr Urmila Kumavat,<br>Mrs. Kadambari Manjrekar                                                                                                                                                                                           | Workshop on ICT<br>Automation in Higher<br>Education, 11/3/2022                                               | KBP College<br>(Autonomous) Vashi,                               |
| 112     | Dr. Moses Kolet                                                                                                                                                                                                                                                                       | State Level Online<br>Workshop for Principals<br>12/3/2022                                                    | Ministry of Higher<br>and Technical<br>Education                 |
| 113-126 | Ms. Madhuri Shiudkar, Mr. Sagarsing Patil,<br>Mr. Chetan Moynak, Mr. Chaudhari,<br>Ms. Mamta Parab, Ms. Prajakta Mayekar,<br>Ms. P.Koli, Ms. Shamal Kulkarni,<br>Ms. Swati Rane, Ms. Swati Khakam,<br>Mr. Amey Kadam, Mr. Ramchandra Shinde,<br>Mr. Dilip Ambhore, Mr. Ganesh Sangle, | Online Intercollegiate Workshop on Quality Management System for Administration: A NAAC Perspective 15/3/2022 | Bharat College of<br>Arts and Commerce,<br>Badlapur, Dist. Thane |
| 127     | Ms. Kadambari Manjrekar                                                                                                                                                                                                                                                               | Workshop on Research<br>in context of NEP 2020,<br>15/3/2022                                                  | SNDT Women's<br>University, Mumbai                               |
| 128     | Lt. Bipin Dhumale                                                                                                                                                                                                                                                                     | Attached to Army<br>Artillary Unit 4-18/4/2022                                                                | NCC Army<br>Attachment                                           |
| 129-137 | Dr. Kiran Pariya, Dr. Ujjwala Gokhe,<br>Ms. Umalakshmi Patne, Dr. Sandeep<br>Kahandal, Ms. Kadambari Manjrekar,<br>Dr. Ashwini Tilak, Shri Tejas Jadhav,<br>Ms Sumaiya Shaikh, Ms. Judith Talker                                                                                      | Workshop on<br>Accreditation<br>Data Management,<br>23/4/2022                                                 | St Gonsalo Garcia<br>College, Mumbai                             |
| 138-141 | Dr. Kiran Pariya, Dr. Urmila Kumavat,<br>Dr. Kalpita Mulye,<br>Ms. Kadambari Manjrekar                                                                                                                                                                                                | NEP 2020- Its<br>Implementation in<br>Higher Education,<br>26/4/2022                                          | Nagindas Khandwala<br>College, Mumbai,<br>ICSSR                  |
| 142     | Ms. Sayali Daptardar                                                                                                                                                                                                                                                                  | Basics in Biostatistics with SPSS 30/8/2021-1/8/2021                                                          | Mergen Biologics                                                 |
| 143     | Ms. Sayali Daptardar                                                                                                                                                                                                                                                                  | Spirulina Cultivation<br>9-11/8/2021                                                                          | Veridian Micro Lab<br>Pvt. Ltd                                   |
| 144     | Ms. Sayali Daptardar                                                                                                                                                                                                                                                                  | Bioinformatics 23-27/9/2021                                                                                   | DYJ Life Sciences                                                |
| 145     | Ms. Sayali Daptardar                                                                                                                                                                                                                                                                  | HPTLC, 19/3/2022                                                                                              | KC College &<br>Anchrom Labs                                     |
| 146     | Ms. Mitali Chinnkar                                                                                                                                                                                                                                                                   | Research and Publication<br>Ethics for Ph.D. students<br>15-30/11/2021                                        | Sardar patel Institute of Technology                             |
| 147     | Ms. Pooja Kanse                                                                                                                                                                                                                                                                       | Bioinformatics,<br>16-18/10/2021                                                                              | Edufabrica & Pulses,<br>AIIMS, Delhi                             |
| 148     | Prin. (Dr.) Moses Kolet                                                                                                                                                                                                                                                               | Future of Education- Social<br>and Emotional Learning in<br>Light of NEP 2020, 23/4/2022                      | Vivek College of<br>Commerce                                     |

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**Research Projects for staff:** Two projects are ongoing while **three** teachers completed their research projects during 2021-22 as follows:

| No | Name                        | Department    | Sanctioning Authority             | Amount (Rs) |
|----|-----------------------------|---------------|-----------------------------------|-------------|
| 1  | Ms. Sayli Daptardar         | Microbiology  | Mangrove Foundation of India 4000 |             |
| 2  | Dr. (Mrs) Poonam Kurve      | Zoology       | University of Mumbai 5000         |             |
| 3  | Dr. (Mrs) A.S. Goswami-Giri | Chemistry     | University of Mumbai              | 25000/-     |
| 4  | Dr. S. Kahandal             | Chemistry     | University of Mumbai              | 25000/-     |
| 5  | Dr. Jayashree Pawar         | Biotechnology | ACTREC                            | _           |

### Research Papers/ Book Chapters published by Members of Staff:

Thirteen publications as presented below were launched during this academic year.

| No. | Name                                                  | Title of Research Paper                                                                                                                                            | Journal/ Book                                                       | Year                 |
|-----|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------|
| 1   | Dr. Jyoti D. Vora and<br>Ms. Rucha Khadke             | Novel Product Development and organoleptic analysis using Asparagus (Asparagus officinalis) stems.                                                                 | ACTA Scientific<br>Nutritional Health 5                             | 2021                 |
| 2   | Dr Moses Kolet                                        | Happiness of Students and its Role in Progress as viewed by Head of Higher Educational Institution                                                                 | Pursuit of Happiness:<br>The Path of Philosophy<br>and Counselling  | 2020<br>Publ<br>2021 |
| 3   | Dr. Moses Kolet (Jt.)                                 | Fungal flora isolated from<br>deteriorating cardboard and<br>corrugated box samples in Thane<br>and Bhiwandi, India                                                | Int. J. Curr Microbiol<br>& Appl. Sciences                          | 2021                 |
| 4   | Dr Moses Kolet                                        | Investigations on indicators and symptoms signifying problems and requirement of corrective measures in the process of composting of organic residues              | PJERT                                                               | 2021                 |
| 5   | Dr Moses Kolet,<br>Sanjeeda Islam and<br>Kavita Gowda | Analysis of physical, mental and emotional wellbeing of higher education studentsduring pandemic related lockdown and measures for holistic fitness and resilience | JBNB                                                                | 2021                 |
| 6   | Dr. Moses Kolet (Jt.)                                 | Folklore usage of Meswak<br>( <i>Salvadora persica</i> L.)<br>in oral care: A review                                                                               | International Journal<br>of Enhanced Research<br>in Sc, Tech & Engg | 2022                 |
| 7   | Dr. Anita Goswami- Giri                               | Role of Nanotechnology<br>in Lantana Camara Research                                                                                                               | Role of Nanotechnology<br>in Sciences and<br>Engineering 2          | 2021                 |

| 8  | Ms. Sayli Daptardar (Jt)                                                                                     | MicrobialL-asparaginase:<br>Anticancer solution                  | J Adv Sci Res                                                                                 | 2021 |
|----|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------|
| 9  | Ms. Akanksha Kumbhar<br>and Dr Akanksha Shinde                                                               | Real numbers and their interesting proofs                        | Sent to JBNB for publication                                                                  | 2022 |
| 10 | Ms. Shreya Nadkarni,<br>Ms. Sakshi Rane and<br>Ms. Sumaiya Shaikh                                            | Exploratory data analysis of top 5 crypto currencies             | Sent to JBNB for publication                                                                  | 2022 |
| 11 | Mr. Aniruddha Shelke<br>and Ms. Sumaiya Shaikh                                                               | Prediction of Amazon stocks using deep learning (LSTM)           | Sent to JBNB for publication                                                                  | 2022 |
| 12 | Ms. Sneha Tiwari and<br>Ms Mohini Kushwaha                                                                   | Adverse effect of non-narcotic drug<br>on CNS and visceral organ | International Journal<br>of Advanced Research in<br>Science Communication<br>and Technology 2 | 2022 |
| 13 | Ms. Sneha Tiwari,<br>Ms. Laxmi Parmar,<br>Ms. Damini Mahajan,<br>Mr. Omkar Singh and<br>Dr A.S. Goswami-Giri | Haircare by ALDOS                                                | Sent to JBNB for publication                                                                  | 2022 |

### Research Projects completed by students:

Twenty seven research projects were undertaken by students as follows:

| No. | Name                                                                                                                                    | Title of Research Paper                                                                                                            | Mini Research Project<br>/ Journal       | Year |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------|
| 1   | Ms. Akanksha Kumbhar &<br>Dr Akanksha Shinde*                                                                                           | Real numbers and their interesting proofs                                                                                          | Project sent for Avishkar<br>Zonal Round | 2022 |
| 2   | Mr. Aniruddha Shelke &<br>Ms. Sumaiya Shaikh*                                                                                           | Prediction of Amazon stocks using deep learning (LSTM)                                                                             | Project sent for<br>Avishkar Zonal Round | 2022 |
| 3   | Ms. Sneha Tiwari, Ms. Laxmi<br>Parmar, Ms. Damini Mahajan,<br>Mr. Omkar Singh &<br>Dr A.S. Goswami-Giri*                                | Haircare by ALDOS                                                                                                                  | Project sent for Avishkar<br>Zonal Round | 2022 |
| 4   | Ms. Urja Kudalkar, Mr. Pranav<br>Gohil & Dr. Ujjwala Gokhe*                                                                             | Rover Guider for Visually<br>Challenged                                                                                            | Project sent for Avishkar<br>Zonal Round | 2022 |
| 5   | Ms. Kavita Gowda, Ms. Seema<br>Choudhary,Ms. Pritee Chaurasia<br>& Ms. Sayali Daptardar*                                                | Vertical Hydroponics for Green<br>Infrastructure and Sustainable<br>Development                                                    | Project sent for Avishkar<br>Zonal Round | 2022 |
| 6   | Ms. Vrushali Manjrekar,<br>Ms. Utkarsha Mhatre,<br>Ms. Vaishnavi Belose, Ms. Pranoti<br>Joshi, Mr. Mohd Khan &<br>Ms. Meetali Chinnkar* | Mosquito larvicidal and ovicidal<br>activity of Delonix elata and<br>Pithecolobium dulce plant<br>extracts: a synergistic approach | Project sent for Avishkar<br>Zonal Round | 2022 |
| 7   | Ms. Akanksha Bamane,<br>Ms. Isha Shendye &<br>Ms. Sayali Daptardar*                                                                     | Screen-time to Tech-free<br>time: A switch must<br>for healthier life                                                              | Project sent for Avishkar<br>Zonal Round | 2022 |

| 8  | Ms. Sayali Malvankar,<br>Ms. Komal Rai &<br>Dr. Jayashree Pawar*.                                     | Milk testing kit at your<br>doorstep (Paper based device<br>to test keeping quality)                                           | Project sent for Avishkar<br>Zonal Round | 2022 |
|----|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------|
| 9  | Mr. Omkar Barve &<br>Dr. Kalpita Mulye*                                                               | Probable Plastic Biodegradation<br>by Novel Gut-microflora of Weevil                                                           | Project sent for Avishkar<br>Zonal Round | 2022 |
| 10 | Ms. Shrunoti Joshi &<br>Ms. Zahera Momin*                                                             | Utilize Musa acuminate-Banana<br>pseudo stem to make Xylitol<br>fatty ester- A potential ingredient                            | Project sent for Avishkar<br>Zonal Round | 2022 |
| 11 | Ms. Kinnari Londhe &<br>Dr. Moses Kolet*                                                              | Compulsory Training in Disaster<br>Management and Accident<br>Mitigation Measures for Youth:<br>A step towards Nation Building | Project sent for Avishkar<br>Zonal Round | 2022 |
| 12 | Ms. Shreya Nadkarni,<br>Ms. Sakshi Rane &<br>Ms. Sumaiya Shaikh*                                      | Exploratory Data Analysis of<br>Top Five Cryptocurrencies<br>using Python                                                      | Project sent for Avishkar<br>Zonal Round | 2022 |
| 13 | Ms. Harshada Dagale &<br>Dr. Snehal Bhangale*                                                         | Investigation of paste waste management using online questionnaire                                                             | Environmental Project                    | 2022 |
| 14 | Ms. Anisha Paul &<br>Dr. Snehal Bhangale*                                                             | Study of household disposal of unused and expired medicine                                                                     | Environmental Project                    | 2022 |
| 15 | Ms. Mayuri Sonawane &<br>Dr. Snehal Bhangale*                                                         | Review of E-waste management at household level                                                                                | Environmental Project                    | 2022 |
| 16 | Ms. Shikha Singh &<br>Dr. Snehal Bhangale*                                                            | Review of E-waste management at household level                                                                                | Environmental Project                    | 2022 |
| 17 | Ms. Sneha Tiwari, Ms. Laxmi<br>Parmar, Ms. Damini Mahajan,<br>Mr. Omkar Singh &<br>Mr. Aditya Mhatre* | Evaluation of mask safety and disposal                                                                                         | Environmental Project                    | 2022 |
| 18 | Mr. Prashant Jadhav &<br>Mr. Aditya Mhatre*                                                           | Study of importance, usage and disposal of PPE kit during pandemic                                                             | Environmental Project                    | 2022 |
| 19 | Mr. Tanmay Gurav &<br>Mr. Aditya Mhatre*                                                              | Comparative analysis on carbon footprint potentials of household energy consumption                                            | Environmental Project                    | 2022 |
| 20 | Ms. Deepali Thorbole &<br>Ms. Aishwarya Deshmukh*                                                     | Evaluation of feminine hygiene products and their environmental impact                                                         | Environmental Project                    | 2022 |
| 21 | Ms. Simran Patil &<br>Ms. Aishwarya Deshmukh*                                                         | Study on impact of oil and hardware waste generated during vehicle servicing & repairing by garages                            | Environmental Project                    | 2022 |
| 22 | Mr. Sahil Koli &<br>Ms. Aishwarya Deshmukh*                                                           | E-survey on solid waste management                                                                                             | Environmental Project                    | 2022 |
|    | <del>1</del>                                                                                          | •                                                                                                                              | •                                        |      |

| 23 | Ms. Tejal Patil &<br>Ms. Aishwarya Deshmukh*     | Analysis on awareness of electric vehicles and their usage       | Environmental Project | 2022 |
|----|--------------------------------------------------|------------------------------------------------------------------|-----------------------|------|
| 24 | Ms. Neha Tambat &<br>Ms. Saloni Sheth*           | Environmental issues awareness:<br>An overview                   | Environmental Project | 2022 |
| 25 | Ms. Rohini Kurkure &<br>Ms. Saloni Sheth*        | Assessment of impact of over population on resource depletion    | Environmental Project | 2022 |
| 26 | Ms. Afsana Bano Choudhary<br>& Ms. Saloni Sheth* | Overview on need of enviro-<br>education amongst school children | Environmental Project | 2022 |
| 27 | Ms. Shivani Ware &<br>Ms. Saloni Sheth*          | E-investigation of occupational hazards                          | Environmental Project | 2022 |

**University of Mumbai Youth Festival and UDAAN 2021-22:** Entries for participation in all the 15 events were sent up for the University Youth Festival 2021. Our college won two prizes at District Level and one prize at the University UDAAN Festival.

| Entries sent up for Youth Festival | 15 events      |
|------------------------------------|----------------|
| Student Participants               | 15 students    |
| Prizes bagged at District Level    |                |
| On the Spot painting               | Third Position |
| Western Vocal Solo Competition     | Third Position |
| Prize won in UDAAN Festival        |                |
| Short Film Making                  | First Position |

### University of Mumbai Avishkar Research Convention 2021:

| Research Projects sent up for the Convention  Student Participants at Zonal Level | 12 Projects 25 participants |  |  |
|-----------------------------------------------------------------------------------|-----------------------------|--|--|
| Guiding Teachers                                                                  | 12 teachers                 |  |  |
| Three projects selected for University Final Round.                               |                             |  |  |

**Research Paper Presentations by staff and students: Two** students presented research paper as follows:

| No | . Name               | Title                                                       | Event                                                                       | Guiding Teacher        |
|----|----------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------|
| 1  | Ms. Sayali Daptardar | Innovative Trends in Natural and Applied Sciences           | International Conference,<br>Mahatma Gandhi College,<br>Chandrapur          | NA                     |
| 2  | Ms. Sneha K. Tiwari  | Adverse Effect of non-narcotic drug on CNS & visceral organ | International E-conference<br>Mahatma Phule ASC College,<br>panvel; 26/2/22 | Ms. Mohini<br>Kushwaha |

Thirty nine students attended the Inaugural Session and First Day of National Conference on 'Role of Science Communicators in Enhancing Public Engagement with Science and Technology organized by National centre for Science Communicators in association with VPM, Thane, at Maharshi Parshuram College of Engineering, Velneshwar, Dist. Ratnagiri on 25/3/2022.

102 students attended the International Webinar on Laughter Yoga conducted by University of Mumbai, NSS Cell, Univ of Mumbai, SST College and Laughter Yoga International on 8/2/2022. 95 students attended the Awareness Programme on Stem cell registration organized by the University of Mumbai in collaboration with Marrow Donor Registry of India (MDRI) on 22/2/2022.

### Internships by Students

| No. | Name                    | Internship                                                                                                                        | Organization/ Guide                                                        |
|-----|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1   | Mr. Ninad Ardalkar      | Foraging behavior & ecological differences of waders at Thane Creek                                                               | Dr. Raju Kasambe, BNHS                                                     |
| 2   | Mr. Khushal Vaishnav    | Diversity, distribution, threat, importance of snakes and annotation of snake bite mitigation                                     | Dr. Khimanand Balodi                                                       |
| 3   | Mr. Satwik Kotian       | Human wildlife conflict and socio-economic impact and their mitigation measures in tridistrict bordering landscape of Uttarakhand | Dr. Khimanand Balodi                                                       |
| 4   | Mr. Unmesh Paranjape    | Spatial distribution of birds diversity                                                                                           | Dr. Amol Patwardhan,<br>Somaiya Vidyavihar                                 |
| 5   | Mr. Samrat Godambe      | Abundance, habitat preference, behavior and conservation of Indian Giant Squirrel at Matheran hill station, Maharashtra, India    | Dr. Sameer Bajru, BNHS                                                     |
| 6   | Mr. Yash Patel          | Diversity of spider fauna around river<br>Ambika at Vegam village,<br>Navsari, Gujarat                                            | Dr. Ramesh Thummer,<br>Veer Narmad South<br>Gujarat University             |
| 7   | Ms. Purva Chavan        | Understanding captive management and studying animal behaviour                                                                    | Veer Jijamata Bhosale Udyan,<br>Mumbai                                     |
| 8   | Mr. Susmit Bole         | Phansad Bird Count 2021-22 &<br>Intern, Nature Information Centre,                                                                | Phansad Wildlife Sanctuary & Sanjay Gandhi National Park                   |
| 9   | Mr. Abhinav Nair        | Intern, Nature Information Centre,                                                                                                | Sanjay Gandhi National Park                                                |
| 10  | Mr. Nikhil Ghadigaonkar | Air & Noise pollution Monitoring, Vizag<br>Intern, Nature Information Centre,<br>Phansad Bird Count 2021-22                       | EPRI, Thane,<br>Sanjay Gandhi National Park,<br>Phansad Wildlife Sanctuary |
| 11  | Mr. Pratik Chile        | Air & Noise pollution Monitoring, Vizag<br>Intern, Nature Information Centre,<br>Phansad Bird Count 2021-22                       | EPRI, Thane,<br>Sanjay Gandhi National Park,<br>Phansad Wildlife Sanctuary |

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 106 participating students have won 64 prizes in various intercollegiate events; I congratulate them and their guiding teachers.

### Students Excelling in Inter-College Events

| S.No. | Name                            | Inter Collegiate Event                                                                                           | Venue and Date                                                                                    | Achievement                    |
|-------|---------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------|
| 1     | Ms. Nandini Tyagi, SYJC         | Video Making                                                                                                     | IIT Mumbai                                                                                        | Best Presenter<br>Award        |
| 2     | Ms. Nandini Tyagi, SYJC         | Quiz                                                                                                             | IIT Mumbai, 14-15/6/2021                                                                          | All India Winner               |
| 3     | Ms. Bhagyashree Budhiwant, FYJC | Singing, District<br>Level                                                                                       | Youth Wing, Victory<br>Church 1/6/2021                                                            | FIRST Prize                    |
| 4     | Shri Pranav Gohil               | International<br>Convention                                                                                      | International Astronomy<br>and Astrophysics<br>Connvention                                        | BRONZE Medal                   |
| 5     | Ms. Sanika Chavan               | Poster Making                                                                                                    | SIES, Nerul 16/7/21                                                                               | FIRST Prize                    |
| 6     | Shri . Soham Ghume, SYJC        | Short Film Making                                                                                                | BK Birla College 27/7/21                                                                          | SECOND Prize                   |
| 7     | Ms. Aishwarya Khot SYJC         | Elocution                                                                                                        | R. Ruia College 31/7/21                                                                           | SECOND Prize                   |
| 8     | Mr. Shreyas Gharge              | Poster Painting                                                                                                  | Govt. of Maharashtra,<br>National & District AIDS<br>Control Organization                         | Consolation<br>Prize           |
| 9     | Ms. Sakshi Lokhande             | Kick Boxing                                                                                                      | Mumbai Zonal<br>Kick Boxing Tournament<br>21/8/2021                                               | SILVER Medal<br>at Zonal Level |
| 10    | Mr. Yash Thosar                 | State Level Story<br>Telling Competition                                                                         | K.V. Pendharkar College,<br>Dombivali ; supported<br>by University of Mumbai<br>and NCC 10/9/2021 | SECOND Prize                   |
| 11    | Mr. Akshat K. Pandey            | Essay Competition,<br>Hindi Divas                                                                                | B.N. Bandodkar<br>College of Science<br>(Autonomous) 24/9/2021                                    | FIRST Prize                    |
| 12    | Ms. Iqra Naikwadi               | Poetry Competition                                                                                               | St. Teresa's Institute<br>of Education,<br>Mumbai 25/10/2021                                      | SECOND Prize                   |
| 13    | Jr. College                     | Intercollegiate<br>Quiz Contest                                                                                  | District Health Authorities<br>in collaboration with<br>College 20/11/2021                        | THIRD Prize                    |
| 14    | Jr. College                     | Intercollegiate Quiz<br>Contest                                                                                  | District Health Authorities<br>in collaboration<br>with College                                   | Consolation<br>Prize           |
| 15    | Ms. Vedika R. Kochare<br>SYJC   | Pan-India Legal<br>Awareness and Outreach<br>Campaign: Slogan<br>Writing (English) National<br>Level Competition | VPM's TMC Law College<br>& District Legal Services<br>Authority, Thane<br>30/11/2021              | FIRST Prize                    |
| 16    | Ms. Nikita V. Adhalge SYJC      | "                                                                                                                |                                                                                                   | SECOND Prize                   |
| 17    | Ms. Sujal Kumthekar SYJC        | "                                                                                                                |                                                                                                   | THIRD Prize                    |
| 18    | Ms. Poorva R. Pashte SYJC       | —"— (Marathi/ Hindi)                                                                                             | "                                                                                                 | SECOND Prize                   |

| 19    | Ms. Mrunal S. Mutatkar<br>SYJC              | —"— Marathi/ Hindi)                                                            |                                                                             | THIRD Prize            |
|-------|---------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------|
| 20    | Ms. Ketaki Nirbhavne<br>FYBSc Biotechnology | National Competition<br>Writers against<br>Drug Resistance:<br>Article Writing | Amity University<br>(WHO mandate and<br>World Antibiotic<br>Awareness Week) | FIRST Prize            |
| 21    | Ms. Vedika R. Kochare<br>SYJC               | National Slogan<br>Writing Competition                                         | VPM's TMC Law<br>College 10/12/2021                                         | SECOND Prize           |
| 22    | Ms. Poorva Pashte                           | "                                                                              | "                                                                           | THIRD Prize            |
| 23    | Ms. Mrunal S. Mutatkar                      | "                                                                              | "                                                                           | Consolation Prize      |
| 24    | Ms. Nikita V. Adhalge                       |                                                                                |                                                                             | Consolation Prize      |
| 25    | Ms. Gunjali Badkar                          | Photography and<br>Caption Writing                                             | Environment Week<br>10/12/2021                                              | THIRD Prize            |
| 26    | Ms. Bhagyashree Budhiwant, FYJC             | Bible Quiz                                                                     | Youth Wing, Victory<br>Church 10/12/2021                                    | FIRST Prize            |
| 27-31 | 5 students                                  | Intercollege NCC TSC<br>Competition Obstacle<br>Crossing                       | College, 1 Mah<br>BN NCC 13/12/2021                                         | FIRST position         |
| 32-51 | 20 students                                 | Overall Championship                                                           |                                                                             | Championship<br>Trophy |
| 52    | Ms. Nikita T. Veer, FYJC                    | Quiz                                                                           | SIES, Nerul Quiz<br>Competition, 12/12/2021                                 | Award                  |
| 53    | Ms. Sakshi Lokhande<br>SYJC                 | Kick Boxing                                                                    | DSO Kick Boxing<br>Tournament 18/12/2021                                    | SILVER Medal           |
| 54    | Mr. Pratik Pawaskar                         | Photography<br>Competition                                                     | Navo Fest 2021<br>Navodaya Vidyalaya<br>& Jr. College 6/1/2022              | Consolation<br>Prize   |
| 55    | Ms. Vinaya V. Kadwadkar                     | Video Making in Inter<br>College Sxcience<br>Festival Pravah 2021              | B.K. Birla College<br>(Autonomous)<br>5/1/2022                              | THIRD Prize            |
| 56    | Ms Isha Pisal<br>SY Micro                   | Youth Festival                                                                 | On the Spot Painting<br>University of Mumbai<br>11/1/2022                   | THIRD Prize            |
| 57    | Ms. Kaveri Shinde<br>TY Biotech             | Youth Festival<br>Western Vocal Solo                                           | University of Mumbai<br>22/1/2022                                           | THIRD Prize            |
| 58    | Ms. Amruta Thombare<br>FYBSc; NSS           | Elysium Fest Story<br>Writing Competition                                      | Amlani College of<br>Commerce and<br>Economics 17/1/2022                    | FIRST Prize            |
| 59    | Mr. Atharva Sonawane<br>FYBSc; NSS          | Vruksham 22 Fest<br>Meme Competition                                           | K.J. Somaiya College<br>(Autonomous) 20/1/2022                              | FIRST Prize            |
| 60    | Mr. Manas Bhande,<br>NSS                    | Aura Fest Poetry<br>Writing Competition                                        | Ghanashyamdas Jalan<br>College 28/1/2022                                    | FIRST Prize            |

| 61-63 | Ms. Tanvi Padyar<br>Ms, Ruksar Shaikh<br>Ms. Shravani Koli                                                                                          | Inter Colllege<br>Poster Competition               | Bandodkar College and<br>Collector Office Election<br>Section 25/1/2022 | FIRST, SECOND & THIRD Prizes       |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------|------------------------------------|
| 64-66 | Ms. Sanika Temkar<br>Ms. Amruta Thombare<br>Mr. Abhang Devle (NCC)                                                                                  | Inter College Essay<br>Competition (Marathi)       | Bandodkar College and<br>Collector Office Election<br>Section 25/1/2022 | FIRST, SECOND<br>&<br>THIRD Prizes |
| 67-69 | Ms. Ruchita Kadam<br>Ms. Madhuri Zende<br>Ms. Madhavi Kamble                                                                                        | Inter College Essay<br>Competition (English)       | Bandodkar College and<br>Collector Office Election<br>Section 25/1/2022 | FIRST, SECOND & THIRD Prizes       |
| 70    | Ms. Amruta Thombare,<br>NSS, FYBSc                                                                                                                  | Review Writing<br>Asmita Festival 2022             | KJ Somaiya College<br>(Autonomous) 31/1/2022                            | THIRD Prize                        |
| 71    | Ms. Richa Kasar<br>TYBSc, Biochem                                                                                                                   | Bio Mosaic Event Nature<br>Photography Competition | Wilson College<br>(Autonomous) 30/1/2022                                | FIRST Prize                        |
| 72-75 | Team of 4NCC cadets                                                                                                                                 | Debate                                             | Bandodkar College<br>1/2/2022                                           | THIRD Prize                        |
| 76-79 | Team of 4 NSS volunteers                                                                                                                            | Debate                                             | Bandodkar College<br>1/2/2022                                           | Consolation<br>Prize               |
| 80    | Mr. Vikas Yadav NSS                                                                                                                                 | Alcatrazcape<br>Math trix 2022 Fest                | R .Ruia College<br>(Autonomous) 8/2/2022                                | FIRST Prize                        |
| 81    | Ms. Aradhana V. Srivastav<br>(Jr. College)                                                                                                          | Quiz Competition on<br>Impact of 5G                | Sakal, Zoom,<br>Amrita University                                       | SECOND Prize                       |
| 82    | Mr. Atul Singh, TYBSc<br>Botany                                                                                                                     | Poem Writing<br>Competition on<br>Environment      | KLE Society's College<br>of Science and<br>Commerce 15/2/2022           | FIRST Prize                        |
| 83    | Ms. Shravani Koli, NSS,<br>FYBSc                                                                                                                    | Being a Woman isA<br>'Thought' Competition<br>2022 | CCYM's Hashu Advami<br>College of Special<br>Education 8/3/2022         | SECOND Prize                       |
| 84    | Ms. Sanika Temkar<br>(Junior College)                                                                                                               | Azaadi ka Amrit Mahotsav<br>Essay Competition      | Sant Rawool<br>Maharaj College, Kudal,<br>Sindhudurg 8/3/2022           | SECOND Prize                       |
| 85    | Mr. Saurabh I. Singh                                                                                                                                | Azaadi ka Amrit Mahotsav<br>Essay Competition      | Sant Rawool Maharaj<br>College, Kudal,<br>Sindhudurg 8/3/2022           | THIRD Prize                        |
| 86-91 | Ms. Apurva Rathod, FY,<br>Ms. Shruti Kundal, FY,<br>Ms. Masifa Vasgare, FY<br>Ms. Ruba Surve, FY,<br>Mr. Sohit Yadav, FY,<br>Mr. Sitaram Pedini, FY | Short Film Making                                  | University of Mumbai<br>UDAAN Festival,<br>9/3/2022                     | FIRST Prize                        |
| 92    | Ms. Amruta Thombare                                                                                                                                 | Essay Writing                                      | NSS Unit of University of<br>Mumbai & SST College<br>10/3/2022          | FIRST Prize                        |
| 93    | Mr. Mahadev Wakle (NCC<br>Army Boys Unit)                                                                                                           | Firing Competition                                 | Army Firing Range,<br>Colaba, 11/3/2022                                 | Best Firer                         |

| 94<br>95<br>96<br>97<br>98 | Ms. Kasturi Khandekar<br>Ms. Muktai Chavan<br>Mr. Aadarsh S. Ubale<br>Mr. Yash K. Desale<br>Mr. Nachiket | District Art and Culture<br>Programme | Nehru Yuva Kendra,<br>Ministry of Youth Affairs<br>and Sports, 11/3/2022 | Commendation<br>and Trophy |
|----------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------|----------------------------|
| 99                         | Ms. Amruta Thombare                                                                                      | Story Writing                         | A.E. Kalsekar College                                                    | THIRD Prize                |
| 100                        | Mr. Aditya Shinde                                                                                        | Letter Writing                        | SIES College<br>(Autonomous)                                             | FIRST Prize                |
| 101                        | Mr. Rishabh Singh                                                                                        | International Hackathon               | Quantum Computing<br>Hackathon, Abu Dhabi<br>30/3/22-1/4/22              | Audience<br>Choice Award   |
| 102-106                    | 5 Students                                                                                               | Graffiti and Wall<br>Painting         | Satish Pradhan<br>Dnyanasadhana College<br>23/4/2022                     | SECOND Prize               |

Students trained in multi themed Faculty Development Programmes, workshops and training programmes: 1469 students received training in various skills/ activities as follows:

| S.No    | Name                                          | Course/ Training Workshop                                    | Organization                                                                                      |
|---------|-----------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1 2     | Mr. Shubham Rawat SYBSc<br>Ms. Vaishnavi Bura | G.V. Mavlankar Shooting<br>Camp                              | NCC Pune, 20/8/2021-29/8/2021                                                                     |
| 3       | Ms. Ashlesha Bhosale,<br>FYBSc IT             | Advanced Excel                                               | National Skill Development<br>Corporation, Yuva Parivartan,<br>Skill India; 1/6/2021 to 31/8/2021 |
| 4       | Ms. Ashlesha Bhosale,<br>FYBSc IT             | Nanoscience and its<br>Applications                          | Ramsheth Thakur College,<br>12/2/2022                                                             |
| 5       | Mr. Soham Kane,<br>TYBSc Physics              | Workshop on Speech/ Eloqution & Interview Techniques         | University of Mumbai.<br>17/11/2021                                                               |
| 6-9     | 4 students                                    | Leadership Training for NSS                                  | University of Mumbai,<br>17-21/11/2021                                                            |
| 10      | Mr. Aryan S. Channe FYBSc<br>Biotechnology    | Proteomics Advanced Winter<br>School 2021                    | Proteomics ; laboratory, IIT<br>Bombay 8/11/2021 to<br>19/11/2021                                 |
| 11      | Mr. Pranav Gohil, SYBSc                       | International Space Science<br>Course V.I Secured A+ Grading | Indian Astrobiology Research<br>Foundation 5/12/2021                                              |
| 12-40   | 29 Students                                   | Excel course                                                 | Dept. of Botany, 9/11/2021to 17/11/2021                                                           |
| 41-111  | 71 Students                                   | Teach, Earn and Learn (TEL)<br>Course                        | Institute of Chartered<br>Accountants of India (ICAI)<br>6/12/2021 to                             |
| 112-119 | 8 students                                    | Museum Training Activity                                     | Institute of Oriental Study                                                                       |
| 120-190 | 71 students                                   | Teach Earn and Learn (TEL)<br>Course                         | Institute of Chartered<br>Accountants of India                                                    |

| 191-260     | 70 students                            | Disaster Management Course                                              | Jan Kalyan Samiti, Disaster<br>Management Cell, MCGB,<br>Thane Fire Brigade,<br>5/2/2022 to 6/2/2022 |
|-------------|----------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 261-304     | 44 students                            | Course on R-Software                                                    | B.N. Bandodkar College of<br>Science (Autonomous) 8/2/2022<br>to 24/2/2022                           |
| 305-469     | 165 students                           | Suryanamaskar Project                                                   | NCC, NSS, Jan Kalyan Samiti                                                                          |
| 470-638     | 169 students                           | Course on 'Cyber Shield-Cyber<br>Shiksha for Cyber Suraksha'            | Quick Heal Foundation<br>January- February 2022                                                      |
| 639-784     | 145 students                           | Management for Beginners                                                | BNBCS and Dr. V.N. BRIMS                                                                             |
| 785-829     | 45 students                            | Course on Awareness on Banking,<br>Insurance and Online Cyber<br>Frauds | Anubandh Alumni Association<br>15-16 March 2022                                                      |
| 830         | Ms. Ashlesha Bhosale                   | National Intellectual Property<br>Awareness Mission                     | Intellectual Property Office,<br>India 4/3/2022                                                      |
| 831-1287    | 456 students                           | Course on Personal Management                                           | ID, Dr. V.N. BRIMS                                                                                   |
| 1288 - 1289 | Mr. Rohit Rathod,<br>Ms. Sanjana Yadav | NSS University Level Residential<br>Camp                                | University of Mumbai,<br>20-26/3/2022                                                                |
| 1290-1293   | 4 Cadets                               | Rifle Shooting                                                          | US Club, Colaba & AF Station,<br>Kolshet 28-29/3/2022                                                |
| 1294-1296   | 3 cadets                               | Army Attachment C amp at<br>Artillery Centre, Nasik Road                | NCC, 4-18/4/2022                                                                                     |
| 1297-1352   | 56 NSS Volunteers                      | Rain Water Harvesting                                                   | University of Mumbai & SST<br>College, 6/7/2021                                                      |
| 1353-1356   | 4 NSSVolunteers                        | Leadership Training Program                                             | University of Mumbai & SST<br>College, 17-21/11/2021                                                 |
| 1357- 1465  | 109 NSS Volunteers                     | Capacity Building                                                       | University of Mumbai &<br>Cosmopolitan's Valia College,<br>15-18/12/2021                             |
| 1466-1469   | 4 NCC Cadets                           | Army Attachment Camp at<br>Engineers Group, Pune                        | NCC, April 2022                                                                                      |

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

Last academic year's prize distribution ceremony was held in online mode on17/5/2021. Dr. Sudhakar Agarkar was our Chief Guest for the occasion. All academic prizes were distributed. This Acedemic Year's Prize Distribution Ceremony is planned on 10/05/2022.

### Convocation ceremony:

Annual convocation for graduates passed out in first half of 2021 was held on 30/3/2022. Dr. Vijay Bedekar, Chairman, VPM, Thane; Dr. Siddhivianyak Barve, Director, Scientific Research Centre, Vaze-Kelkar College (Autonomous), Mumbai, Dr. Nitin Joshi, Director, Dr. V.N. BRIMS and Prin. Dr. Moses Kolet presided over the function along with members of the Governing Council, Finance Committee, Academic Council, CDC, Heads of Departments, staff, representatives from

the media, alumni, parents and young graduates. All the dignitaries motivated the young graduates and made them aware of their responsibilities and challenges ahead. Shri Sanjay Athavale, President, Anubandh Past Student's Association and Shri Umesh Lalit, Secretary of the alumni association attended the event to motivate the young graduates. This was the first Convocation (Degree Distribution) ceremony after award of autonomy to the college.

### International Women's Day:

District Level celebration of International Women's Day for this Academic Year was organized on 8<sup>th</sup> March 2022 in Thorle Bajirao Peshwe Sabhagruha in collaboration with Joint Director Higher & Technical Education Office, Kokan Region, Panvel, Govt. of Maharashtra, VPM's Joshi-Bedekar College and VPM's TMC law College. Apart from 12 invited women achiever guests, 75(+) women achievers from amongst our staff and students were felicitated on lines of *Azaadi ka Amrit Mahotsav-*75 years of Independence. Events for the collaborative events spread over 3 days were as follows:

| Date     | Event                                                                                                                                  | Venue                   |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 5/3/2022 | Blood Donation Drive by NCC and NSS                                                                                                    | Gymkhana Hall           |
|          | Workshop- Self Defence Training                                                                                                        | Kathyayan Hall          |
| 7/3/2022 | Vriksha Sanvardhan Activity                                                                                                            | College Campus          |
|          | Workshop- 'Shankhanaad: The Auspicious Art of Conch Shell Blowing'                                                                     | Conference Hall         |
|          | Talk on Women Administrators- Challenges in overcoming Psychological Barriers                                                          | Kathyayan Hall          |
|          | Skit on Women Empowerment by NSS volunteers                                                                                            | Kathyayan Hall          |
|          | Invited Lecture: Importance of Diet in Women's Health                                                                                  | Kathyayan Hall          |
| 8/3/2022 | <b>Workshop-</b> Tips on Improvement of Hemoglobin Count Invited Speaker Dr. Soniya Gunay                                              | Patanjali<br>Sabhagriha |
|          | Drive for Donation of Sanitary Napkins to Orphanage by NSS & NCC                                                                       | Maa Niketan             |
|          | Poster Making Competition                                                                                                              | Yoga Kendra             |
|          | On the Spot Poetry Composition Competition                                                                                             | Patanjali Hall          |
|          | Sports for Women                                                                                                                       | Ground                  |
|          | District Level Celebration of (Morning Session) Invited International Women's Day Guests                                               | Kathyayan Hall          |
|          | Dr. Anita Mathews Davis,<br>Senior Consultant, General Medicine, Fortis Hospital, Mulund<br>Mr. Vivek Tamayachikar,<br>Social Activist | 11.30 AM –<br>12.30 PM  |

| International Women's Day Guests                                                    | (Afternoon Session) Invited Peshwe                              | Thorle Bajirao                     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------|
| <b>Brig. (Mrs) S.V. Saraswati,</b> (Online A Deputy Director General, Military Nurs | ,                                                               | Sabhagriha<br>1.00 PM -<br>5.00 PM |
| Guest of Honour                                                                     | Guest of Honour                                                 | 0.001                              |
| <b>Mrs Saroj Warke,</b><br>Entrepreneur, Himedia                                    | Mrs. Jayanti Kulkarni,<br>Former Scientist, BARC                |                                    |
| <b>Dr. Ujwala Bardapurkar,</b><br>President, Indian Medical<br>Association          | Mrs. Smital Yadav,<br>Nb. Tehsildar, Collector Office,<br>Thane |                                    |
| <b>Mrs Belinda George Pereira,</b><br>NGO Karuna Ghar                               | <b>Mrs. Sumedha Bedekar,</b><br>Homemaker & Philanthropist      |                                    |
| <b>Ms. Smita Giri,</b><br>Entrepreneur, Kavya                                       | <b>Dr. Suchitra Naik,</b><br>Principal, Joshi-Bedekar College   |                                    |
| <b>Ms. Sahadevi, M.</b><br>Author                                                   | <b>Dr. Srividhya Jayakumar,</b><br>Principal, TMC law College   |                                    |
| <b>Ms. Srusthi Ankolikar</b><br>TV Script Writer, Reporter                          |                                                                 |                                    |

### List of Women Achievers 2021-22

| No. | Achiever                | Affiliation             | Achievement                         |
|-----|-------------------------|-------------------------|-------------------------------------|
| 1   | Dr. M. Saha             | Vice Principal          | Appointment as Vice-Principal       |
| 2   | Dr. Sangita Meshram     | HOD Physics             | Ph.D Awarded                        |
| 3   | Ms. Minal Wankhede      | HOD, Mathematics        | Successful conduct of WDC, ICC      |
| 4   | Dr. Akanksha Shinde     | Mathematics             | Ph.D Awarded                        |
| 5   | Dr. Vinda Manjramkar    | IQAC coordinator        | 4 Patents, 2 Books, 4 Book Chapters |
| 6   | Dr. Ujjwala Gokhe       | NSS                     | Successful Conduct of NSS           |
| 7   | Dr. Anita Goswami-Giri  | HOD Chemistry           | Thane Gaurav Award                  |
| 8   | Ms. Kadambari Manjrekar | HOD, Library            | Library Development Grants          |
| 9   | Dr Urmila Kumavat       | Faculty, Botany         | Self inspired courses for students  |
| 10  | Ms. Umalakshmi Patne    | Faculty, Mathematics    | Conduct of Alumni Activities        |
| 11  | Mrs. S. Dhakane         | Supervisor, Jr. College | Successful leadership in Pandemic   |
| 12  | Mrs Pimpre              | Jr. College             | Conduct of AYUSH Yoga Course        |
| 13  | Dr. Jayashree Pawar     | HOD, Biotechnology      | Successful National Conference      |
| 14  | Dr. Kalpita Mulye       | HOD, Microbiology       | Successful National Conference      |
| 15  | Ms. Sumaiya Shaikh      | In- Charge, Statistics  | Successful Certificate Course       |

| 6  | Ms. Sayli Daptardar    | In- Charge, Biochem | Research Project                                    |  |
|----|------------------------|---------------------|-----------------------------------------------------|--|
| 17 | Dr. Ashwini Tilak      | Faculty, BT, MB     | Innovation Corner Activities                        |  |
| 18 | Ms. Purvi Shah         | Faculty, BT. MB     | Successful National Conference                      |  |
| 19 | Ms. Judith Talker      | Faculty. BT, MB     | Conduct of Alumni Activities                        |  |
| 20 | Ms. Komal Kadam        | Faculty, HS         | Conduct of Alumni Activities                        |  |
| 21 | Ms. Saloni Sheth       | Faculty, BWCM       | Conduct of Alumni Activities                        |  |
| 22 | Ms. Aishwarya Deshmukh | Faculty, EvS, Bot   | Conduct of Virtual Tour of Campus                   |  |
| 23 | Ms. Snehal Bhangale    | Faculty, EvS        | Conduct of activities for students                  |  |
| 24 | Ms. Zehra Momin        | Faculty, BT,MB      | Conduct of activities for students                  |  |
| 25 | Ms. Priyanka Chavan    | Faculty, Statistics | Successful Certificate Course                       |  |
| 26 | Ms. Vaishali Deshmukh  | Faculty, Statistics | Successful Certificate Course                       |  |
| 27 | Ms. Saba Pangarkar     | Faculty, Statistics | Successful Certificate Course                       |  |
| 28 | Ms. Rucha Khadke       | Faculty, Biochem.   | Successful National Conference                      |  |
| 29 | Ms. Pooja Kanse        | Faculty, Biochem.   | Successful National Conference                      |  |
| 30 | Ms. Meetali Chinnkar   | Faculty, Biochem.   | Successful National Conference                      |  |
| 31 | Ms. Komal Gaikwad      | Faculty, BWCM       | Outdoor learning activities                         |  |
| 32 | Ms. Jagruti Chaugule   | Faculty, BWCM       | Outdoor learning activities                         |  |
| 33 | Dr Rohini Mandhare     | Chemistry           | Outstanding Scientist Award                         |  |
| 34 | Dr. Priya Singh        | Botany              | Mandal Art Event                                    |  |
| 35 | Ms. Madhuri Shiudkar   | Non teaching Staff  | Work improvement strategies                         |  |
| 36 | Ms. Swanandi Rasam     | Non Teaching Staff  | M.Lib.Sc Degree                                     |  |
| 37 | Ms. Muskan Khan        | M.Sc. Alumni        | Winner of University Gold Medal                     |  |
| 38 | Ms. Sameedha Shetye    | TYBSc Human Science | Winner of CII All India Debate                      |  |
| 39 | Ms. Sakshi Lokhande    | SYJC                | Silver Medal in Kick Boxing                         |  |
| 40 | Ms. Vedika R. Kochare  | SYJC                | Prize Winner at National Level                      |  |
| 41 | Ms Nikita V. Adhalge   | SYJC                | Prize Winner at National Level                      |  |
| 42 | Ms. Sujal Kumthekar    | SYJC                | Prize Winner at National Level                      |  |
| 43 | Ms. Poorva R. Pashte   | SYJC                | Prize Winner at National Level                      |  |
| 44 | Ms. Mrunal S. Mutatkar | SYJC                | Prize Winner at National Level                      |  |
| 45 | Ms. Ketaki Nirbhavne   | FY Biotech          | Prize Winner at National Level                      |  |
| 46 | Ms. Nandini Tyagi      | SYJC                | Winner of All India Quiz and Video<br>Making IIT    |  |
| 47 | Ms Isha Pisal          | SYBSc Microbiology  | Prize in University Youth Festival                  |  |
| 48 | Ms. Kaveri Shinde      | TYBSc Biotechnology | Prize in University Youth Festival                  |  |
| 49 | Ms. Ashlesha Bhosale   | FYBSc IT            | Award from Aarine Foundation, Student<br>Leadership |  |
| 50 | Ms. Riddhi Warvatkar   | TYBSc Biotech       | Cultural Leadership                                 |  |
| 51 | Ms. Jai Malbari        | TYBSc Biochem       | Cultural Leadership                                 |  |

| 52 | Ms. Lubdha Waradkar     | TYBSc Human Science | Cultural Leadership            |  |
|----|-------------------------|---------------------|--------------------------------|--|
| 53 | Ms. Gayatri Varekar     | TY Microbiology     | Cultural Leadership            |  |
| 54 | Ms. Surabhi Singh       | TY Mathematics      | Cultural Leadership            |  |
| 55 | Ms. Siddhi Patil        | TY Biotech          | Cultural Leadership            |  |
| 56 | Ms. Shruti Koli         | SY BZ               | Museum Study Group             |  |
| 57 | Ms. Sejal Pawar         | SY BZ               | Museum Study Group             |  |
| 58 | Ms. Janhavi S. Deshmukh | SY BZ               | Student Council                |  |
| 59 | Ms. Misbah Khan         | SY CZ               | Student leadership             |  |
| 60 | Ms. Yogita Bavaskar     | TYBSc               | Student leadership             |  |
| 61 | Ms. Needa Jamadar       | TYBSc               | Student leadership             |  |
| 62 | Ms. Swara Rane          | TYBSc               | Student leadership             |  |
| 63 | Ms. Rutuja Adhav        | TYBSc               | Student leadership             |  |
| 64 | Ms. Shrutika Bedse      | TY Biotech          | Student leadership             |  |
| 65 | Ms. Suparna Karmokar    | SY BZ               | Student leadership             |  |
| 66 | Ms. Aarti Chauhan       | SYCB                | Student leadership             |  |
| 67 | Ms. Kasturi Khandekar   | SYCZ                | Powada Singing                 |  |
| 68 | Ms. Muktai Chavan       | SY Human Science    | Powada Singing                 |  |
| 69 | Ms. Sejal Ghadge        | FY PMS              | NSS                            |  |
| 70 | Ms. Aakanksha Singh     | FY CBZ              | NSS                            |  |
| 71 | Ms. Vrushali Shinde     | SYPMS               | NSS                            |  |
| 72 | Ms. Pratha Maurya       | FY CBZ              | NSS                            |  |
| 73 | Ms. Saraswati Yadav     | FY CBZ              | NSS, Intercollege Prize Winner |  |
| 74 | Ms. Sanika Temkar       | FY Biotech          | Intercollege Prize Winner      |  |
| 75 | Ms.Ruchita Kadam        | FY PCM              | Intercollege Prize Winner      |  |
| 76 | Ms.Madhuri Mahadik      | FY CS               | Intercollege Prize Winner      |  |
| 77 | Ms.Madhavi Kamble       | FYBSc               | Intercollege Prize Winner      |  |
| 78 | Ms.Tanvi Padyar         | SYCB                | Intercollege Prize Winner      |  |
| 79 | Ms.Rukhsar Shaikh       | SYBSc               | Intercollege Prize Winner      |  |
| 80 | Ms.Shravani Koli        | FY PMS              | Intercollege Prize Winner      |  |
| 81 | Ms Sakshi Pisal         | TYBSc               | Student leadership             |  |
| 82 | Ms. Akshata Gitye       | SYCB                | Student leadership             |  |
| 83 | Ms. Karuna Jaiswar      | SYPC                | Student leadership             |  |
| 84 | Ms. Manasi Gaikar       | SY BZ               | Student leadership             |  |
| 85 | Ms. Manasvi Joshi       | SY Biotech          | Student leadership             |  |
| 86 | Ms Sandhya Yadav        | SYCB                | Student leadership             |  |
| 87 | Ms. Kavita Gowda        | SY Biotech          | Intercollege Research Award    |  |
| 88 | Ms. Shruti Pathak       | TY Stats            | Student leadership             |  |

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| 89  | Ms. Laxmi Parmar       | TY Chemistry       | Student leadership                                 |  |
|-----|------------------------|--------------------|----------------------------------------------------|--|
| 90  | Ms. Jui Arolkar        | TY Micro           | Student leadership                                 |  |
| 91  | Ms. Shreya Pabrekar    | TYBSc              | Student leadership                                 |  |
| 92  | Ms. Iqra Naikwadi      | SY BZ              | Intercollege Prize Winner                          |  |
| 93  | Ms. Roshni Khalane     | SYIT               | Intercollege Prize Winner                          |  |
| 94  | Ms. Vibhuti Patil      | SY Micro           | Intercollege Prize Winner                          |  |
| 95  | Ms. Khushbu Yadav      | SY CZ              | Intercollege Prize Winner                          |  |
| 96  | Ms. Vidhi Dicholkar    | SY BZ              | Intercollege Prize Winner                          |  |
| 97  | Ms. Amruta Thombare    | FY PMS             | Intercollege Prize Winner, Review<br>Writing, Meme |  |
| 98  | Ms. Kinnari Londhe     | SY Human Science   | Today's Event, DLLE leadership                     |  |
| 99  | Ms. Shruti Awasarmol   | TY Mathematics     | Today's Event Conducting                           |  |
| 100 | Ms. Khushi Kesarwani   | FY PCM             | Intercollege Prize Winner                          |  |
| 101 | Ms. Sanjana Yadav      | SYMS               | Intercollege Prize Winner                          |  |
| 102 | Ms. Sanika Gaikwad     | FY PMS             | Intercollege Prize Winner                          |  |
| 103 | Ms. Priti Vishwakarma  | SYMS               | Intercollege Prize Winner                          |  |
| 104 | Ms. Pradnya Parab      | Non-Teaching Staff | Office Frontline Workers                           |  |
| 105 | Ms. Prajakta Mayekar   | Non-Teaching Staff | Office Frontline Workers                           |  |
| 106 | Ms. Ashwini Koli       | Non-Teaching Staff | Office Frontline Workers                           |  |
| 107 | Ms. Shamal Kulkarni    | Non-Teaching Staff | Office Frontline Workers                           |  |
| 108 | Ms. Shravani Kudapane  | Non-Teaching Staff | Office Frontline Workers                           |  |
| 109 | Ms Swati Rane          | Non-Teaching Staff | Office Frontline Workers                           |  |
| 110 | Ms. Swati Khakam       | Non-Teaching Staff | Office Frontline Workers                           |  |
| 111 | Ms. Devyani Ladhe      | Non-Teaching Staff | Office Frontline Workers                           |  |
| 112 | Ms. Lalita Patil       | Non-Teaching Staff | Office Frontline Workers                           |  |
| 113 | Ms. Priyanka Koli      | Non-Teaching Staff | Office Frontline Workers                           |  |
| 114 | Ms. Madhura Mate       | FY Biotech         | DLLE Student Manager                               |  |
| 114 | Ms. Vinaya Kadwadkar   | SYJC               | Winner Intercollege ScientificVideo                |  |
| 115 | Ms. Manasi Gadag       | SYIT               | National Cricket Player                            |  |
| 116 | Ms. Aradhana Srivastav | SYJC               | Intercollege Prize Winner                          |  |
| 117 | Ms Aishwarya Khot      | SYJC               | Intercollege Prize Winner                          |  |
| 118 | Mrs. Vaishali Mane     | Junior College     | Technical support for online competition           |  |
| 119 | Mrs Bharti Suryawanshi | Junior College     | Technical support for online competition           |  |
| 120 | Mrs Nilam Thakre       | Junior College     | ICAI TEL Course coordinator                        |  |
| 121 | Darshana Chavan        | Junior College     | VPM Sports Academy                                 |  |
| 122 | Ms. Rupali Nyayadhish  | Junior College     | VPM Sports Academy                                 |  |

| 123 | Dr. Sandhya Pawle    | Junior College      | VPM Sports Academy                       |  |
|-----|----------------------|---------------------|------------------------------------------|--|
| 124 | Mrs Kiran Chaudhari  | Junior College      | Technical support for online competition |  |
| 125 | Mrs Ashwini Parab    | Junior College      | VPM Sports Academy                       |  |
| 126 | Mrs Priti Jambhulkar | Junior College      | PTA Association                          |  |
| 127 | Mrs Shubhangi Gite   | Junior College      | VPM Sports Academy                       |  |
| 128 | Mrrs Zubeida Khan    | Junior College      | VPM Sports Academy                       |  |
| 129 | Ms. Pooja Tripathi   | FYJC                | Intercollege Prize Winner                |  |
| 130 | Ms. Reshma Rathod    | FYJC                | Intercollege Prize Winner                |  |
| 131 | Ms Ayushi Wankhede   | TYBSc               | Student leadership                       |  |
| 132 | Ms. Krushna Tandle   |                     | NSS                                      |  |
| 133 | Ms. Siddhi Patil     | SYBSc Biotechnology | Student leadership                       |  |
| 134 | Ms. Apurva Rathod    | FYBSc               | First Prize, University Udaan Festival   |  |
| 135 | Ms. Shruti Kundal    | FYBSc               | First Prize. University Udaan Festival   |  |
| 136 | Ms. Masifa Vasgare   | FYBSc               | First Prize. University Udaan Festival   |  |
| 137 | Ms. Ruba Surve       | FYBSc               | First Prize. University Udaan Festival   |  |
| 138 | Ms. Sanskriti Khare  | FYBSc               | Patriotic Songs                          |  |
| 139 | Ms. Richa Kasar      | TYBSc Biochemistry  | Intercollege Prize Winner                |  |
| 140 | Ms. Sanjeeda Islam   | SYBSc Biotechnology | Intercollege Research Award              |  |

# New Links Established: One Hundred and Thirty eight new links were established during the year as depicted below:

| No. | Institution/ Organization                  | Nature of Association                                      |  |
|-----|--------------------------------------------|------------------------------------------------------------|--|
| 1   | Ministry of Youth Affairs                  | NCC activities                                             |  |
| 2   | Ministry of Higher and Technical Education | Administrative matters                                     |  |
| 3   | University of Mumbai                       | Administrative matters                                     |  |
| 4   | NSS Cell, University of Mumbai             | Webinar, NSS activities                                    |  |
| 5   | NCC Organization, Maharashtra              | Camps, Joint Training, Haifa Day, 50 Years of 1971 victory |  |
| 6   | NCC Head Quarters, New Delhi               | RD Parade, NCC National Level Camps                        |  |
| 7   | 1 Mah BN NCC, Mumbai                       | NCC Activities                                             |  |
| 8   | Dr. Homi Bhabha State University           | Webinar                                                    |  |
| 9   | Collector Office Thane                     | Offline Motivatioal Event; Competitive Examinations        |  |
| 10  | State Bank of India                        | Webinar                                                    |  |
| 11  | Naushad Ali Sarovar Samvardhini            | Webinar                                                    |  |
| 12  | RUSA Maharashtra                           | Webinar, FDP                                               |  |
| 13  | Ministry of Health, Civil Hospital Thane   | AIDS Awareness Campaign                                    |  |
| 14  | Shree Ambika Yoga Kutir                    | Webinar, Yoga Course for Non Teaching Staff                |  |

| 15 | TATA Motors                                                      | Webinar, CSR Activity                                       |
|----|------------------------------------------------------------------|-------------------------------------------------------------|
| 16 | Institute of Chartersd Accountants of India (ICAI)               | ICAI Examinations, Career Counselling,<br>Online TEL Course |
| 17 | Fit Army Wellness Centre                                         | Webinar                                                     |
| 18 | Dr. Reddy laboratories                                           | Webinar                                                     |
| 19 | Bright Wavz                                                      | Webinar                                                     |
| 20 | Naoroji Godrej Centre for Plant Research,<br>Satara, Maharashtra | Webinar                                                     |
| 21 | JMF's Vande Mataram Degree College                               | Award                                                       |
| 22 | Cyber Sakhi NGO                                                  | Webinar                                                     |
| 23 | Responsible Netisn                                               | Webinar                                                     |
| 24 | Fit India Movement                                               | Fitness Activities                                          |
| 25 | Hon. Balasaheb Jadhav ASC College, Ale,<br>Junnar, Maharashtra   | Webinar                                                     |
| 26 | IIDE                                                             | Webinars                                                    |
| 27 | VPM's Dr. V.N. Bedekar Institute of<br>Management Studies        | Joint conduct of course, Training Workshop,<br>MoU partner  |
| 28 | Maharashtra College, Mumbai                                      | Joint conduct of webinar, MoU partner                       |
| 29 | Mangroves Cell, Govt. of Maharashtra                             | Research Project & Grants                                   |
| 30 | Quick Heal Foundation                                            | MoU partner, Earn and Learn Scheme,<br>Cyber safety course  |
| 31 | Godrej Mangroves, Pirojshah Nagar, Mumbai                        | Wild Life Week                                              |
| 32 | K.V. Pendharkar College (Autonomous)                             | Intercollegiate Competition                                 |
| 33 | R. Ruia College (Autonomous), Mumbai                             | Webinar                                                     |
| 34 | Confederation of Indian Industry CII                             | Interactions, Competitions                                  |
| 35 | Cyber Safety Cell, Maharashtra State                             | Cyber Safety Workshop                                       |
| 36 | Cyber Crime Branch, Thane                                        | Cyber Safety Workshop                                       |
| 37 | The Hindu                                                        | Recognition Award                                           |
| 38 | Cosmopolitan Education Society's Valia<br>Centre of Excellence   | Recognition Award                                           |
| 39 | University of Mauritius                                          | Webinar                                                     |
| 40 | Goa University, Goa                                              | Alumni Activity                                             |
| 41 | MS University, Baroda                                            | Alumni Activity                                             |
| 42 | B.K. Birla College (Autonomous), Kalyan                          | Intercollegiate Competitions, Interactions                  |
| 43 | Max Planck Institute, Germany                                    | Alumni Activity                                             |
| 44 | FORTH Institute of Chemical Engg Sciences,<br>Greece             | Alumni Activity                                             |
| 45 | Mulund Colege of Commerce (Autonomous)                           | Webinar                                                     |
| 46 | NCL, Pune                                                        | Webinar                                                     |

| 47 | IIT, Bombay                                                 | Webinar, Student Summer School                       |  |
|----|-------------------------------------------------------------|------------------------------------------------------|--|
| 48 | Tata Memorial Hospital                                      | Blood Donation Drive                                 |  |
| 49 | St. Xavier's College (Autonomous), Mumbai                   | Interactions                                         |  |
| 50 | Joint Director of Higher Education, Kokan Region            | Academic Meets, Adminnistrative                      |  |
| 51 | R. A. DAV College, Mumbai                                   | Academic Meets, Interactions                         |  |
| 52 | Pillai College of Arts, Commerce and Science                | Academic Meets                                       |  |
| 53 | SIES College (Autonomous), Mumbai                           | Academic Meets, NCC Activities                       |  |
| 54 | R.A. Poddar College, Mumbai                                 | Intercollegiate Competition, Academic Meets          |  |
| 55 | G.M. Momin Women's College, Bhiwandi                        | Guest Faculty                                        |  |
| 56 | R.D. National College, Mumbai                               | Guest Faculty                                        |  |
| 57 | KB College, Thane                                           | Guest Faculty                                        |  |
| 58 | K.J. Somaiya College, Somaiya Vidyavihar,<br>Mumbai         | Academic Meets,                                      |  |
| 59 | R. Ruia College, Mumbai                                     | Academic Meets,                                      |  |
| 60 | Dept. of Student Welfare, University of Mumbai              | Youth Festival, Avishkar                             |  |
| 61 | E-incarnation (NGO)                                         | E-waste Collection Drive                             |  |
| 62 | Indian Railways                                             | Blood Donation Activity                              |  |
| 63 | Rail Kamgar Sena                                            | Blood Donation Drive                                 |  |
| 64 | Sheth NKTT College, Thane                                   | Interactions, Cluster College meets. Guest Faculty   |  |
| 65 | VPM's TMC Law College                                       | Faculty Exchanges, Awareness Rally,<br>Competitions  |  |
| 66 | RTO, Thane                                                  | Road Safety Webinar                                  |  |
| 67 | Traffic Branch, Thane Police                                | Road Safety Webinar                                  |  |
| 68 | Thane Municipal Corporation                                 | Road Safety Webinar                                  |  |
| 69 | Honda Motorcycle & Scooter India Pvt Ltd.                   | Road Safety Webinar                                  |  |
| 70 | Rotaract Club of Smart City Navi Mumbai                     | Webinar                                              |  |
| 71 | VPM's Sports Academy                                        | Professional Sports Coaching                         |  |
| 72 | Aadhyapana, Tamil nadu                                      | NAAC Training Online                                 |  |
| 73 | Deep Films                                                  | Webinar                                              |  |
| 74 | Civil Hospital, Thane                                       | Jointly organized activities, Blood Donation         |  |
| 75 | Nimkar Arts                                                 | Inauguration of State Level Cyber Awareness<br>Drive |  |
| 76 | District Legal Services Authority, Thane,<br>Legal Aid Cell | National Competition                                 |  |
| 77 | Amity University                                            | National Competition                                 |  |
| 78 | Nehru Yuva Kendra                                           | Vijay Divas                                          |  |
| 79 | Budokan Academy                                             | Self Defence, Student-Alumni interaction             |  |

| 80  | Reiki Divine                                                 | Spiritual Healing, Student-Alumni interaction      |  |
|-----|--------------------------------------------------------------|----------------------------------------------------|--|
| 81  | Sutharland                                                   | Placement                                          |  |
| 82  | Orient Technologies                                          | Placement                                          |  |
| 83  | Velox Motors                                                 | Placement                                          |  |
| 84  | ICICI Bank                                                   | Awareness on Bank Frauds and<br>Cyber Security     |  |
| 85  | BUCTU                                                        | Women Empowerment                                  |  |
| 86  | National Centre for Quality Management NCQM                  | Training Sessions and Workshop                     |  |
| 87  | Food and Drug Administration                                 | Awareness Session                                  |  |
| 88  | Dr. Bedekar Vidya Mandir                                     | Webinar                                            |  |
| 89  | Jan Kalyan Samiti , RSS                                      | Surya Namaskar,, Disaster Management<br>Training   |  |
| 90  | National Centre for Science Communication                    | Science day                                        |  |
| 91  | World Yoga Federation & Meditation<br>Alliance International | Student-Alumni interaction                         |  |
| 92  | Thane Fire Brigade                                           | Disaster Management Course                         |  |
| 93  | Disaster management Cell, Municipal<br>Corporation, Mumbai   | Disaster Management Course                         |  |
| 94  | Humane HR Consulting                                         | Student-Alumni interaction                         |  |
| 95  | Coastal and Marine Biodiversity Centre, Airoli               | Students study visit                               |  |
| 96  | Himedia Laboratories                                         | Guest for International Women;s Day<br>Celebration |  |
| 97  | Kavya Enterprises Celebration                                | Guest for International Women;s Day                |  |
| 98  | Dr. Bedekar Hospital, Thane                                  | Guest for International Women;s Day<br>Celebration |  |
| 99  | Council of Senior Scientists                                 | Guest for International Women;s Day<br>Celebration |  |
| 100 | Good Hospital, Bhiwandi                                      | Guest for International Women;s Day<br>Celebration |  |
| 101 | Indian Medical Association                                   | Guest for International Women;s Day<br>Celebration |  |
| 102 | AE Kalsekar College, Mumbra                                  | Inter-college competitions for students            |  |
| 103 | SST College                                                  | Inter-college competitions for students            |  |
| 104 | Wilson College, Mumbai                                       | Event for Principals                               |  |
| 105 | Sant Rawool Maharaj College, Kudal,<br>Sindhudurg            | Inter-college Competition for students             |  |
| 106 | KBP College, Vashi                                           | Staff Training Workshop                            |  |
| 107 | State Bank of India                                          | Guidance Seminar                                   |  |
| 108 | Bank of Baroda                                               | ICAI Examinations                                  |  |

| 109 |                                                            |                              |
|-----|------------------------------------------------------------|------------------------------|
| 1   | Thane Janata Sahakari Bank Ltd.                            | Students Fees- online portal |
|     | Edusolace-online learning centre for competitive exams     | Guidance Seminar             |
| 111 | Naushad Ali Sarovar Samvardhini                            | MoU partner                  |
| 112 | Maharashtra State Angling Association                      | Field Training               |
| 113 | Majhi Vasundhara                                           | Workshop                     |
| 114 | Somaiya Vidyavihar                                         | Internship                   |
| 115 | Bombay Natural History Society BNHS                        | Internship                   |
| 116 | Veer Narmad South Gujarat University                       | Internship                   |
| 117 | Institute for Oriental Research                            | Student visit                |
| 118 | Indian Merchant's Chamber                                  | Competition                  |
|     | Sangamner Nagarpalika Arts, Commerce & Science College     | RUSA FDP                     |
|     | International Astronomy and Astrophysics<br>Edition        | Competition                  |
| 121 | Nair Hospital, Mumbai, Blood Bank                          | Blood Donation               |
| 122 | Civil Hospital Blood Bank, Thane                           | Blood Donation               |
| 123 | Seth GS Medical College & KEM hospital                     | Blood Donation               |
| 124 | Navi Mumbai Students and Youth Foundation                  | NSS Event participation      |
| 125 | Indian Astrobiology Research Foundation                    | Brand Ambassador student     |
| 126 | Water Department, Zilla Parishad, Thane                    | World Water Day Workshop     |
| 127 | Geo-Survey Office, Navi Mumbai                             | World Water Day Workshop     |
| 128 | Water Supply Dept. TMC, Thane                              | World Water Day Workshop     |
|     | Pollution Control Cell, Thane Municipal<br>Corporation     | World Water Day Workshop     |
|     | Thane City TB Control Cell, Thane<br>Municipal Corporation | Workshop on 'TB Free Thane'  |
| 131 | Maharashtra State Faculty Development Academy              | Teacher Training             |
|     | Scientific Research Centre, Kelkar College,<br>Mumbai      | Convocation Address          |
| 133 | Quantum Computing Hackathon, Abu Dhabi                     | International Competition    |
| 134 | Central Institute of Fisheries Education                   | Student visit                |
| 135 | BNN College, Bhiwandi                                      | Alumni Interaction           |
| 136 | Vivek College of Commerce                                  | Proncipals Meet              |
| 137 | Centre of Resource Development for Educators               | Proncipals Meet              |
| 138 | REX Services                                               | Proncipals Meet              |

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

130 eminent personalities visited our college in person during the year as mentioned:

| No. | Eminent Personality   | Designation                                     | Date                    | Occasion                                                       |
|-----|-----------------------|-------------------------------------------------|-------------------------|----------------------------------------------------------------|
| 1   | Shri Rajesh Narvekar  | Collector of Thane District                     | 8/9/2021                | Blood Donation Drive                                           |
| 2   | Ms. Renu Agarwal      | NSS District Coordinator                        | 21/9/2021               | Advisory Meeting                                               |
| 3   | Dr Anis Choudhary     | NSS National Award Winner                       | 24/9/2021               | NSS Foundation Day                                             |
| 4   | Ms. Sana Kuwari       | University NSS felicitation holder              | 24/9/2021               | NSS Foundation Day                                             |
| 5   | Col. Vivek Chaudhary  | CO, 1 Mah BN NCC                                | 28/9/2021               | NCC Event                                                      |
| 6   | Col. Vatsa            | CO, 1Mah Girls BN NCC                           | 5/10/2021               | Haifa Day, NCC Camp                                            |
| 7   | Maj. Lovi Sharma      | AO, 1Mah Girls BN NCC                           | 5/10/2021               | Haifa Day, NCC Camp                                            |
| 8   | Adv. Varsha Kolhatkar | Advocate, Motivational Speaker                  | 5/10/2021               | Haifa Day celebration                                          |
| 9   | Ms. Swati Indulkar    | Film maker: Haifa Day film                      | 5/10/2021               | Haifa Day celebration                                          |
| 10  | Dr. Sumedha Bedekar   | Philanthropist                                  | 5/10/2021               | Motivation during<br>NCC camp                                  |
| 11  | Mrs Sandhya Joshi     | Motivational Speaker                            | 5/10/2021               | Motivation during NCC camp                                     |
| 12  | Shri Kankal           | Director, HSC Board                             | 6/10/2021               | Administrative visit                                           |
| 13  | Shri Sanjay Bhalerao  | Nb. Tehsildar, Kalyan                           | 5/11/2021               | Administrative visit                                           |
| 14  | Shri G.C. Saha        | Under Secretary, AIS, New Delhi                 | 13-14/11/21             | Administrative visit                                           |
| 15  | Shri T. Gajanan       | Defence Surveillance Officer                    | 13/11/21                | NCC Motivation                                                 |
| 16  | Shri Sanjay Bhalerao  | Nb. Tehsildar, Kalyan                           | 13-14/11/21             | Administrative visit                                           |
| 17  | Dr. Kailas Pawar      | Civil Surgeon, Thane District                   | 20/11/2021              | Joint Activity                                                 |
| 18  | Ms. Anupama Katkar    | Chairperson, Quick Heal<br>Foundation           | 26/11/2021              | Inauguration of State<br>Level Cyber Safety<br>Awareness Drive |
| 19  | Shri Sanjay Shintre   | Suprintendent of Police<br>(Cyber), Maharashtra | 26/11/2021              |                                                                |
| 20  | Shri Ajay Shirke      | Educationa Representative, QHF                  | 26/11/2021              |                                                                |
| 21  | Shri Nimkar           | Nimkar Arts                                     | 26/11/2021              |                                                                |
| 22  | Ms. Vrishali Patil    | Tehsildar                                       | 26/11/2021              | Voter Awareness Day                                            |
| 23  | Shri Namdeo Bukane    | Chief Security Officer,<br>University of Mumbai | 27/11/2021              | NCC Day Celebration                                            |
| 24  | Dr. Narayan Barse     | HOD, Library & Info Science                     | 27/11/2021              | NCC Day Celebration                                            |
| 25  | Sub. Maj. Raj Kumar   | SM, 1 MAH BN NCC                                | 27/11/2021              | NCC Day Celebration                                            |
| 26  | Capt Ramesh Tope      | Retd Defence Officer                            | 4/12/2021               | Guest Lecture                                                  |
| 28  | Mr. Sanjay Athavale   | National Sports Observer                        | 18/12/2021<br>29/1/2022 | Awareness Lecture<br>Student-Alumni<br>interaction             |

| 28 | Mr. Viju Mane                 | Film Director, Alumni                                                              | 20/12/2021                 | Cultural Event                        |
|----|-------------------------------|------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| 29 | Maj Rohini Shivbalan.         | Activist                                                                           | 21/12/2021                 | Women Empowerment                     |
| 30 | Mr. Gyan Barah                | Head, Risk Containment,<br>ICICI                                                   | 22/12/2021<br>15-16/3/2022 | Cyber Awareness<br>Certificate Course |
| 31 | Mr Santosh Khadagade          | President, National Centre for Quality Management NCQM                             | 23/12/2021                 | Workshop on TQM                       |
| 32 | Mr. Prasad Naik               | Executive Director, NCQM                                                           | 23/12/2021                 | Workshop on TQM                       |
| 33 | Mr. Suresh Deshmukh           | Dy. Commissioner, FDA                                                              | 24/12/2021                 | Consumer Awareness                    |
| 34 | Mr. Gajanan Patil             | Member, FDA Advisory<br>Committee                                                  | 24/12/2021                 | Consumer<br>Awareness                 |
| 35 | Mr. Viju Mane                 | Film Director, Election<br>Ambassador                                              | 25/1/2022                  | Voter's Day Event                     |
| 36 | Ms. M. Mhatre                 | Nb. Tehsildar, 148 Electoral<br>Constituency                                       | 25/1/2022                  | Voter's Day Event                     |
| 37 | Sub. Fakhruddin               | Indian Army                                                                        | 25/1/2022                  | Voter's Day Event                     |
| 38 | Shri Devdutt Kadrekar         | CEO, Humane HR Consulting                                                          | 29/1/2022                  | Student-Alumni<br>interaction         |
| 39 | Mr. Rajendra Lokhande         | Supervisor, Disaster Mgmt Cell,<br>Mumbai                                          | 4/2/2022                   | Disaster Mgmt Course                  |
| 40 | Shri Zalke                    | Fire Chief, Thane                                                                  | 5/2/2022                   | Disaster Mgmt                         |
| 41 | Shri Sandeep<br>Phanasgaonkar | Chief Consultant, CIO Advisory<br>& digital Transformation                         | 5/2/2022                   | Student-Alumni<br>interaction         |
| 42 | Mr. Umesh Lalit               | Research Director, World Yoga<br>Federation & Meditation<br>Alliance International | 12/2/2022                  | Student-Alumni<br>interaction         |
| 43 | Shri. Sanjak Mandlik          | HR Consultant                                                                      | 26/2/2022                  | Student—Alumni interaction            |
| 44 | Mrs. Meghana Sane             | Actor, Author                                                                      | 28/2/2022                  | Marathi Divas                         |
| 45 | Dr. Sudhakar Agarkar          | Dear, VPM's Instituute of International Studies, Scientist                         | 28/2/2022                  | National Science Day                  |
| 46 | Shri Suhas Naik-Satam         | Secretary, National centre for Science Communication                               | 28/2/2022                  | National Science Day                  |
| 47 | Shri Surendra Bapat           | Former HOD, Physics                                                                | 28/2/2022                  | Physics Carnival                      |
| 48 | Ms. Vaishali Mehetre          | Audio Visual Expert                                                                | 28/2/2022                  | National Science Day                  |
| 49 | Mrs. Smital Yadav             | Nb. Tehsildar                                                                      | 8/3/2022                   | Women's Day                           |
| 50 | Dr. Soniya Gunay              | Gynaecologist                                                                      | 8/3/2022                   | Women's Day                           |
| 51 | Dr. Ujwala<br>Bardapurkar     | President, Indian Medical<br>Association                                           | 8/3/2022                   | Women's Day                           |
| 52 | Dr. Jayanti Kulkarni          | Former Scientist, BARC                                                             | 8/3/2022                   | Women's Day                           |
| 53 | Mrs. Sumedha Bedekar          | Philanthropist, Homemaker                                                          | 8/3/2022                   | Women's Day                           |

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| 54 | Mrs. M.Mhatre                | Nb. Tehsildar, Revenue Dept.              | 8/3/2022               | Women's Day                                 |
|----|------------------------------|-------------------------------------------|------------------------|---------------------------------------------|
| 55 | Mrs. Chandrika               | Revenue Official                          | 8/3/2022               | Women's Day                                 |
| 56 | Mrs Srushti Ankolikar        | Script Writer, Reporter                   | 8/3/2022               | Women's Day                                 |
| 57 | Mrs. Smita Giri              | Entrepreneur                              | 8/3/2022               | Women's Day                                 |
| 58 | Mrs. Saroj Warke             | Entrepreneur, Himedia                     | 8/3/2022               | Women's Day                                 |
| 59 | Dr. Srividhya Jayakumar      | Principal, TMC Law College                | 8/3/2022               | Women's Day                                 |
| 60 | Dr. Suchitra Naik            | Principal, Joshi-Bedekar College          | 8/3/2022               | Women's Day                                 |
| 61 | Ms. Sahadevi, M.             | Author                                    | 8/3/2022               | Women's Day                                 |
| 62 | Mrs. Belinda Pereira         | Founder, NGO Karuna Ghar                  | 8/3/2022               | Women's Day                                 |
| 63 | Dr. Jeeven Vichare           | NSS District Coordinator                  | 9/3/2022               | Cultural Events Day                         |
| 64 | Dr. Sushil Shinde            | NSS Official                              |                        |                                             |
| 65 | Mr. Omkar Bolke              | Instagram Influencer                      | 9/3/2022               | Cultural Events Day                         |
| 66 | Mr. Shantanu                 | Instagram Influencer                      | 9/3/2022               | Cultural Events Day                         |
| 67 | Mr. Nikhil                   | Instagram Influencer                      | 9/3/2022               | Cultural Events Day                         |
| 68 | Mr. Tejas Gaikwad            | Instagram Influencer                      | 9/3/2022               | Cultural Events Day                         |
| 69 | Mr. Nilraj                   | Instagram Influencer                      | 9/3/2022               | Cultural Events Day                         |
| 70 | Mr. Prashant Borkar          | NAAC Scholar                              | 10/3/2022              | IQAC Training                               |
| 71 | Shri Shailesh Kasbe          | Media Consultant                          | 12/3/2022              | Library Publication                         |
| 72 | Shri Raejsh Dabholkar        | Press Official, Punya nagari              | 12/3/2022              | Library Publication                         |
| 73 | Dr Mrs Seema Kamble          | Principal, D.D. Vispute College           | 12/3/2022              | Library Publication                         |
| 74 | Shri Uttam Jogdand           | Ex. Chief Manager, BOI                    | 12/3/2022              | Library Publication                         |
| 75 | Ms. Vedashree Davane         | Press Reporter, Tarun Bharat              | 12/3/2022              | Library Publication                         |
| 76 | Shri Abhishek Jadhav         | Graphics Designer                         | 12/3/2022              | Library Publication                         |
| 77 | Shri Santosh Chavan          | BNNMC, Bhivandi                           | 12/3/2022              | Library Publication                         |
| 78 | Shri Kedar Phadke            | Press Official                            | 12/3/2022              | Library Publication                         |
| 79 | Shri Hitendra Mhatre         | ZP, Raigad                                | 12/3/2022              | Library Publication                         |
| 80 | Shri Ashok Amrutsagar        | Ex. Manager, Central Bank                 | 12/3/2022              | Library Publication                         |
| 81 | Mr. Raju Jadhav              | Scientist, TMC                            | 15/3/2022              | Planning of Workshop                        |
| 82 | Mrs Rasika Gupta<br>Sonawane | Manager, SBI                              | 15/3/2022              | Guidance Seminar                            |
| 83 | Dr Pramod Salaskar           | Co President, Maharashtra<br>Nature Park  | 17/3/2022              | Official Visit                              |
| 84 | Shri Rajesh Gadgil           | International Swimmer                     | 19/3/2022              | Sports Event                                |
| 85 | Mrs. Manisha Pradhan         | Sr. Scientist, TMC                        | 21/3/2022<br>22/3/2022 | Planning of Workshop<br>Co-host of Workshop |
| 86 | Dr. Vinay S. Nikam,          | Prop.Envirocon Urban Hydro<br>Environment | 22/3/22                | Workshop on World<br>Water Day              |
| 87 | Shri M.A. Shaikh             | Water Department, ZP                      | "                      |                                             |
|    |                              |                                           |                        |                                             |

| 88  | Shri Raju Jadhav                  | Scientist, TMC                                               |           |                                                |
|-----|-----------------------------------|--------------------------------------------------------------|-----------|------------------------------------------------|
| 89  | Mrs. Anita Gajbhiye               | Director, District Legal Services                            |           |                                                |
| 90  | Mrs. Mrunali Lokhande             | Scientist, Geo Survey Office                                 |           |                                                |
| 91  | Shri Vinod Pawar                  | Dy. City Engineer, Thane                                     |           |                                                |
| 92  | Shri Atul Kulkarni                | Executive Engineer, TMC                                      |           |                                                |
| 93  | Shri Akash Jagtap                 | Pollution Control Dept, TMC                                  |           |                                                |
| 94  | Dr. Prasad Patil                  | Health Officer, TMC and<br>Alumnus                           | 24/3/2022 | 'TB Free Thane'<br>Workshop on World<br>TB Day |
| 95  | Dr. Amruta Baviskar               | Pediatrician, TMC                                            |           |                                                |
| 96  | Mr. Adhar Kulkarni                | Health Official, TMC                                         |           |                                                |
| 97  | Mr. Sanjay Pawar                  |                                                              |           |                                                |
| 98  | Dr. Anuja Giri                    | Activity Partner with TMC                                    |           |                                                |
| 99  | Ms. Karuna Chaudhari              | Health Official, TMC                                         |           |                                                |
| 100 | Prof Dr. Siddhivinayak<br>Barve   | Director, Scientific Research<br>Centre, Vaze Kelkar College | 30/3/2022 | Convocation                                    |
| 101 | Dr. Nitin Joshi                   | Director, Dr. V.N. BRIMS                                     |           |                                                |
| 102 | Dr. Vijay Bedekar                 | Chairman, VPM, Thane                                         |           |                                                |
| 103 | Dr. Sudhakar Agarkar              | Dean, VPM's Academy of Intl Studies                          | 1/4/2022  | Staff Interaction                              |
| 104 | Dr. Satish Desai                  | Certified Civil Engineer, UK                                 |           |                                                |
| 105 | Dr. Sanjay Jagtap                 | Jt. Director, HE. Konkan Region                              | 9/4/2022  | CAS                                            |
| 106 | Prin Dr. Anil Patil               | Principal, JSM College, Alibag                               |           |                                                |
| 107 | Prin. Dr. Chaitali<br>Chakraborty | Principal, Thakur College                                    |           |                                                |
| 108 | Prin Dr. Chaya Panse              | Principal. MD College                                        |           |                                                |
| 109 | Prin Dr. Rahul Jadhav             |                                                              |           |                                                |
| 110 | Prin. Dr. Kokane                  | I/C Principal, Khopoli                                       |           |                                                |
| 111 | Prof. Dr. Jessy Pius              | IQAC Coordinator, Ruia College                               |           |                                                |
| 112 | Prof. Dr. Sakshi Chaubal          | Sr. Faculty, Dr. Homi<br>Bhabha State Univ.                  |           |                                                |
| 113 | Prof. Dr Gayatri Barabde          | Sr. Faculty, Dr. Homi Bhabha<br>State Univ                   |           |                                                |
| 114 | Prof. Dr. Ramesh Yamgar           | Patkar College                                               |           | "                                              |
| 115 | Prof Dr. Varsha Andhare           | Faculty                                                      |           |                                                |
| 116 | Prof. Dr. Suvarna Rawal           | BNN college, Bhiwandi                                        |           |                                                |
| 117 | Dr. Dilip Maske                   | Ruparel College, Mumbai                                      |           |                                                |
| 118 | Dr. Rajesh Kamble                 | University Faculty                                           |           |                                                |

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| 119 | Dr. Shivam Garje   | University of Mumbai                     |           |                                      |
|-----|--------------------|------------------------------------------|-----------|--------------------------------------|
| 120 | Dr. Abhay Sawant   | Faculty                                  |           |                                      |
| 121 | Dr. Anna Anthony   | Faculty                                  |           |                                      |
| 122 | Prof Dr Gugale     | Desai College, Pune                      |           |                                      |
| 123 | Prof Dr. Pawar     | Pune                                     |           |                                      |
| 124 | Dr. Khanvilkar     | Khopoli                                  |           |                                      |
| 125 | Dr. Tupare         | Faculty                                  |           |                                      |
| 126 | Shri V.D. Dalvi    | Nb. Tahsildar                            | 10/4/2022 | Administrative work                  |
| 127 | Shri Jagdish Patil | Town Planning Dept.;<br>Collector Office |           |                                      |
| 128 | Shri R.K. Meena    | Under Secretory, UPSC,<br>Govt of India  |           |                                      |
| 129 | Shri Umesh Kamble  | Entrepreneur                             | 18/4/2022 | Certificate Course<br>Inaugural Talk |
| 130 | Dr. Kalpana Jain   | Vice Principal, BNN College              | 22/4/2022 | Alumni Interaction                   |

### Alumni Diary: Alumni updates (2021-22) are as mentioned below:

| No. | Activity                                                         | Date        | Alumni Involved                 |  |  |
|-----|------------------------------------------------------------------|-------------|---------------------------------|--|--|
| I   | Webinars and Events                                              |             |                                 |  |  |
| 1   | Shiv Rajyabhishek Sohala Online                                  | 6/6/2021    | Shri Prasanna Raote (NCC)       |  |  |
| 2   | Webinar on Prawn Farming                                         | 16/7/2021   | Dr. Prasad Karnik, Alumni Asso. |  |  |
| 3   | Webinar on Fit India Campaign                                    | 13/8/2021   | Mr. Dewang Sukhadare (Physics)  |  |  |
| 4   | Inauguration of Mathematics Club                                 | 28/8/2021   | Mr. Shiva Roy (Mathematics)     |  |  |
| 5   | Inauguration of Botany Club                                      | 21/8/2021   | Mr. Rushabh Chaudhari           |  |  |
| 6   | Webinar, International Men's Day                                 | 19/11/2021  | Mr. Pranit Dawale               |  |  |
| 7   | Inauguration of Cultural associationOFFLINE                      | 13/12/2021  | Mrs Swati Sheth                 |  |  |
| 8   | Promotional Cultural Event OFFLINE                               | 20/12/2021  | Mr. Viju Mane and Team          |  |  |
| 9   | NSS volunteer- alumni interaction and Prize Distribution Offline | 24/12/2021  | NSS Alumni                      |  |  |
| 10  | Webinar on My Journey from Thane to Boston                       | 20/2/2022   | Ms. Gayatri Thorat, Botany      |  |  |
| II  | Courses and Workshops                                            |             |                                 |  |  |
| 1   | Peer to Peer Learning (Online)                                   | 21/8/2021   | Alumni Group                    |  |  |
| 2   | Wild Life Week                                                   | 2-6/10/2021 | Mr. Hemant Karkhanis            |  |  |
| 3   | Training in Self Defence                                         | Planned     | Alumni Asso. NSS, NCC units     |  |  |

| III  | Colloquium Lectures conducted by alumni                 |                        |                                        |
|------|---------------------------------------------------------|------------------------|----------------------------------------|
| 1    | Dr. V.N. Bedekar Colloquium Lecture                     | 28/8/2021              | Mr. Samrat Godambe                     |
| 2    | Dr. V.N. Bedekar Colloquium Lecture                     | 8/10/2021              | Mr. Kapil Bhorkar                      |
| 3    | Dr. V.N. Bedekar Colloquium Lecture                     | 18/12/2021             | Mr. Hemant Karkhanis                   |
| IV   | Offline Interaction and Guidance Lectures co            | nducted by alu         | imni                                   |
| 1    | Motivational Lecture                                    | 7/9/2021               | Mr. Rajesh Narvekar                    |
| 2    | Awareness Tips on Self Defence                          | 18/12/2021             | Mr. Sanjay Athavale                    |
| 3    | Practical tips on Facing Interviews of Corporate Sector | 29/1/2022              | Shri Devdutt Kadrekar (NCC)            |
| 4    | Facing interviews of Competitive exams                  | 29/1/2022              | Shri Sanjay Athavale                   |
| 5    | Artifical Learning and Machine Learning                 | 5/2/2022               | Shri Sandeep Phanasgaonkar             |
| 6    | Yoga and Meditation                                     | 12/2/2022              | Shri Umesh Lalit                       |
| 7    | Basic Leadership Traits for Self Development            | 26/2/2022              | Shri Sanjay Mandlik                    |
| 8    | Interaction with Alumni                                 | 22/4/2022              | Dr. Kalpana Jain                       |
| V    | Online Interaction and Guidance Lectures                |                        |                                        |
| 1    | Guidance for Competitive Examinations                   | 4/7/2021               | Mr. Subhash Khatri                     |
| 2    | Guidance on Projects                                    | 11/7/2021              | Shri Nikhil Jain                       |
| 3    | Guidance on Paper Solving                               | 14/7/2021              | Ms. Sai Joshi; Ms. Komal Gavas         |
| 4    | Online Guidance to students                             | 16/7/2021              | Ms. Himadri Kale,<br>Ms. Manali Neman, |
| 5    | Paper solving guidance to students                      | 26/7/2021              | Mr. Shivam Malvankar                   |
| 6    | Joint activity in National Conference                   | 7-8/1/2022             | Biotech and micro Alumni               |
| 7    | Motivational Webinar                                    | 23/1/2022              | Mr. Rohit Chaturvedi                   |
| VI   | Meetings                                                |                        |                                        |
| 1    | NSS Alumni Meet OFFLINE                                 | 24/12/2021             | NSS Alumni                             |
| 2    | Alumni Meeting                                          | 12/3/2022              |                                        |
| 3    | Meetings for Executive Committee                        | 12/3/2022<br>16/3/2022 |                                        |
| VII  | OFFLINE Get Togethers                                   | 22/1/2022<br>26/1/2022 |                                        |
| VIII | Placement Initiatives                                   | 2/3/2022               | IT and CS                              |
| IX   | Department wise Alumni activities                       |                        | Commenced from November 2020           |
| Х    | Alumni Fund Raising Drive in Lockdown                   |                        | Drive is on                            |

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### **SANYUJA 2021-22**)

- Mr. Abhay Marathe our esteemed alumni was appointed as Secretary of Vidya Prasarak Mandal, Thane
- Dr. Mahesh Bedekar won a medal in the rigorous Boston Marathon 2022 and Super 6 medal for his completing 6 major international marathons. He is one of the only 40 Indian citizens who have received this rare honour, up to today..
- Dr Mahesh Bedekar also has taken efforts to establish VPM Sports Academy for progress in sports and fitness
- Ms. Anushree Keni is pursuing higher studies at PG level from Syracuse University, New York
- Ms. Shambhavi Joshi (Microbiology) cleared CAT and is currently pursuing her PG programme in management in IIM Kolkata
- Biotechnology students Ms. Prachi Dumbre and Mr. Hitesh Pareekh cleared GAT B examination with All India Ranking 11 and 75 respectively.
- Mr. Hitesh Pareek also topped the entrance examination of MS University
- Ms. Shambhavi Joshi got summer internship as consultant at Boston Consulting Group,
   She also won the Aditya Birla Scholarship at IIM Kolkata
- Mr. Yuvraj Wankhede wrote his first book titled Virtex: When death rings the bell
- Mr. Ryanston Rodrigues published his first Research paper in International Journal
- 2 alumni cleared SET examination in Chemistry and one got admission in Medical College
- Dr. Ushavati Shetty received the Global Progressive Achievers Award 2022
- Our valued alumni are taken up on all our Boards of Studies constituted under autonomy

The Anubandh Alumni Association Executive Committee having finished its tenure, a fresh committee was constituted in March 2022 as follows:

| No | Name                       | Batch | Designation   |
|----|----------------------------|-------|---------------|
| 1  | Shri Sanjay Athavale       | 1982  | Chairman      |
| 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  | Membar        |
| 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 Dr. D.R. Ambavadekar retired on 31<sup>st</sup> May 2021 after 36 years of service Vice Principal Shri S.G. Bapat retired on 30<sup>th</sup> June 2021 after 36 years of service

# Degree College Endowment Prizes 2019 - 2020 for the Distribution Year 2020 - 2021

| Sr.<br>No. | Name of Awarded                                                                                                                        | Name of the Award<br>Winning Student       | Award Specifications                                                                                                                                                                                                                |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1          | Late Shri Gunakar N. Joshi<br>Smarak Yojana Science<br>Prize of Rs.150/- (Through<br>Past Students' Association).                      | SHAIKH MANTASHA<br>ABDUL MABOOD<br>SHABANA | Being the first in rank amongst the students of this college passing B.Sc.Examination of Mumbai University, April, 2020                                                                                                             |
| 2          | Shri Swami Samarth Prize<br>of Rs. 500 /- (Through<br>Dr. R.P. Athalye & Family).                                                      | SHAIKH MANTASHA<br>ABDUL MABOOD<br>SHABANA | To the student of this college passing TYBSc. Examination of the University securing highest marks in Zoology at FYBSc / SYBSc & TYBSc taken together and who has completed the B.Sc. Degree Course in three years without A.T.K.T. |
| 3          | Shri Swami Samarth Prize<br>of Rs. 500/- (Through<br>Dr. R.P. Athalye & Family).                                                       | KOLHATKAR<br>NACHIKET<br>SUDHIR APARNA     | To be awarded to the student who has secured first prize in Music Competition.                                                                                                                                                      |
| 4          | Shri Dattaram S. Natekar & Mrs. Kamal D. Natekar Thane Science Prize of Rs. 45/- in memory of their son Late Vijay Natekear.           | SHAIKH MANTASHA<br>ABDUL MABOOD<br>SHABANA | Being the first in rank among the students of this college passing B.Sc. Examination, April, 2020                                                                                                                                   |
| 5          | Shri Dattaram S. Natekar &<br>Mrs. Kamal D. Natekar Thane<br>Science Prize of Rs.45/- in<br>memory of their son Late<br>Vijay Natekear | NEMAN MANALI<br>MANGESH ANJALI             | Securing highest marks from<br>amongst Backward Class<br>students of this college passing<br>B.Sc. Examination, April, 2020                                                                                                         |
| 6          | Late Prof. Dr. Mrs. S.S. Borgaonkar<br>Prize of Rs. 270/- (Through Prof.<br>S.K. Borgaonkar).                                          | SHAIKH MANTASHA<br>ABDUL MABOOD<br>SHABANA | To the student of this College passing TYBSc Examination of the University securing highest marks in Zoology.                                                                                                                       |
|            |                                                                                                                                        | Boys NCC (Army Wing)                       |                                                                                                                                                                                                                                     |
| 7          | Late Shri Mandar Suryakant Joshi<br>Prize of Rs. 301/- through<br>Shri S. M. Joshi, Thane.                                             | DEVESH DINESH<br>SHUKLA                    | To be awarded to the best NCC cadet of this college alternately from Boys/Girls NCC (Army Wing) every year.                                                                                                                         |
| 8          | Shri Dhondo Waman Tillu<br>Science Scholarship of<br>Rs.1000/- (Through Vidya<br>Prasarak Mandal, Thane).                              | ADATRAO SHILPA<br>SURESH SUREKHA           | To be awarded to the student studying in Post Graduate Science Class with annual income less than Rs.1,50,000/-As selected by the donor.                                                                                            |

| Late Shri Deepak Ganesh<br>Kokaje Prize of Rs. 270/                                                                                          | MANDRAI ROHAN<br>BHAGWANDAS<br>KSHAMABAI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | To the student of this college passing TYBSc Exam of the University securing highest marks in Physics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Late Shri Bhagwandas Huku<br>Hotchand Keswani Prize of<br>Rs. 270/                                                                           | BHONKAR RUSHIKESH<br>VINOD VIDHYA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | To be awarded to the student of this College securing highest marks in Mathematics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Late Shri Bhoir Himanshu R.<br>Prize of Rs.270/                                                                                              | KHAN SAIMA QAMAR<br>SHAMSUL QAMAR<br>RAHISUNNISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | To be awarded to the student of this College passing T.Y.B.Sc. Exam. securing highest marks in Botany.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Late Smt. Indira Phadake<br>Prize of Rs. 270/- (Through<br>Prof. Mrs. S. M. Phatak)                                                          | KHAN AYESHA<br>HIFZUR REHMAN<br>KHAN SABA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | To be awarded to the student of this College passing TYBSc. Exam. securing highest marks in Statistics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Late Shri. G.R. Patil and<br>Late Smt. S.G. Patil Prize of<br>Rs.580/-(through Ex-Principal<br>Shri. C. G. Patil, Thane)                     | TRIPATHI PRATIBHA<br>RAMPRATAP GAYATRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Being the first in F.Y.B.Sc. in the<br>College Examination in the<br>academic Year 2019 – 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Late Shri. G.R. Patil and<br>Late Smt. S.G. Patil Prize of<br>Rs. 580/- (through Ex-Principal<br>Shri. C.G. Patil, Thane)                    | RODRIGUES RYANSTON<br>JOSEPH REENA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Being the first in S.Y.B.Sc. in the<br>College Examination in the academic<br>Year 2019 – 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Late Shri. G. R. Patil and<br>Late Smt. S.G.Patil Prize of<br>Rs.580/-(through Ex-Principal<br>Shri. C.G. Patil, Thane)                      | SIDRA SABA<br>NOUMAN HASAN<br>ANJUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Being the first in M.Sc.Part - II in the<br>College in the academic year<br>2019 – 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| "Mayuresh and Alpana Past<br>Students Statistics 1984"<br>Prize of Rs. 270/- (Through<br>Past Students Mr. Mayuresh<br>Dhond & Alpana Gupte) | KHAN AYESHA<br>HIFZUR REHMAN<br>KHAN SABA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Being the first in Statistics in<br>T.Y.B.Sc. Examination April 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                              | (Zoology)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Prize of Rs. 1000/- (Through<br>the past students of 1984<br>Batch of this college                                                           | SHAIKH MANTASHA<br>ABDUL MABOOD<br>SHABANA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Prize to be awarded on rotation basis<br>to the toppers of three subjects every<br>year (Mathematics / Statistics /<br>Chemistry / Physics / Zoology /<br>Botany)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                              | (Statistics)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Prize of Rs. 1000/- (Through<br>the past students of 1984<br>Batch of this college                                                           | KHAN AYESHA<br>HIFZUR REHMAN<br>KHAN SABA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Prize to be awarded on rotation basis<br>to the toppers of three subjects every<br>year (Mathematics / Statistics /<br>Chemistry /Physics / Zoology /<br>Botany)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                              | Late Shri Bhagwandas Huku Hotchand Keswani Prize of Rs. 270/  Late Shri Bhoir Himanshu R. Prize of Rs.270/  Late Smt. Indira Phadake Prize of Rs. 270/- (Through Prof. Mrs. S. M. Phatak)  Late Shri. G.R. Patil and Late Smt. S.G. Patil Prize of Rs.580/-(through Ex-Principal Shri. C. G. Patil, Thane)  Late Shri. G.R. Patil and Late Smt. S.G. Patil Prize of Rs.580/- (through Ex-Principal Shri. C.G. Patil, Thane)  Late Shri. G. R. Patil and Late Smt. S.G. Patil Prize of Rs.580/- (through Ex-Principal Shri. C.G. Patil, Thane)  Late Shri. G. R. Patil and Late Smt. S.G.Patil Prize of Rs.580/- (through Ex-Principal Shri. C.G. Patil, Thane)  "Mayuresh and Alpana Past Students Statistics 1984" Prize of Rs. 270/- (Through Past Students Mr. Mayuresh Dhond & Alpana Gupte)  Prize of Rs. 1000/- (Through the past students of 1984 Batch of this college | Kokaje Prize of Rs. 270/  Late Shri Bhagwandas Huku Hotchand Keswani Prize of Rs. 270/  Late Shri Bhoir Himanshu R. Prize of Rs. 270/  Late Shri Bhoir Himanshu R. Prize of Rs. 270/  Late Shri. Indira Phadake Prize of Rs. 270/- (Through Prof. Mrs. S. M. Phatak)  Late Shri. G.R. Patil and Late Smt. S.G. Patil Prize of Rs. 580/- (through Ex-Principal Shri. C. G. Patil, Thane)  Late Shri. G.R. Patil and Late Smt. S.G. Patil Prize of Rs. 580/- (through Ex-Principal Shri. C.G. Patil, Thane)  Late Shri. G.R. Patil and Late Smt. S.G. Patil Prize of Rs. 580/- (through Ex-Principal Shri. C.G. Patil, Thane)  Late Shri. G. R. Patil and Late Smt. S.G. Patil Prize of Rs. 580/- (through Ex-Principal Shri. C.G. Patil, Thane)  Late Shri. G. R. Patil and Late Smt. S.G. Patil Prize of Rs. 580/- (through Ex-Principal Shri. C.G. Patil, Thane)  "Mayuresh and Alpana Past Students Statistics 1984" Prize of Rs. 270/- (Through Past Students Mr. Mayuresh Dhond & Alpana Gupte)  "Mayuresh and Alpana Past Students Mr. Mayuresh Dhond & Alpana Gupte)  (Zoology)  Prize of Rs. 1000/- (Through the past students of 1984 Batch of this college  (Statistics)  KHAN AYESHA HIFZUR REHMAN  KHAN AYESHA HIFZUR REHMAN  KHAN AYESHA HIFZUR REHMAN |

|    |                                                                                                                                          | (Chemistry)                                |                                                                                                                                                                   |
|----|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19 | Prize of Rs. 1000/- (Through<br>the past students of 1984<br>Batch of this college                                                       | YADAV PRIYANKA<br>CHANDRABHAN<br>USHA      | Prize to be awarded on rotation basis<br>to the toppers of three subjects every<br>year (Mathematics / Statistics /<br>Chemistry / Physics / Zoology /<br>Botany) |
| 20 | Ex-Principal Dr. Govind V.<br>Kulkarni Prize of Rs. 2000/-<br>Through Shri Vijay Gopal<br>Kulkarni & Shri Sanjay<br>Gopal Kulkarni (USA) | SHAIKH MANTASHA<br>ABDUL MABOOD<br>SHABANA | To be awarded to 1st in College in T.Y.B.Sc Zoology – 2019 - 20                                                                                                   |
| 21 | Late Shri Gopal V. Kulkarni<br>Prize of Rs.2000/- through<br>Shri Vijay Gopal Kulkarni &<br>Shri Sanjay Gopal Kulkarni<br>(USA)          | SHAIKH MANTASHA<br>ABDUL MABOOD<br>SHABANA | To be awarded to 1st in College<br>among the students of all<br>subjects in T.Y.B.Sc – 2019 -20                                                                   |

# Junior College Endowment Prizes 2019 - 2020 for the Distribution Year 2020 - 2021

| Sr.<br>No. | Name of Awarded                                                                                                                 | Name of the Award<br>Student      | Award Specifications                                                                                                                            |
|------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1          | Dr. V.N. Bedekar Science<br>Prize of Rs.125/- (on behalf of<br>Vidya Prasarak Mandal, Thane).                                   | Mr. Panchal Aniket Gajanan        | Being the First in rank among the<br>students of this College passing HSC<br>Examination of Mumbai Board in<br>February, 2020                   |
| 2          | Late Shri Vasant Ramkrishna<br>Karnik & Smt. Indira V. Karnik<br>Science Prize of Rs. 90/-<br>(Through Shri. Shirish V. Karnik) | Mr. Sherlekar Omkar<br>Sahadev    | Obtaining the Highest Marks at the SSC Examination, March 2020 among the students admitted to this college in FYJC Class.                       |
| 3          | Late Shri Gunakar N. Joshi<br>Smarak Yojana Science Prize<br>of Rs.150/- (through Vidya<br>Prasarak Mandal, Thane)              | Mr. Panchal Aniket Gajanan        | Being the First in rank among the<br>students of this college at the last<br>HSC Examination of Mumbai Board                                    |
| 4          | Late Shri Hanumant Sitaram<br>Dixit Prize of Rs.1000/-<br>(through Prof. M.H. Dixit).                                           | Mr. Kumbhar Chetan<br>Mallikarjun | Obtaining the Highest Marks in<br>Biology among the students of this<br>College passing HSC Exam. of March,<br>2020 of Mumbai Divisional Board. |
| 5          | Late Shri Madhav Govind<br>Deo & Late Smt. Mangalabai<br>Madhav Deo, Thane<br>Prize of Rs. 135/                                 | Mr. Panchal Aniket<br>Gajanan     | To be awarded to the student securing highest marks & ranking 1st in Science Faculty in H.S.C. 2019 - 20                                        |
| 6          | Late Shri Madhav Govind<br>Deo & Late Smt. Mangalabai<br>Madhav Deo, Thane<br>Prize of Rs. 135/                                 | Mr. Panchal Aniket<br>Gajanan     | To be awarded to the student securing highest marks & ranking 1st in Science Faculty in H.S.C. 2019 - 20                                        |
| 7          | Late Mr. Ramchandra Govind<br>Ranade Prize of Rs. 1000/-<br>(Applicable from 2017 to<br>2027 only)                              | Mr. Kamble Anish Sanjay           | Being the First in rank among the<br>students of this College passing<br>F.Y.J.C. Exam of March, 2020                                           |
| 8          | Late Mr. Narayan Ganesh<br>Sathe Prize of Rs. 1000/-<br>(Applicable from 2017 to<br>2027 only)                                  | Ms. Jadhav Pradnya<br>Rajesh      | Obtaining the Highest Marks in<br>Mathematics among the students of<br>this College passing F.Y.J.C. Exam,<br>of March, 2020                    |
| 9          | Late Mr. Ramkrushna Govind<br>Khambete Prize of Rs.1000/-<br>(Applicable from 2019 to<br>2033 only)                             | Mr. Kamble Anish Sanjay           | Being the First in rank among the<br>students of this College passing<br>F.Y.J.C. Exam of March, 2020                                           |

### SANYUJA 2021-22 )~

# 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 M.Sc. (By Research) Programmes in Botany; Chemistry; Environmental Science; Physics; Zoology

# NEW PG PROGRAMMES FROM 2022-23 M.Sc. Programme in DATA SCIENCE M.Sc. Programme in CLINICAL PSYCHOLOGY

#### 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. Moitreyee Saha**Vice Principal
(Degree Aided Section)



Received National Award 'The Excellent Principal'



Mr. Abhijeet Kale Vice Principal (Degree Unaided Section)

### **Our Administration**



Mr. R. V. Lele Vice Principal Junior College



Mrs. Sunita Dhakne
Supervisor
Junior college



**Mr. Chetan Moynak**Office Superintendent



Mr. S. D. Choudhari Senior Clerk

### Superannuation of Staff



Mr. S. G. Bapat
Former Vice-Principal,
Head, Dept. of Physics
Superannuated on 30<sup>th</sup> June 2021

### **Student Council**



Front Row from Left: Dr. Urmila Kumavat (Magazine and Wallpaper Committee), Dr. Ujjwala Gokhe (Programme Officer, NSS), Mr. A.A. Kale (Vice-Principal, Degree Unaided), Dr. Moses Kolet (Principal), Dr. Moitreyee Saha (Vice-Principal, Degree Aided), Mr. R.V. Lele (Vice-Principal, Junior), Lt. Mr. B.S. Dhumale (Associate NCC Officer)

Student Representatives from top left to bottom right: Shreyas Phansekar (Joint Secretary, Magazine Committee), Manas Bhande (Joint Secretary, NSS), Racheet Shinde (Joint Secretary, Cultural Association), SUO Shivam Yadav (Secretary, NCC), Atul Singh (Secretary, Magazine Committee), Janhavi Deshmukh (Joint Secretary, NSS), SGT Sameedha Shetye (NCC Representative), Jaai Malbari (Joint Secretary, Cultural Association), Ashlesha Bhosale (IT Representative), Riddhi Warvatkar (Secretary, Cultural Association), Omkar Vishwakarma (Joint Secretary, NSS), Dhiraj Khade (Secretary, Gymkhana)

### **Staff Achievers**



Dr. Vinda Manjramkar4 Patents Granted,2 Books published



**Dr. A. S. Goswami-Giri** Thane Gaurav Puraskar



Mr. Anil Athawale Thane Gaurav Puraskar, Diploma in School Management



**Dr. Sangita Meshram** Awarded Ph.D in Physics



**Dr. Akanksha Shinde**Awarded Ph.D in Mathematics



**Ms. Darshana Chavan** Medal in Thane Marathon



Ms. Swanandi Rasam Completed M.L.I.Sc



Mr. Shankar Sawant Completed LLB

### **Students Achievers**



Ms. Manasi Gadag
Part of Maharashtra team
which won Second position
at National Level Competition



Ms. Sakshi Lokhande
Silver medal at DSO Kickboxing
Tournament and Silver medal
at Frapper Fort Mumbai Zonal
Kicboxing Tournament



Ms. Samidha Shetye
Winner of CII India
We Want Online
Debate Competition



Mr. Siddhant Pradhan
Winner of CII India
We Want Online
Debate Competition



Mr. Pranav Gohil Bronze Medal in International Astronomy and Astrophysics Competition



Ms. Isha Pisal 3<sup>rd</sup> Rank in on The Spot Painting Competition of 54<sup>th</sup> Youth Festival



Ms. Kaveri Shinde 3<sup>rd</sup> Rank in Western Vocal Solo Competition of 54<sup>th</sup> Youth Festival



Ms. Ashlesha Bhosale Award from Aarine Foundation

### **Our Future Leaders**



JUO Govind Mohan Bohara (Field)



JUO Devesh Dinesh Shukla (Office)



CSM Rohit Keshav Bhadane



CQMS Shreyash Shrikrishna Shelar



Sitaram Ramesh Pedini DLLE Student Manager



Madhura Santosh Mate DLLE Student Manager

### **NSS Leaders**



Rohitsingh Rathod NSS Student Secretary



Manas Bhande NSS Student Jt. Secretary



Omkar Vishwakarma NSS Student Jt. Secretary



Janhavi Deshmukh NSS Student Jt. Secretary



Misbah Khan NSS Student Jt. Secretary

### **Our Toppers**



Abhinav Swaminathan FYJC - 98.67%



Siddhi Gadge SYJC - 97.33%



Muskan Abdul Hamid Khan University Rank and Gold Medal in MSc, EVS

# Our Pride



Rishabh Singh
Won International Hackathon,
Team Event at Abu Dhabi, UAE





Senior Cadet Captain Sujit Yuvraj Thange Represented Maharashtra Directorate in Republic Day Camp 2022 in New Delhi. He was also part of All India Guard of Honour and PM Rally





#### 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, ISO 9001: 2015 Certified, Recipient Of RBNQA Commendation Certificate From IMC, Recipient Of Japan Jannyancha Awards Of Govt. Of Maharashfra, Supported Under - Fist O

Departments of Biotechnology, Microbiology, Biochemistry,
Botany, Human Science & Interdisciplinary Science
In collaboration with

Mycological Society of India Mumbai Unit Organize

National Conference on

# Microbiome: The Story Untold!



7<sup>th</sup> & 8<sup>th</sup> January, 2022 Online Platform: Microsoft Teams Register Here

#### IMPORTANT DATES:

First preparatory workshop

Second preparatory workshop

Last Date for abstract submission

Last date for full length paper submission

National conference

25th September, 2021

10th & 11th December, 2021

4th December, 2021

18th December, 2021

7th & 8th January, 2022

# Conference & Preconference Workshop Reports



### Chief Patron Dr. V. V. Bedekar Chairman, Vidya Prasarak Mandal Convener Dr. Moses Kolet Principal, B N Bandodkar College of Science, Thane Organizing Secretary Dr. Kalpita Mulye Dr. Jayashree Pawar **Organizing Committee** Ms. Sayali Daptardar Ms. Zahera Momin Ms. Purvi Shah Dr. Ashwini Tilak Ms. Judith Talker Ms. Rucha Khadke Ms. Meetali Chinnkar Ms. Pooja Kanse Ms. Neeta More Ms. Komal Kadam. Ms. Supriya Damle Ms. Mohini Kushwaha Dr. Moitreyee Saha Dr. Vinod Jamdadhe Dr. Urmila Kumavat Dr. Vinda Manjramkar

# Report of National Conference on Microbiome - The Story Untold!

Date: 07th - 8th Jan, 2022

The National conference 'Microbiome-The story Untold!' was organised in collaboration with Mycological Society of India, Mumbai unit on 7thand 8thJanuary, 2022, to explore the world of microbiome. Department of Biotechnology and Microbiology, Biochemistry, Human science, Botany and Interdisciplinary Science were the host departments.

Day 1 commenced at 10am. The morning session was hosted by Ms. Meetali Chinnkar, Assistant Professor, Department of Biochemistry. As per the Indian tradition, the conference was inaugurated by lighting the lamp and Saraswati Vandana. Convener of the conference, Dr. Moses Kolet formally welcomed the guests and participants for the Two-day National conference. Organising Secretary, Dr. Jayashree Pawar gave a glimpse of all the activities conducted prior to the Conference. She apprised the audience about the logo competition, poster competition and the two pre- conference workshops conducted by the Department of Biotechnology and Microbiology for acquainting the students to the subject of Microbiome. The proceedings of the conference was officially inaugurated by Dr. Yogesh Shouche.

Keynote speaker of the conference was Dr. Yogesh Shouche, Emeritus scientist NCCS, Pune. He gave insights on the Indian perspective of human Microbiome. He demonstrated how the microbiome diversity varies with diet, age, gender and the shift in Firmicutes/ Bacteroidetes ratio with age, through the comparative studies conducted by his team. He touched upon various aspects of microbiome, and its association with human health suggesting that gut microbiome can be manipulated by changing the diet pattern which in turn may influence the disease condition.

Session II was conducted by Dr. Ashwin Kotnis, Associate professor, Department of Biochemistry, AIIMS, Bhopal. He emphasised on how microbial dysbiosis is responsible for ageing, and wound healing. He discussed the significance of skin microbiome in different dermatological disorders like vitiligo, atopic dermatitis and psoriasis.

Session III was conducted by Dr. Naveen Arora from Department of Environmental Science, Babasaheb Bhimrao Ambedkar University, Lucknow. He demonstrated the role of plant growth promoting Rhizobacteria (PGPRs) in plant growth and management of phytopathogens and plant disease. He presented several studies showing application of PGPR in bioremediation of saline soils in UP. This concluded the morning session.

The afternoon session was hosted by Ms. Rucha Khadke, Assistant Professor, Department of Biochemistry. The first talk which commenced at 2:30 pm and was delivered by Mr. Vishnu Prassodanan PK, a research scholar working under the guidance of Dr. Vineet Sharma. His study revealed the landscape of *Prevotella* species composition in the human gut microbiome and its impact on health in western and non-western population.

The last session of the day was conducted by Dr. Anil Kumar from Gene regulation laboratory, NII. His talk emphasized on the application of microbiome derived metabolites in prognosis and diagnosis of diseases. He also presented the work done in his lab for developing electrochemical/optical sensor to detect a microbiota- derived metabolite TMAO (Trimethlyamine N-oxide) which has been implicated as a biomarker in several types of cancers.

Each of the speakers were introduced by students. The conference was attended by 142 participants including students, faculty of the college, research scholars and delegates from other institutions. Every talk was followed by an elaborate question & answer session. The day 1 received enthusiastic response from the participants.

On 8th January 2022, morning session started with a short video of selected posters which were presented on 9th December 2021, as a part of poster presentation competition. Session moved ahead with oral presentations. There were three oral presentations in this session.

It was then followed by a talk- delivered by Dr. Shilpa Verekar; HOD, CQA, Laboratory Parle Agro Pvt. Ltd. Her topic of presentation was "Mycoflora of keratin enriched soil". She explained about distribution of keratinophilic fungi in Indian soil, Characterization of fungi, Screening of fungi for bioactive metabolites. The lecture was full of knowledge and she answered all the questions of students by giving examples of day-to-day life.

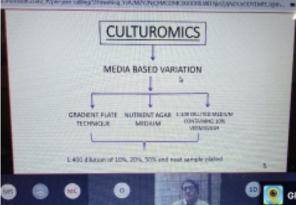
In afternoon session, remaining three oral presentations were conducted followed by valedictory Function. The oral presentations of both the sessions were Judged by Dr. Ashwin Kotnis Associate Professor, Dept. of Biochemistry, AllMS Bhopal and Dr. Lolly Jain Vice principal, K.J. Somaiya College of Science and commerce, Vidyavihar Mumbai. After presentations were over, both the judges guided them for better presentation in future.

The valedictory session of the Conference was delivered by Eminent Speaker Dr. Hemant Purohit former Head, Environmental Biotechnology, Genomics Division, NEERI, CSIR (Nagpur). His topic of presentation was "Microbiome: An unexpected wealth". He talked on Metagenomics approach, Exploration of microbial diversity and its utilization in different domains of human welfare during his lecture. His lecture ended with an extensive question answer session.

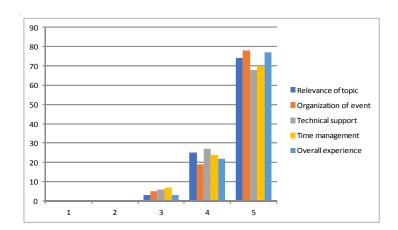
In the valedictory session, results for best poster and Oral presentations were announced. A wonderful presentation was made to make the gathering know these winners. Participants were then requested for their verbal feedback about the two days of the conference. The feedback was given by Dr. (Mr.) Ramjan Mulani and Dr. Damle (former Head of Microbiology Department, Somaiya college). Mr. Ashwin das (student of second year) also shared his experience during feedback session. In the concluding speech Dr. Moses Kolet, Principal and Convener of the conference, expressed his gratitude for all those who made the event successful. Following the standard protocol of the college, he also announced the next conference -that is going to get hosted by Department of Mathematics and Statistics. Total 89 feedbacks were received from participants through Google form.

Finally, the conference was concluded with a formal vote of thanks by Dr. (Mrs.) Kalpita Mulye, Organizing Secretary, Coordinator Department of Microbiology, followed by invoking Pasaydan.





Participants from all over Maharashtra, VPM's B. N. Bandodkar College of Science (Autonomous), Thane; MIT ADT University, Pune; R.J. College of Arts, Science and Commerce, Mumbai; R K Talreja College, Ulhasnagar; K.M.E.Society's G.M.Momin Women's College, Bhivandi; Swami Ramanand Teerth Marathwada University, Nanded; School of Life Sciences, Swami Ramanand Teerth Marathwada University, Nanded attended the conference. The participants gave feedback on five-point scale (1: Satisfactory & 5: Excellent) along with highly encouraging comments.



# First Pre-Conference Workshop for National Conference on 'Microbiome : The Story Untold!'

Department of Biotechnology, Microbiology, Biochemistry, Botany and Interdisciplinary Science, V.P.M's B.N. Bandodkar College of Science, Thane, had organized the first preconference workshop for National Conference on 'Microbiome: The Story Untold!' on 25<sup>th</sup> September, on online platform of Microsoft teams between 3.00-5.00 pm. Total 81 students and 12 faculty members of B. N. Bandodkar College of Science participated in the workshop. Ms. Zahera Momin, Assistant Professor, Department of Biotechnology and Microbiology, compered the event. The event began by reciting Sarasvati Vandana to worship Goddess Sarasvati.

Honorable Principal Dr.Moses Kolet, while addressing the audience, emphasized on the concept of microbiome in various fields and its significance inupcoming research work. Ms. Shruti Gudekar, student of Third Year Biotechnology introduced first speaker of the workshop, Dr. Kalpita Mulye, Head of Department of Microbiology, V.P.M.'s B.N. Bandodkar College of Science. Dr. Kalpita Mulye enlightened the students on the topic 'The Curtain Raiser'. She raised the curiosity of students in the concept of microbiome by initiating the dialogue on evolution and devolution. Various terminologies and concepts related to microbiome were made familiar to the audience. She even shed light on the significance of the microbiome in diverse fields.

The second speaker for the workshop was Dr. Jayashree Pawar, Head of Department of Biotechnology, V.P.M.'s B.N. Bandodkar College of Science, who delivered a talk on '16SrRNA gene analysis: Important tool in microbiome research'. Ms. Shruti Gudekar briefly introduced Dr. Jayashree Pawar. Dr. Jayashree Pawar initiated her talk by introducing the concept of 'The Great Plate Count Anomaly'. She made the audience cognizant about 16SrRNA gene, its significance in microbial typing, process of 16SrRNA gene based microbiome analysis. Pros & Cons of 16SrRNA gene analysis and concept of alpha & beta diversity were also weighed upon.

The audience were amazed with the world of Microbiome. The session has definitely trained the participants so that they are all set to explore the vast ocean of knowledge about Microbiome to be built gradually in theupcoming second preconference workshop and national conference.

Talk was followed by a brainstorming question-answer session. Queries based on intricacies in 16SrRNA gene analysis procedure, criteria of donor selection in FMT, significance of FMT in treatment of Autism, plant related microbiome study and many more were asked.

Ms. Zahera Momin gave the vote of thanks and concluded the session. Feedback of the participants was taken through google form. Feed back was received from 52 female and 12 male participants.

Participants admired the enlightening first preconference workshop. They were also contended with the organization, technical support and time management of the event. Overall a very positive feedback was obtained from the participants for both the session.

# National Conference on 'Microbiome' - The Story Untold (2021-2022)

# Report of Second Pre-conference Workshop "Understanding the tools of trade"

Departments of Biotechnology, Microbiology, Biochemistry, Botany, Human Science and Interdisciplinary science V.P.M.s B.N. Bandodkar College of Science, Thane, had organized the **second pre-conference workshop** "Understanding the tools of trade" for National Conference on 'Microbiome' - The Story Untold on 10<sup>th</sup> and 11<sup>th</sup> December 2021.

The pre-conference workshop was organised with an aim to enable the student to prepare for the conference and equip them with basic understanding of techniques. The Second Pre conference workshop had 3 sessions –

- Session I Unravel the DNA sequence by Ms Purvi Shah.
  - 10th December 2021, 3.00-5.00 pm
- Session II- Essential Bioinformatics by Ms Ashwini Tilak.
  - 11th December 2021, 11.00-1.00 pm
- Session III- Essential Bioinformatics by Ms Judith Talker.
  - 11th December 2021, 3.00-5.00 pm

Ms Mitali Chinaakar, Assistant Professor, Department of Biochemistry, compered the event. The event began welcome by Ms Mitali Chinaakar followed by the Sarasvati Vandana. After the welcome address Dr. Moses Kolet, Principal, V.P.M. s B.N. Bandodkar College of Science, Thane gave his introductory remarks. Sir welcome the participants and gave best wishes to the organising committee for smooth conduction of the event. He also highlighted the importance of these preparatory sessions and motivated students to participate in large numbers.

Dr. Jayeshree Pawar, Organising Secretary briefly explained the conceptualization of the National Conference. Later she elaborated on various themes and gave an overview of all the activities that were organised till date under the umbrella of Microbiome- the Story Untold. Madam mentioned about the Logo Competition, Poster Competition and First Pre conference Workshop.

The first session of workshop 'Unravel the DNA sequence' was taken by Ms Purvi Shah, Assistant Professor Department of Biotechnology and Microbiology. This session began with Introduction of Ms Purvi Shah by Mr Omkar Barve, a TY biotechnology student.

In this session madam explained about the Central Dogma of molecular biology and importance of sequencing 16s rRNA gene in Microbes. She elaborated on the use 16S rRNA gene sequencing is as a tool to identify bacteria at the species level and assist with differentiating between closely related bacterial species. An overview of a timeline on the study of DNA was discussed. She elaborated on the various DNA sequencing methods that are available and continued her session with detailed explanation of the Sanger Sequencing method for understanding the sequence of DNA. Automated DNA sequencing as a Modification of Sanger sequencing which utilizes a fluorescent dye to label the nucleotides instead of a radioactive isotope

was briefly explained. Ms Puri Shah mentioned that Next-Generation Sequencing (NGS) of 16S rRNA gene is now one of the most widely used application to investigate the microbiota. She explained the techniques of Illumina sequencing technology, sequencing by synthesis (SBS), which are widely adopted next-generation sequencing (NGS) technology worldwide. This session concluded with interaction with the participants. **112 Participants attended the session.** 

The second session of workshop "Essential bioinformatics "was taken by Ms Ashwini Tilak, Assistant Professor Department of Biotechnology and Microbiology on 11<sup>th</sup> December 2021 from 11.00am to 1.00 pm. The session began with formal introduction of madam by Ms Komal Rai, TY Biotechnology student.

Ms Ashwini Tilak explained the broad concept of bioinformatics and need for amalgamation of wet lab techniques and virtual tools of data assessment. She mentioned various tools that are widely used today for data analysis. She emphasized on the need to analyse data with more precision and fastness. Madam demonstrated the use of **Basic Local Alignment Search Tool (BLAST)** in nucleotide and protein sequencing. She explained that The Basic Local Alignment Search Tool (BLAST) finds regions of local similarity between sequences. The program compares nucleotide or protein sequences to sequence databases and calculates the statistical significance of matches. Ms Ashwini Tilak stepwise guided the participants to perform sequence alignment and analyse the results. This session concluded with interaction with the participants. **90 Participants attended the session.** 

The third session of workshop "Essential bioinformatics "was taken by Ms Judith Talker, Assistant Professor Department of Biotechnology and Microbiology on 11<sup>th</sup> December 2021 from 3.00pm to 5.00 pm. The session began with formal introduction of madam by Ms Sayali Malvankar, TY Biotechnology student.

Ms Judith Talker focused on Phylogenetic Analysis in the talk. She introduced the participants with concept of phylogenetic as the study of the evolutionary development of a species or a group of organisms or a particular characteristic of an organism. Taking recent example of Covid Outbreak, madam uncovered an otherwise difficult topic with very easy and relatable example. She demonstrated the use of Molecular Evolutionary Genetics Analysis (MEGA) computer software for conducting statistical analysis of molecular evolution and for constructing phylogenetic trees. This session concluded with interaction with the participants. **98 Participants attended the session.** 

The two day pre conference workshop concluded by vote of thanks and concluding remarks from Dr. Kalpita Muley, Organising Secretary.

#### FEEDBACK ANALYSIS -

85% Females and 15% males attended the session. Participants found the overall organisation of the sessions excellent.

#### **OUTCOME OF THE EVENT -**

The speakers introduced the participants to various aspects in the field of MICROBIOME. The main purpose of the pre-conference workshop was to bridge the knowledge gap of students between the theoretical aspects and the current research / industry practices and preparing them for the actual conference. All three speakers from their respective fields added valuable insights to the topic at hand and answered questions posted by participants making it more interactive and fruitful for all students. Overall the pre-conference workshop achieved its intended results and was a success.

# **College Activities**



Examination committee felicitation by Dr. Suchitra Naik, Cluster head, University Exams



Felicitation Award at ICAI Mumbai



Ms. Muskan Khan awarded Gold Medal by Hon'ble Governor of Maharashtra in Convocation of University of Mumbai



Haifa Day Celebration



Flagging of Legal Awareness Rally



Ms. Ashlesha Bhosale received Award from Aarine Foundation



Cyber security awareness with Quick Heal Foundation and Cyber cell,
Maharashtra Police



Mrs. Sadhana Joshi & Mrs. Sumedha Bedekar conducted event on Nationalism & Love for Nation



COVID Vaccination volunteer force



Superitendent of Police Shri Rajesh Shintre addressing student queries on cyber security



50 years of 1971 war: A Victory celebration



Training of IQAC Members at Vaze college, Mumbai

# **College Activities**



Felicitation of students completing R – Software certificate course



Inauguration of street play on cyber safety state wide initiative by Nimkar Arts



Training session for nonteaching staff at Thakur College



Celebration of Rajmata Jijausaheb Bhosle Jayanti



Museum study group with Dr. Bedekar



Dr. Saroj Warake (Co-founder & Director Hi-media) on International Women's Day



Signing MOU with BRIMS



First Alumni Interactive meeting



Felicitation of Girl Students on International Women's Day by Dr. Jayanti Kulkarni



Intercollegiate Debate competition



Felicitation of Winners of Competition held by Legal Aid Cell



Kasturi Khandekar & Muktai Chavan Winner of Powada Singing



Students with Dr. Rohini Shivbalan during event of Women Empowerment



Felicitation of CII National Debate Winner Ms Sameedha Shetye

# **College Activities**



Principal Sir received National award of 'The Excellent Principal'



Visit to VPM's MPCOE Campus, Velneshwar



Late Dr. V. N. Bedekar 18th Memorial Day on 14th April 2022 Commemorative Lecture by Prof. Mayank Vahiya



Distribution of Certificates in Convocation Ceremony by Chief Guest Dr. Vijay Bedekar (Chairman VPM), Guest of Honour Dr. Barve (SRC Director, Mulund) & Special Guest Dr. Joshi (Director, BRIMS)



Principal Sir receiving memento from Mr. Kamalesh Sharma, Secretary MSAA field Station, Powai



# **Gymkhana Activities**

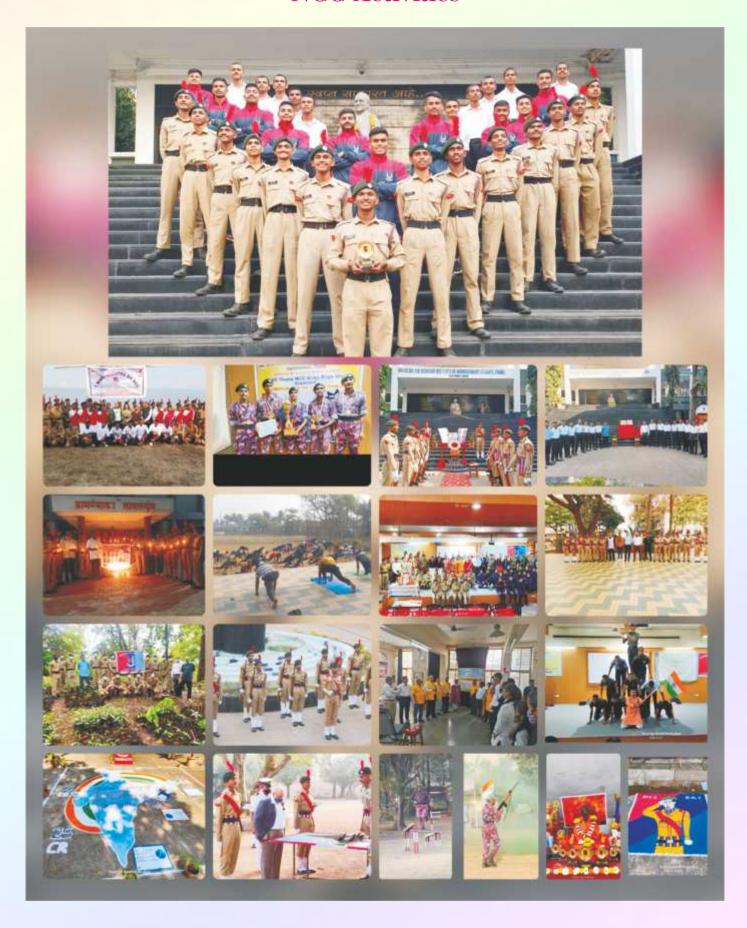




# **Cultural Association Activities**



# **NCC Activities**



# **NSS Activities**



Departmental Reports

## **Department of Biochemistry**

The academic year 2021-22 began in the month of August amidst second wave of pandemic COVID-19. Ms. Sayali Daptardar working in the organization for past eight years was appointed as In-charge of the department. A vacancy in the department was filled in through proper channel and Ms. Meetali Chinnkar was appointed.

In order to comply with the Government norms of pandemic, only online mode of education was continued. Therefore, there was strong need to provide a platform to the students where they would find all the books in the form of their e-copy together. Thus, a digital library was created for students where they could avail all books in the field of life sciences.

Soon after the beginning of academic routine, the teaching staff felt the need to organize a guest lecture on a current topic in the field that would trigger them to explore new avenues in the field. Keeping this in mind, the Jeevika Club of the department was inaugurated by organizing a guest lecture. Dr. Utkarsha Lekhak associated with the department as a subject expert in BOS, was invited to deliver a talk on 'Microbial Bioremediation' on the auspicious occasion on Teachers' Day on 5<sup>th</sup> September 2021. Students were able to learn the different aspects of Microbial Bioremediation in an effective way along with its practical knowledge which would encourage them to pursue higher education in the relevant field of research.

Due to online education during pandemic, the department had remained closed for many months. The occasion of Dusshera was well chosen by department's teaching staff to review and organize the department to have a successful start of the academic year by worshiping goddess Saraswati. The teaching staff also conducted many meetings through online / offline mode to discuss planning and implementation of academic activities.

The department continued organizing Journal and Movie Club activity for students this year. The Movie Club was organized on 9<sup>th</sup> October where students of TYBSc presented a scientific video and elaborated the concept of it to their juniors. The active interaction between students and teachers followed the presentations. 4 groups of T. Y. B. Sc. Students actively participated and presented a movie under the guidance of teachers, Ms. Rucha Khadke & Ms. Pooja Kanse. Ms. Sayali Daptardar & Ms. Meetali Chinnkar judged the event on the basis of Conceptual Understanding, Presentation skills & Ability to answer questions. Maximum students liked the presentation on the topic of 'Cancer Biology'. Students found activity extremely good & they also showed interest in participating in such activities in future.

To make students learn basic and important concepts in food science, the department organized a national level quiz competition 'Food for Thought'; which involved innovative framing of the questions to learn facts in fun way. Over 378 participants from all over India attempted the quiz. This MCQ type Quiz was conducted online and was open to all age groups for participation. The motive of Quiz was to encourage students to look beyond their textual knowledge and learn in an innovative way. Quiz focused on various topics related to food production, processing, safety, management etc. with total four difficulty levels. All the respondents were interested in attending more such events organized by the department. They even appreciated the efforts taken to design such unique quiz.

To remain connected with the alumni, the department also organized an online alumni meet on 20<sup>th</sup> December 2021. Students were nostalgic to share their experiences. They also gave few valuable inputs about the changes they would want to see in the department. Most of the suggestions given included focusing more on exposure to research. The head of the department ensured that their suggestions will be taken into consideration and appropriate steps will be taken.

The department was involved in organizing a National Conference on 'Microbiome: The Story Untold!', jointly with Departments of Biotechnology & Microbiology, Botany, Human Science and Interdisciplinary Science. Under the umbrella of Conference, various events such as Logo competition, Poster competition, two preparatory workshops were organized for students. The teaching staff of the department played a very active role in organizing all these events. The teaching staff of the department was also involved in compering of the actual two-day National Conference on 7<sup>th</sup> & 8<sup>th</sup> January 2022.

The department has always strived hard to cater to the needs of the students. For those who showed their interest in flying abroad for higher studies, a guest lecture 'Udaan: getting ready for the education abroad' was organized by the department. This session was open to all life science students. Ms. Suchitra Surve, Director, Growth Center (I) Pvt. Ltd. was invited to deliver the lecture for the same. Madam gave a holistic view to the students about the exams they need to clear, documents they need to gather for a smooth application process. She also gave few tips for financial planning and time management to students enable them to adapt to the new environment after going abroad. More than 100 participants attended the lecture and were very delighted to have got such broad overview of the topic.

For most of the activities of the department, responsible jobs like brochure making, introducing the chief guests, etc. were allotted to the students, to build their self-confidence and train them for event management skills under the guidance of teachers. Students' leadership committee was established for the same. The teaching staff of the department kept themselves updated in the field by attending various seminars, workshops and faculty development programs. The department also has two international publications to its credit one of which is in UGC approved journal. Not only the teachers, but also the students of the department have made the college feel proud by bagging prizes in various intercollegiate competitions. Ms. Richa Kasar won First Prize in Photography competition held at Biomosaic event of Wilson College, Mumbai while Ms. Gunjali Badkar of TYBSc won third prize in online intercollegiate competition of Photography with caption writing organized by V K Menon College of Commerce & Economics and S S Dighe College of Science, Bhandup, Mumbai. Ms. Suchitra Shirke bagged 2<sup>nd</sup> prize in Essay writing competition at 'Aakanksha Fest' held on 3<sup>rd</sup> October 2021 organized by Cultural Association of VPM's B N Bandodkar college of Science, Thane.

The BOS of the department is actively involved in reframing of syllabus of SYBSc for upcoming academic year. The department also plans to conduct two certificate courses at the end of this academic year. With the enthusiastic young minds at work, the department will surely achieve bigger goals in future.

Ms. Sayali Daptardar In-Charge, Department of Biochemistry

# Department of Biotechnology and Microbiology

The year 2021-22 was marked by on and off lockdown periods amidst the second and third wave of the pandemic and continuation of online activities. Apart from regular online lectures and practical, the department of Biotechnology and Microbiology also organized several lectures this year in student's benefit and also hosted a National Conference with the theme of Microbiome, an emerging field to study the microorganisms ubiquitously present in and around us.

The department frequently organizes activities for student benefit, one of which is preparing the students for competitive exams through guidance sessions. The same trend was continued online during the year 2021-22. At the onset of academic year, Dr. Jayashree Pawar, cocoordinator, Biotechnology conducted a two-day online session for Career Guidance, on 2nd and 3rd July 2021. 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. The session received an enthusiastic response from students of Biotechnology, Microbiology, Botany and Human sciences. They found the activity extremely good and requested to plan such in future too.

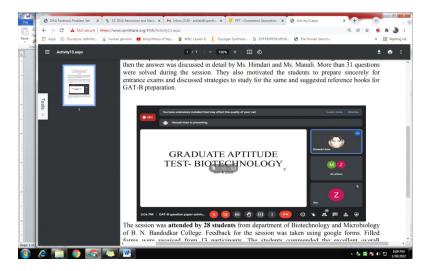
The alumni of the department of the department also participate equally enthusiastically in these guiding sessions. The trend was continued during academic year 2021-22 also. Alumnus Mr. Subhash Khatri, Ph.D. Scholar, TIFR, Mumbai Mr. Subhash Khatri guided the students on 4th July 2021. He explained different aspects of M.Sc. by papers and by research and gave a gist of his current research work in TIFR. Mr. Khatri also gave an insight into life as a Ph.D. scholar and solved several other doubts of the students. He motivated the students to prepare sincerely for entrance exams and discussed strategies to study for the same. He also talked through the interview and SOP stages of selection after clearing the exam.

Ms. Saee Joshi, Ms. Komal Gawas, Ms. Himadri Kale and Ms. Manali Neman, who cleared GAT-B Examination in the year 2020 with good all India ranks and pursuing masters in renowned institutions in India, were invited for guiding the current students with an objective of peer led learning. They discussed each question of the latest GAT-B question paper with the students. The session was very informative, useful and highly appreciated by the students.

Another alumnus of department, Ms. Shivani Malvankar, who is currently pursuing 'MSc Biotechnology' from AllMS, New Delhi, delivered a lecture describing AllMS entrance examination pattern for PG Biotechnology course in detail. She also explained her research work on 'regulatory roles of tRNA derived RNA fragments' and on 'small noncoding RNAs' accomplished during her Masters study. The students were highly impressed with the research idea and the huge amount of work by her.

Online Colloquium Lecture in memory of Late Dr. V. N. Bedekar, Founder of Vidya Prasarak Mandal, Thane was organized on 29th July 2021. Mr. Parvez Kudrolli, Principal Associate, Khurana and Khurana, was the resource person who delivered a lecture on topic 'IPR and patents'. He gave an overview about IPR and its significance in the biological world, covering the explanation about various types of IPR like patents, trademarks and copyrights with the help of robust examples; criteria for patenting, difference between invention and discovery, procedure for filing patent,

importance of patents and its infringement by explicating on specific example of Bluetooth technology developed by Washington Research Foundation. The participants actively interacted with the resource person through their queries about patenting of GMOs, careers in IPR.



The department hosted the "National conference on Microbiome- the story untold!" on 7th and 8th January 2022 along with other departments including Biochemistry, Human Science, Interdisciplinary Science and Botany and in association with Mycological Institute of India Mumbai Chapter. The conference was preceded by two pre-conference workshops, conducted by the teaching staff of the department, to prepare the students for the conference by updating their knowledge related to conference theme. The conference logo was selected by a panel of judges through a logo design competition, which received a response from 64 participants and was won by Isha Pisal, a student of Microbiology department. Poster competition involving students presenting published work on microbiome was organized before the conference. Special session on 'Scientific Poster Making' was also organized by the Department on 23rd November 2021 to guide the students on poster making.

The conference was inaugurated along with release of proceedings following the welcome address by respected Principal Dr. Moses Kolet. Dr. Yogesh Shouche, emeritus scientist from NCCS, Pune, delivered the keynote address on 'Human Microbiome in health and disease- an Indian perspective'. Renowned national level scientists in the field of microbiome research including Dr. Ashwin Kotnis, Dr. Anil Kumar, Dr. Naveen Arora, Dr. Shilpa Verekar, shared their valuable work and views that introduced the audience to contemporary research and enriched them with advancement in the field. Dr. Hemant Purohit gave a comprehensive overview of different aspects of microbiome research in his valedictory address 'Microbiome: an unexplored wealth'. The two knowledge-packed days were thoroughly enjoyed by the participants registered for the conference from several colleges and institutes in India.

**Dr. Jayashree Pawar** Coordinator, Biotechnology

**Dr. Kalpita Mulye** Coordinator, Microbiology

## **Department of Botany**

Academic year 2021-2022 started with an online mode of teaching and continued to present the challenge of connecting students virtually and involving them in productive actions. However, the Department of Botany very well utilized the unprecedented periods of lockdown to achieve curricular and co-curricular excellence. It had been reflected through 100% result for T.Y.B.Sc. students in examination of 2020-2021 and total 08 research articles and one book review published by faculty members and T.Y.B.Sc. students in UGC Care Journal and J-BNB. They are as follows –

- 1. **Deshmukh**, **A. and Saha**, **M. (2021)**. Floral diversity during summer months on Vidyaprasarak Mandal's Jnanadweep Campus, Thane (Maharashtra), India. JBNB, 11:45-60.
- 2. Kolet, M. Islam, S. & Gowda, K. (2021). Analysis of physical, mental and emotional wellbeing of higher education students during pandemic-related lockdown and measures for holistic fitness and resilience. JBNB, 11:73-78.
- 3. Kamble, B., Patil, D., Sor, N., Pabrekar, S., Kumavat, U. and Manjrekar, K. (2021). Use and awareness of social media tools by undergraduate students. JBNB, 11:79-86.
- **4. Bhangale**, **S. and Saha**, **M. (2021)**. In vitro callogenesis and phytochemical screening of leaf and callus of Lawsonia inermis L.: A medicinal plant. JBNB, 11: 87-94.
- **5. Kumavat**, **U. (2021).** Acute hypoglycemic studies of crude drug of *Cassia alata* leaves. International Journal of Creative Research Thoughts, 9 (11): a37 a40.
- **6. Jamdhade**, **V. (2022).** Documentation Of Homeopathic Medicinal Flora From The Navi. GIS Science Journal. 9(1): 564-573.
- 7. **Jamdhade**, V. (2022). Documentation Of Homeopathic Medicinal Flora From The Navi Mumbai Region Of Maharashtra. GIS Science Journal. 9(1): 564-573.
- **8. Jamdhade**, **V. (2022)**. Ethnobotanical Application Of Wild Vegetables From Uran And Panvel Region Maharashtra. GIS Science Journal. 9(1): 574-581.
- 9. Jamdhade, V. (2021). Book Review: Happiness Quotient. JBNB, 11: 1-4.

Vice Principal, Dr. Moitreyee Saha (Head, Dept. Of Botany & Coordinator of Research Committee) jointly organized the International Webinar Series on "The Art of Writing a Research Paper" with Department of Library from 7<sup>th</sup> to 12<sup>th</sup> October 2021. In this webinar series, Dr Urmila Kumavat, (Assistant Professor, Dept, of Botany) delivered guest lecture on "MAPA: A Primary tool to start Literature Survey" (7<sup>th</sup> October 2021) and the "The Art of Writing a Research Paper in Biological Science" (12<sup>th</sup> October 2021). Dr Snehal Bhangale (Assistant Professor, Dept, of Botany) guided students about "The Art of Writing a Research Paper in as per the journal requisite in biological Science" on 12<sup>th</sup> October 2021.

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

#### Theme: 'Student Skill Development'

Plant anatomy diagrams are an indispensable component in understanding of plant sciences. Although students are good at the art of drawing but unable to make scientifically correct

illustrations. Hence a Workshop was organized on 13th August 2021 on 'Enhancement of Skills of Anatomy Diagrams' which was conducted by Dr. Urmila Kumavat. She demonstrated diagram making skill with the help of MS-PowerPoint Presentation and a self made video.

- During the pandemic, students had to submit the project/ assignments through online mode. As they are used to working in groups, writing a report online becomes difficult. On 16<sup>th</sup> August 2021, a Workshop on 'Introduction to Google Doc' was conducted by Dr. Snehal Bhangale. A demonstration-cm-practical session was given on use of Google Doc to upgrade knowledge of students with respect to computational tools.
- Google Classroom serves as the best option for storing all study material in the form of MS-PPT, Notes-PDF, You-Tube links, etc. Dept. of Botany also took initiative to train the F.Y.B.Sc. students about the 'Google Classroom' applications. On 25<sup>th</sup> September 2021, Dr. Urmila Kumavat gave training on joining classroom/s, accessing study materials and giving class tests using links of 'Google Form' or 'Quizzes'.
- On 30<sup>th</sup> August 2021, Department of Botany organized a workshop on 'Home Scale preparation of Jam, Squash and Syrup' in order to develop the entrepreneurial skill of students. Post harvest technology is an important branch of Horticulture and Food Science. At home level, simple preservatives like high concentration of sugar, salt and oil can be used to increase the shelf life and enhance the taste of fruits and vegetables. In this online session, a demonstration of food product recipes (Mango Jam, Squash and Syrup) was given using a video. In addition to detailed procedures of products, students were also guided about setting up a small business and legal licensing required for the same.
- Field trips play a vital role in teaching practical aspects of field work in Botany however; due to the restriction of COVID-19 pandemic, physical field trips were not possible. To overcome this problem and enhance student's knowledge about floral diversity, *a virtual tour* of Vidya Prasarak Mandal's College Campus was conducted by Ms. Aishwarya Deshmukh for T. Y, S.Y. and F.Y.B.Sc. students. During the E-tour, information about dominant trees, herbs, shrubs, annual plants, gymnosperms, pteridophytes and bryophytes in VPM's campus was shared with students. Morphological identifying characters, botanical/ common name and medicinal/ economic uses of plants were the major highlights of this E-Tour.

#### Theme: 'Student Career Development'

➢ It is necessary to create awareness regarding different fields of Botany in which students can pursue careers after graduation. On 22<sup>nd</sup> September 2021, a guiding lecture on the topic of 'Careers in Botany' was conducted by Dr. Snehal Bhangale. The students were briefed about different post graduate courses and various career opportunities available in the field.

On the similar line, on 24<sup>th</sup> September 2021, Dr. Urmila Kumavat conducted a guiding session 'Build Your Career'. Students were briefly introduced to 'Maslow's hierarchy of needs' which was subsequently followed by 'Self analysis Exercise by SWOC'. They were asked to realize their own physical, mental, intellectual and financial potential which can be utilized for creating a bright career.

#### Theme: 'Student Enrichment Programme'

- Late Dr. V.N.Bedekar Colloquium Lecture on 'Plant Based Culture & Products vis-a-vis Pro-Ecological Economy' was arranged on 4<sup>th</sup> September 2021. Dr. Suchandra Dutta (Asst. Professor, Department of Botany, R.D. & S.H. National College, Bandra) was the resource person. She is an internationally renowned personality in the field of plant taxonomy. She presented valuable information on the role of plants in Indian tradition/ rituals, ethnobotany and medicinal applications. She narrated the science involved in usage of medicinal plants during festival times. Another interesting facet of the lecture was plant based economy. She showed beautiful artifacts and tribal artwork pertaining to very common plants like Vetiver, Sabai grass, Kora grass. She discussed the role of plants in making creative bio-jewellery, musical instruments, fruit paintings, carving and wood crafts. It also ignited interest in natural artifacts and plant based entrepreneurship.
- Club Activities The Inauguration of Botany Club 'Srishti 2021 was held on 21st August, 2021. A guest lecture on "The story of a lost tree" was delivered by Mr. Rushabh Chaudhari (Alumnus of Department of Botany). He spoke about his experience of rediscovering the species of Croton which was supposed to be extinct for the past two centuries. He also shared the details about problems related to the identification of a tree and how one can use taxonomy in day-to-day life.

'Green Tea with Botany' was an interactive session organized by Sristhi Club on 4<sup>th</sup> December 2021. It involved interactions of students & fellow senior faculty members of Botany Department with Dr. Moses Kolet, [Principal of VPM's B.N. Bandodkar College of Science (Autonomous), Thane]. Following the felicitation, the students interacted and interviewed Principal Sir – about his dreams, hobbies, interests etc. Sir had shared inspiring stories and interesting experiences regarding his life as a student, NCC cadet and a lecturer. Overall, the session garnered praises for the resource person, theme of interaction, and organization.

This year, the elected Core Student-Members of Srishti Club were as follows - Secretary - Ms. Yogita Bavaskar; Joint Secretary - Ms. Needa Jamadar; Head of Public Relation Team - Ms. Swara Rane; Treasurer - Mr. Anant Sakpal; Head of Technical Committee - Mr. Atul Singh.

The **Journal and Movie Club** 'Curiosity' conducted an online inauguration ceremony on 08<sup>th</sup> September, 2021 by presenting a short documentary titled "Anthropocene: The Age of Humans". The movie was compiled by student-members and Technical Experts. The movie highlighted the current changing climate and the root of the cause i.e human intervention, along with measures for a sustainable future.

This year, the elected Core Student-Members of Curiosity Club were as follows - Secretary – Ms. Shruti Koli; Joint Secretary – Ms. Sejal Pawar; Editor-in-chief - Ms. Suparna Karmokar; Technical Expert - Ms. Aarti Chauhan

#### Theme: Student Support

On 24th June, 2021, an interactive function titled 'Aarambh' was organised by the department for the ex-students (2020-21) and current students (2021-22) of T.Y.B.Sc. Botany. This interaction with the faculty achieved a dual objective of providing motivation and best wishes for newly joined T.Y. students as well as a farewell for the passing out T.Y. Botany batch.

- Induction Lecture On 9th September 2021, Department of Botany was introduced to F.Y.B.Sc. students by Dr. M. Saha (Head, Dept. of Botany and Vice-Principal). She spoke about the establishment, infrastructure, and achievements of teachers and students in the past few years. The session was concluded by screening a short video containing small clips and pictures of activities, flora of VPM campus and field trips conducted by the Department.
- 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 2021 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.

Dr. Moitreyee Saha Vice Principal, Head, Department of Botany

# **Department of Chemistry**

In the first week of academic year 2021-22, the department of Chemistry conducted **bridge/revision lectures** for S.Y. B.Sc. and T.Y.B.Sc. Students on various topics of chemistry so that students cope-up with the current syllabus.

Induction lecture conducted for F.Y. B.Sc. students by the head of the department by Dr. Goswami-Giri by introducing the chemistry subjects and its importance, careers and optional subjects. Various activities conducted by the department as per calendar for the year of 2021-22.

Dr. Goswami-Giri Anita and Dr. Sandeep Kahandal delivered Lectures on- "Safety in Chemical Laboratory" on 26/06/2021 for T.Y.B.Sc Chemistry students. The workshop focused on Potential risks of student's, various safety aspects in the chemical laboratory, including PPE kit, eye washer, shower, and fire extinguishers. In the workshop, awareness of different safety symbols used in the laboratory, GHS, CAS number, and first aid measures were discussed for the prevention of accidents. They also focused on the behavior in the laboratory by the students, handling of chemicals and glassware in the laboratory. Total 56 students and two teachers participated.

Dr. Ajit Bhumkar and Dr. Pralhad Wagh delivered Lectures on- "Carrier in Chemistry" arranged on 26/06/2021 for T.Y. B.Sc. Chemistry students. Chemistry graduate students are having various opportunities to work in the industry as a quality control, R & D and also as a technician. The industry includes food, drugs / pharmaceutical, polymer, textile, leather, electric, instrumentation etc. PG Students Chemistry with NET/SET/GATE followed by concern dept. interviews in the field of research institutes like DRDO, NCL, CSIR with skills are required to acquire good positions. In the Government sectors like Forensic Science department, Food and Drug department, ONGC, RCFL, etc. scientist, lab technician positions etc. chemistry students get a chance to serve. Also opportunities in the field of research like to pursue Ph.D. degree from the various institutes like TIFR, ICT, IITs, CMET, and IISER. In the education sector, the importance of the SET/NET examination requires one to become an Assistant Professor in the chemistry subject. Total 55 students and two teachers participated.

The chemistry club was inaugurated on 20/08/2021. Total 71 students and 07 teachers attended the function.

On December 11, 2021, the movie "The magic of chemistry" screening was initiated. The movie was prepared by Ms.Laxmi permar and Omkar Singh T.Y.B.Sc students. It was all about the facts of chemistry, reality of magic and various applications, role of science and magic behind chemistry. The activity aimed at nurturing young minds of undergraduates in the direction of scientific inquiry of chemistry, through the medium of films and research proceedings in various scientific journals. Total **25 students** and **2 teachers participated** in the club activity.

Parent-Teacher meeting conducted on **08/10/2021** to upgrade and aware the parents regarding their ward progress. Head of the department delivered the information of departmental functioning for the growth of students along with departmental infrastructural facilities, and oriented them to all online activities. **Total T.Y.B.Sc. 93 students S.Y.B.Sc. 86 students and 9 teachers participated.** 

Promotion of research culture and encouraging students to do research, Journal club activity was initiated. In this activity, research manuscripts were read and discussed with T.Y.B.Sc students on 23/10/2021. Total 23 students and 1 teacher participated.

Dr. Anita S.Goswami-Giri and Dr. Sandeep Kahandal granted Minor Research Project Rs. 25000/- each by the University of Mumbai.

On **January 21, 2022**, the movie "Bonding with chemistry" was explored to students where various chemical bonding is explained to the students. T.Y. B.Sc students took initiation for the activity and interacted with the F.Y. and S.Y. students. Teachers were discussing with young minds about scientific inquiry of chemistry. Also explored students for day to day chemistry. Total **64 students and 5 teachers participated** in the activity.

Chemistry Teachers conducted mentor-mentee meetings on 14/11/2021, 10/12/2021, 19/12/2021, 20/12/2021 and 21/12/2021 provided guidance to the students and interacted with them and supported the mentee.

Mr. Shankar Sawant, non teaching staff of Chemistry department received his Law degree from University of Mumbai.

Vaishni Bura (T.Y.B.Sc. Chemistry) NCC students got silver medal and certificate of intergroup Rifle shooting championship under 1MAH naval unit NCC at Pune during the CATC camp from 1September 2021 to 10 September 2021.

Ms. Rubina Samani, M.Sc. students 2018-19 cleared her SET examination.

Alumni meet is also arranged by department on 24/12/2021.

Every year the department conducts a Certificate course on 'Instrumentation and preparation of standard solution' initiated in the Month of January 2022. Workshop on Systematic Enquiry on Scientific Research is started for T.Y. B.Sc. and M.Sc. Chemistry students. The topic of the first lecture was on "Effective Writing of Research Proposal" by Dr. Rohini Mandhare on 08/02/2022 Total 43 students and 04 teachers participated. Second lecture is arranged on "Systematic Writing of Research Manuscript" by Dr. Amol Jadhav on 12/02/2022. The third lecture will be covered on "literature review process "on 14/02/2022.

This year the chemistry department initiated a peer learning process. Hence, virtual training is arranged on - FTIR, UV and centrifuge Chemistry where our PG students initiated training lectures to the M.Sc. and B.Sc. Chemistry students. Ms. Nashra Khan (MSC-II) given virtual training session 1) on UV spectrophotometer. She explained the principle, instrumentation and various applications of UV spectrophotometer, structural evaluation of compounds. **Total 42 students and 2 teachers benefited from the virtual training**. Virtual training session 2) on- FTIR by 1) Ms. Siddhi Shingre (MSC-II) and 2) Ms. Manali Sondhar (MSC-II) on 11/02/2022. **Total 45 students and 02 teachers benefited**. The third Virtual training session is on - Centrifuge by Ms. Shumeela Kupe (MSC-II) will be held on 15/02/2022.

This year the department will be conducting a virtual industrial visit at the end of February 2022 for F.Y. and S.Y. with chemistry combination, T.Y. Chemistry and MSc Chemistry students. The workshop on – Chemdraw will be conducted on 22/02/2022. Departmental festival-Chemophilic will be arranged in the first week of March 2022.

**Dr. Anita Goswami-Giri** Head, Department of Chemistry

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

#### Departmental Activities Conducted during 2021-22

- An online talk on "Introduction to Ecological Modelling" by Mr. Siddique Khan, Alumni of the department, was organized on 1<sup>st</sup> July 2021 to introduce students to the concept of modelling and its application in ecology. The talk was attended by 11 students and 2 staff members.
- An online one-day workshop on "Paper Bag Making" was organized on 12<sup>th</sup> July 2021 on the occasion of World Paper Bag Day. The resource person for the workshop was Mr. Vicky Patil, Assistant professor, Department of Environmental Science. The hands-on training was provided with the technique to make paper bags. The workshop was attended by 23 students and 3 staff members.
- On the occasion of Fish Farmer's Day, i.e. 10<sup>th</sup> July, an online talk on "Prawn Farming" was on organized on 16<sup>th</sup> July 2021 in collaboration with Dept. of Zoology and Alumni Association. The resource person for the event was Dr. Prasad Karnik (Director of EnviroVigil and Vice-President of Paryavaran Dakshata Mandal, Thane). The session was intended to inspire entrepreneur skills into the budding generation and make them acquainted with the knowledge on fishery and aquaculture. The session was attended by 52 students and 3 staff members.
- On the occasion of "World Lion Day" which is celebrated on 10<sup>th</sup> August, an online talk on "Tracking Lions of the Gir Forest" by Dr. Meena Venkatraman, was organized on 10<sup>th</sup> August 2021. The talk was attended by around 42 students and 5 staff members.
- First week of October month is celebrated globally World Wildlife Week. Department of Environmental Science and Department of Biodiversity, Wildlife Conservation and Management in collaboration with Godrej Mangroves organized a 4 day lecture series called "Wildlife Diaries: Let's Explore Wilderness" in the first week of October 2021 (2nd October to 6th October 2021). Two of the departmental Alumni, Mr. Kaushik Koli and Ms. Priya James along with Dr. Amar Deshpande or Godrej Mangroves gave talks in this series. The event was attended by many students, staff, Godrej employees and interested participants.
- On 12<sup>th</sup> October 2021, Dr. Snehal Bhangale, Asstistant professor, Department of Environmental science delivered a lecture on topic 'Writing a research paper as per journal requisite in Biological Sciences" in a five day international webinar series on "Art of writing research paper" organized by Research committee and Department of Library of VPM's B. N. Bandodkar College of Science.
- On the occasion of World wetlands day a webinar titled "Kokan Safari" was organized by in collaboration with Maharashtra College of Arts, Science and Commerce, Mumbai on 2<sup>nd</sup> February 2022. Dr. Sirajuddin Chaugule, Principal, Maharashtra College of Arts, Science and Commerce, Mumbai was the resource person for the webinar.

The online teaching learning method was followed for the academic year 2021-2022. The result of the M.Sc. – II Environmental Science and M.Sc. – II Biodiversity, Wildlife Conservation and Management was 100% with Ms. Khan Muskan (M.Sc. Environmental Science) being awarded the "Envirocare Suresh R. Amrutkar Gold Medal" by University of Mumbai.

During the academic year 2021-2022 Department of Environmental Science and Department of Biodiversity, Wildlife Conservation and Management has published following research papers in JBNB.

- Kolet, M. Islam, S. & Gowda, K. (2021). Analysis of physical, mental and emotional wellbeing of higher education students during pandemic-related lockdown and measures for holistic fitness and resilience. JBNB, 11:73-78.
- **Bhangale, S. and Saha, M. (2021).** In vitro callogenesis and phytochemical screening of leaf and callus of Lawsonia inermis L.: A medicinal plant. JBNB, 11: 87-94.
- Deshmukh, A. and Saha, M. (2021). Floral diversity during summer months on Vidyaprasarak Mandal's Jnanadweep Campus, Thane (Maharashtra), India. JBNB, 11:45-60.





World Wildlife Week Lecture series in collaboration with Godrej Mangroves

Talk on Tracking Lions of Gir Forest by Dr. Meena Venkatraman

Dr. M. J. Kolet
Principal and Co-ordinator,
Dept. of Environmental Science and
Dept. of Biodiversity, Wildlife Conservation and Management

# Department of Human Science and Interdisciplinary Science

Department of Human Science and Interdisciplinary Science collaboratively have started conducting Interactive Saturday Sessions from the academic year 2021-22. Interactive Sessions have been found to be very effective for the personality development of students, and faculty and students seem to enjoy the session. This activity received a positive response from the students and parents. Following is the summary of the sessions conducted.

Department of Human Science and ID organized a Debate competition on Climate Change and it's effects on India between TYBSc and SYBSc Human Science on 31st July 2021 From 6.00 pm to 7.00pm, 32 students attended the session. Department of Human Science under departmental club 'Soham' organized a lecture on 'The Power of Being Positive - Safalta ki Kunji' on 7th August 2021 From 6.00 pm to 7.30pm. 34 students attended the session. Department also organized a lecturte on 'An Equation and a Triangle' on 14th August 2021 between 5.00 pm to 6.30pm. For which 34 students were present. Next, department also organized a program where students presented on different topics like - World's Student Day, World's Handwashing Day, and Biography of Dr. A.P.J. Abdul Kalam on 'The Power of Being Positive - Safalta ki Kunji' on 7th August 2021 From 6.00 pm to 7.30pm. 34 students attended the session. Another session organized by department peer learning and teaching, where T.Y.B.Sc students explained Healthy breakfast recepies to S.Y.B.Sc students, on 21st august 2021 where students attended the session. Department also announces Essay writing & flyer making competition on 2nd October 2021, on occasion of Gandhi Jayanti & Lal Bahadur Shastri Jayanti. Department of Human Science under departmental club 'Soham' organized a lecture on 'Virtual tour of Godrei mangroves on 18th December 2021 From 12.30 pm to 1.30 pm,.34 students attended the session. Department of Human Science organized a lecture Women empowerment on 21st December 2021 From 11.30 am to 1.30 pm. 34students attended the session

Total 17 students of FYBSc reported to have attended 62 webinars, 2 extra certificate coerces, and 5 students reported to have participated in 8 competitions. 14 students of TYBSc have attended more than 158 webinars organized by college and 34 webinars outside of college. 5 students won 7 competitions, and 3 students achieved recognition by clarifying exams. 68 students of SYBSc attended webinars, won 5 competitions and many are part of various committees of the college.

**Scope of Human Science** - Many students of Human Science have been working in various fields such as Management/Marketing, Psychology, Rehabilitation, Environmental/Biodiversity projects, etc.

Apart from the fields mentioned above, Students can make their careers in Hospital administrations, Nutrition & Deities, Banking, Tourism, Forensic Sciences, Economics, Psychology, Sociology, Law, etc.

Dr. Vinda Manjarmkar Co-ordinator, Human Science and Interdisciplinary Science

# **Department of Mathematics**

#### **Guest Lecture On "REVISITING COMPLEX NUMBER"**

On the occasion of National Mathematics Day, Department of Mathematics organized a webinar on 22<sup>nd</sup> December 2021 at 12:00 pm on "Revisiting Complex Number" through Microsoft Teams platform by Dr. Parag Mehta, Assistance Professor, Department of Data Analytics and Digitalization, University of Maastricht, Netherlands.

Dr. Parag Mehta started the lecture by explaining the importance of defining the set of complex numbers in correct manner. He explained the concept of split complex numbers and compared the algebraic and geometric properties in  $\varphi$  and H. He further defined the concept of dual numbers where an infinitesimal generator is used. He explained the procedure of obtaining derivative of a function using the infinitesimal generator. He compared the geometry of all the three type of numbers he explained. At the end he briefly explained the hyper complex number which leads to the area of Clifford Algebra.

Overall, he explained how a small change in definition of  $\mathbb{C}$  lead to different sets with different algebraic and geometric properties. According to him, students should always ask the question "What If" which will lead them to new ideas and concepts as in above case. He told all to learn 'how to wonder' from Shri. Ramanujan on this National Mathematics Day.

After his talk, following students gave PowerPoint presentation on "Life and work of Ramanujan and his contribution and Achievements"

1) Surabhi Singh and 2) Pranav Gohil

Total number of students present were 113.

#### **MATHEMATICS FEST "MATHLETE 2022"**

Mathematics club "Siddhant" organized fest "Mathlete 2022" through Online Mode on Google Meet Platform. The registrations and Content Submissions for different events started from 24<sup>th</sup> January 2022. On different days the competitions were held and students from SY.B.Sc, F.Y. B.Sc, and T.Y. B.Sc participated in various activities and the results were displayed by Experts.

The prize distribution event of "Mathlete 2022" was organized on 31st January 2022 from 3 PM to 5 PM. The event was inaugurated by Principal Dr. Moses Kolet. He inaugurated event by saying that Mathematics is incredibly important in our life and how we are using the Mathematical concept and logic in our day-to-day life followed by a very Interesting Event "KON BANEGA MR/MS MATHLETE". Many participants participated in this competition and ANIKET VERMA from T.Y.B.Sc. Statistics won the title of Mr. Mathlete of the year 2022. In between the event, inspiring Stories were shared by T.Y.B.Sc. Mathematics Student Saurabh Singh. Then Game leaders shared their experiences and results of each event were announced. The Formal Vote of thanks was presented by Akansha TYBSC Mathematics Student. Total there were 69 Students and 6 teachers present for the event.

#### Details of the games are as follows:

| Sr.<br>No. | Name of the Game                                             | No. of.<br>Participants | Winners                                                                                                                  |
|------------|--------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1          | MATHOGRAPHY<br>(Photography Competition)                     | 08                      | 1 <sup>st</sup> : Tanmay Dhadwad<br>2 <sup>nd</sup> : Lavkush Chaudhary<br>3 <sup>rd</sup> : Tushar Tarmale              |
| 2          | ARTISTIC MATHS (Drawing / Poster making competition)         | 05                      | 1 <sup>st</sup> : Sarika Jadhav<br>2 <sup>nd</sup> : Komal Jadhav<br>3 <sup>rd</sup> : Sakshi Patil                      |
| 3          | KALAMKAR<br>(Literary Competition)                           | 10                      | 1 <sup>st</sup> : Rohan Patil<br>2 <sup>nd</sup> : Saniya Ansari<br>3 <sup>rd</sup> : Vikas Yadav                        |
| 4          | DRISTI BADLO SHIRISHTI<br>BADLO<br>(Meme making Competition) | 39                      | 1 <sup>st</sup> : Rohan Patil<br>2 <sup>nd</sup> : Arnan Khan<br>3 <sup>rd</sup> : Saidutta Devle                        |
| 5          | KHELO DIMAG SE<br>(Chess Competition)                        | 24                      | 1 <sup>st</sup> : Rohan Patil<br>2 <sup>nd</sup> : Mayur More<br>3 <sup>rd</sup> : Rushikesh Dangat and<br>Khushbu Yadav |
| 6          | OYE LUCKY LUCKY OYE!!!<br>(Housie)                           | 53                      | 1 <sup>st</sup> : Neha Vishwakarma<br>2 <sup>nd</sup> : Nayan Vishwakarma<br>3 <sup>rd</sup> : Latifa Chougle            |



Artistic Maths (1st Wninner): Sarika Jadhav

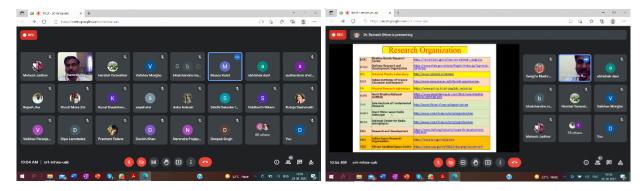


Poster Prepared By Almira Kelkar

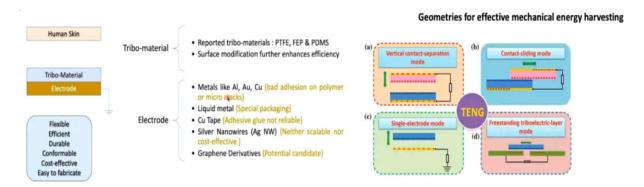
Mrs. Minal Wankhede Head, Department of Mathematics

# **Department of Physics**

Department of Physics has **inaugurated the "Physics Club" on 28th of August, 2021** on virtual mode with the help of Google Meet platform. The chief guest of the function was Dr. Ramesh B. Bhise, who is currently Head of the Department of Physics, Hon. Balasaheb Jadhav Arts, Commerce and Science College, Junnar, **Pune. Dr. Ramesh B. Bhise** delivered the lecture on "**Career Opportunities in Physics**" for the students, on this occasion.



The physics department organized **Dr. V N Bedekar Colloquium Lecture**, on October 08,2021 between 12.00 pm to 01.00 pm. Invited **Mr. Kapil Bhorkar** BNB college Alumni, Researcher, Ph. D. Student in **FORTH -Institute of Chemical Engineering Sciences Greece and University of Renenes1, France.** to delivered a lecture on "**TRIBO-Electricity**".



VPM's B. N. Bandodkar College of Science, (Autonomous) Thane Physics department organised **Ashoka Vijayadashmi - The Victory of Good over Evil** for their staff member on October 14,2021 at 02.30 pm to 03.00 pm. The Purpose of the programme was to established strong bonding among the staff members to ensure smooth transition in the department and college as well.

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

# Department of Statistics Statistics (Sankhya) Club Activity 2021-2022

The Department of Statistics organized "National Statistics Day" which is celebrated every year on June 29 in India to create public awareness about the importance of Statistics in socioeconomic planning and policy formulation. The day also acknowledges notable contribution of Late Professor Prasanta Chandra Mahalanobis in fields of Statistics, Statistical system and economic planning. The Government has been 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. 29th June, 2021 marked the beginning of the 129th year of birth of Prof. P.C. Mahalanobis so Department of statistics has held year-round celebrations which was culminated from 23rd to 24th December 2021 for under graduates Statistics students at 8:00 am to 10.30 am. This year, due to COVID-19 pandemic, the main event of the Statistics Day, 2021 is being organized through Google Meet platform. T.Y.B.Sc. students hosted the programme by welcoming all teachers and students and gave description of National Statistics Day and introduce the theme of the year 2021 "Sustainable Development Goals(SDGs)-2". The student explained in brief the idea of sustainable development goals-2(End Hunger, Achieve Food Security and Improved Nutrition and Promote Sustainable Agriculture). The F.Y.BSc Statistics students prepared various presentations on the concept of NSSO, practical applications of Statistics, The use of Statistics in Business Analytics and many. Department In-charge congratulated all students for celebrating Statistics day and suggested improvement in some skills of presentation for future. There were in all 13 groups of F.Y.B.Sc which consists of in all 48 students who shared their knowledge related to Statistics along with them In-charge Head of Department and three faculty members attended the program.

Next activity was online "Guru Poornima Celebrations", on 23rd July, 2021, T.Y.B.Sc Statistics students organized Guru Poornima using GOOGLE MEET at 6:00 pm to express their gratitude and respect towards their teachers and their gurus. On the auspicious day of Guru Poornima, the Sankhya Club of the Department of Statistics conducted their inaugural event to celebrate their teachers. The event was graced by the presence of their Principal, Prof. Moses Kolet, the Head of Department of Statistics Prof. Divya Nair, and professors of the Statistics Department Prof. Sumaiya Shaikh and Prof. Priyanka Chavan. The event started with a Prayer to the Hindu Goddess of Knowledge, Goddess Saraswati. Some TYBSC Statistics students delivered the speech on the importance of celebrating the Guru Poornima, some students recites their own written poem, some students read out valuable and important quotes; few of them express their journey from FY to TY. They have arrange two fun loving games for everyone and in that principal along with all the teachers have participated and their seniors too. Two students also made portray of their HOD as a token of love and appreciation and presented as gift to Mrs. Divya Nair. And lastly a few seniors conveyed their experiences and wisdom to their fellow juniors.

Next event organized was Online Webinar of Statistics Sankhya Club in collaboration with IIDE (Indian Institute of Digital Education) on "Resume building" and invited "Mr.Chintan Mehta" as the speaker who is strategic alliance associate at IIDE. The lecture was conducted using GOOGLE MEET online Platform on 1st September, 2021 at 11.00 am. Total number of participants was 121. The chief guest Mr. Chintan Mehta introduced the students to the concepts of Resume Building. He spoke and gave valuable information about designing the resume, and following points were discussed during the sessions.

- Summary of the Resume: How to write the summary was explained by the sir.
- What keywords should be included and what details to avoid, also special mention of the technique while describing technical and proficiency skills were explained.
- All the do's and don'ts of a resume and all the key points such as structure, type, way, format, language every things was discussed.
- Many opportunities and ideas were shared by sir, which will be definitely led to many new outcomes for the students.
- Explain the importance of good resume and its advantage.

Next activity was Online Webinar of the Sankhya club of the Department of Statistics in collaboration with IIDE (Indian Institute of Digital Education) organized webinar on "LinkedIn essential" and invited "Mr.Chintan Mehta" as the speaker who is strategic alliance associate at IIDE. The lecture was conducted using GOOGLE MEET online Platform on 21st September 2021, Tuesday at 11.30 am. More than 100 students from various departments attended the webinar. The event was enlightened by the presence of the head of the Department of Statistics, Prof. Divya Nair and Professors of Statistics department Prof. Sumaiya Shaikh and Prof. Priyanka Chavan. Mr. Chintan Mehta Sir started the webinar by asking the questions like 'Why is LinkedIn important?' and explained how huge a platform it is. He said that LinkedIn is where we can build a strong professional network. He also elaborated on the topic of how LinkedIn can help us find our dream job. It was a very informative and amazing webinar, every minute detail such as how LinkedIn focuses more on Relevancy than Recency, and how we can ask help from experienced people from different universities to get a job in our dream company and many other different beneficial features of LinkedIn. Many opportunities and ideas were shared by Sir which will definitely lead to many new outcomes for the students.

Next event organized was online Colloquium Lecture on "<u>Data Science – Scope and Challenges</u>" on 4th October 2021 from 11:00 am. The Colloquium Lecture was conducted using GOOGLE MEET. Department of Statistics had invited <u>Mr. Vinayak Deshpande</u> as the speaker.

- Managing Director Sankhya Analytical Research Pvt. Ltd India.
- Partner : Sankhya Analytics, LLP UK (2016).
- Director: Medicounts Life Sciences Pvt. Ltd. (2013).
- Principal Advisor: Direxions Marketing Solutions Pvt. Ltd. (2013).

The lecture was attended by 95 students of VPM'S B.N. Bandodkar College of Science (Autonomous) and 3 Faculty members of Statistics Department. The Chief Guest **Mr. Vinayak Deshpande** introduces the students to the concepts of Data Science and gave valuable information on Different roles/ designations after graduation, Skill set required to become Data Scientist, Current status in India about Data Science, Data Science Project Life Cycle, Case Study and Technology used in Data Science. He explained these concepts with the help of Power point Presentation and explained its relevance with real life examples.

Next activity organized was Online Webinar of Sankhya Club of Department of Statistic in collaboration with mentor Together has organized a webinar on "<u>Student Outreach Mentor Go Program</u>" and invited <u>Ms. Aastha Dalal</u> as the speaker and she works as a program manager with mentor Together's Mumbai Office. The webinar was conducted using <u>Microsoft teams</u> on <u>29<sup>th</sup> January</u>, <u>2022 at 1.00 pm</u> and was attended by Department of Statistics/ Mathematics/ IT & CS teaching staff and students of B.N.Bandodkar College of Science. Total number of student participants was 378.

The chief guest, Ms Aastha Dalal gave valuable information on the following point.

- What are the skills that students should develop?
- To make decisions correctly, what skill is required.
- Skill and network gap.
- Introduction about the Mentor to Go Program.
- Information about What does work-readiness mean.
- She gave important information about how mentors can help the students.
- How to explore internships and job opportunities through a mentor network.
- They talked about skills which are helpful for job seeking and job interviews.
- She explained how to sign Mentor to Go android and a web-based mentoring platform.
- She gave guidance about the Mentor to Go program benefit.
- She Explained ideas about the entire journey of the program.
- To join this program she gave some app links and institution code to the students.

She explained these concepts with the help of a PowerPoint presentation, with real life examples.

#### Online Certificate Course on "BASICS OF R SOFTWARE"

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. Due to Pandemic, this year certificate course is conducted using online mode. In choice based credit system the course is of 45 hrs duration. The course was held during 08<sup>th</sup> to 20<sup>th</sup> March, 2021 using **Google Meet Online Platform** in between 1pm to 4.30pm.

Any scientific task without the knowledge of software is difficult to imagine and complete in the current scenario. Different software packages are available to analyze the data. It is felt that there is need to well equip the students, teachers and others who are using Statistics and related topics. R is free software that is capable of handling Mathematical and Statistical manipulations. R is an **open-source software environment for Statistical Computing** that is rapidly becoming the tool of choice for data analysis. We intend to give the basics of R software in this course.

Total 10 participants were registered for this online course, one F.Y.B.Sc. student, one S.Y.B.Sc student and four T.Y.B.Sc students of our college and remaining one student was from SYBSc of K.J Somaiya College, one MSc student from NMIMS, one teaching faculty from Pillai HOC College, Rasayani and one administrative staff from St.Xaviers College, Tamil Nadu. Due to online mode of publicity, the responses were also received from states.

The objective of the course were,

- 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, Unit 1: Fundamental of R, Unit 2: Descriptive Statistics, Unit 3: Probability and probability distribution and Unit 4: Correlation analysis, Linear Regression analysis and Curve Fitting.

On 08<sup>th</sup> March 2021 around 1.45 pm, the inauguration of Online Certificate Course was done by our Incharge Principal Capt Dr. Moses Kolet by giving valuable suggestions and motivational speech. Unit 1 session was scheduled on 08<sup>th</sup> March 2021 from 2pm onwards and the Resource Person was **Sumaiya A. Shaikh**. In Unit 1, techniques on Fundamentals of R were learned. Unit 3 session was scheduled on 10<sup>th</sup> March,2021 and 12<sup>th</sup> March 2021 and the Resource Person was **Chhaya P. Panday** and **Divya V Nair** respectively. In Unit 3, techniques on Probability and Probability Distributions and Testing Of Hypothesis were learned. Unit 2 session was scheduled on 15<sup>th</sup> March, 2021 and the resource was **Priyanka M Chavan**. In Unit 2, techniques on Descriptive Statistics were learned. Unit 4 session was scheduled 17<sup>th</sup> March, 2021 and the resource person was **Priyanka M. Chavan**. In Unit 4, techniques of Correlation Analysis and Linear Regression were learned.

On 18<sup>th</sup> March, 2021 assignments on all units of 20 marks were submitted by sending those pdfs to our department Email ID which also cleared their difficulties regarding R syntax. On 19<sup>th</sup> March, 2021 a practical examination was conducted of 80 marks from 1.30 pm to 4 pm as part of the course which consists of 40 multiple choice questions of all units and each question with 2 marks using Google Forms Quiz. All students were present and attended and qualified the practical examination. On 20<sup>th</sup> March, 2021 at 1.00pm certificates where distributed for successfully completing the course. All students actively participated and provided valuable feedback for the entire course.

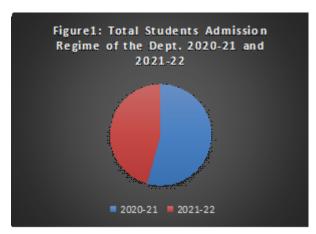
Ms. Sumaiya Shaikh Head, Department of Statistics

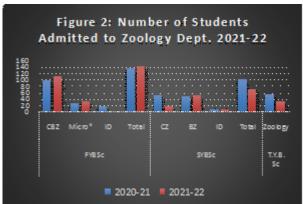
# **Department of Zoology**

#### Departmental Faculty Regime (2021-22)

- 1. Dr. Sudesh Rathod (Permanent), Head of Department, Associate Professor
- 2. Dr. Vinda D. Manjramkar, Associate Professor, Exam Committee Coordinator
- 3. Dr. Poonam N. Kurve, Associate Professor, EVS Dept. In-charge,
- 4. Dr. Kiran M. Pariya, Assistant Professor, Culture Committee Coordinator.
- 5. Dr. Abhay Hule, Assistant Professor, Co-ordinator for Zoology Nature club and departmental club (Appointed in the month of December 2021 on a temporary basis).
- 6. Ms. Nikeeta Keni, Assistant Professor (Appointed in the month of December 2021 on a temporary basis).

The total number of students admitted in the department of zoology are FYBSc (CBZ & Microbiology) 142; SYBSc (CZ, BZ & ID), 68 and TYBSc, 31. Student-Teacher of the department in the current academic year is 40.17. Last year (2020-21) the total number of students was 287 which dropped to 241in the current academic year (2021-22), (Fig.1).





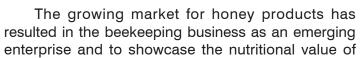
The comparison between academic years 2020-21 and 2021-22 the group-wise number of students admitted to the Zoology department is depicted in the following chart, (Fig.2).

#### Activities of Department of Zoology (2021-22)

#### A. Zoology Club Activities

i. An online inauguration Program was organized by Green Force Nature Club (Zoology Club), Department of Zoology of B. N. Bandodkar College of Science. was organized on **18**th **August** 

2021 on the Google-meet platform. Total 71 students benefited from the informative talk of the invited speaker Mr. Shree Tare on "Urban Beekeeping", a discussion and talk on honey bees and their importance and use. Mr. Shree Tare is on a mission of awareness among the masses about various aspects of Honey Bee & its importance. His Important area of working is rescue & relocation of an urban beehive, selling original & pure honey. He emphasized beekeeping, its maintenance in the city area. He described the history and origin of Honey bees, the benefits of honey bees to human beings, various types of Honey bees, their anatomy, and their life cycle.





honey products, an interactive session on "Urban Bee-Keeping". He described the difference between ancient and modern beekeeping techniques, the enemies of bees, and their defense mechanisms. Participants appreciated his fieldwork.

Mr. Shree Tare showcased the architecture of the bee box, its compartments, and the types of equipments used. He even guided entrepreneurship on honey products. Participants were undergraduates, postgraduates, and faculty from various departments who attended the session.

ii. An online colloquium was organized by Green Force Nature Club (Zoology Club), Department of Zoology of B. N. Bandodkar College of Science. was organized on **28**<sup>th</sup> **August 2021** on the Google-meet platform on "**Tracks and Signs in the Wildlife Studies**" delivered by Mr. Samrat Godambe, one of our alumni and working in this field for over a period of 6 years. This study helps many professional zoologists working as naturalists, Conservationists, etc. While carrying natural trails around city, and zoo regions to identify animal populations, their health, etc. signs and tracks are an important aspect.

The webinar also made everyone realize that this study is not only important to Zoologists but also to trekkers. Nowadays trekking is a trending sport among the youth and this study may help them in situations like getting lost during a trek, to analyze which types of animals are surrounding them, and then confirm the further route. Mr. Godambe explained the detailed and illustrate examples of wolf, deer, tiger, dogs, civet cats, etc. behaviors and how to identify them and also identify the sex of the species in his talk. About 57 students benefited from this program.

A film show was conducted by Dr. S. D. Rathod for FYBSc students on "biomimicry" the abilities and secrets of the animals which help in the science and development of humankind. Further, two more activities will be conducted in the month of February 2022.

# B. Syllabus Framing

The new FYBSc Zoology Semester I and Semester II was adopted in the current academic year, 2021-22, with due course of six BoS meetings held at the departmental level. Mr. Pushparaj Shetty, the Vice-chancellor nominee, Associate Professor from SIES College, Sion attended the final meeting and confirmed the changes. a 60-40 pattern of the theory examination was adopted. One of the units (laboratory measurement) was deleted from the syllabus and a new unit "History of Zoology" was introduced. The BoS meetings also accepted the new course codes as suggested by Vice-principal (Un-aided section) Mr. Abhijeet Kale. The syllabus was adopted after it was sanctioned by the college academic council.

#### C. Parent-Teacher Interactions

A parent-teacher meeting was conducted on 1<sup>st</sup> October 2021, in which parents were oriented with the curriculum and co-curriculum dealt by the department, requested the cooperation as they being the prime mentor of the students, discussed the syllabi and the benefit of the subject knowledge gained by the students.

#### D. Other Activities

- i. Guidance in career advancement and applied knowledge of the subject was attempted to be disseminated to zoology students in the subject through the club activities like beekeeping in urban areas, the study of wildlife, and a film show.
- ii. Offline sessions were started for TYBSc Practicals on 21st Oct.21 according to the govt. of Maharashtra directives. 50% of the students were allowed (in circulation) to attend the offline practicals following complete SOP norms.
- iii. The study material prepared to conduct the curriculum online, were uploaded to YouTube and college websites.

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

# ग्रंथालय विभाग

ग्रंथालय विभागातर्फे फ्रेंड्स ऑफ लायब्ररी क्लबच्या अंतर्गत विद्यामंडलक क्लब या नवीन क्लबचे उद्घाटन २९ जून २०२१ रोजी प्राचार्य डॉ. मोजेस कोलेट यांच्या हस्ते संपन्न झाले.

या क्लबच्या अंतर्गत लेखक तुमच्या भेटीला हा कार्यक्रम आयोजित करण्यात आला. यावेळी My Experiences with George या पुस्तकाच्या लेखिका आयविन जुडाह यांनी सर्वांशी संवाद साधला. यावेळी ज्यांच्यावर त्यांनी हे पुस्तक लिहिले म्हणजे त्यांचे पती स्काइन लीडर जॉर्ज जुडाह हे देखील उपस्थित होते. या पुस्तकाच्या लिखाणामागची त्यांची भूमिका, पुस्तक लिहीत असताना त्यांचे अनुभव त्यांनी मांडले. वायुसेना अधिकारी स्काइन लीडर जॉर्ज जुडाह म्हणून देखील त्यांनी विद्यार्थ्यांशी संवाद साधला.

विद्यामंडलक क्लबर्तर्फे दुसरे सत्र ३० ऑक्टोबर २०२१ रोजी आपल्याच महाविद्यालयाचा माजी विद्यार्थी कु. युवराज गुजर यांच्या Virtex: When Death rings the Bell या पुस्तक प्रवासाबाबत संपन्न झाले. एवढ्या लहान वयात पुस्तक लिहिण्याची प्रेरणा त्याला कशी मिळाली व शिकत असतानाच पुस्तक लिहिण्यामागे त्याने केलेली धडपड त्याने व्यक्त केली. युवराज हा उपस्थित सर्वाकरताच प्रेरणादायी संदेश दिला. आत्मविश्र्वास व स्वयंशिस्त या दोन्ही गोष्टी फार मोलाची भूमिका बजावतात असा संदेश त्यांने दिला.

१२ ऑगस्ट २०२१ रोजी भारतातील ग्रंथालय शास्त्राचे जनक डॉ.शियाली रामामृत रंगनाथ यांच्या जयंती निमित्त ग्रंथालय विभागातर्फे सर्व शिक्षक वृंदासाठी National Digital Library of India (NDLI): - Knowledge Reservoir या विषयावर व्याख्यान संपन्न झाले. यावेळी ग्रंथपाल सौ.कादंबरी मांजरेकर यांनी NDLI म्हणजे काय, NDLI मधील विविध माहिती स्रोत, त्यांचा वापर कसा करावा NDLI चे सदस्यत्व कसे घ्यावे याबाबत इत्यंभूत माहिती दिली. टाळेबंदीच्या काळात NDLI हे एक महत्वपूर्ण साधन आहे असे त्यांनी नमूद केले.

ग्रंथालय विभाग व संशोधन समिती यांच्या संयुक्त विद्यमाने ७ ऑक्टोबर ते १२ ऑक्टोबर २०२१ रोजी पाच दिवसीय आंतरराष्ट्रीय वेबीनार माला संपन्न झाली. या वेबीनार मालेचे उद्घाटन डॉ. सौ. मैत्रेयी साहा, उपप्राचार्य, यांच्या हस्ते संपन्न झाले.

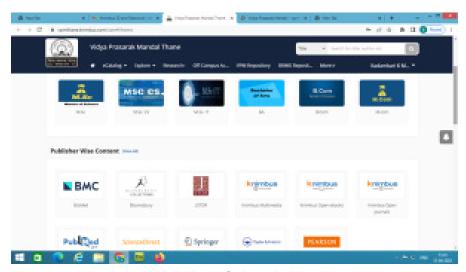
या वेबीनार मालेअंतर्गत महाविद्यालयीन स्तरावर , राष्ट्रीय व आंतर पातळीवर संशोधन करणाऱ्या तज्ज्ञ मार्गदर्शकांच्या समावेश होता ज्यामध्ये The Art of Writing a Research Paper in Physics या विषयावर डॉ. विजय मयेकर, भौतिकशास्त्र विभाग, रुईया महाविद्यालय, मुंबई; The Art of Writing a Research Paper in IT या विषयावर श्री.हिरेन दांड, माहिती तंत्रज्ञान विभाग, मुलुंड वाणिज्य महाविद्यालय, मुलुंड; The Art of Writing a Research Paper in Chemical Sciences या विषयावर डॉ. दिनेश सावंत, शास्त्रज्ञ, राष्ट्रीय रासायनिक प्रयोगशाला, पुणे, The Art of Writing a Research Paper in Mathematical Sciences या विषयावर डॉ. श्रीपाद गर्गे, भारतीय तंत्रज्ञान संस्था, मुंबई; The Art of Writing a Research Paper in Humanities and Social Science या विषयावर डॉ. राजेन सुन्तू, मॉरिशस विद्यापीठ आणि बा.ना.बांदोडकर विज्ञान स्वायत महाविद्यालय, ठाणे येथील ग्रंथपाल सौ. कादंबरी मांजरेकर यांनी Journals : An Important Tool in Research या विषयावर, डॉ. उर्मिला कुमावत, वनस्पतीशास्त्र विभाग यांनी MAPA: - Primary tool to start Literature Survey The Art of Writing a Research Paper in Biological Science व डॉ.स्नेहल भंगाळे, वनस्पतिशास्त्र विभाग यांनी Writing Research Paper as per Journal Requisites in Biological Science या विषयावर मार्गदर्शन केले. प्रश्नोत्तराच्या सत्रामध्ये नवीन संशोधकांच्या शंकांचे निरासनदेखील केले.

दिनविशेष या सदरामध्ये विविध थोर व्यक्तींच्या जयंत्या साजऱ्या करण्यात आल्या. यामध्ये नेताजी सुभाषचंद्र बोस जयंती (२३ जानेवारी), महात्मा गांधी पुण्यतिथी (३० जानेवारी), छत्रपती शिवाजी महाराज जयंती (१९ फेब्रुवारी) विनायक दामोदर सावरकर पुण्यतिथी (२६ फेब्रुवारी), मराठी भाषा दिवस (२७ फेब्रुवारी), यशवंतराव चव्हाण जयंती (१२ मार्च) जागतिक पाणी दिवस (२२ मार्च), शहीद दिवस (२३ मार्च), छत्रपती शिवाजी महाराज पुण्यतिथी (०३ एप्रिल), जागतिक पुस्तक दिवस

(२३ एप्रिल) स्वातंत्रवीर सावरकर (२८ मे), राजश्री शाहू महाराज (२६ जून), लोकमान्य टोळक पुण्यतिथी (१ ऑगस्ट), तुकाराम भाऊराव साठे जयंती (१ ऑगस्ट), शिक्षक दिन (५ सप्टेंबर), सरदार वल्लभंभाई पटेल जयंती (३१ ऑक्टोबर), इंदिरा गांधी पुण्यतिथी (३१ ऑक्टोबर), मोलाना अब्दुल कलाम आझाद जयंती (११ नोव्हेंबर), श्रीनिवास रामानुजन जयंती (२२ डिसेंबर) 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.

ग्रंथालयात आजिमतीला एकूण ३१६६५ पुस्तके पद्वी महाविद्यालयाची, ४८८१ किनष्ट महाविद्यालयाची, ३२८० पुस्तके पुस्तक पेढी योजने अंतर्गत अशी एकूण ३९८२६ पुस्तके उपलब्ध आहेत. तसेच ३६ राष्ट्रीय व ६ आंतरराष्ट्रीय वैज्ञानिक नियतकालिके अवांतर वाचकासाठी उपलब्ध आहेत. २०२०-२०२१ या शैक्षणिक वर्षात ३८८ पुस्तके खरेदी केली.



**Knimbus Subscription** 

# यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ अभ्यासक्रम अहवाल

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाच्या विविध अभ्यासक्रमांकरता खालीलप्रमाणे नोंदणी झाली.

| अभ्यासक्रम                                             | विद्यार्थी संख्या |
|--------------------------------------------------------|-------------------|
| ग्रंथालय आणि माहितीशास्त्र निष्णांत अभ्यासक्रम         | 3 3               |
| ग्रंथालय व माहितीशास्त्र पदवी अभ्यासक्रम               | २१                |
| वृत्तपत्रविद्या आणि पदविका अभ्यासक्रम                  | ₹0                |
| प्रथम वर्ष बॅचलर ऑफ कॉम्प्युटर ऍप्लिकेशन (बी.सी.ए)     | १३                |
| द्वितीय वर्ष बॅचलर ऑफ कॉम्प्युटर ऍप्लिकेशन (बी.सी.ए)   | ०५                |
| तृतीय वर्ष बॅचलर ऑफ कॉम्प्युटर ऍप्लिकेशन (बी.सी.ए)     | ०९                |
| प्रथम वर्ष मास्टर ऑफ कम्प्युटर एप्लिकेशन्स (एम.सी.ए)   | ०२                |
| द्वितीय वर्ष मास्टर ऑफ कम्प्युटर एप्लिकेशन्स (एम.सी.ए) | ०६                |
| तृतीय वर्ष मास्टर ऑफ कम्प्युटर एप्लिकेशन्स (एम.सी.ए)   | १०                |

ग्रंथालय व माहितीशास्त्र निष्णात अभ्यासक्रमाच्या विद्यार्थ्यांना प्रकल्प तयार करताना प्रश्नावलीचा बऱ्याचवेळा वापर करावा लागतो. हीच निकड लक्षात घेऊन How to Create Google form या विषयावर सौ. संध्या यादव, ग्रंथपाल पुतळाबेन शाह कॉलेज ऑफ एज्युकेशन, सांगली यांचे व्याख्यान १४ मार्च २०२१ रोजी संपन्न झाले. यावेळी गुगल फॉर्म कसा तयार करावा प्रश्न कसे विचारावे व कोणत्या पद्धती वापराव्या इत्यादी बद्दल प्रात्यक्षिक त्यांनी दाखवले.

ग्रंथालय व माहितीशास्त्र पदवी अभ्यासक्रम व निष्णात अभ्यासक्रमाच्या विद्यार्थ्यांकरीता Soft Skills and Etiquettes for Library Professionals या विषयावर डॉ. मनीषा दंडगव्हाळ, ग्रंथपाल, मालिनी संघवी वाणिज्य महाविद्यालय, मुंबई यांचे मार्गदर्शनपर व्याख्यान गुगल मीटच्या माध्यमातून ९ मे २०२१ रोजी संपन्न झाले. ग्रंथपाल म्हणून कार्यरत असताना विद्यार्थी, ग्रंथालयीन व कार्यालयीन सहकारी, शिक्षक व वरिष्ठ अधिकारी यांच्याशी संवाद साधावा लागतो. त्यावेळी कशा तऱ्हेने आपण संवाद साधला पाहिजे, त्याचबरोबर संवाद कौशल्ये कशा प्रकारे विकसित केली पाहिजेत याबद्दल त्यांनी खेळकर पद्धतीने मार्गदर्शन केले.

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाच्या माजी विद्यार्थ्यांचे स्नेहसंमेलन २५ एप्रिल २०२१ रोजी Google meet च्या माध्यमातून संपन्न झाले. यावेळी ४५ माजी विद्यार्थी व यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाचे नाशिकचे ग्रंथपाल डॉ. मधुकर शेवाळे, प्रा. नारायण बारसे, श्री. प्रल्हाद जाधव, श्री. पंकज गोडसे उपस्थित होते. या संपूर्ण कार्यक्रमाचे सूत्रसंचालन माजी विद्यार्थिनी सौ. मनीषा चव्हाण यांनी केले. केंद्रसंयोजिका सौ. कादंबरी मांजरेकर यांनी PPT च्या माध्यमातून मागील वीस वर्षाचा अभ्यासकेंद्राचा आढावा घेतला. डॉ. मधुकर शेवाळे यांनी आपले मनोगत व्यक्त केले. यावेळी माजी विद्यार्थी सौ. अर्चना गराटे, डॉ. नीता गुंडावार, सौ. प्रज्ञा कुचेकर या माजी विद्यार्थ्यांनी आपले अनुभव मांडले. तपस्या नेने या माजी विद्यार्थिनीन वन्हाडी भाषेत एक छोटेसे नाटुकली सादर केली. श्री. पंकज गोडसे यांनी काव्य वाचन केले तर सौ. विभाग भगरे यांनी पेटी वादनातून राष्ट्रगीत सादर केले व या स्नेहसंमेलनाची सांगता झाली.

ग्रंथालय आणि माहितीशास्त्र निष्णांत या अभ्यासक्रमाचे २०२१-२२ या शैक्षणिक वर्षाचे शिबीर दि.२७.०१.२०२२ ते २९.०१.२०२२ या दिवशी पार पडले. दररोज सकाळी ९.०० ते सायंकाळी ६.०० या वेळेत शिबिराचे आयोजन गुगल मीट या ऑनलाईन माध्यमातून करण्यात आले होते. दि.२७ जानेवारी २०२२ रोजी सकाळी ०९.०० वाजता या शिबिराचे उद्घाटन शिबीर तज्ज्ञ डॉ. रणजीत धरमाप्रीकर व प्रा. नारायण बारसे यांच्या हस्ते झाले.

या शिबिरासाठी बा.ना.बांदोडकर अभ्यासकेंद्राचे एकूण २९ विद्यार्थी पूर्णवेळ उपस्थित होते. या शिबिरामध्ये २६ विद्यार्थींचे प्रकल्प आराखडे मंजुर झाले.



सौ. कादंबरी मांजरेकर ग्रंथपाल, केंद्रसंयोजिका

# आजादी के ७५ वर्ष का जश्न मना रहा हैं भारत इसमें हिंदी भाषा का योगदान।

बा. ना. बांदोडकर विज्ञान महाविद्यालय (स्वायत्त) ठाणे के हिंदी विभाग ने राज्य-स्तरीय निबंध प्रतियोगिता के परिणाम की घोषणा प्रमुख अतिथि अंतरराष्ट्रीय ख्याति प्राप्त लेखिका डॉ.मजुंला देसाईजी की उपस्थिति मे संपन्न ।

विद्या प्रसारक मंडल द्वारा संचालित बा. ना. बांदोडकर विज्ञान महाविद्यालय (स्वायत्त) ठाणे, मे हिंदी विभाग के माध्यम से हिंदी दिवस के उपलक्ष्य पर हिंदी पखवाड़ा मनाया गया ।

आनलाईन होने वाले इस कार्यक्रम की शुरुआत बारहवीं वी कक्षा कि छात्रा कुमरी आरधना नंदिनी ऐश्रुवर्या शबनम नें अपनी सुमधुर वाणी में स्वागतगीत पेश किया आप आये यहाँ कर रहे स्वागतम..स्वागतम स्वागतम.. !!! स्वागत गीत से वातावरण मंत्रमुग्ध बना गया । कार्यक्रम का प्रस्तावित कुमारी आराधना श्रीवास्तव ने किया हिंदी विभागाध्यक्ष प्रा आनिल आठवलेजी ने हिंदी ने हिंदी प्रतियोगिता के महत्व को बताकर सभी छात्रों को शुभकामनाएं दी । महाविद्यालय के प्रधानाचार्य कॅप्टन डॉ मोझेस कोलेट जी ने प्रमुख अतिथी तथा परिक्षकों का स्वागत किया कभी सहभागी प्रतिभागी को हार्दिक शुभकामनाएं दि तथा पर्यवेक्षिका प्रा.सौ. सनिता ढाकणे जी ने हिंदी राष्ट्र भाषा को लेकर अपने विचार रखकर सभी को जोड़ने वाली भाषा अपनी हिंदी राष्ट्र भाषा है ऐसा उन्होंने कहां । प्रा. विनोद थोरातजी ने प्रमुख अतिथि का परिचय बडे काव्यमय पद्धति से कर सभी के मन में घर कर लिया । इस कार्यक्रम में प्रमुख अतिथि अंतर्राष्ट्रीय ख्याति प्राप्त पूर्व प्रधानाचार्या और आर. डी. नेशनल डॉ मजुंला देसाईजी ने हिन्दी के महत्व पर प्रकाश डाला एक अलग देशप्रेम का विचार रखकर इसपर उन्होनें अपने विचार रखकर भारत को आजादी दिलाने के लिए हिंदी का भी बहत योगदान रहा है भारत स्वतंत्र होने के पूर्व अग्रेंजों को भारत से बाहर करने के लिए आझाद हिंद सेना ने तम मुझे खून दो मैं तुम्हें आझादी दूंगा मेरी झांसी नहीं दूंगी बोलने वाली झांसी की राणी लक्ष्मीबाई थी महात्मा गांधीजी ने भारत छोडो. आंदोलन हिंदी भाषा में ही किया था यही नारे भारत की गूंज थी । तो निश्चित रूप से हिंदी भाषा का भारत को आजाद करने के लिए योगदान रहा है । यह हमें निश्चित रूप से मानना होगा । डॉ. मजुंला जी ने छात्रों के निबंध की सराहना की । भविष्य में इन बच्चों के विचार ही भारत को सक्षम बनाने का कार्य करायेगी । छात्रों ने भी डॉ मजुंला देसाई मॅडम जी के साथ भारत माता की जय के नारे लगा कर पूरा आसमंत एक कर लिया । जैसे लगा की हम फेसब्क पर नहीं बल्कि सभी एक साथ ही नारे दे रहें हैं। वातावरण पूर्ण रूप से हिंदी मय बन गया था ।

रज और परीक्षकों को रहा नहीं गया उन्होंने हिंदी प्रेमी निबंध की भी जांच की और नंबर भी दिये। ऑनलाइन अध्ययन का हिंदी प्रेमियों पर भी प्रभाव दिखाई दिया। बारहवीं कक्षा की छात्रा कुमरी शबनम मौला ने परीक्षक प्रा. योगेश सिंह जी का परिचय बडे. ही रोचक ढंग से प्रस्तुत किया। और प्रा. सौ भारती सुर्यवंशी ने प्रा गीता सिंह तथा प्रा. मच्छिद्रं भिसे जी का परिचय कबीर के दोहे गुरू गोविन्द दोउ खड़े काके लागू पाय से कर परीक्षकों के प्रति कृतज्ञता व्यक्त की और प्रा. सौ भारती सुर्यवंशी ने प्रा गीता सिंह तथा प्रा. मच्छिद्रं भिसे जी का परिचय कबीर के दोहे गुरू गोविन्द दोउ खड़े काके लागू पाय से कर परीक्षकों के प्रति कृतज्ञता व्यक्त की

तीनों परिक्षकों ने मिलकर हिंदी निबंध प्रतियोगिता के निबंध २० सितंबर से २३ सितम्बर तक दिन रात बैठकर परीक्षण कर परिणाम तैयार किया उन्होंने छात्रों के निबंध के विषय को लेकर अपने विचार भी रखकर हार्दिक बधाई दी तथा प्रथम आनेवाले चार छात्रों के लिए सेवानिवृत्त प्रा. प्रकाश माली जी ने सॅन्डिस्क कंपनी का १६ जीबी पेनड़ाईव का प्रायोजित किया।

# क्रमांक पाने वाले छात्र

१ पांडे अक्षत कमलेश : ११ वीं प्रथम

२ साक्षी नरेंद्र परचा : ११ वीं द्धितीय

३ समीक्षा दत्ता हांडे : ११ वीं तृतीय

४ राहुल रामिकशन कपडे : ११ वें प्रोत्साहन

५ साहिल मनोहर गंगनहल्ली : ११ वें प्रोत्स हन

१ सिद्दीका शेख : १२ वीं प्रथम

२ सिंह सुष्मिता राम : १२ वीं द्वितीय

३ सोना सत्ताई यादव : १२ वीं तृतीय

४ प्रतीक कृष्णत पवार : १२ वीं प्रोत्सहन

५ कविता पदमसिंह विश्वकर्मा : १२ वीं प्रोत्सहन

१ गलांडे राहुल शांताराम : डिग्री प्रथम

२ खान सानिया अफजल : डिग्री द्विअर्थी

३ आकाश संजय चंदन : डिग्री तृतीय

४ साक्षी योगेश घोसले : डिग्री प्रोत्सहन

५ निशाल बिपिन निषाद : डिग्री प्रोत्सहन

हिंदी प्रेमी

१ राशि प्रकाश जोशी : प्रथम

२ ईशा जोशी : द्वितीय

३ मीनाक्षी त्यागी : तृतीय

हिंदी विभागाध्यक्ष प्रा. अनिल आठवले जी ने इस कार्यक्रम का सुचारू रूप से आयोजन नियोजन कर कार्यक्रम सफल बनाया। कार्यक्रम की मुख्य सूत्र- संचालिका कुमारी नंदिनी त्यागी, तथा कुमारी ऐश्र्वर्या खोत ने बडे.शायराना अदांज से किया। आभासी मंच का तकनीकी कार्यभार प्रा. वैशाली पारकर जी पूरे लगन से सभांला कार्यक्रम का आभार व्यक्त करने विरष्ठ महाविद्यालय की छात्रा कुमारी अश्लेषा भोसले ने बडे. ही सूत्रताबद्ध रूपसे आभार प्रस्तुत किया।

प्रा. अनिल आठवले हिंदी विभाग Committee Reports

# **Alumni Committee**

Get-together of Anubandh Alumni Association was organised on 22<sup>nd</sup> January 2022 and 26<sup>th</sup> January 2022 at Patanjali Auditorium. Principal Dr. Moses Kolet addressed the gathering and urged all the alumni to connect and stay connected with the college for strengthening the bond between association and college. It was decided that alumni can guide the students through guidance lectures on career, entrance exam preparation, competitive exam preparation, interview skills, etc. Few alumni offered to conduct certificate course based on their expertise. Nomination forms were filled for the upcoming elections of Executive committee and working committee.

Alumni committee had organized a guidance session by our alumni on facing interviews of corporate sector and competitive examinations. The session was arranged for student leaders and alumni on 29<sup>th</sup> January 2022 at 3 pm in Patanjali Auditorium.

Shri. Devdutt Kadrekar, CEO, Humane HR Consulting, was the first speaker of the session. He enlightened the gathering on 'Practical tips on success in facing interviews of corporate sector'. Highly experienced personnel in corporate sector, he guided the students on various aspects of interview, 'the employer concerns', behavioural competencies and skills preferred by corporates, mind conditioning to avoid anxiety and the 'dos and don'ts' to be followed before and during interview

The second session was by Shri. Sanjay Athavale, Former Official, Govt. of Maharashtra, and Sports Observer. In his lucid speech, he gave valuable tips for successfully facing and cracking interviews of competitive examinations. He discussed probable questions mentioning tricky questions. He emphasized on appearing for all the exams and interviews as a learning experience.

Guidance Session for all students on "Artificial Intelligence and Machine Learning" was organised on 5th February 2022 at 3 pm in Patanjali Auditorium. Shri. Sandeep Phanasgaonkar, Chief consultant, CIO Advisory and Digital Transformation and our esteemed alumnus was the speaker. He informed students about how the Al works and the uses of machine learning. He also explained the benefits of doing various courses which will help students to upgrade their skills. He gave an overview of digital technology and the future prospects. He discussed about blockchains, pros and cons.





Mrs. Umalaxmi Patne Coordinator, Alumni Committee

# College-School Complex and Science Square Committee

College-School Complex and Science Square Committee conducted various activities throughout year, they are as follows -

#### > National Science Day Celebration

In VPM's B.N. Bandodkar College of Science (Autonomous), Research committee and Science Square Committee jointly organized **Online Celebration of 'National Science Day' on Sunday, 28**th **February 2021.** This day is celebrated across India in the memory of Late Sir CHRANDRASHEKHARA VENKAT RAMAN who was recipient of 'Nobel Prize' in 1930 for his discovery of 'Raman Effect'.

Inauguration of Special Issue of e-journal i.e. JBNB (Journal of B. N. Bandodkar), Release of Mini-Research Project 2020-2021, Oral presentation of Research Papers and Conferral of Diploma Certificates of Research Scholar Programme were major highlights of the programme. It was attended by 94 participants. The Chief Guest and Guest of Honour of this function were Mr. Venkatraman (Former I/C Principal, VPM's B.N. Bandodkar College of Science) and Ms. Alsaba Qadir (M.Sc. Mathematics Student, Secretary of Mathematics Society, Bhiwandi) respectively. The function was graced by the presence of many eminent personalities involving renowned scientists, VPM representatives, UGC representatives and teaching faculty of various colleges affiliated to Mumbai University.

On this occasion, I/C Principal and Editorial Director of JBNB Dr. Moses Kolet briefly narrated about the achievements of BNB College and functioning of autonomous institute with respect to research. Dr. Moitreyee Saha (Editor General, JBNB, Co-coordinator, Research Committee and Head, Dept of Botany) expressed the theme of Special Issue Volume 10 of e-journal; JBNB. The theme for this special issue was COVID and the journal received variety of articles on different aspects of COVID under the sections of Research Articles, Perspectives and View Point. She gave an overview of about the e-journal involving Journal landscape, Author instructions, Publication policy, Archives, Copy-right and Plagiarism agreements, etc. The online inauguration of JBNB was done by Chief Guest Mr. Venkatraman, Guest of Honour Ms. Alsaba Qadir and Senior Scientist of BARC Dr. Jayaraman (VC Nominee, Academic Council of BNB).

Later Ms. Alsaba Qadir (Avishkar Research Convention Finalist at National Level, Gold medalist at Mumbai University Level and Bronze medalist at West Zone, Maharashtra) expressed about her journey of research. She delivered excellent ideas and thoughts on passion for science and research by taking reference of quotes from ancient text of 'Quaran'. Entire audience was mesmerized by her poem which was based on philosophy of 'Zindgi'. She presented an inspiring example of 'Young Scientist' for all budding researchers.

The programme was continued with brief note by **Dr. Urmila Kumavat (Coordinator, Science Square Committee** and **Certificate Course of Research Scholar Programme)** She explained about scheme of Mini-Research Projects and structure of Certificate Course of Research Scholar Programme'. She gave glimpses of Webpage which presents compiled booklets of Mini-Research Projects of all years from 2014-2021. *In year 2020-2021, total 9 projects have been documented in booklet and made available for future reference through college website.* These projects received from departments of Biochemistry, Botany, Chemistry, Library, Human Science and Zoology.

<u>The topics of research were based on online surveys, literature review and wet lab practices.</u> They were completed under the scheme of 'Certificate Course of Research Scholar Programme'. **This webpage has been inaugurated by all respected guests and distinguishing personalities.** 

#### Research Scholar Programme (RSP)

Research Scholar Programme has started in Academic year 2014-15. It is a Certificate Course related to Research methodology and Overall Development which has approved by College Development Committee (CDC). This year, in spite of challenging situation of lockdown of COVID, all 20 UG students of TYBSc had successfully completed the course content of 4 credits in stipulated time period. They presented their research topics online in form of PowerPoint presentations. The diversified oral presentations were appreciated by entire audience of this programme. The Senior Scientist of BARC Dr. Jayaraman (VC Nominee, Academic Council of BNB) critically analyzed each research project. He expressed positive insightful suggestions towards all budding researchers. All guiding teachers and students were enlightened by his word of wisdom. Similarly Mrs. Srividya Jayakumar (Principal, Law College VPM), Dr. Meena Rao, Dr. Udhav Bhale, Dr. Suchendra Datta and Dr. Shaila Mane (Teaching Faculty in Botany of Various Colleges affiliated to Mumbai University) gave expert comment on oral presentations and the overall conduct of programme.

Later Chief Guest Mr. Venkatraman spoke about honoured culture of BNB with respect research at PG and Ph.D. Levels. He emphasized on need of time and change in college policy towards promotion of research at UG level. He appreciated quality work of Research Committee which was exhibited in form of novel outlook of JBNB.

The formal function was further continued by presentation of *Online* Certificates of 'Diploma Course of Research Scholar Programme' students and guiding teachers for successfully completing the mini-research projects and said course. The *Online* celebration of National Science Day was concluded after formal 'Vote of Thanks' which was delivered by Dr. S.D. Rathod (Member Editor Board JBNB, Head, Dept of Zoology)

#### Intercollegiate Research Convention Avishkar 2021

There were **17 Research Project Proposals** submitted at UG/PG Level for Selection Round of **Avishkar Research Convention 2021. Total 37 students guided by 10 faculty members** in diverse research areas. Among them **three entries** got shortlisted for University level competition of Avishkar Convention. They are as follows –

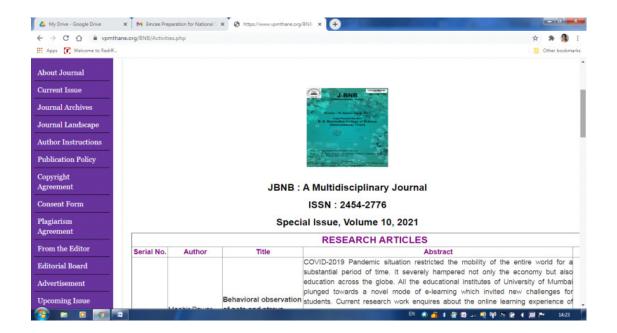
- Ms. Joshi Shambhavi Mukund and Ms. Keni Anushree Anil completed project titled 'Urban Spirulina Terrace: A Potential Remedy for Nutritional and Financial Gap Healing' under the guidance of Dr.(Mrs.) Kalpita Mulye.
- Ms. Rai Komal Kumari Ashok, Ms. Malvankar Sayali Shyamsundar and Mr. Barve Omkar Arun worked on 'Going back to the roots of Kalpavriksha' under the guidance of Dr. Jayashree Pawar.
- Ms. Islam Sanjeeda Rabiul and Ms. Gowda Kavita Devaraj carried out Investigations on holistic wellbeing of student communities in lockdown and measures for fitness and resilience under the guidance of Dr. Moses Kolet.

#### > Guidance to Budding Researchers of School

This year, Dr. Urmila Kumavat (Dept. of Botany), Dr. Pralhad Wagh (Dept. of Chemistry), Dr. Kalpita Mulye (Dept. of Microbiology), Dr. Ashwini Tilak (Dept. of Biotechnology) and Dr. Ujjwala Gokhe (Dept. of Physics) gave their expertise as the evaluators to candidates of 6<sup>th</sup> Std. and 9<sup>th</sup> Std. who qualified for State Level and Thane District Level **National Children's Science Congress.** It was held Online on 27<sup>th</sup> and 28<sup>th</sup> November 2021.

#### Dr. Snehal Bhangale

Coordinator, Science Square Committee & Research Scholar Programme



# **Cultural Association**

#### Inauguration

The theme of cultural association for the current year was Kairos: The World is Your Stage. On 13th December 2021 inauguration of cultural association was organized. The event was graced by well-known voice-over artist Ms. Swati Shet. She narrated her experiences and shared insights. She also humored by giving examples of her work during the voice-over artist career. Students showcased their talent by performing dance and singing. Hundred plus audience gathered at the auditorium.

To showcase the stage experience to student's interaction session was organized on 20th December 2021. Marathi film actors Mr. Balchandra Kadam (Bhau Kadam), Mr. Kushal Badrike, and Director Viju Mane interacted with the audience through dialogues. They narrated their journey and their struggle. They promoted their blockbuster film 'PANDU.'

The timing of dialogue delivery and presence of mind are the key factors in acting was showcased with humorous jokes and sharing a few bites of fun during their movie shoot. Hundred plus audience gathered at the auditorium.

#### **Youth Festival**

The University of Mumbai, Department of Student's Development organized the 54th Youth festival. 15 students participated in cultural competitions such as music, dance, literary, theatre, and fine art. The elimination rounds were conducted online as well as offline. Further training and guidance were given to selected 15 candidates.

Ms. Pisal Isha secured THIRD RANK in ON the spot painting competition at zonal round.

Ms. Kaveri Shinde secured THIRD RANK in Music: Western Vocal Solo at zonal round.

#### **Aakanksha Fest Days Celebration**

**Bollywood Day** was organized on 2nd March. Participants were encouraged to dress up as their favorite character featured in Bollywood movies. A ramp walk was arranged which met with great enthusiasm and participation. This segment generated great social media activity and engagement.

**Traditional Day** was organized on 3rd March 2022. Participants came in traditional attire. This was very well appreciated and students got an opportunity to click photographs with their cohorts in traditional clothes.

The day's event was a good precursor to the 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 submissions were taken online keeping in mind COVID protocols and for better efficiency. The results for Performing arts, creative arts, and literary arts were declared online.

#### **Aakanksha Fest Final Event**

Aakanksha Fest was held on 9th March 2022. The guests invited for this event were **social media influencers**; **Nikhil Dhadwe**, **Nilraj Kadam**, **Omkar Bolke**, **Shantanu Rangnekar**, **and Tejas Gaikwad**. The event started with the national anthem followed by lightening the lamp followed by the Principal's address.

A short flashback of the last three years' events was presented to the audience. The program began with Ganesh Vandana with a dance performance. The whole event had a storyline in which a character is in search of the meaning of "Kairos"- Ethos, Pathos, and Logos throughout the event.

Bharatanatyam performance, self-composed Shayari, power-packed Powada, tabla playing, and the skit was performed.

The special performance was given of Agri poem by Gajanan Patil and Malvani Poem by admin staff Ramchandra Shinde.

The Hoonarbaaz fame Gaurav Shukla danced. Group portrayed the important life events of Chatrapati Shivaji Maharaj and the duet dance performed by the winners.

A standup comedy, mono act, skit, and orchestra band were performed by the participants.

Rap, singing performances such as solo, duet, by faculty and students was much appreciated by the audience.

A most awaited group dance performed by the Cultural Association committee.

The whole event was streamed live on Instagram and YouTube.

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

# Department of Lifelong Learning & Extension (DLLE)

The Department of Lifelong Learning & Extension has started conducting Interactive Saturday Sessions from the academic year 2021-22. Interactive Sessions have been found to be very effective for the personality development of students, and faculty and students seem to enjoy the session. This activity received a positive response from the students and parents.

Following is the summary of the sessions conducted:

- 1. The Department of Lifelong Learning along with the department of Human Science and Interdisciplinary science under VPM's B. N. Bandodkar College of Science (Autonomous), Thane organized a lecture on "Peer to Peer Learning and Teaching". The session was arranged on 26<sup>th</sup> April from 10:30 a.m. to 12:00 p.m. and was conducted by the students of TYBSc Human Science. Participants also took initiative in this activity and tried making flyers and Google forms. All the doubts of the participants were solved in the question and answer session, followed by the Vote of thanks. Registration for the webinar was free. The session was attended by 76 participants and it was held on Google Meet. After the completion of the webinar the students received E-certificates for attending the session through a feedback form.
- 2. The Department of Lifelong Learning along with the department of Human Science and Interdisciplinary science under VPM's B. N. Bandodkar College of Science (Autonomous), Thane organized "Essay writing and Flyer making competition on Gandhiji and Lal Bahadur shastriji". The session was arranged on 2<sup>nd</sup> October from 11. 00 a.m. to 12:00 p.m. and was conducted by the students of TYBSc Human Science along with DLLE students. The purpose of the session was to make the participants share their views on Gandhiji and shastriji. Registration for the webinar was free. The session was attended by 42 participants and it was held on Google Meet. After the completion of the webinar the students received Ecertificates for attending the session through a feedback form.
- 3. The Department of Lifelong Learning along with the department of Human Science and Interdisciplinary science under VPM's B. N. Bandodkar College of Science (Autonomous), Thane organized a very "Enlightening Program on Legend Honourable President A.P.J Abdul Kalam". The session was arranged on 14th of October 2021 at 06:00 PM IST and was conducted by the students of TYBSc Human Science along with DLLE students. The purpose of the session was to make the participants share their views on World Student's Day, Former President A.P.J Abdul Kalam & World Hand-washing Day. Registration for the webinar was free. The session was attended by 42 participants and it was held on Google Meet. After the completion of the webinar the students received E-certificates for attending the session through a feedback form.
- 4. The Department of Lifelong Learning along with the Department of Human Science and Interdisciplinary science under VPM's B. N. Bandodkar College of Science (Autonomous), Thane organized a very "Enlightening Program on the Virtual Tour of Godrej Mangroves (Vikhroli)". The session was arranged on 18th of December 2021 at 12:30 PM IST and was conducted by the students of TYBSc Human Science along with DLLE students. Respected Hemant Sir took the participants on the Virtual Tour of Godrej Mangroves (Vikhroli) & Educated the Participants about the Importance of Mangrove Forests in our Life. He also

gave some glimpse of the Biodiversity of Mangrove Forests. Registration for the webinar was free. The session was attended by 63 participants and it was held on Google Meet. After the completion of the webinar the students received E-certificates for attending the session through a feedback form.

- 5. The DLLE Department and Human Science Department of VPM's B. N. Bandodkar College of Science (Autonomous), Thane organized a program on "Women Empowerment". The seminar was arranged on 21<sup>st</sup>December from 11.30 a.m. onwards and was conducted by the students of DLLE and T.Y.B.Sc students of Human Science. The program started by "Deep prajwalan" i.e. lighting of the lamp by the chief guest and speaker "Captain Dr. Rohini Sivabalan" along with Saraswati Vandana to garland the blessings of Goddess Saraswati. This was followed up with the felicitation of the guests by Principal Dr. Moses kolet. Then, captain Dr. Rohini Sivabalan began with the topic of the program. The entire session was very informative and many participants' doubts were cleared via the question and answer session. The session came to an end with some encouraging words from Dr. Vinda Manjramkar ma'am, Principal Dr. Moses Kolet sir, followed by the Vote of thanks. Registration for the seminar was free. The session was attended by 72 participants and it was held in the Patanjali sabhagruh in offline mode following all covid-19 norms.
- 6. The Department of Lifelong Learning along with the Department of Human Science and Interdisciplinary science under VPM's B. N. Bandodkar College of Science (Autonomous), Thane organized a very "Enlightening Program on Mental Health and Youth". The session was arranged on 13th February 2022 at 11:00 AM IST and was conducted by the students of TYBSc Human Science along with DLLE students. The session was attended by 55 participants and it was held in Google meet.

Scope of DLLE - Many students of DLLE have been working in fields of Management/ Marketing, Psychology, Rehabilitation and Environmental/ Biodiversity projects.

Apart from the fields mentioned above, Students can make their careers in Hospital administrations, Nutrition & Deities, Banking, Tourism, Forensic Sciences, Economics, Psychology, Sociology, Law and Management

**Dr. Vinda Manjramkar** Coordinator, DLLE

# Gymkhana

Gymkhana Committee has a new internal structure of 12 members which includes Gymkhana Secretary Mr. Dhiraj Khade, Join Secretary Shrutika Bedse, Co-Head Mr. Kaushal Beluse and other members as Swati Khatke, Kasturi Khandekar, Sarvesh Sadvelkar, Kalash Dongre, Sakshi Jadhav, Siddhi Dhuri, Vibhuti Patil, Mahesh Kale and Shubham Yadav.

The Gymkhana Committee, VPM's B. N. Bandodkar College of Science (Autonomous), Thane had organized an online inauguration function of Gymkhana for the academic year 2021-2022, on 29th September 2021. Dr. Rathode sir, the then coordinator of Gymkhana Committee, in gave information about Gymkhana's various activities and appealed the students to actively participate in the same. Mr. Parsh Gala showed the audience the basics of Chess and discussed how to make good and correct moves of different chess pieces such as Pawn, Knight, Bishop, Rook and King during the game. He elaborated on how to use different tactics in the game of Chess and also solved the doubts of students. The session was informative and enriching. He further explained 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 Chess. Total 71 students and 12 students participated in the event.

During this academic year 2021-2022 several activities were arranged by our committee such as Table Tennis, Chess, Carrom, Box Cricket Tournaments and we also actively participated in intercollegiate competitions such as box cricket and kabaddi. Students showed their great enthusiasm to participate in these activities.

Our first intercollegiate match of box cricket was held on 24 February, 2022 at A. P. Shah College of Mulund. A boys team of 9 players participated in this competition and successfully reached till semi-finals. The matches started at 11:30am and continued till 4pm.

Table Tennis matches were arranged by our committee in our college on 7<sup>th</sup> March, 2022. Total 22 students (17boys + 5girls) participated. The matches started at 11am and ended at 3pm. The winners were Aditya Nikam and Sarvesh Sadvelkar.

Chess competition was arranged by our committee in our college on the same date 7<sup>th</sup> March, 2022. Total 32 students (24boys +8girls) participated. This competition started at 11am and ended at 3pm. The winners were Viren Gawade and Luvkush Chaudhari.

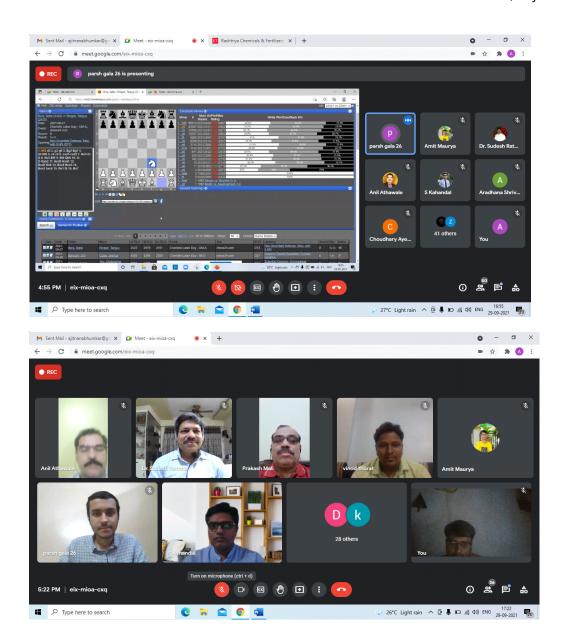
On the same day, we also had an intercollegiate kabaddi competition which was arranged by Guru Nanak College, Chembur and from our college one boys team of 12 players and one girls team of 12 players participated. Boys team was forfeited in the 1st round whereas girls team reached till semi-finals. The whole duration of this match was from 12pm to 6pm.

Carrom competition was held by our committee on 10<sup>th</sup> and 11<sup>th</sup> March,2022. We got tremendous response from students, for this competition with a total count of 65 participants (52boys + 13girls). The duration of this competition on both days was from 12pm to 5pm. The boys winner for this competition were Aadarsh Ubale and Kalash Dongre while, the girls winner were Swati Khatke and Sakshi Chavan.

Last but not least the Box Cricket Tournament was arranged by us on 16<sup>th</sup> March,2022. In which 15 teams(120 students) had registered there names. The event started at 8am and ended at 5pm. Winners for the same were SYIT Team and TYIT Team.

On 19<sup>th</sup> March, 2022 our Gymkhana Prize Distribution Ceremony was held. The Chief Guest for this ceremony were Shri Rajesh Gadgil Sir (Chhatrapati Award Winner) and Shri Sanjay M Athavale Sir (National Observer for Ministry of Sports) with our B. N. Bandodkar College of Science (Autonomous) principal Capt. Dr. Moses Kolet sir. On this day all the sport competition winners were felicitated. And all the events successfully got ended.

**Dr. Ajit Bhumkar** Co-ordinator, Gymkhana



# **National Cadet Corp (NCC)**

#### Introduction

Our ASC Thane NCC Army Boys Unit was established in the year 1965 in B.N. Bandodkar College of Science. Around 52 Cadets every year enrolled in our unit. ASC Thane Unit comes under the 1 MAHARASHTRA BATTALION, Mumbai 'B' group in Maharashtra Directorate. Uptil now our 25 Cadets from ASC THANE Unit had represented Maharashtra Directorate in various National level camps. One of the most precious moments for our unit is our Ex- Cadets, Gangaprasad Thapa and Kunal Singhvi is commissioned as an Army Officer from OFFICERS TRAINING ACADEMY, Chennai.

#### Administrative Front (2021-22)

- CDT. Shivam Dhananjay Yadav was appointed as Senior Under Officer.
- CDT. Devesh Dinesh Shukla appointed as Junior Under Officer (Administration).
- CDT. Govind Mohan Bohara appointed as Junior Under Officer (Field).
- CDT. Rohit Keshav Bhadane appointed as Company Sergeant Master (CSM).
- CDT. Shreyash Shrikrishna Shelar appointed as Company Quarter Master Sergeant of the Unit
- LCPL. Prashant Panhalkar Completed the Rock Climbing Camp.

#### **Enrollment Drive**

Enrollment of the cadets commenced in the September 2021. Eligible students from college Campus participated with enthusiasm in the enrollment drive and gone through various Tests like written exam, physical test, group discussion and interview.

#### Results of the Certificate Examinations

The unit achieved 100% result in the NCC 'B' and 'C' certificate examinations.

#### **Training**

Apart from regular training parades conducted in the college campus, Cadets participated in several regional, state and national level training camps, allied activities and glimpses of which are mentioned below.

#### Regional and Group Level Camps

- 2 of our Cadets participated in the pre EK BHARAT SHRESHTHA BHARAT CAMP which was held online this year.
- 6 Cadets participated in the pre G.V MAVLANKAR among which CDT. Shubham Rawat was selected for the IGC level at PUNE HQ.
- CDT. Ashish Yadav participated in Basic Leadership Camp at Rajasthan.

#### Camps

- CATC camp of B set conducted in Dec 2021 at Thane college.
- CATC camp of C set conducted in Jan 2022 at Kirti College.
- EK BHARAT SHRESHTHA BHARAT CAMP (online mode).
- G.V. MAVLANKAR Conducted at PUNE HQ.
- Basic Leadership Camp at Rajasthan.
- Rock Climbing Camp at Kolhapur.
- IGC Camp PUNE HQ.
- FIT INDIA Movement.
- AZADI KA AMRUT MOHOTSAV.
- 75 Crore SURYA NAMASKAR Campaign.
- REPUBLIC DAY CAMP 2022.

#### **Participation in other Activities**

- Our Cadets participated in International Yoga Day. The programme was held online due to the pandemic of Covid-19 on 21st June 2021.
- NCC and NSS of our <u>B.N. Bandodkar College</u> along with other Colleges have extended hand to help the flood victims of Konkan Region.
- Our Cadets also took a part in Tree plantation drive held at Digha with Hariyali group on 5th, 13th, 20th June and 4th, 25th July 2021.
- On the Significant day of 'Kargil Vijay Diwas', an online webinar was organized by ASC Thane Unit in Collaboration with NSS on 26<sup>th</sup> July, 2021.
- Constitution Day on 26<sup>th</sup> Nov, 2021.
- Cadets of ASC Thane Unit had Celebrated NCC Day on 27<sup>th</sup> Nov, 2021.
- Our NCC Army Boys unit given soulful tribute to 1<sup>st</sup> CDS GEN.BIPIN RAWAT & 12 Other Officers & JCO'S on 11<sup>th</sup> Dec 2021 at B.N.Bandodkar College.
- Seminar on Cyber fraud Awareness on 22<sup>nd</sup> Dec, 2021.
- Cadets of ASC Thane NCC Unit had performed Street play on beach cleanliness at Dadar Beach under Punit Sagar abhiyan on 30<sup>th</sup> Dec 2021.
- An online Webinar on "Indian Army Day" was conducted by our Cadets on 15th Jan, 2022.
- Blood Donation Camps was organized at different places during pandemic in which our Cadets had collected around 900 bottles of blood.

#### **Noteworthy Achievements**

- This year an Intercollegiate <u>TSC Competition</u> was organized by our unit, it was very first time that such competition was organized in Mumbai Group. In this competition, all over 12 colleges from Mumbai 'A' and 'B' had participated. The main aim behind organizing this competition was to give platform to the cadets to showcase their skills and talent which will boost up their confidence level and also help them to give their best in TSC Camp 2022. In the competition various events were organized among which ASC Thane Unit Cadets had achieved
  - ➤ 1st prize in Group Obstacle, Individual Obstacle and Cross Country Events.
  - ➤ 2<sup>nd</sup> Prize in Health Hygiene Event and also won the Champions Trophy by performing very well in each event as compare to other colleges.
- CATC Camp was held for the 'B'Certificate Cadets in the month of DECEMBER 2021 by 1
  MAH BN, during the camp 2 competitions were been organized by the 1 MAH BN. The
  name of the events were Drill Competition and Weapon Training Competition, in these
  competitions ASC Thane Unit had achieved the prices. The ranking are as follows:
  - ➤ In drill Competition 1<sup>st</sup> Position.
  - ➤ In Weapon Training Competition 3<sup>rd</sup> Position.
- <u>Capt.Bipin Dhumale</u>, ANO of ASC Thane Unit was awarded by <u>Director General NCC Commendation Medal from Defence Ministry Govt. of India in the year 2020.</u>
- Our <u>Ex-CDT</u>. Abhijeet <u>Basargekar</u> (<u>Sepoy in MARATHA LI</u>) completed his <u>Army advance</u> training in the month of October 2020 and now he is been serving in MLI Regiment.
- Our <u>Ex-CDT</u>. Mukund Nigade completed his advance training of <u>SSR in chilka</u> and now he is been serving as a sailor in Indian Navy.
- Our Ex-cadet Lt. Kunal Singhvi had passed out from OTA, Chennai in May 2021 Currently serving in <u>DOGRA REGEMENT</u>.
- Our most of the cadets are also there in services like Army, Navy, Air force and Police.

Capt. Bipin Dhumale Associate NCC Officer



# **National Service Scheme**

NSS was initiated in our college from 1972 with 30 NSS Volunteers, presently our NSS UNIT consist of **300 Volunteers** enrolled under **Programme Officers Dr. Ujjwala Gokhe, Dr. Akanksha Shinde & Dr. Pralhad Wagh.** 

#### Camps Attended:

- Mr. Omkar Vijay Vishwakarma (S.Y.BSc Biotechnology) was selected for Pre-RD Camp conducted under Thane Zone-1 by NSS Cell of Thane District.
- Ms. Mansi Vinay Pathak (F.Y.BSc Biotechnology), Ms. Shravani Milind Koli (F.Y.BSc PMS), Mr. Ganesh Dharmendra Dandekar (F.Y.BSc PMS) & Mr. Setu Rakesh Singh (F.Y.BSc CBZ) were selected for Leadership Training Camp which was organized by NSS Cell, University of Mumbai & SST College Ulhasnagar through online mode.

#### **Events Report:**

- In June, Vaccination Drive was organized on 25<sup>th</sup> & 26<sup>th</sup> Jun 2021 taking under consideration the importance of vaccination for the fight against Covid- 19 to vaccinate the teaching and non- teaching staff of our college.
- In July, Collectionn Drive was organized from 26<sup>th</sup> to 28<sup>th</sup> Jul 2021 to help the citizens affected by the floods in Chiplun District of Maharashtra. Kargil Vijay Diwas was celebrated by organising a webinar and quiz activity on 27<sup>th</sup> Jul 2021 to pay regards to the martyrs who lost their lives during the 1999 war. Tree Plantation was organized on 28<sup>th</sup> Jul 2021 on the occasion of world nature conservation day.
- In August, Garden Cleaning Activity was organized from 9<sup>th</sup> to 11<sup>th</sup> Aug 2021. Fit India Campaign Webinar was organized on 13<sup>th</sup> Aug 2021. Independence Day was celebrated on 15<sup>th</sup> Aug 2021. Sadbhavana Diwas Webinar was organized on 20<sup>th</sup> Aug 2021 to celebrate the birth anniversary of Mr. Rajiv Gandhi (Former Prime Minister). Cyber Sakhi Session was organized on 26<sup>th</sup> August 2021 to guide about cyber security.
- In September, Blood Donation Camp was organized on 7<sup>th</sup> Sept 2021. Total 39 pits of blood were collected. Eco-friendly Makhar Decoration Competition was organized from 10<sup>th</sup> to 13<sup>th</sup> Sept. 2021. NSS Garden Cleaning Activity was conducted on 17<sup>th</sup> to 23<sup>rd</sup> Sept. 2021. SRD/NRD Camp Selection was conducted under District NSS Cell on 18<sup>th</sup> Sept. 2021. Essay Writing And Drawing Competition was organized from 18<sup>th</sup> to 21<sup>st</sup> Sept 2021 to celebrate International Peace Day. NSS Foundation Day was celebrated on 24<sup>th</sup> Sept. 2021. World Heart Day Activity and Online Quiz was organized from 27<sup>th</sup> to 29<sup>th</sup> Sept. 2021 to spread awareness about heart diseases and stroke.
- In October, Cleanliness Drive and Online Quiz was conducted on 2<sup>nd</sup> Oct 2021. FY Orientation Lecture of NSS was conducted on 5<sup>th</sup> Oct 2021 to inform all the newly admitted F.Y.B.Sc students about NSS.

#### Navratri Fest

- a. DAY 1 (7th October 2021): RANGOLI COMPETITION was organized.
- b. DAY 2 (8th October 2021): **SKETCHING AND PORTRAIT COMPETITION** was organized.
- c. DAY 3 (9th October 2021): TREE PLANTATION was organized.
- d. DAY 4 (10th October 2021): **POEM WRITING COMPETITION** was organized.
- e. DAY 5 (11th October 2021): GLOBAL WARMING ONLINE QUIZ was organized.
- f. DAY 6 (12th October 2021): **SLOGAN COMPETITION** was organized.
- g. DAY 7 (13th October 2021): MANDALA ART COMPETITION was organized.
- h. DAY 8 (14th October 2021): PHOTOGRAPHY COMPETITION was organized.
- i. DAY 9 (15th October 2021): **BLOG WRITING COMPETITION** was organized.

Beti Bachao Beti Padhao Rally was organized on 13<sup>th</sup> Oct. 2021 to promote the importance of girl child in our society. Exam Stress Management Webinar was organized on 19<sup>th</sup> Oct 2021. Treasure Hunt & Housie Game Activity was organized on 20<sup>th</sup> Oct. 2021.

- In November, National Cancer Awareness Day Online Quiz was organized on 7<sup>th</sup> Nov 2021 to spread awareness about cancer disease. International Men's Day Webinar was organized on 19<sup>th</sup> Nov 2021 on occasion International Men's Day. Voting Awareness Street Play was performed by NSS volunteer near Tehsildar Office of Thane District on 25<sup>th</sup> Nov 2021. National Constitution Day was celebrated on 26<sup>th</sup> Nov 2021. Cyber Security Awareness Programme was organized on 26<sup>th</sup> Nov. 2021 to spread awareness about cyber security. Voter Awareness Programme was organized on 26<sup>th</sup> Nov 2021 in order to guide students about the importance of voting. NSS Garden Cleaning Activity was held on 30<sup>th</sup> Nov 2021.
- ▶ In December, Poster Making Competition was organized from 1<sup>st</sup> Dec 2021 to 3<sup>rd</sup> Dec 2021 on occasion World Aids Day. Seminar for Awareness of Various Entries in Defence Service was organized on 4<sup>th</sup> Dec 2021 in order to guide students about defence services entrance exams. INDIAN NAVY DAY ONLINE QUIZ was organized on 4<sup>th</sup> Dec 2021. Volunteering for CA Exam was done on 6<sup>th</sup>, 8<sup>th</sup>, 10 and 12<sup>th</sup> to 20<sup>th</sup> Dec 2021 by NSS volunteers. National Minorities Rights Day Seminar was organized on 18<sup>th</sup> Dec 2021. Self Defence Workshop was organized on 18<sup>th</sup> Dec 2021 in order to guide students about self defence. Film Promotion: Pandu was conducted on 20<sup>th</sup> Dec 2021. NSS Sports Day was conducted on 22<sup>nd</sup> Dec 2021. Bank Frauds And Cyber Crime Programme was organized on 22<sup>nd</sup> Dec 2021. National Consumer Day was organized on 24<sup>th</sup> Dec 2021. NSS Alumni Meet was conducted on 24<sup>th</sup> Dec 2021.
- In January, National Youth Day Webinar was organized on 12th Jan, 2022. S.C. Bose Jayanti Online Quiz Activity was conducted on 23rd Jan, 2022 on topic knowing our netaji a bit more better. Subhash Chandra Bose Jayanti Webinar was organized on 23rd Jan, 2022 in order to celebrate S.C. Bose Jayanti.

**Dr. Ujjwala Gokhe** (NSS Co-ordinator)

# **Research Committee**

The research committee 2021–2022 was streamlined and restructured. The term during the continuing pandemic started with teaching online and work from home culture.

The Research committee had arranged offline interviews for PhD admission on 27th July 2021. Interviews were conducted for the subjects of Botany, Chemistry, Environmental Science and Zoology.

#### Webinar

The Research committee keeping in mind to do something for the students of all faculties organized an international webinar series. The webinar series "The Art of Writing a Research Paper" was organized, a joint effort of the Research Committee and Department of Library of VPM's B.N. Bandodkar College of Science, Thane during the COVID-19 pandemic and the lockdown period.

The topics covered were "Journals: An Important Tool in Research" on 7th October 2021. The resource person was Mrs Kadambari Hemant Manjrekar, Librarian, VPM's B.N. Bandodkar College of Science, Autonomous Thane. "MAPA: A Primary tool to start Literature Survey" on 7th October 2021 and the "The Art of Writing a Research Paper in Biological Science" on 12th October 2021 by Dr Urmila Kumavat, Assistant Professor Department of Botany, VPM's B.N. Bandodkar College of Science, Autonomous Thane.

"The Art of Writing a Research Paper in Physics" by Dr Vijay Mayekar on 8th October 202. Dr. Vijay Mayekar, Associate professor, and Head, Department of Physics, Ramnarain Ruia Autonomous College, L. N. road, Matunga, Mumbai and his area of work is related to Microcontrollers, Textiles, Wireless sensor network etc.

"The Art of Writing a Research Paper in IT" was organized for the IT and Computer Science Students. The resource person was Prof Hiren Dand on 8th October 2021. Head, Dept of IT, Mulund College of Commerce, Mulund.

"The Art of Writing a Research Paper in Chemical Science" by Dr Dinesh Sawant on 9th October 2021. Scientist, National Chemical Laboratory, Pune was a great success.

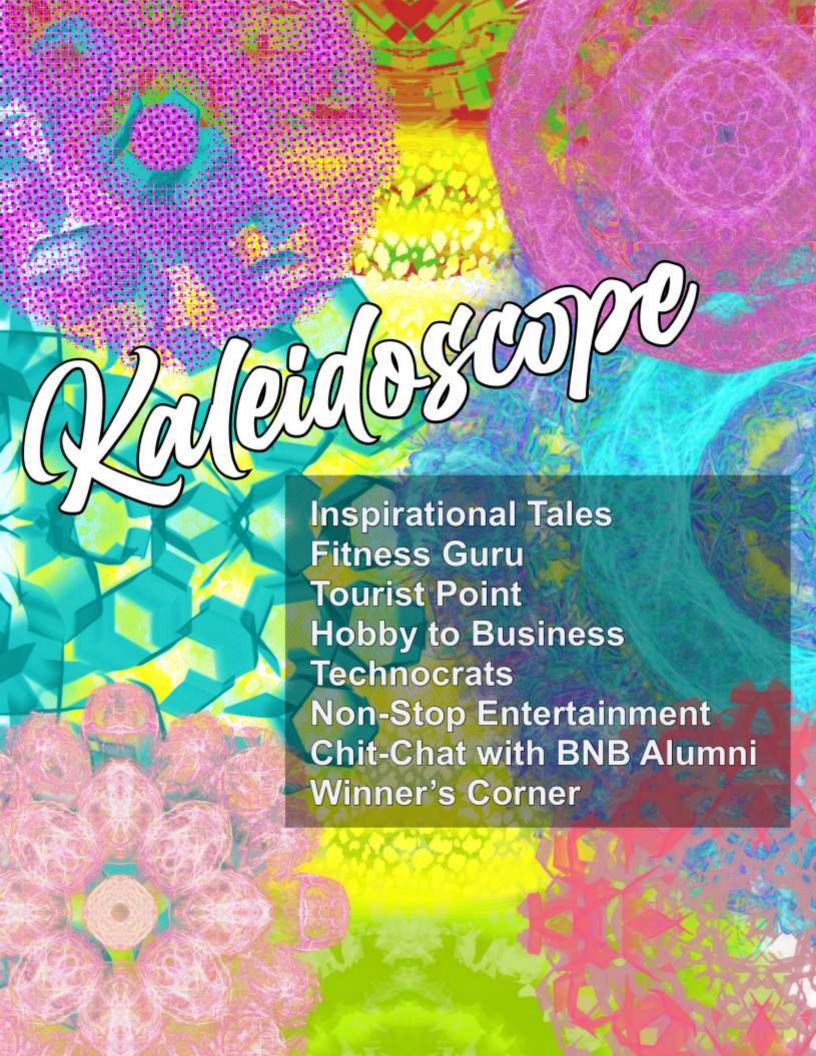
Dr Sripad Garge, from IIT Mumbai, besides doing Mathematics, he likes to interact with young minds and encourages them to do Mathematics. On on 11th October 2021 he delivered a lecture on "The Art of Writing a Research Paper in Mathematical science"

"The Art of Writing a Research Paper in Humanities and Social science" by Dr Rajen Suntoo, Senior Lecturer in Sociology at the University of Mauritius on 11th October 2021. Around 15 students from Mauritius attended the workshop.

"The Art of Writing a Research Paper in as per the journal requisite in biological Science" by Dr Snehal Bhangale on 12th October 2021 Assistant Professor Department of Botany, VPM's B.N. Bandodkar College of Science, Autonomous Thane.

#### **Research Projects**

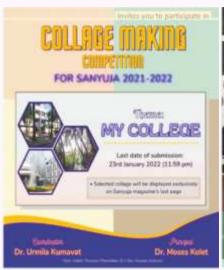
**Dr. Sandeep S. Kahandal** from Department of Chemistry, received a grant of Rs 25000 in December 2021, for the research project "**Catalytic activity studies of bifunctional catalysts for synthesis of xanthenes**". Funding Agency: University of Mumbai, Sanctioned year- 2109-2020.

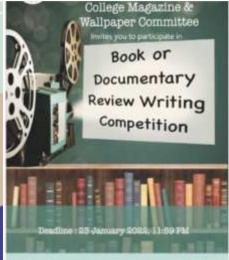


# **Activities organized by College Magazine & Wallpaper Committee**

# Collage Making Competition

•Shruti Machha
(TYBSc Chemistry)
1st Prize
•Shreyas Phansekar
(SYBSc Human Science),
2nd Prize
• Dushyant Thakur
(FYJC)
Consolation Prize





# Book / Documentary Review Writing Competition

•Kinnari Londhe
(SYBSc Human Science)

1st Prize
•Mrunal Kosbe
FYJC (CS)

2nd Prize
•Sarita Gupte
(SYBSc CS)

3rd Prize

Mrunmayee Thakur

Consolation Prize

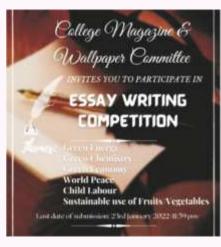
(SYJC)





# Essay Writing Competition

Bhoomi Salelkar
 (FYJC). 1st Prize
 Siddhant Pradhan
 (TYBSc Human
 Science),
 2<sup>nd</sup> Prize
 Atul Singh
 (TYBSc Botany),
 3<sup>rd</sup> Prize





# **Cover Page Designing Competition**

•Aashvin Kay Das (SYBSc Microbiology). 1st Prize •Harsh Sathe (FYJC), 2nd Prize •Rida Solkar (SYBSc BZ), 3nd Prize •Alina Desai (FYBSc Human Science) Consolation Prize

#### **Research Papers**

VPM's B.N. Bandodkar College of Science Autonomous Thane has highly qualified, motivated and talented professors who have made steady progress in various aspects of research and have published their work in different journals.

**Sayali Daptardar and Meenal Dukhande** (2021) Microbial L-Asparaginase: The Anticancer Solution Hidden In Land of Mangroves. Journal of Advanced Scientific Research; ICITNAS: 169-173

**Deshmukh, A. and Saha, M. (2021).** Floral diversity during summer months on Vidyaprasarak Mandal's Jnanadweep Campus, Thane (Maharashtra), India. JBNB, 11:45-60.

**Kolet, M. Islam, S. & Gowda, K. (2021).** Analysis of physical, mental and emotional wellbeing of higher education students during pandemic-related lockdown and measures for holistic fitness and resilience. JBNB, 11:73-78.

Kamble, B., Patil, D., Sor, N., Pabrekar, S., Kumavat, U. and Manjrekar, K. (2021). Use and awareness of social media tools by undergraduate students. JBNB, 11:79-86.

**Bhangale**, **S. and Saha**, **M. (2021)**. In vitro callogenesis and phytochemical screening of leaf and callus of Lawsonia inermis L.: A medicinal plant. JBNB, 11: 87-94.

**Kumavat**, **U. (2021)**. Acute hypoglycaemic studies of crude drug of *Cassia alata* leaves. International Journal of Creative Research Thoughts, 9 (11): a37 - a40.

Jamdhade, V. (2021). Book Review: Happiness Quotient. JBNB, 11: 1-4.

Two Research Papers on GSJ UGC Listed Journal Group-II /Scopus Indexed by **V.M. Jamdhade** (2022). Documentation Of Homeopathic Medicinal Flora From The Navi Mumbai Region Of Maharashtra. *GIS SCIENCE JOURNAL* Volume 9(1) Page No: 564-573 DOI: 20.18001.GSJ. 2022.V9I1.22.38526 ISSN NO: 1869-9391

**V.M. Jamdhade** (2022). Ethnobotanical Application Of Wild Vegetables From Uran And Panvel Region Maharashtra *GIS SCIENCE JOURNAL* Volume 9(1) Page No: 574-581 DOI: 20.18001.GSJ. 2022.V9I1.22.38527 ISSN NO: 1869-9391

#### **Patents**

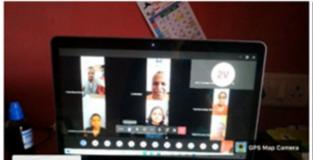
Dr. Vinda Manjramkar (Associate Professor, Dept of Zoology) has been granted four patents by Australian Government on following inventions -

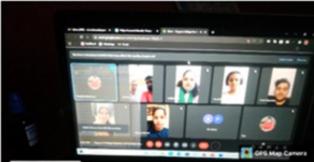
- **'A novel method for preparation of silver nanoparticles'** Patent Number 2021103195 granted on 21st July 2021.
- 'An organic food preservation composition' Patent Number 2021104201 granted on 13th October 2021.
- **'A method for formulating natural disinfectant using orange peel waste'** Patent Number 2021107045 granted on 1st December 2021.
- 'A Method for formulating vegetables and fruits waste culture medium for industrial fungal culture' Patent Number 2021106648 granted on 8th December 2021.

**Dr. Moitreyee Saha**Coordinator, Research Committee

# **Special Cell**

On Saturday, January 8, 2022, from 3:00 p.m. to 5:00 p.m., a webinar/cum meeting for junior and degree college students on "Free ship and scholarship" was held. The webinar was attended by students that intended to apply for a free ship/scholarship. Students were directed and guided by Mr. Ramchandra Shinde (Senior Clerk) and Mr. Chetan Moynak (Office Superintendent). Dr. Sangita Meshram (Special Cell Coordinator) encouraged students to apply for the Free Ship/Scholarship for the Academic Year 2021-22.





**Dr. Sangita S. Meshram** Co-ordinator, Special Cell

# **Student Leadership Committee**

The Student Leadership Committee is a committee which nurtures leadership quality in our students. In an online meeting conducted on 16 July 2021, two captains for the Student Leadership Committee were nominated. Mr. Atul Singh (T.Y.B.Sc. Botany) and Ms. Rutuja Adhav (T.Y.B.Sc. Zoology) were nominated as the leaders. A logo for the Student Leadership Committee designed and presented by Mr. Atul was accepted as the logo for SLC after few modifications.

SLC helped in the smooth conduction of the following programmes:

Five days **international webinar for the students** 'The art of writing research paper' (7<sup>th</sup> October 2021 to 12<sup>th</sup> October 2021) - The student leadership committee members managed the entire online program. The SLC members introduced the resource persons, read their biodata, conducted the question answer session and delivered the vote of thanks. The five days program had seven national and one international personality as resource persons. Total 320 participants attended the webinar. A positive feedback was given by the majority of the attendees.

The student leadership committee in collaboration with Rotaract club of Navi Mumbai organised a webinar 'Exam stress management' by speaker Jayanti lyenger on 19th October 2021. Total 108 participants attended the webinar. A positive feedback was given by the majority of the attendees.

An initiative of participation of student leaders in **CII India We Want: A National Level Debate Competition** was taken by Dr. Moses Kolet in the academic year 2020-21. A total of 6 groups with 12 students participated in the competition. The first prize in the Marathi section was bagged by students Mr. Siddhant Pradhan and Ms. Samidha Shetye (T.Y.B.Sc. Human Science) of our college.

Dr. Moitreyee Saha

Coordinator, Student Leadership Committee

# **Woman Development Cell**

Women development cell of B.N.Bandodkar college of Science had organised a guest lecture on January 15, 2022 at 11 a.m. through Google Meet. The guest speaker Mrs. Seema Khandale (MSW and Founder of Ashay Social Group) was invited to deliver a talk on "Awareness and promotion of sustainable menstrual options".

It was a session full of all the menstrual options available and how the menstrual cup or cloth pads are better options as compare to the easily options available in the market. Rutu cup option is the best amongst all the available options was the emphasis of the speaker and it was very well explained by the speaker by solving the doubts as well.

Supriya Naik and Surabhi Singh of T.Y.B.Sc. Mathematics students anchored the entire programme followed by the vote of thanks.

Fifty-two students from SYBSc and TYBSc attended the programme.

Women development cell of B.N.Bandodkar college of Science had organised a guest lecture on January 24, 2022 at 12 p.m. through Google Meet. The guest speaker Mrs. Darshana Kedare (POSH consultant, Public Speaking/communication expert) was invited to deliver a talk on "Prevention, Prohibition, and Redressal of Sexual Harassment of women employees and students of Higher Educational Institute".

Following important points were discussed during the talk:

- 1. Evolution of POSH law
- 2. 1997 Vishakha guidelines
- 3. What is Sexual harassment?
- 4. Forms of sexual harassment
- 5. Hostile working environment
- 6. Salient features of the law
- 7. Process of making complaint of Sexual Harassment
- 8. Process of conducting enquiry
- 9. Guidelines of complaint
- 10. Preventive measures

Surabhi Singh of T.Y.B.Sc. Mathematics anchored the entire programme followed by the vote of thanks.

Eighty seven students from FYBSc, SYBSc and TYBSc attended the programme.

Mrs. Minal Wankhede Co-ordinator, Woman Development Cell

# 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 & 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 Google Meet on 21st June 2021in collaboration with Ambika Yog Kutir, Thane. All together 87 participants attended this virtual 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 training. 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 the students and staff to learn and practice yoga for total health.

This year, an online YCB course for yoga volunteers (YV) was arranged by the Yoga Committee in collaboration with Ambika Yog Kutir and Gymkhana, under the guidance of Mrs. Nilima Shastri Madam. Mrs. Snehal Jadeja Madam, Mrs. Seema Kukade Madam and Mrs. Medha Madam gave the training. The duration of course was 2 months. 18 non-teaching staff members successfully attended and completed this course and will be soon awarded with the certificate.

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. Pimpre Coordinator, Yoga Committee

# १२ वी करिता करिअर गाईडन्स

सालाबादप्रमाणे याही वर्षी १२ वी करिता छोटेखानी करिअर गाईडन्स वेबिनार द्वारे सपंन्न.

बा. ना. बांदोडकर विज्ञान महाविद्यालय ठाणे व BRDS career guidance group यांच्या सयुंक्त विद्यमाने खास १२ वी. सायन्सच्या विद्यार्थ्यांसाठी करियर गाईडन्स कार्यक्रमाचे आयोजन केले होते. प्रमुख व्याख्याती रोहिणी शर्मा यांनी विद्यार्थ्यांना मार्गदर्शन केले व त्यांच्या समस्यांचे निराकरण ही केले. आजच्या काळात विद्यार्थ्यांना विविध प्रकारच्या वाटा उपलब्ध आहेत. ज्यांची ओढ आर्किटेक्चर, इंटिरियर डिझाईन, तसेच सोसायटीच्या आवारात गार्डन डिझाईन्स एक ना अनेक प्रकारच्या कलेतून आपली आवड आणि जॉब नोकरी व्यवसाय करु शकतो. तसेच यासाठी कोणत्या परीक्षा द्यायच्या कोणते महाविद्यालय आहेत. या संदर्भात मार्गदर्शन करण्यात आले.

आपल्या महाविद्यालयाचे प्राचार्य डॉ. मोजेस कोलेट सर सदर कार्यक्रमास आवर्जून उपस्थित होते. त्यांनी विद्यार्थ्यांना शुभेच्छा दिल्या व सदर उपक्रमाचे कौतुक केले. सदर कार्यक्रमात लेफ्टनंट बिपीन धुमाळे, प्रा. बालाजी घुगे, उपस्थित होते. शेवटी प्रा. अनिल आठवले यांनी सर्वांचे आभार मानले.

प्रा. अनिल आठवले

# PROMISING CAREERS



# **Careers in Biochemistry**

Biochemistry is the branch of science that explores the chemical processes that take place inside all living things, from bacteria to plants and animals. It is a laboratory based science that brings together biology and chemistry, by using chemical knowledge and techniques to help understand and solve biological problems. Biochemistry is an exciting and rapidly developing subject, which is at the forefront of breakthroughs in areas as diverse as drug discovery, forensic science, and gene editing and developing sustainable sources of energy.

Biochemists play an important role in contributing to advances in a wide variety of areas, including health, agriculture and the environment. Progress in the biochemical understanding of disease and complex molecular structures has led to medical applications including the screening of unborn babies for disease, investigation of possible cures for illnesses such as cancer and AIDS, and the formulation of new and improved medicines.

Biochemistry links to many other areas of biological science, from microbiology to pharmacology, genetics and physiology. It is a rapidly advancing field, with new technologies including synthetic biology and gene editing. Many of these developments can provide both benefits and challenges for society. Biochemistry degrees typically include topics such as: cell biology and signaling, genetics and DNA, structure and function of molecules, enzymology, proteins and membranes, microbiology and viruses, disease mechanisms, metabolism.

Since biochemistry is a fairly broad field, it allows one to specialize in a variety of areas, for example, you may choose to pursue further study, or a career in one of the following areas -

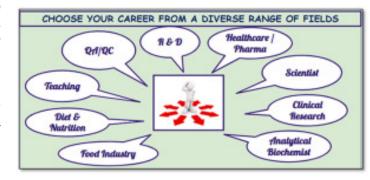
- Proteomics: The study and cataloging of proteins in the human body. What are the
  component proteins, how they interact with each other, what kinds of metabolic networks or
  signaling networks they form, etc. These proteins and how they interact with each other
  may hold the keys to curing diseases in humans or targets for drug development.
- **Genomics:** Large-scale investigation of the structure and function of genes. This knowledge aids in drug discovery and development, agro-science research, as well as other fields
- **Neurobiology:** Branch of biology that deals with the anatomy and physiology and pathology of the nervous system.
- **Neurochemistry:** Includes research on the molecular, chemical, and cellular biology of the nervous system.
- Reproductive Biochemistry: The study of the biochemistry, physiology, endocrinology, cell biology, genetics and molecular biology relating to human and animal reproduction.
- **Molecular Biology:** The study of genetic composition and the mechanisms of living organisms at the molecular level.
- **Immunology:** The study of disorders and treatments of the immune system including its structure and function, disorders of the immune system, immunization and organ transplantation.
- **Biotechnology:** Use of living organisms to make a product or run a process developed through basic research and now applied to research and product development.

- **Genetic Engineering:** The manipulation of an organism's genetic material to modify the proteins it produces, the selective, deliberate alteration of genes.
- **Toxicology:** The study of the harmful effects of substances on the body, including the level of toxicity, the mechanism by which toxicity occurs and how it can be controlled, the study of the harmful effects of chemicals on the health of organisms.
- **Enzymology:** The branch of biochemistry dealing with the chemical nature and biological activity of enzymes.
- **Bio-inorganic Chemistry:** Knowledge of biological functions of metal complexes in living organisms.
- **Antibiotics:** Class of natural and synthetic compounds that inhibits the growth of, or kills, other micro-organisms.

An interdisciplinary science degree in a field like biochemistry can be a great starting point for a career in the medical or research sciences. Because biochemists are well-versed in both

biological science and chemistry, they are perfectly suited to jobs in a variety of fields where the two disciplines frequently overlap.

The following list is a brief sampling of the kind of employers that might hire you after you've graduated, as well as a brief overview of the type of function you may be hired to carry out.



- Agribusiness Companies :
   Developing safer and more effective agricultural products
- Hospital Laboratories : Analyzing samples from patients to provide treatment advice
- Pharmaceutical Companies : Developing drugs and other pharmaceutical products
- University Laboratories: Researching anything from gene therapy to disease treatments
- Cosmetic Companies : Creating safer and more effective products
- Food Product Development or Regulation Companies : Ensuring the safety of food
- Law Firms: Dealing with scientific cases
- Government (all levels): Providing advice on the latest scientific issues
- Sales and Marketing Firms: Marketing and selling the latest technology
- Publishing Companies: Commissioning, proofreading and peer reviewing scientific articles.

Ms. Rucha Khadase Assistant Professor, Department of Biochemistry 

# **Career Guidance: Bioinformatics**

The amalgamation of biological sciences and information technology has led to the birth of bioinformatics. It is an interdisciplinary field that leverages computation methods to analyze large sets of biological data. The objective of bioinformatics is to use information to query, interpret and draw meaningful findings from biological data. Bioinformaticians typically work closely with biologists, plant scientists, and computer research scientists, therefore, they need a solid background in biology and computer science. This field is slowly becoming popular due to its research intensiveness and depth. It is paving the way in core job sectors due to the dynamism it offers. Bioinformatics has become a necessary subject in the core medical sciences research due to a number of reasons. The COVID-19 pandemic is a live example where bioinformatics was extensively used to analyze the genomic sequence of SARS-CoV-2. It was used to predict effective drugs against the virus, vaccines development, and its study on population impact.

#### Specializations in bioinformatics

Bioinformatics includes three different specializations:

- **Bioinformatics scientists:** This area of specialization includes biologists using computational tools to analyze the science behind living systems.
- Bioinformatics users: Researchers working in the industry or academia make up most of this area of specialization. Working with domains, these researchers use data for their job. However, bioinformatic users can also be medical professionals, like genetic counselors and physicians, who use data to diagnose, treat and help patients.
- **Bioinformatics engineers:** This area of specialization includes professionals using statistical sciences and computational skills to create innovative methods for bioinformatics users and scientists to do their job efficiently

#### What are the career options?

Bioinformatics is a rapidly growing career field and an emerging scientific discipline. This course focuses on employing existing bioinformatic resources - mainly web-based programs and databases - to access the wealth of data to answer questions relevant to the average biologist, and is highly hands-on. There are different types of career opportunities available for different stream students, Scientific Curator, Gene Analyst, Protein Analyst, Phylogenitist, Research Scientist / Associate, Data base programmer, Bioinformatics software developer, Computational biologist, Network Administrator / Analyst, Structural analyst, Molecular Modeler, Bio-statistician, Biomechanics, Database programmer, Cheminformatician, Pharmacogenetician, Pharmacogenemics, Research Scientist / Associate.

#### **Required Skills for Bioinformatics Jobs**

- Software & Programming: C, C++, Java, R, MATLAB, Perl, Bash, Python, Galaxy (Linux and nix sysadmin skills are kind of mandatory)
- Statistics: R and other Bio-Statistical software
- Bioinformatics Tools: Blast, BLAT, Clustalw, Bioedit, T-coffee sequence analysis algorithms and clustering tools

- Bioinformatics Resources and Database Skills: UCSC genome browser, NCBI,Entrez, SRS Database, UniProt, SwissProt, MySQL
- Sub-domain software (toolkits): Scaffold, ProtMAX (Proteomics), ChemmineR, Enalos, Indigo, PerlMol, OEChem (Cheminformatics), Oracle Argus, ARISg, AutoDock, SwissDock (Molecular Docking & Drug Discovery) etc.
- Data Mining (being able to extract data from multiple resources is invaluable)
- Data Visualization (you need to extract complex data and interpret it into models to communicate with biologists and other team members)
- Understanding of Molecular Biology & Genetics
- Soft Skills: Communication, Teamwork, Flexibility, Patience

#### **Required Education**

- Basically, there are two paths for making a career in bioinformatics. Either you take the Computer Science & Engineering or Biosciences at the Undergrad level.
- Computer scientists must become fluent in the life science terminology of genetics, genomics and cellular biology. Biologists must pick up skills in data analysis, including statistics, logic and programming.
- At the 10+2 level, the ideal combination would be Physics, Chemistry, Math & Biology or Physics, Chemistry, Biology & Computer Science.
- At the undergraduate level, you could pursue Biology, Biotechnology, Biomedical Science, Genetics, Computer Science, Statistics, or Chemical Engineering.
- At the Masters level, you would need a specialization in Bioinformatics, Computational Biology, Epidemiology, Bio-Statistics, or Applied Statistics.

#### Top Colleges/Universities for Masters Programs in Bioinformatics

- CMS College of Science and Commerce, Coimbatore
- Rajiv Gandhi Institute of Information Technology and Biotechnology, Pune
- Holy Cross College, Tiruchirappalli
- Periyar University, Salem
- BHU, Varanasi
- Stella Maris College, Chennai
- Vellore Institute of Technology, Vellore
- Gittam Institute of Science, Vizag
- DY Patil Biotechnology & Bioinformatics Institute, Pune

- DAV College, Chandigarh
- Amity University, Noida
- IIIT Hyderabad
- IIAR Gandhinagar
- Manipal University
- Vels University, Chennai
- Veterinary College and Research Institute, Chennai
- Amrita VishwaVidyapeetham University, Kollam
- Pondicherry University
- IIDS Allahabad

#### Where Do Bioinformaticians Work?

Bioinformaticians are found in every industry, research lab, pharmacy companies, educational bodies and institutions. Most of them are hired by the companies mentioned here.

- Most commonly they are found in IT companies such as Google, Microsoft, and more as software developers
- The pharmaceutical industries such as Pfizer, Johnson and Johnson, Novartis, and more hire research scientists. You might have heard of the Pfizer vaccine developed against COVID-19.
- Educational institutions such as Oxford, Harvard MIT, and similar computer science departments have professors and researchers from the bioinformatics domain.
- Individual bodies of research and training are occupied with bioinformaticians for specific research projects related to human physiology- diseases and pathways.
- As network analysts and database developers in international research centers- NCBI, EMBL, DDBJ, and more.
- At medical and clinical research centers for curating and annotating the available medical data

Considering the demand for bioinformaticians in both industrial and non-industrial domains, it would be right to say that **bioinformatics is one of the best career option**. The demand is high but the supply is low. Hence, becoming a bioinformatician and choosing the in-demand job profile can really boost the career. It is undoubtedly a growing field. One can say that it is merely the beginning of the bioinformatics era.

Ms. Zahera Momin
Assistant Professor,
Department of Biotechnology and Microbiology

## Avenues in Higher Education and Career in Botany

The graduate learners who are inclined to nature, wish to know more about life secrets of beautiful plants and want to explore medicinal or nutritional qualities of plants then 'B.Sc. Botany' would be the correct choice to opt for a final year degree course. Botanist work includes fieldwork for studying plants in their natural habitat, as well as working in the laboratories for research. As a career field, Plant science is highly rewarding for individuals who are especially interested in the subject and wish to explore to the deepest possible extent.

After graduation in Botany, candidates can pursue -

- Higher education (M.Sc. and PG. Diploma) and research (PhD) in their chosen discipline
- Vocational courses in their areas of interest.
- Employment avenues in public, private and social sectors
- Career as an entrepreneur

The followings are the diverse array of fields where graduate students can develop their own bright career -

| Avenues in Higher Education                                                                                                                                                                    |                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PG Diploma/<br>Professional<br>Courses                                                                                                                                                         | Forensic Technology, Medical Transcription, Small Scale Industry, Hospital Management, Nature Photography, Perfumery, Paramedical Course, Lab Technician, Wine Technology, Naturopathy, Travel and Tourism, Greenhouse Management       |
| M.Sc.                                                                                                                                                                                          | Taxonomy, Plant Biotechnology & Cytogenetics, Plant Biochemistry, Herbal Science, Plant Physiology, Herbal Science, Environmental Science, Mycology, Bioinformatics, Nutraceuticals, Biodiversity, Biotechnology, Bioanalytical Science |
| Ph.D.                                                                                                                                                                                          | Pharmacognosy, Preclinical pharmacology, Ethnobotany, Paleobotany, Anatomy, Ecology, Plant Pathology, Plant Biotechnology                                                                                                               |
| Above mentioned specializations of PG Diploma and M.Sc. can invite direct career opportunities in respective fields while Ph.D. candidates are usually absorbed by various research institutes |                                                                                                                                                                                                                                         |
| Civil and Defense<br>Services                                                                                                                                                                  | UPSC, Administrative Officer, IPS, Excise Officer, Educational Officer, Army Officer, Deputy Collector, Forest Officer, Plan Health Inspector, MPSC                                                                                     |
| Usually placements are done after successful completion of entrance examination/s and or interview/s                                                                                           |                                                                                                                                                                                                                                         |
| Entrepreneurship                                                                                                                                                                               | Nursery Owner, Landscape Designer, Clinical Science, Biofertilizer manufacturer, Floriculture, Mushroom Cultivation, Organic Farming, Garden Contractor, Soil Technologist, Food Processing                                             |
| Small Scale                                                                                                                                                                                    | Nutritionist, Farm Consultant, Lawn Consultant                                                                                                                                                                                          |
| Candidates with leadership quality and management skills are best suited to run their own businesses                                                                                           |                                                                                                                                                                                                                                         |

The above indicated opportunities await students after successful completion of their graduation in the subject of Botany. Thus B.Sc. Botany course serves as a pioneer step to all students venturing in an ocean of biological sciences.

Mr. Aditya Mhatre & Ms. Priya Singh Assistant Professor, Department of Botany

## Avenues in higher studies & Career guidance in Statistics

#### What is Statistics?

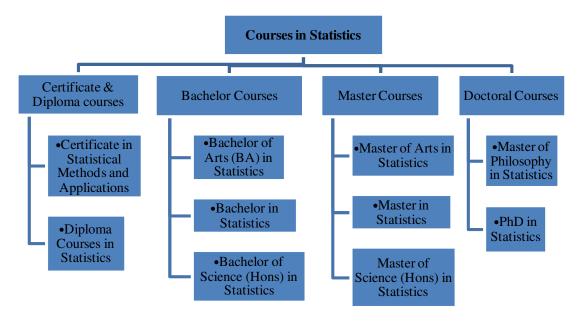
"Statistics is a term which relates to the study of the analysis, collection, presentation and organization of numerical data. Statistics can interpret aggregates of data which are too large to be understood by ordinary observation". "Statistics" has come among the one of the best choices among students to choose as their career. Professionals, who use statistics to design, collect and interpret data in different fields of industry called "Statisticians".

#### **Branches of Statistics:**

**Descriptive Statistics**: It uses the data to provide description of the population in a summarize way through graphs, numerical calculations, tables, etc.

**Inferential Statistics**: It uses a random sample of data taken from a population to describe and make inferences about the population.

There are many courses available in this field from diploma level to postgraduate level. In India, some best courses are mentioned below:



In these courses study, you will be taught about the basic concepts of logic, statistical reasoning, mathematics, evaluate data, analysis data & research methods.

#### **Basic Eligibility:**

Students are eligible to apply for bachelor courses after 12<sup>th</sup> with Mathematics or Statistics as a compulsory subject. For admissions in master courses you should have a bachelor's degree in statistics from any recognized university. Candidates seeking for admissions in doctoral courses must hold a master's degree like M.Sc. in Statistics.

#### Skills Required:

- Strong Foundation in Mathematical Statistics
- Logical Thinking & Ability to Comprehend Key Facts
- Ability to Interact with peoples from various fields to understand the problems
- Strong Background in Statistical Computing
- Ability to stay updated on recent literature & statistical software
- Versatility in solving problems

#### Admission:

Firstly, you should meet the eligibility criteria for the course. One of the premier institutions of India, Indian Statistical Institute (ISI) offers admissions on the basis of an admission test named ISI exam. List of other entrance exams organized by different universities for admission in Statistics is mentioned below:

- Aligarh Muslim University: Department of Statistics and Operations Research Entrance Exam
  (AMU)
- Indian Statistical Institute Entrance Exam (ISI)
- University of Pune Entrance Exam
- Kalinga Institute of Industrial Technology Entrance Examination (KIITEE)

#### Top colleges which offer courses in this field are:

- Indian Statistical Institute, New Delhi
- Indian Statistical Institute, Bangalore
- Indian Statistical Institute, Kolkatta
- Xavier's College, Ahmedabad
- University of Delhi, New Delhi
- Aligarh Muslim University: Department of Statistics and Operations Research, Aligarh

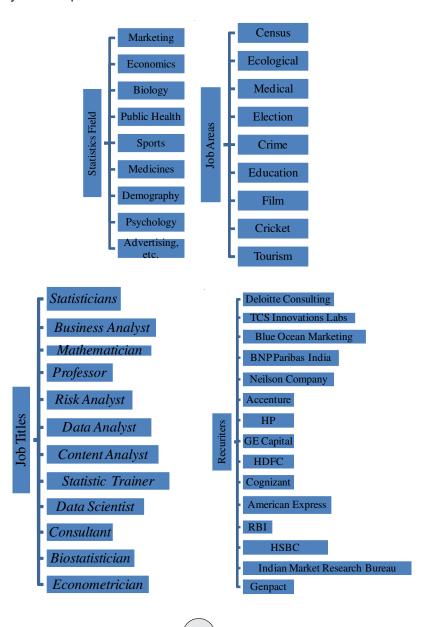
#### List of colleges in Mumbai:

- B.N. Bandodkar College of Science (Autonomous), Thane.
- Mithibai College of Arts, Chauhan Institute of Science & Amrutben Jivanlal College of Commerce and Economics
- Kishinchand Chellaram College
- Bhavan's College
- D. G. Ruparel College of Arts, Science and Commerce, and many more.

#### Career, Fields Jobs & Recruiters:

What can you do with a Statistics Degree?

- This career offers great job opportunities in India and also in abroad. The statisticians and their analytic skills are highly demanded in today's job market.
- You can use statistics in various fields such as business, industry, agriculture, government, private, computer science, scientific, health sciences & other disciplines.
- After completing you study in statistics, you can also apply for the Civil Services, Indian Statistical Services & Indian Economic Services exams.
- Those complete the degree, one can opt for finance, analytics, software development, actuarial science & many more options.?



#### Salary:

"A Statistician earns a very handsome salary package in India and abroad."

In India, the average salary of a statistician as a fresher can be expected between **Rs. 5 to 7.5 lacs per year.** After gaining the sufficient experience in this field you can earn more than **Rs. 8 lacs per year.** 

In the United States, you can easily earn an average salary of **\$100 k annually**. Candidates with good experience and master degree in this field can earn a awarding salary packages.

#### **Duties of a Statistician:**

- Collecting and analyzing the data.
- To design experiments or surveys to collect the required data.
- Applying statistical methods to solve practical problems in business, science and other fields.
- Writing reports and articles of their analysis.
- Presenting results to clients or authorities.

#### **Books & Study Materials:**

List of the best books to study Statistics:

- Statistics (by Freedman, Pisani & Purves)
- Modern Applied Statistics (by Venables & Ripley)
- Probability and Statistics for Engineering and the Sciences (by Devore)
- The Elements of Statistical Learning: Data Mining, Inference, and Prediction (by Hastie, Tibshirani & Friedman)
- All of Statistics: A Concise Course in Statistical Inference by (Larry Wasserman) and many more.

#### Skills for your CV:

A degree in statistics equips you with strong data analysis and manipulation skills. You have the opportunity to complete data collection and numerical measurements, undertake project work and give presentations, which develop your subject-specific and general skills.

You develop key skills in analytical research methods, interpreting results, drawing conclusions and recommendations from data, identifying and working with patterns in data, problem solving and logical thinking and applying abstract mathematical concepts to practical problems.

You also develop general skills that all employers expect, including communication, presentation, information management, organization and planning, teamwork and time management.

Ms. Sumaiya Shaikh Head, Department of Statistics Inspirational Tales

## ममतेचा भवसिंधू - सिंधुताई सपकाळ ....

माणसाचं जगणं हे सुंदर असावं पण, असं सुंदर जगणं प्रत्येकाच्या वाटेल येत नाही. मात्र याचा अर्थ असा नाही की; ते आपण सुंदर करू शकत नाही. सिंधुताई सपकाळ यांनी त्यांचे अतिशय खडतर आयुष्य, कठीण जगणं अगदी सुंदर केलं होतं आणि फक्त स्वतःचंच नाही तर आपल्या सोबत अनेक निराधार मुलांच्या आयुष्यालाही त्यांनी कलाटणी दिली.

अगदी जन्मल्यापासूनच त्यांचे आयुष्य संघर्षमय होते. मुलगी जन्मली आणि ती नकोशी होती म्हणून सर्वप्रथम त्यांच्या आईने त्या मुलीला चिंधी हे नाव दिलं. खरा तर चिंधी डोक्याने हुशार आणि तल्लख होती शाळा शिकायची इच्छा होती पण घरात आईचा विरोध होता. विडलांच्या पुढाकाराने ती शाळेत जाऊ लागली आणि शिकता शिकता ती पार्टटाईम चौथी झाली. आता पार्टटाईम असा प्रश्र्न असेल तर; त्या गुरं चरायला न्यायच्या आणि गुरं पाण्यात बसली कि सिन्धूताई शाळेत जाऊन बसायच्या असं करत शिकल्या म्हणून पार्टटाईम. कमी वयात लग्न आणि वयाच्या विसाव्या वर्षापर्यंत त्यांच्या पदरात चार मुलं होती. सगळीकडून जाच सहन करत असताना आयुष्यात असाही एक क्षण आला की आयुष्य संपून टाकायाच्या विचारात असताना त्या चिखलदऱ्याला पोहचल्या मात्र, तिथल्या हिरव्यागार निसर्गाने त्यांना जाण्याची उमेद दिली. सगळी मरगळ झटाकून तिथून त्या चिंधीची सिंधू होऊन बाहेर पडल्या. आता मरणाचा विचार कधीच करायचा नाही असा निर्धार करून निघाल्या.

उदरिनर्वाहसाठी त्यांनी अनेक दिवस परभणी, नांदेड, मनमाड सारख्या रेल्वे प्लॅटफॉर्म्सवर भीक मागून गुजराण चालू केली आणि रात्रीच्या किर्री काळोखात सुरक्षित जागा म्हणून त्यांनी स्मशानाचा सहारा शोधला. स्वतःच्या जगण्याची भ्रांत असताना जी अनाथ निराधार मुलं भेटत गेली त्यांना सोबतीला घेऊन सिंधुताईंनी जगायला सुरवात केली. गोर गरिबांसाठी अनेक लढे दिले, निराश्रितांसाठी झटल्या शेवटच्या श्वासापर्यंत त्यांनी २००० पेक्षा जास्त मुलांना दत्तक घेऊन मोठं केलं. अनाथांसाठीचा हा लढा माई गेली अनेक वर्ष लढल्या आणि त्यांनी ती जबाबदारी लिलया पेलली. आजच्या घडीला माईंच्या संस्थेचे पाच आश्रम आहेत त्यातील दोन मुलांचे, दोन मुलींसाठी आणि एक गायींचा आहे. अगदी जन्म झालेल्या बाळापासून ते वय वर्ष ७२ पर्यंत वयाची अनाथ मुलं माईंच्या आश्रमात राहतात.

आजच्या घडीला डॉक्टर्स, इंजिनिअर, वकील अशा विविध क्षेत्रात माईंची मुले चांगल्या पदांवर कार्यरत आहेत . या आश्रमांची अजून एक खासियत म्हणजे मुलांना वयाच्या १८ वर्षी आश्रमातून काढून टाकत नाहीत. त्यांचा शिक्षण पूर्ण होऊन नोकरी लागली की माई स्वतः या मुलांची लागण लावून देतात संसार थाटून देतात मग मुलं आश्रम पासून लांब राहतात. माईंच्या निधनानंतर त्यांच्या हा वास त्यांच्या मुलीने घेतलाय. आजच्या घडीला सिंधुताई सपकाळ यांच्या कुटुंबातील सदस्यांचा आकडा १००० हुन अधिक आहे. अनेक मुलं, मुली, सुना, जावई, नातवंड असा भाला मोठ्ठा परिवार. या सगळ्यांवरच माईंचे निस्सीम प्रेम होते आणि मुलांचे त्यांच्या माईवर. असं निस्वार्थ जगायला मोठा काळीज लागतं यात दुमत नाही.

माई नेहमी म्हणायच्या भाषण है तो राशन है. त्यांनी स्वतःच्या जीवावर हजारो जीवांचा सांभाळ केला अगदी शेवटपर्यंत माई अनेक ठिकाणी जाऊन भाषणं करायच्या सभा गाजवायचा. आश्रमांसाठी देणग्या जमा करायच्या. आजवर त्यांना ७५० राष्ट्रीय आणि आंतर राष्ट्रीय पुरस्कारांनी सनमानीत करण्यात आले. त्यांच्या संस्थांसाठी आजही सरकारी अनुदान पेक्षा समाजातील विविध क्षेत्रातील मान्यवर आणि आपल्यातल्या सामान्य जनतेने दिलेल्या देणग्यां मधून निधी उभारला जातो.

सिंधुताई सपकाळ यांचा जीवन प्रवास एवढा खडतर होता की अगदी सिने सृष्टीलाही त्याची भुरळ पडली आणि रसिकांनी सुद्धा त्यांच्या जीवनात आधारित सिनेमाला भरभरभरून प्रेम दिले. वनवासी हे माईंचे आत्मचिरत्र गाजले. अशा प्रेरणादायी

मातेकडून आपण प्रत्येकानेच काहीतरी शिकणे गरजेचे आहे. आपण ज्या समाजात राहतो त्याचे काहींतरी देणे लागतो ही भावना प्रत्येकाच्या मनात निर्माण व्हायला हवी. माईंनी त्यांच्या ७३ वर्षांच्या जीवन प्रवासात अनेकांची मदत केली. अनेकांची घरे बसवली असा आपल्या सगळ्यांकडून माईंना विनम्र अभिवादन. त्यांनी केलेल्या कार्याची जाणीव प्रत्येकाला झाली आणि आपल्या हस्ते समाजोपयोगी एखादं जरी कार्य झाले तरी ती सिंधुताईंना आपण अर्पण केलीली श्रद्धांजली ठरेल..

माधुरी शिऊडकर

प्रयोगशाळा सहाय्यक. वनस्पतिशास्त्र विभाग



## My Inspiration

Many of you must've never heard about the person I'm going to write about but on my life this person has a colossal effect.

#### Paul Cadden

Born Glasgow, Scotland in the year 1964 cadden completed BFA DEGREE in animation and illustration at James Watt College in 2003, preceded by a 4-year course in print and illustration at Glasgow College of building and printing.

If asked about his well-known traits, Cadden strives to 'intensify the normal' and create scenes and portraits that have an emotional and social effect on the viewer. His pencil drawings look effortless. ... Paul Cadden maintains that hyper-realism is about more than representing reality in a new medium.Paul Cadden wants to capture all of a photo's details, he uses nothing more than a pencil. Cadden describes his art as hyperrealism—drawings that are so realistic that they are easily mistaken for photographs. The Scottish artist bases his work off photographs of objects and people that catch his attention.Cadden defines art as pouring personal subjectivity into an object in the hopes that other person's gains enjoyment from it.

Cadden produces around seven pieces per year, taking an average of between three and six weeks each. His works are usually in A1 or A0 sizes and are often created using only a pencil, though he also uses pastels, watercolours, acrylic, and chalk. His subjects are usually people, but also include street scenes, rubbish, cars and horses. They sell for up to £15000 each and have been exhibited in London, New York, Glasgow, Andorra and Atlanta. In 2011 Cadden was shortlisted for Artist of the year

Today when I sketch, I pour all my emotions and break boundaries to to make the art ALIVE. And while I do this I aspire to be a tinch of my role model because I live by his motto which says, "Although the drawings and paintings I make are based upon photographs, videos stills etc., the idea is to go beyond the photograph."

**Mr. Shreyas Phansekar** S.Y.B.Sc. Human Science

## Finding me in myself

As I write this I can feel the whole scenario coming in front of my eyes, a mini roller coaster ride that had some ups and some downs but as we all know at the end everything happens for a reason and in my case, there was one too. So the things start when I was in school a shy not so happy go girl who used to be in her, I was among those who just come to school to study and then back to home no good friends no fun nothing the days were just passing but I was not happy I felt something was missing but didn't dare to find what. I had two friends but as I mentioned they used to dominate me and I always used to feel bad for that but I kept that in myself, cried some nights, and used to prepare for the next. The things were just going on but something really big was on the way for me of which I didn't have any clue. I was in 7th standard and there was an event for 15th August in which we were supposed to give our names for the event but as I told I was a very shy and introverted person so I didn't give any names but my Social-Science teacher gave my name for a presenting speech. I who never went in front of 10 people now was supposed to face an entire crowd. I didn't know from where or what to start but he gave me confidence that I can do this, but then suddenly my speech got CANCELED and I was handed over with a new 2-page full-fledge speech I was blank at that moment "How can I prepare this in the 11th hour and also with no experience, no confidence, what more could be asked apart from this but then my sir came and I got another dose of confidence from him. The event day arrived I was shivering, there was a conflict going on between my mind and heart but I did, I got stuck in between but my sir cheered me up. He was listening to me very patiently throughout my speech and that's what woke my inner-self. After that day I didn't remember any single day I looked back, my graph from that day is constantly increasing without any fall. Now I can proudly say that I'm happy to be what I am. I have more than 300k+ people following and learning by me on an informative app called RIZZLE of which I'm on the very first list of teens I have my YouTube channel in the name of Akanksha Singh official with more than 1000+ subscribers and most important I have great communication skills and that confidence with which I can speak anything in front of anyone confidently. If I can do this you definitely can achieve your goals.

> Ms. Akanksha Singh F.Y.B.Sc. CBZ



Fitness Guru

# 3 Tips To Keep You Physically And Mentally Fit

The physical immune system safeguards our physical well-being; so does our psychological immune system that defends our mental well-being. Psychologists Daniel Gilbert and Timothy D. Wilson formulated the phrase 'psychological immune system' that encompasses all our cognitive mechanisms, which fortify us from experiencing despondent or low-spirited emotions.

Today even the World Health Organization defines health as not mere physical well-being but the physical, mental, social and spiritual well-being of an individual, this is the definition given by the World Health Organization of the United Nations.

In other words, the mind can impact the body negatively or positively. That is why the concept of holistic health is becoming so popular nowadays.. So what I wish to bring your attention to is the importance of our thoughts. They impact the quality of our work, the quality of our life, the quality of our relationships and every other realm of our life.

3 tips to keep you physically and mentally fit:

#### 1. Healthy Diet

The wise partake of foods that are conducive to good health and have a peaceable impact not only on the body, but also upon the mind. "By eating pure food, the mind becomes pure." foods such as grains, pulses, fruit, and vegetables are the pure foods that bestow good health, virtue, and happiness.

Have one lemon a day in any form, A lemon a day keeps the doctor away.

#### 2. Breathing the Right Way

Most of us do not take deep breaths either because we are caught up in the buzz of life, or being unaware of the importance of deep breathing. During normal breathing, only about twenty million alveolar cells in the lungs receive oxygen; whereas the remaining fifty-three million alveolar cells are deprived of fresh oxygen. As a result, less oxygenated lung tissues become susceptible to infectious diseases such as SARS, COVID-19, etc.

#### 3. Empower Your Mind Through Meditation

Meditation has infinite potential with three-fold benefits: spiritual, mental, and physical. A life without meditation is like a horse without reins; an automobile without a steering wheel, or a ship without a compass. Emotions consume us and can leave us completely drained and exhausted. A degree of emotional maturity is necessary to develop an adequate reserve of mental energy for creative solutions to the problems of life. The practice of meditation brings stability in emotions.

Most ailments have their roots in the mind. When one harbours hatred, envy, anxiety, tension, fear, etc. Meditation on God heals the various ailments of the mind, resulting in the enhancement of vital energy and the improvement of physical health.

Medical science today has also come up with the understanding of the holistic health which was mentioned in our scriptures thousands of years ago, hence the impact of the mind, is upon the body as well, and if we wish to achieve good health, we need to eliminate the negative emotions within ourselves such as tension, anxiety, greed envy hatred and fill our inner being with positivity, inspiration, and joy.

Mr. Saurabh Singh , T.Y.B.Sc. (Mathematics)

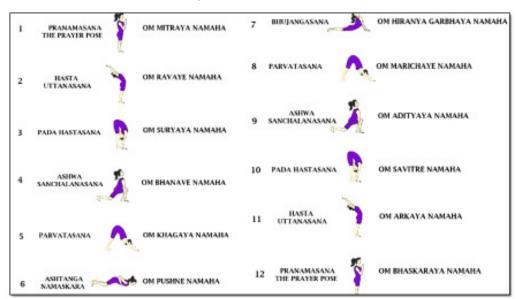
## Surya Namaskar: A Complete Exercise

Yoga is the best natural way of calming, relaxing, and being fit nowadays. Surya Namaskar is one of the yoga which helps weight loss, combat insomnia and many more. Surya Namaskar is nothing but the Sun salutation. As we all are concerned about people of this generation are so indolent that actually they are in need of yoga and exercise so, by taking this into consideration a Tribute on 75<sup>th</sup> Independence under 'AZADI KA AMRIT MAHOTSAV' ministry of AYUSH has organized a large scale virtual Surya Namaskar aiming for 75 crore Surya Namaskar from people to be fit.

The basic sequence of Surya namaskar involves from standing position to downward and upward dog poses and then back to standing posture. This particular yoga has a set of 12 asana Pranamasana, Hastauttanasana, Hastapadasana, AshwaSanchalanasana, Dandasana, AshtangaNamaskara, Bhujangasana, AdhoMukhaSvanasana, AshwaSanchalanasana, Hastapadasana, Hastauttanasana, Tadasana and each position is associated with different mantras

Surya Namaskar is mainly useful for treatment of frozen shoulders. It is considered as full body workout yoga. Many people go for Surya Namaskar for strengthening their muscles and joints. By performing this yoga everyday people become more aware of breath also they experience high dimensions of energy when they bang the perfect balance between body and mind. People get rid of many physical problems and improve their sleep cycle, blood circulation, digestive system, and many more. It is one of the best work-out that boosts our physical as well as mental ability. Surya Namaskar benefits in many ways and also recommended by many physicians for blood sugar level, back, muscles, blood pressure etc. It helps us to live in rhythm with the universe for which the sun is witnessed. "Now, it's the time for inner healing."

#### Surya Namaskar Mantras



Ms. Sneha Tiwari, T.Y.B.Sc. Chemistry

## VPM's Sports Academy and Striders

We all know the importance of sports. They play a major role to enhance our physical and mental, abilities and also help us to achieve the goals of our life. So, we must start playing sports from our childhood. Sports teach us sportsmanship, self-confidence, responsibility, self-discipline and teamwork. At school level, sports can prepare the students to face many a different challenges of life.

Taking the significance of sports into account, Vidya Prasarak Mandal set up the VPM's Sports Academy on the Jnanadweepa educational complex, especially for the students belonging to the various educational institutes of VPM. It was inaugurated by international sprinter and Arjuna awardee, Mrs. Lalita Babar- Bhosale on 15<sup>th</sup> November, 2021. As part of the academy, coaching is arranged in two sessions - three days a week in the morning and evening. Experienced and talented coaches are provided to enrich the students with knowledge and skill of sports. Training begins with basic workouts aimed to increase stamina and to achieve proper physical fitness.

The aim of the academy is to develop a lifelong passion towards exercise and physical activity of students. They also give professional athletics training for district, state, national level athletes as well as to the amateur students, who have never played but have passion for different sports.

There is always scope for more improvement in the academy regarding continuous checking of student activeness, boosting their morale and arranging internal competitions. It has to continue improving level of infrastructure, resources and facilities so that athletes can improve the overall quality and get best in class training.

In my opinion, the students should make maximum use of facilities at the academy and become successful at different levels. This is a huge step forward and I would like to congratulate VPM's Sports Academy and Striders' for the wonderful initiative.



Ms. Gauri R. Shekhadkar FYJC

## मानसिक व्यायाम

रोजच्या धकाधकीच्या आणि स्पर्धेच्या युगात माणूस यंत्रमानव कधी झाला कळलच नाही. आज मनमरातब प्रतिष्ठेचे झेंडे दिमाखात फडकताना दिसतात, कोपलेला निसर्ग आणि बदलेली जीवनशैली आपल्यालाच आजारांच्या खोल दरीत फेकून देत आहे. आठ-दहा तास थकून आलेलं शरीर मऊ मऊ बिछान्यात शांतता शोधत, सकाळी पुन्हा हे यंत्र चालू होतं आणि पैसे कामावणाऱ्यांच्या गर्दीत स्वतःला पुरत हरवून बसतं. आणि हो, जेव्हा स्वतःसाठी जगावस वाटत तेव्हा मात्र शरीरातील काही अवयवांनी, यंत्रणांनी आपली साथ सोडलेली असते.

आजकाल व्यायाम शाळेतील व्यायाम, योगासने, फिरणे, आहाराचे महत्त्व ई. गोष्टी करून 'शारीरिक व्यायामाची' कास धरता येते पण 'मानसिक व्यायाम' कोणी करत का?

'मानसिक व्यायाम' मुळात संकल्पना देखील काहींना वेडसर वाटेल पण थकलेल्या जीवाला भूतकाळातल्या किवा आवडत्या क्षणांना आठवावस वाटणं म्हणजे मानसिक व्यायाम, आवडतं गाणं गुणगुणन्यात पुरेसा वेळ घालवण म्हणजे मानसिक व्यायाम. निसर्गाच्या सानिध्याचा मनमुराद आनंद लुटण म्हणजे मानसिक आनंद, अशा बऱ्याच गोष्टी आहेत ज्यात शांतता, मनाचा खरा आनंद, समाधान आहे. खरच आपण स्वउद्धारासाठी सगळं काही करतो पण यातून मानसिक समाधान मिळत का हो? यातून पोटाची खळगी तर भरतेचं पण त्याचबरोबर मानसिक तणाव पदरात पडतो. निसर्गाने बहाल केलेल्या सृष्टीवर आपण प्रेम केल तर मानसिक तानतणाव दूर होतील. विज्ञान देखील हे मान्य करते 'आपण सतत आनंदी असलो तर आपल्या शरीरात एन्डोर्फिन नावाचा हार्मोन स्रवतो' हा 'कॅलिफोर्निया' मधल्या एका 'मानसशास्त्राने' काढलेला निष्कर्ष आहे.

आयुष्याचे दुसरे नाव संघर्षं म्हटले तर वावगे ठरणार आहे. परंतु या तणावरूपी वादळाला, चितेंच्या राक्षसाला मनाच्या प्रवेश द्वारातूनच हाकलून दिले पाहिजे. नाहीतर चिंतेच्या चितेत आपले 'मानसिक आरोग्य' पूर्ण भस्मसात होऊ शकते. हल्ली फक्त स्वतःला शोधायला वेळ लागतो, बाकी सगळ्या गोष्टी 'गूगल' वर सहज सापडतात. त्यामुळे जीवन आपण किती जगतो हे जास्त महत्वाचे आहे. हसत हसत संकट कवेत घेणे, तणावरहित आयुष्याच गुपित आहे. आज पैसे मिळवणे सोपे पण शतायुषी होणे तितकेच अशक्यप्राय झाले आहे.

कामाचा ताण हृदयावर येऊन उरलेल्या आयुष्याला छेदून जातो. एकंदरीत जीवनाच सौंदर्य वाढवण्यासाठी छंदाची किनार जोडता यायला हवी. एक नकारात्मक मन आपल्याला सकारात्मक जीवन कधीच देणार नाही. त्यामुळे या मनाला काय हवे आहे, आपल्याला काय हवे आहे हे समजायला हवे. प्रत्येक गोष्टीत आनंद शोधणे हाच जीवनातील आनंद आहे. एक समाधान आहे.

> सदचारेन सर्वदा शुद्धं भवति मानसम । निर्मलं च विशुद्धं च मानसं देवमंदिरम ।।

वरील श्लोकाचा अर्थ असा आहे की, सर्वदा चांगले आचरण केल्याने मन शुद्ध होते असे मन हे देवाचे मंदिरच आहे. मानाने वागा, मनाने कृती करा पण मन षडिरपू ने बांधू नका. काम, क्रोध, लोभ, मोह, मद अन मत्सर या सहा भावनांचा षडिरपूम्ळे मन अशांत होते. त्याम्ळे आनंदी राहणे यातच खरे स्वास्थ्य आहे.

आकांक्षा शरद बोरसे१२ वी - अ / सायन्स

Tourist Point

#### We missed the bus....

It was year 2006; sun was blazing and making the afternoon summer days of May month even hotter. My friends planned vacation at hill stations of Himachal, but I decided to go for a 6-days tour of 'Tadoba National Park' with a trekking group. Tadoba is one of the India's 47 project tiger reserves, spreading over an area of 1,727 Sq.km. of Chandrapur district of Maharashtra. Tadoba name is derived from local deity of forest.

We reached 'Chandrapur' by morning 8, even at that early hour the sun was hot and unbearable. We travelled to National park by Jeep, 1<sup>st</sup> noticeable experience of entry in jungle was its eerie silence; I could hear the sound of my breath. The cool breeze crossing barriers of dense semi deciduous trees and at the entry point, we saw a herd of spotted deers. Out of excitement I made loud whisper and that scared the herd and they vanished in bushes. I got first lesson of staying calm and patient to be able to observe animals in their wild.

The excitement and the prize was to spot the Tiger, our guide showed us pugmarks of tiger and said, we are very close to animal. I was waiting excitedly to see that royal animal in its own home in the forest. But believe me luck was not in our favour in that tour, Tiger had its own plans.

Everyday our guide used to take us for 3 rides. In next three days, we spotted barking deers, Sambar deer, wild dogs, bears, monkeys, crocodiles, foxes, jackals and hyenas. Beautiful sun birds, parrots, hornbill and wood peckers were another attraction of jungle life. But somehow we were unable to locate tiger in three days.

On 3<sup>rd</sup> day at 8pm in the night, our group was chit-chatting at central lake which was near guest house. I heard the rustling sound of leaves as if some animals were running/ probably chasing in the dark. It was followed by a loud roar of Tiger. The roar from such a close distance had scared us all and we ran towards guest house, entered in room and assured locked door. Night went in silence...next day a kill was found in front of our guest house and the forest guard confirmed it was by a tiger.

Next day, we began with hope to see the king of jungle and good news given by a group who was returning from a point of artificial water pool. They informed us of having spotted a tigress with 3cubs at water hole. It was hardly 2minutes distance from our place but bad luck for that last day of our tour. We felt disheartened and returned home with a memory of tiger's roar which we heard in that night. We missed the bus....!

After 14years of this event, I happened to visit Borivali National Park (Year2020). We booked ticket of morning ride and started in a safari bus. As soon as bus entered in a protected zone, I saw cat family of 1 tigress with 3 adult cubs and I was mesmerized because now she was so close to my window side that I could see in her eyes. I said 'This time you didn't miss the bus... I bow down to you a royal queen!'

Krishnapriti

## The Treasure Hunt

As a yearly ritual my entire family sat down in front of the TV to watch the display of various tableau on the occasion of Republic Day. One by one the tableaux of states were being displayed and then came the number of Maharashtra. For the year 2022, the theme of Maharashtra's float was "Biodiversity and State Bio-symbols of Maharashtra". The float had life size models of Blue Mormon butterfly, Shekru, Taman tree along with the display of rich biodiversity of Maharashtra. By watching that display of biodiversity of Maharashtra, how could I stop myself from thinking about Kaas, Maharashtra's very own valley of flowers? I had a sudden rush of nostalgia and it took me back to the year 2014, the year when I had first visited Kaas.

Kaas plateau or simply Kaas, what do you write about this place? I first visited this place in December 2014, as it was an off season, I had no luck in finding any plants. After my first visit to Kaas, I read about one beautiful plant named Aponogeton satarensis. This small little plant is commonly called as Y-tura in Marathi. I was very much fascinated by this plant because it is only found in Satara. I had already started planning my next trip to Kaas and was eagerly waiting to find this nature's treasure. After a long wait of five years, I got an opportunity to revisit Kaas in September, 2019. I was thrilled to have my first encounter with Y-tura. While on the way to Kaas, I had already imagined my first glimpse of this pretty plant. After reaching Kaas early in the morning, we were welcomed by the misty, chilly and windy climate. Soon, we began our hunt for nature's wonders.



Picture credit – Aishwarya Deshmukh Aponogeton satarensis (Y-tura)

Toothbrush orchids, Sundew, Karvi, Balsam, Abhali, Abolima and so many other beautiful creations of nature were meeting us on the way. The plateau that's usually dry and dull had become vivid and vibrant, changing the colour of the plateau. In spite of seeing such a wide variety of plants my eyes were still searching for Y-tura. We had a wholesome excursion of two and a half hours and during that entire period I was constantly looking for Y-tura. Everyone was tired and hungry and we were about to finish our trail on the plateau. I was a bit disappointed thinking that my hunt for Y-tura is going to be in vain, and Voila! In one shady corner we could locate one small half open bud of Y-tura. I was so excited and overjoyed that, I literally laid down on the ground and started observing that nature's tiny treasure. The plant that kept on tricking me for such a long time was in front of me. That was actually the show stopper moment and my hunt for the treasure was finally successful.

Though I wasn't always so lucky. I had visited Kaas again in October 2021 but I could not find Y-tura, what I could find was over commercialization of Kaas plateau. If the commercialization continues at this pace, we might lose the natural beauty of this place in near future. And I am afraid that, this will lead to many unsuccessful treasure hunts.

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Hobby to Business

## छंद जोपासना

नृत्यकला ही खुप विकसीत कला आहे. त्यामध्ये विविध प्रकार आहेत, जे विविध देशांमध्ये प्रसिद्ध आहेत. मला नृत्याची फार आवड, त्यामुळे ३ वर्षांची असल्यापासूनच डान्स क्लासला जायची. सुरवातीला शास्त्रीय नृत्य आणि लोकनृत्य शिकले. जसे की, भरतनाट्यम, कथ्थक आणि लावणी.

शाळेमध्ये किंवा जवळपासच्या परिसरात कुठेही नृत्य स्पर्धा असली की मी हिरिरीने तिथे सहभाग घ्यायची. बऱ्याच लोकांनी माझी नृत्याबद्दलची आत्मीयता, त्यावर असलेलं माझं प्रेम आणि कौशल्य बघून माझी प्रशंसा केली होती.

खरंतर मला फक्त नृत्य कलेमध्ये पारंगत व्हायचं होतं आणि फक्त माझी आवड म्हणून तिला जोपासायचं होतं. यातून पुढे कधीतरी मला उद्योग वगैरे काही करता येऊ शकतो याचा मी विचारच केला नव्हता. मला माझ्या काही मित्रमैत्रिणिंनी, आजूबाजूच्या लोकांनी सुचवलं की, तू इतका छान डान्स करतेस, तर मग तू डान्स क्लास सुरू कर ना! लहान मुलांना शिकव. तेव्हा मी विचार केला, की आपण हे करू शकतो. पण एवढा मोठा निर्णय मी एकटी तर नाही घेऊ शकत म्हणून मी घरी संगितलं. आणि जेव्हा घरच्यांनी पण मला पाठिंबा दिला, तेव्हा मी माझ्या गुरूंना विचारलं आणि त्यांच्या जोडीने डान्स क्लासचा शुभारंभ करायचा ठरवलं.

पण आमच्या समोर सर्वात मोठा प्रश्र्न होता तो म्हणजे जागेचा. कारण मुलांना शिकवायचं तर मोकळी जागा हवी. मग आम्ही लवकरात लवकर जागा शोधली आणि क्लासची जाहिरात सुद्धा केली. जेणेकरून जास्तीत जास्त मुलांचा प्रवेश होईल. क्लास सुरू तर केला आम्ही पण त्याच्यापुढचं आव्हान मात्र फार कठीण होतं. आणि ते म्हणजे या व्यवसायामध्ये टिकुन राहणं. कारण त्य परिसरात अजून बरेच डान्स क्लासेस होते, त्यामुळे त्या स्पर्धेत तग धरून ठेवणं फार कठीण.

त्यासाठी आम्ही आमच्या क्लासचं शुल्क इतरांपेक्षा कमी ठेवलं आणि आठवड्यातून ३ दिवस शिकवण्या घ्यायला सुरूवात केली. आणि हळूहळू आमच्या क्लासची प्रगती होत गेली. आम्ही मुलांना स्पर्धेसाठी बाहेर घेउन जायला लागलो आणि आमच्या कष्टाचं चीझ तेव्हा झालं, जेवहा पहिल्याच स्पर्धेत आम्हाला बक्षीस मिळालं. खरंच तो प्रसंगच वेगळा होता. कोणीतरी आपल्या पाऊलवाटेवर चालतय आणि त्याला त्यात यश मिळालं. ही अनुभूतीच काहीतरी वेगळी असते.

आम्ही येणाऱ्या सर्व अडचणींवर मात करु शकलो कारण आम्हाला घरच्यांची साथ मिळाली. आमचं आमच्या कामावर प्रेम आणि निष्ठा होती. आणि सर्वात महत्त्वाचं म्हणजे आमचा स्वतःवर विश्वास होता.

मुक्ताई चव्हाण

S.Y.B.Sc., Human Science



#### Metaverse: New Life

'Metaverses' are a result of merging of virtual reality, augmented reality facilitated using extended reality (XR) devices (e.g. wearable technology like smart glasses, VR headsets, etc.). In 1992, sci-fi **writer Neal Stephenson** coined the term 'metaverse' to describe a 3D virtual space, in his novel 'Snow Crash'. Metaverse is described as a virtual world, where we can create customized virtual, 3D spaces of our own to interact, collaborate, work i.e. establish a social connection, through our avatars.

#### > What are avatars?

Avatars **represent real people and their activities** such as talking, walking, working, dancing, playing and other activities. In the future, through these mimics of ours, there will be the possibility of having senses of touch, sense, and smell via XR devices, in metaverse.

The promise of the metaverse is to allow a greater co-relation of our **digital and physical lives** in terms of wealth, shopping, and entertainment.

#### > What is metaverse's adaptation of our economical transactions?

Metaverse participants can engage in decentralized virtual economies powered by cryptocurrency. This includes marketplaces where users can **buy**, **sell**, **and exchange items** like digital assets (e.g., avatars, virtual clothing, NFTs and event tickets).

Various metaverses have been developed earlier (before it became a buzzword), for popular use, such as platforms like 'SECOND LIFE'. Nowadays, various prominent companies (160+) like EPIC games, Facebook (now known as 'META'), Niantic (developer of the game - Pokémon Go), Microsoft, Decentraland, Apple, etc. are working to build the metaverse and investing billions in it.

#### > How can metaverse aid us?

- 1. Metaverse could be the next internet i.e., it could be a major global platform attracting many users for online transactions, interaction etc. like the world wide web.
- 2. We will have exciting investment, job opportunities here Many startups will originate with heavy investments from well-known companies which will support many jobs for creators and developers as well as trading of virtual land will also boost.

It is estimated that, true metaverse will soon be created, and will reach billions of people within a decade. By **2030**, "a large proportion of people will be in the metaverse in some way," predicts Melanie Subin, a director at The Future Today Institute in New York City. "Some will simply use it 'only to fulfill work or educational obligations'," she said. "Others 'will live the majority of their waking hours 'jacked in'."

Thus, metaverse will certainly be revolutionary, having its own advantages and disadvantages to humanity and influencing everyone's life to certain extent.



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Ms. Sanika M. Gore FYJC- C-346

## Nonstop Entertainment



#### बाप्पा

शणपती बप्पा, शणपती बप्पा,
आज मारूयात का थोड्याशा शप्पा.
विनायक, लंबोदर अशी खूप नाव तूझी,
कशी लक्षात ठेवायची रे आम्ही.
प्रत्येक जण करतो तूझी मनोभावे भक्ती,
आता तूच देशील का रे त्यांना शक्ती.
वेशवेशठी येतात तुला भेटण्यास लोक,
सर्वांशी बोलून दुखत नाही का रे तूझ डॉक.
एक तरी मोदक माझ्या हातात ठेवशील,
इतके २९ मोदक तू एकटा खाशील.
सर्वांचा तू आहेस लाडका,
मश कशाला जातोस रे एकटा.

**– आर्यन निघुट** FYJC



## ति तयाचा वेलू गेला गगतावरी...!

होतं भकासं, ओसाडं,चिखत आणि शनं गावाबाहॅरची खाडी, तिथं काही नवं करण्याची साहॅबांना उमेदती भारी गाईच्या गोठ्यात सुरू झाली शिकवणी सारी.... नि तयाचा वेलू गेला गगनावरी...!

शिकवणींची मराठीं, इंग्रजी शाळा नि विविध महाविद्यालयं झाली अंधाऱ्या खाडींमध्ये शिक्षणांची गंगा पिढ्यानपिढ्या जारीं...! नि तयांचा वेलू गेला गंगनावरीं...!

समाजात दबदबा तो भारी, विद्यार्थी आमचे मोठ मोठ्या हुद्यावरी शाळा नि महाविद्यालयांना उद्य दर्जाची मानांकन सारी.... नि तयाचा वेलू गेला गगनावरी...!

एका हातात धांतराचा साँगा, नि गुडघाभर चिखलातून मार्ग काढत रावलेल्या त्या शिक्षण रुपी रापट्याच्या झालेल्या वटवृक्षाकडें वळून पाहता खात्री हाते की, साहेंबांचे स्वप्न साकारतेय भारी...

नि तयाचा वेलू गेला गगनावरी...!

श्री. रामचंद्र लक्ष्मण शिंदे वरिष्ठ लिपिक, कार्यालय विभाग

#### **Luxury of life (M.O.M)**

The earth is, the tree is, the flower is, the nature

is, the ...... just Imagine,

Sweet like Mother, she is not a butter.

I love you dear mother.

You'rer the soul, you're the heart,

you're the rainbow color,

Oh oh oh my mother.

Everyday in a morning come to my ear a

sweet sound,

it is the majesty of life.

Sugar, sea, tears, tea, chilli all have

She is the superhit movie in my life.

Who has not is the biggest tragedy.

They are wet all day.

She is crying, you have no time.

Mom, maam, teacher, aunt, grandma,

sister all are one.

No one is number one.

**Dushyant Thakur** 

**FYJC** 

## फक्त तुच आई

तुमला जन्म देणाश

कॉमल स्पर्शाने माझ्या आयुष्याला

आकार देणारी

संस्काराच्या मायत मला घडवणारी ही तू

त् माझ पहिले बॉल

त्च माझ सुरेल सुर

त् आहुस माझ्या ऑठांमाग दडून बसलेले

शब्दांचे पुर

त्च माझ्या मनातल्या अशांततेची शांतता

माझॅ सर्वस्व तू

माझे संपूर्ण जग ही तू

तू माझ्या आयुष्याचा अमूल्य भाग

तुङ्याच भावती फिरणाऱ्या माङ्या जीवनाची

आशा तू

तुच माझ्या स्वप्नांचे कारण

माझे अखंड आयुष्य तुलाच शरण

तुझ्याशिवाय अजून कॉणींच नाहीं

तू अन फक्त तुच.!! फक्त तुच आई !!

सानिका नायकवडी EVJC

### बाबा असे असतात

बाबा असे असतात.
स्वतः गुपचूप रडतात,
पण आपल्याला हसवतात.
मारले जरी त्यांनी तरी,
जखमेंवरती औषधेही लावतात.

बाबा असे असतात. दिवस-रात्र झटूनीं, धाम आपला गाळतात. रागींट असले तरीं, बाबा प्रॅमळ भरपूर असतात.

बाबा असे असतात.
हट्ट धरुन बसतो आपण,
बाबांनी फिरायला न्यावे.
म्हणता कधी असं तरी,
त्यांनी पण फिरायला जावे.

बाबा असे असतात. बाबा घरी दश्राज थकुनिया यतात. दुःखातहीं बाबा हसू चेहऱ्यावर ठेवतात.

बाबा असे असतात. बाबांकडून शिकण्यासारखें भरपूर काहीं आहें म्हणून वाटतें की, बाबा नेहमीं अमर रहावें.

पूर्वा पाष्टे

**FYJC** 

## वसुंधरा माझी आई..!

एका शांत कातरवंळी जेव्हा एकांतात मन खाऊ लागते तेव्हा हलकी मंद मायेची झुळूक बनुनी ती येते

रुख रखत्या उन्हात जेव्हा मनाला ही वाट सोंडू वाटतें तेव्हा पुढच्या वळणावर ती उबदार मायेची सावली घेऊनी येते

गर्दीत उमं शहूनहीं एकटेंसे वाटते मनात निशशेंचा कुबट वास दाटतें तेव्हा कोंवळी कळी एक ती फुलवीतें गंधात फुलवुनी आशा पेंच सारें सोंडवितें

कॉरड्या नात्यांचे जेव्हा जेव्हा पडतात नाहक हृदयावर तडे बरसुनी मैत्रीच्या श्रावण सरी तेव्हा तेव्हा ती मज भिजवते

कळत नाही मला,आईला जाऊन सरली आहेत पाच पूर्ण वर्षे आज पण प्रत्येक वेळी कशी ती मला वेगवेगळ्या रूपात येऊन आईची भेट घडवून देते..?

अशीं हीं हिरव्या चैतन्याने नटलेलीं वसुंधरा मज मला नेहमींच आईसम वाटतें

प्रमोद गुणवरे

TYBSc. Mathematics

## माँ

कभी ना की उसने लाखों चाहते, दिखी मेरी एक मुस्कान, मिली उसे राहते । ना जाने कैसे सुलझ गई तकदीरें, त्यागकर अपनी खुशियाँ, बदली मेरे हाथों की लकीरें।

ना रहा उसे शानो-शौकत से वास्ता, तभी तो ढूंढ लाई वो मेरी मंजिलों का रास्ता। जब जब मेरी जिंदगी में रात का अंधेरा छाया, सूर्यिकरण के भाँति उजाला उसीने लाया।

वाकिफ ना हू इस जहाँ से मैं, बस इतना है पता, पूरे संसार में अलग है तेरा-मेरा राबता। ढूढ़ने चले ना जाने क्यों सब बादलों की जन्न्त, मिल जाएँ इन्हें माँ की गोंद इतनी है मेरी मन्न्त।।

मृणाल FYJC

#### में लाल धरा का

मैं लाल धरा का गाता हूं, तुमको ये गीत सुनाता हूं। जिसके आंचल की बूंद्रे जीवन को वरदान है, छाती में जिसके मानसरॉवर और वायु जीवनदान है उस मां को शीश नवाता हूं, मैं लाल धरा का गाता हूं तुमको यह गीत सुनाता हूं।

है गीर गगन मिलते जहां, है संगम निदयों का वहां जहां सूखे खेतों पर धनी घटा घिर आती है। जहां अलकनंद और भागीरथीं मिल देवप्रयाग बनाती है। ऐसे अद्भुत प्रयाग में एक डुबकी मैं भी लगाता हूं। मैं लाल धरा का गाता हूं तुमको यह गीत सुनाता हूं।

पांच तत्वों से यह जीवन मुमिकन जो बनाती है, दया समर्पण का यह जननी पाठ सदा पढ़ाती है। जिसकी निदयों का पानी पिया, और जिसकी उपज मैं खाता हूं। मैं लाल धरा का गाता हूं तुमको यह गीत सुनाता हूं।

अतुल सिंह, TYBSc. Botany

## शांतीचे दूत

चौकातल्या 'त्या' स्फॉटानॅ, जागे झालो आपण, झॉपलॅ हॉतॅ तॅ फक्त, आपलॅ 'जागृत' राजकारण

रॉजच्या या भयाने त्रस्त कॅलंय समाजाला, कुठे शोधायची 'ती', शांती तुम्हा - आम्हाला.

निष्पाप देहांचा खच होतो, कुठ ना कुठ कोसळून, थंड रक्ताच्या थारोळ्यात, ठिबकतात अश्रु अजुन.

अरे मानवा, विचार आपल्या मनाला, किती सहन कॅल्या आपण यातना? चांगलं काहींतरी करून दाखवुया, हॆवॅदावॅ सोंडून करू 'अतिरेक' चा सामना.

मानवा ! उठ ! अस्वस्थ होंऊ नकांस, उगवत सूर्य पहा, नदीचा शांत काठ पहा, झाडावरील पक्ष्यांची किलबिल पहा...

तीथे कुठेच भय नाही, कुणाबद्दल द्वेष नाही, कसली आसक्ती नाही, क्रोधाचा कुठे लवलेशही नाही.

शांतीचे ते 'दूत' पाहून, आता तशे पापण्या भिजव... देष विझव, देष विझव... देश वाचव, देश वाचव

## **Alchemy of Rain**

With the alchemy of rain Hundreds of people waiting for that while,

Thousands of farmers crying for that smile.

It can be a school going child

Or the one with Spectacular on the nose and beard turning white

Whoever it might be,

will be eagerly waiting for that sight.

flowers will bloom,

trees will shine.

peacocks would dance,

blessed with the chance.

Happily, Merrily It will rain

And the drops of water,

Would get away the pain.

The tensed faces would steadily turn into grin,

The fishes will aquire a deep swim.

*Oh lord, wishing a rainfall* 

Lead the June,

With alchemy of rain soon.

## चारोळी

- शूर्या सारखंतज तुमचे
   चंद्रासारखंतुम्ही शीतल,
   ध्रुव तारा तुम्ही आमचे
   अनुभवते तुमच्यात मी संपूर्ण सौर मंडळ.
- जसे वाढवतो सौंदर्य श्वेत कागदाचे भरून रंग 'चित्रकार', तसेतुम्ही भरलेमाझ्या आयुष्यात रंग ज्ञानाचे देऊन माझ्या व्यक्ति मत्वाला सुंदर आकार.
- 3) होती इच्छा उंच उडण्याची पण पंखात नव्हतेबळ, तुम्ही केली इच्छा पूर्ण माझी देऊन मला ज्ञानाचे बळ.
- ४) ईश्वर पाहिला का ? होते प्रश्न विचारले मला, सापडले मला त्याचे उत्तर जेव्हा पाहिले मी तुम्हाला.

Poetry dedicated to all the Teachers by

- सनिका FYJC

## आयुष्य

आयुष्य म्हणजे स्वच्छ सुंदर पाणी, सतत गुणगुणाविशी वाटतील अशी गाणी 1 आयुष्य म्हणजे नितळ प्रेम, आणि आनंदासाठी घ्यायची मोठी झेप 1 निसर्गातील गाँडवा आणि परिस्थितीतील कटुता म्हणजे आयुष्य अल्हाददायक झऱ्यापाशी भिजलेलं मन म्हणजे आयुष्य! कधी आलेलं अपयश. तर कधी यशाची पायशे चढताना झालेला आनंद, म्हणजे आयुष्य! तर कधी दुसऱ्याच्या रडक्या चेहऱ्यावर हसु फुलवण्याचा प्रयत्न म्हणजे आयुष्य! कधी स्वतः कॅलॅल्या चुकांचा पश्चात्ताप करणं म्हणजे आयुष्य! तर कधी तिच चूक दुसऱ्यांना समझावताना स्वतःवश्च हसणं म्हणजे आयुष्य!

आयुष्य असंच असतं कधी प्रेमळ, कधी कडू; कधी हसतं, कधी रडतं पण कसंही असलं तरी आयुष्य जगणं आपल्याला महत्त्वाचंच असतं!

आर्यन निघुट
 FYJC

### आजकालचे मातवी ध्येय

आजकाल माणूस म्हणून जगायचे म्हणजे काही खायचं काम नसतं,
कितीही जवळ आहे असं वाटलं तरीही ध्येय लांबच असतं ।
ध्येयासाठी दूरदूरवर चालत जात राहायचं असतं,
कितीही अडथळे आले तरीही कुठेही थांबायचं नसतं ।.
फसगत होऊ नये म्हणून कोणावरही जास्त विसंबून राहायचा नसतं,
कितीही आम-स्वकीय पाठीशी असले तरीही एकट्याने चालत राहायचा असतं ।
जवळच्या कोणालाच बिभीषण होऊ द्यायचा नसतं,
कितीही झाले तरी स्वतःलाही रावण होऊ द्यायचा नसतं ।
ध्येय दृष्टीक्षेपात येताच सर्वाना बरोबर घ्यायचा असतं ।
ह्यातच ध्येयप्राप्तीचे गमक दडलेलं असतं,
आणि हेच सूत्र जीवनभर पाळत राहायचा असतं ।।

नंदिनी माने, FYJC

#### कोरोता

अलीकडे काय झाले तेच मला कळेना,

दारोदारी पोहचलाय आता हा भयानक कोरोना...

है वर्ष असंच संपलं काय घडतंय तेच कळेना,

मनातल्या भीतीमुळे समोरचा काही दिसेना...

सण गेले, वार गेले, पण तू काही जाईना,

लोकांचे घर उध्वस्त केलेस तू कोरोना ..

लोकांचे उद्योग काही क्षणातच ठप्प झाले,

त्यांच्या डोळ्यातले अश्रू या पावसातच लपून गेले..

जवळच्या लोकांच्या दुःखमय आठवणींनी त्यांना सावरता येईना,

तुला कधी कळणार है दुःख कोरोना? तुला कधी कळणार है दुःख कोरोना ?

है जग फार सुंदर आहे आम्हाला पुन्हा एकदा पाहू देना,

तू निघून जा रे कोरोना, तू निघून जा रे कोरोना ...

आता देवाकडे हीच प्रार्थना संकट है टाळू देना,

लोकांना आता पुन्हा सुंदर आयुष्य जगू देना, सुंदर आयुष्य जगू देना...

नंदिनी माने, FYJC

## हौसला

हौसला रख ऐसा कि,
आसमान भी सर झुकाएगा,
उड़ान भरना ऐसी कि,
वक्त भी धीमा हो जाएगा,
इन राहों में है कई चुनौतियाँ,
जिन से तुझे टकराना है,
और अपनी मंजिल को पाना है।
अगर गिर जाए तू,
इन राहों में मुश्किलों से टकराकर,
तो उठकर खड़ा हो और उड़ान भर वापस
अपने पंखों को फैलाकर,
हौसले को तेर देखकर सूरज भी जल जाएगा,
तब तेरी मंजिल का सफर उजालों से भर जाएगा।

## भूमी हेमंत सालेलकर FYJC, Science

## जहम कवितेचा

निजता निजता व्रणाने छळले
शब्दांने मण सांत्वन झाले
यमक जोडला दुःखांचा साऱ्या
आसवांचे स्वल्पविशम झाले
आटलेल्या श्काची शाई करुनी
भावनांचे या बाजार मांडले
धुसमटून जणणारे मन हे
एक एक करून व्यक्त झाले
आठवणींच्या जाळ्यात अडकूनी
अनेक किस्से आता हे
कविता म्हणूनी जन्मास आले ...

प्रमोद गुणवरे TYBSc. Mathematics

## माय मराठी

माझ्या मातृभाषेचे काय फेडू मी ऋण? अमृताहृन ती रसाळ मधाळ तिचे गुण11911

मायॅच्या पदशखाली सामावनू घॅते आम्हा ती तिच्या मायॅने गॉंजारते होते माय अमुची ती 11२11

फुलती कलिका अलांकरतूनी तिच्या निर्मळ मनी गंध तिचा दश्वळू लागतो साहित्याच्या अंगणी 11311

उंच आभाळी कितीहि घेतली गरुड भरारी कायम राहील तिच्या चरणाची माय तिला संबोध्नी।।४।।

गायत्री मंगशे जगताप

"Be at home or not to be at home? That's the question .."

या कॉरॉनाच्या संसर्गजन्य वास्तवात असाव घरी की नसाव? हा एकच सवाल आहे. या जागतिक महामारीत सुरक्षित राह्न, जगावं बेशरम, लाचार आनंदाने सदेह, सहपरीवार हॉम कारंटायन हॉऊन. त्यात गुंडाळलेल्या स्वच्छतेच्या जाणिवेसह.

की,
माशवीं सूर या विषाणूच्या
काळ्याशार डॉहामध्ये,
जीवन रक्षक कवचाशिवाय,
माणुसकीच्या अमरत्वसाठी.
आणि करावा शेवट
एकाच बेजबाबदार, उद्घट कृत्यांने,
माझा, सर्वांचा आणि या विषाणूचाही.
पण....
जर या विषाणूच्या कालसर्पाने जीवनाला डंख

मारला तर? येणार्या निद्रंस नसेल जागृतीचा किनारा कधीहीं. ईथेंच तर खरी मेख आहें म्हणुन घराबाहेंर पडण्याचा धीर होत नाहीं. आणि घरीहीं बसवत नाहीं. म्हणुन आम्हीं सर्व सहन करतों, सहन करतों निष्क्रियपणाचे कर्तुत्वावर होणारे अत्याचार. आणि अस्तित्वाच्या गाभार्यात असलेल्या स्वत्वाची वितंबना.

आणि अखेर सृजनाचा कटोरा घॅऊन, उभे राहतो खालच्या मानॆनॆ, प्रतिभॆच्या टाराशी.

विधात्या!,
तू ईतका कठार का झालास?
एका बाजूला कर्तव्यासाठी बाहेर पडावे
तर घरच्यांचा विरोध,
आणि दुसर्या बाजूला,
घरी राहावे तर,
राष्ट्र सेवा म्हणून श्रेष्ठ.
मग विस्कटलेल्या अभिमानाचे सापळे घॅऊन,
हे कॉरोनाकारा,!
आम्ही मास्तरड्यानी,
कॉणाच्या अस्मितंवर डॉकं आपटून घ्यायचं?
कॉणाच्या?

(तात्यासाहेब शिश्वाडकर यांच्या अजरामर कलाकृतीमधील 'नटसम्राट' यांची माफी मागून स्वगताचा विडंबनात्मक प्रयत्न)

> प्रा. बिपीन धुमाळे मराठी विभाग प्रमुख

## प्रत्येक दिवस...

रॉज येणारा प्रत्येक दिवस नवीन काहींतरी शिकवून जातो.

आलेल्या प्रत्येक आव्हानांशी लढण्याची नवी शक्ती देतो.

सुख-दुःखां सोंबत मैत्री करून मनाला कणखर बनवतो.

रॉज येणारा प्रत्येक दिवस नवीन काहींतरी शिकवून जातो.

कधी हसवतो तर कधी रडवतो आणि स्वतःशीच सलगी करतो.

नकळत भेटणाऱ्या अनोळखींशी नवीन नाते जॉडून जातो.

रॉज येणारा प्रत्येक दिवस नवीन काहींतरी शिकवून जातो.

काल घडलेल्या चुकांना आज सुधारण्याची नवीं संधी देतो.

मानवाच्या नवनवीन कल्पनांतून भविष्याचे स्वप्न रंगवतो.

रॉज येणारा प्रत्येक दिवस नवीन काहींतरी शिकवून जातो.

भूमी हेमंत सालेलकर

FYJC, Science

## ताजी ताजी भाजी

चला खाऊया ताजी ताजी भाजी सांगत आम्हाला आमची आजी.

खाऊन गाजर, मुळा आणि बीट, बन्या आपण स्ट्रांग आणि फिट!

कडू कारले खाऊन तर पहा नंतर तुम्ही म्हणाल वाह वाह !

चला खाऊया ताजी ताजी भाजी सांगत आम्हाला आमची आजी.

सर्वांची भेंडी लाडकी आवडती तुम्हांला नकी आवडेल याची देते मी गॅरन्टी

चुका, अळू, मेथी, पालक खाऊन सुदृढ होतील बालक.

नकीच सोडाल 'जंकफूड' खाणं आणि गाणार भाजींचं गाणं

टॉमॅटॉचे फुगले गाल पूर्ण झाला लाल लाल ...

मिरची, लिंबू, लसूण कॉथिंबीर बनवते जेवण चवदार .... येईल मझा खाताना जेव्हा जेवण होईल रंगतदार..

विसरू नका फायदे भाज्यांचे जतन करूया या आरोग्याचे..

> भूमी हेमंत सालेलकर FYJC, Science

## Paradox of choice

Everything around me

Seems so incomplete,

Like my heart's been

Skipping a beat

Whatever you feel

just hits me hard

I get stubborned

And mind retards,

Slowly and steady

Will make the way

Finding the secrets

and positive says,

*Time is unrevealing* 

All the nasty secrets of you,

Lesser or greater evil

Don't make me choose.



## मराठी चारोळ्या

तु दिलॅल्या फुलांचा गंध

हलकासा वाऱ्याने दश्वळताना

आजहीं ऑलावतात पापण्या

तुझी आठवण येताना

दहांची असलही जरी

मनांची दुशे नाही

माझ्याविना तु अधुरी

तुझ्याविना मी पुर्ण नाही

ह जगणं, ह मरणं

सांगणा कुणाच्या हातात आहे

हसता, हसता क्षणभरात

सर्वांना रडवुन जाणं आहॅ

राजेश अंभोरे

प्रयोगशाळा सहाय्यक, वनस्पति शास्त्र विभाग

मीं उगवत्या सूर्याला विचारले, आजचा धडा कॉणता? आणि उत्तर मिळाले, उष्णतेपेक्षा प्रकाशाची निर्मिती करा.

राज धुमाळे

F.Y.B.Sc. Computer Science.

## मी नाही वाटणार पेढे

१०वी चा रिझल्ट लागला. माझ्या एका मित्राचा मुलगा पडल्या चेहऱ्याने पेढे घेऊन आला होता. खरं तर तो खूप हुशार. १०वी ला ९३% टक्के मिळवलेला. सिन्सिअर, कष्टाळू. त्याचा पडलेला चेहरा पाहून मला जरा आश्चर्यच वाटलं. त्याने पेढे दिले, नमस्कार केला. मी त्याला बसायला सांगितलं, आतून एक पाकीट आणून त्याला बक्षीस दिलं. विचारलं किती मार्क्स मिळाले. ९३%. मी त्याला म्हटलं वा फार छान, तू वर्षभर मन लावून अभ्यास केला होतास, मला खात्री आहे की परीक्षा घेतली असती तर तुला इतकेच किंवा जास्तच मार्क पडले असते आणि काही कळायच्या आत तो ढसढसा रडू लागला. मी त्याला मनसोक्त रडू दिलं. पाणी दिलं. थोडा शांत झाल्यावर मी विचारल की काय झालं? रडत रडत तो बोलू लागला.

काका, तरी मी आई -बाबांना सांगत होतो की मला कोणाला पेढे वाटायचे नाहीत. तुमच्या कडे जायच्या आधी ४ घरी जाऊन आलो. सगळीकडे हेच बोलणे :- काय मजा आहे बाबा तुमची ...परीक्षा नाही., मार्क्स नुसते वाटले आहेत.. आमच्या वेळी असलं नव्हतं, या वर्षी त्या ९३%-९४% टक्क्यांना काही अर्थ नाही.. सगळ्यांना फुकटचेच मिळाले आहेत ते एक काका तर म्हणाले जे नापास झाले त्यांचं खरं कौतुक आहे या वर्षी. दुसरे म्हणाले तुमच्या बॅचला नोकरी मिळण्यात जाम प्रॉब्लेम येणार.

मला सांगा ना काका, यात माझं काय चुकलं. पूर्ण वर्ष भर शाळा नाही. सगळा अभ्यास ऑनलाईन केला. सुरवातीचा १- २ मिहने तर नेटवर्क सुद्धा नव्हत. त्यावेळी मित्राकडून रेकॉर्ड download करून रात्री जागून ऐकायचो, नोट्स काढायचो हे नाही दिसलं कोणाला. Syllabus तर ऑक्टोबर, नोव्हेंबर मधेच पूर्ण शिकवून झाला होता. तेव्हा पासून सराव पेपर सोडवतोय. उश्ररीी मध्ये ३ सराव परीक्षा देखील दिल्या. आपल्याला अजून मार्क्स मिळाले पाहिजे या आशेने परत-परत वाचलं अभ्यास केला अगदी कंटाळा येई पर्यंत. मग कळलं की परीक्षाच cancel होणार आहे. खूप चिडचिड झाली पण कोणाला सांगणार. टेन्शन आलं ते ११ Admission कसं करणार? मग १ मिहन्यात समजल की ११ Admission साठी CET घेणार आहेत. परीक्षेची तारीख नकी होईना. सगळंच अधांतरी. पुन्हा अभ्यास सुरू रिव्हिजन वर रिव्हिजन खूप कंटाळा यायचा पण काय करणार दूसरा पर्यायच नव्हता.

मग कळलं की बहुदा ऑफलाईन MCQ बेस परिक्षा होणार. परत त्या दृष्टीने रिव्हिजन सुरू. काय विचारतील माहित नाही. स्वतःच MCQ बेस प्रश्न काढायचे. कंटाळा आला होता पण आई-बाबांचे सल्ले, की लकी आहात, जास्त वेळ मिळाला आहे तुम्हाला अभ्यासाला या वर्षी, त्यामुळे चांगले मार्क्स पडले पाहिजेतच. अपेक्षांचं ओझ वाढतच होत. टेन्शन तर खूपच वाढल. त्यात कोविड मुळे गावाकडे माझे काका गेले, माझे आजोबा ८ दिवस व्हेंटिलेटर वर होते. त्याच माझे आईविडल दोघेही १ महिना गावी. आमचा जीव अगदी कासावीस झालेला काय करू काहीच समजेना. मी तर 'आगीतून उठून फुफाट्यात पडलो होतो.' सगळ काही ठिक होईल अशी प्रार्थना देवा जवळ करत होतो. काका सांगा ना मला, आम्ही काय यंत्र आहोत का? या सगळ्या बातम्यांचा आमच्यावर परिणाम होत नसेल का? मला तर वाटू लागलं होत की हे मार्क Admission घेण्यासाठी उपयोगी नसतील तर इतका आटापिटा कशाला ? पण नाही ..हे सगळं लवकरच संपणार आहे अशी स्वतःची समजूत घालायची आणि परत जोरदार प्रयत्न चालू. कोणाशी काही बोलायची नाही. एकच शब्द सुद्धा. बाबांना विचारल काही... तर ते बोलायचे तुला काय करायचं आहे ...तू अभ्यास कर. मी बघून घेतो .. रोज इतकी माणसं मरता आहेत, साधा ऑक्सिजन मिळत नाही.

काका, मला सांगा ना या आधी अशा विपरीत परिस्थितीत कोणत्या बॅचने अभ्यास केला होता. अरे कौतुक नको पण कमीतकमी टोमणे तर मारू नका. मिळालेला पेढा काही न बोलता खाणं इतकं अवघड आहे का हो काका?

विपरीत परिस्थितीत केलेल्या प्रयत्नांचं कौतुक करा. एखादी कॅडबरी, छोटीशी गिफ्ट द्या. नसेलच जमणार तर पेढा तोंडात टाका आणि गप्प रहा पण चेष्टा करू नका. मोठ्या उमेदीने 'भविष्य' उभं राहू पाहतंय. उभ राहू द्या. नाहीच जमले तर कमीतकमी मागे तरी ओढ़ नका.

आर्यन निघुट, FYJC

Chit-chat with BNB Alumni

## Interview of Principal Dr. Moses Kolet

'Green Tea with Botany' is an interactive series by Srishti club, which arranges student interactions with eminent personalities in varied fields. This year, our Principal Dr. Moses Kolet who is also a proud alumnus of VPM's B. N. Bandodkar College of Science (Autonomous), Thane has been interviewed by T.Y.B.Sc. Botany students. The event was organised in the Botany laboratory on 4<sup>th</sup> December 2021, at 2:00 pm through offline mode. During this programme, Sir shared some of the interesting stories, experiences regarding his life as a student, NCC cadet, lecturer and administrator. It was a rollercoaster ride of varied emotions, as he took us down the memory lane. Though we could not share the real time experience of a one-on-one session with our Head of the Institution, delightfully sharing below glimpses of the interview.

Here we go......

## 1. What was the driving force that attracted you towards the field of botany; especially mycology?

**Ans**: The credit behind my career in mycology totally goes to my teachers. They motivated me to pursue botany. My faith in my teachers is what got me today in front of you all as your principal.

#### 2. What major differences have you observed in students of your time and today?

Ans: I have seen a lot of differences among students from various generations. Earlier the students used to be very naughty but at the same time brilliant in studies too; they used to respect their teachers very much. Few days back I went to visit one college as a guest-lecturer where one of my ex-student was pursuing his further studies. When he saw me in his college, he came running to me and touched my feet for blessing, without minding about the surroundings. That was an overwhelming moment for me as a teacher.

#### 3. How do you balance your passion for teaching with administration?

**Ans**: Currently I am very busy with my schedule so I don't have time for teaching. As a Principal, I have lots of administrative responsibilities. Despite that, I am a passionate teacher and I don't miss a single chance to be with students.

#### 4. We would like to know about your journey in NCC.

**Ans:** Initially it was very hard. Waking up early in the morning for practice, maintaining discipline was tough. Just like any student, I too had my fair share of scoldings and punishments. Ultimately, it was all worth it, to gain the designation of captain in front of my name.

## 5. What do you do in your leisure time? Also, we want to know about your hobby of making miniature aeroplane models.

**Ans**: Reading... I like to read in my free time. Science magazines, historical books, biographies, mystery books, poems, I like all of them. Besides reading, I also like travelling, trekking. As you mentioned, making miniature aeroplane models is also my hobby.

When we were kids, we didn't have many toys; so making toys using paper, sticks, rubber-bands was fun for us.. Now-a-days you guys have ready-made models that are available in shops as well as online, you just have to buy them and assemble as per the instructions given and it's ready. You all should try it. You will have your own miniature aeroplane plus the joy you will get in making those will be unbeatable!

## 6. We all have heard from our teachers about your likings towards plant folklore and mythology. So we'd like to hear more about it.

Ans: Okay...do you all know why Indian silk cotton trees have thorns on its body? During the era of mahabharat; *Pandva's* along with *Draupadi* went under period of exile. One day *Bheema*, decided to do a prank with *Draupadi* and to do so he placed a log of Cotton silk tree under the sheets. He pretended to have pain in his legs and *Draupadi* without thinking about anything started massaging his feet. Soon, she realised that it was a log of tree, she saw *Bheema* was laughing seeing her from far. She got furious and cursed the tree to grow thorns on its body so that if someone touched it again spikes will prick them...like this the Indian silk tree has thorns, it is a totally mythological explanation without any proof.

#### 7. Sir, what is your favourite food or cuisine and which sweets do you like?

Ans: I am a big foodie. I like every kind of food; be it spicy, sweet, veg, non-veg, I like everything. I eat whatever is served to me. I like home-made as well as junk food too. Even though I like a variety of sweets and cakes especially Rava cake is my favourite. I don't have any specific liking of any particular cuisine as such; if you serve me something with love I'll have it delightfully.

## 8. Please share a few memorable events or excursion memories in the botany department.

**Ans**: I have a lifetime memory from college. I met my better-half here in this college. She was a statistics student. Our favourable classroom location brought us together and her presence made my life successful.

I have also made a lot of memories from excursions, but one unforgettable event I would like to share. So once we went to Agra, while traveling at one place, we ordered samosa, without chutney. We just had travelled a few minutes, when the girls sitting back started complaining that the samosas were without any stuffing. It was then I realised that I ordered *khali samosa*, as commonly said in *Bombaiyya* hindi. The seller must have interpreted it as empty samosa! Since then whenever I hear about Agra or Samosa, I am taken back to the memory of that comical scenario of empty samosas.

Ms. Chaitanya Dhadve T.Y.B.Sc. Botany

Ms. Aishwarya Deshmukh Ph.D. Student, Dept. of Botany

## Interview with Dr. Prasad Karnik

**Shruti**: Good evening sir! Thank you very much for taking out time from your busy schedule. With your permission sir, We would start the session now.

Sir, childhood is an irreplaceable part of life. It's the only stage where we are carefree and unafraid to try out anything. How would you describe your childhood?

Answer: Yes.. My childhood was very happy and blissful. I was born and brought up in a middle class joint family. Since our 'waada' was surrounded by greenery and was near a pond, I had Direct connection with nature. We all cousins lived together but I don't remember fighting with each other for anything. We always shared things and never threw tantrums. We were disciplined, never pampered. Thus, we were never compared, scolded or beaten by our



elders. It was like a perfect happy living together. There was no tension, no strain used to play field games, we enjoyed our childhood with nature.

**Aashvin**: Speaking more about your career choices, Did you always want to pursue zoology? Has it always been your passion or did it fascinate you as your bachelors started?

Answer: No, I did not have any passion as such. But I was close to nature. I used to love being surrounded by it. My school teacher had told me that I would become a language teacher either sanskrit or marathi as I used to take part in elocution competition and drama. My father wanted me to become a doctor, that too a Vaidya. However, I was never forced to take up any subject. Infact my parents always trusted my decisions. At that time, It was common for a boy to enroll in science taking chemistry as a subject, but I had a fascination with life and living things, and so wanted to study them. The Creek in Bandodkar College was the main inspiration to take up zoology, and that too zoology of water creatures. So, to answer your question, it was always my own choice. My father was really happy when I got a doctorate degree.

Parnika: Sir, we would like to know more about your Ph.D. work and your experience of viva voce with world-known aquaculturist, Dr. Sakthivel.

**Answer:** Indeed, it was a great experience to face Dr. Sakthivel, a world renowned aquaculturist for my Ph.D. viva. I did my Ph.D. on a prawn species about which very little was known. In fact it was an endangered species then. Therefore my work was loved by Dr. Sakthivel even when my thesis was in complete black and white format, having no colorful diagrams. His words of

appreciation really meant a lot to me. My Ph.D. was possible only because of my friend Dr. Sanjay Deshmukh who has been with me since college. He was the one who pestered me to do a Ph.D. although it was much later in my career.

**Vaishnavi:** Sir we heard that, after completion of your studies, you have also worked for labindia for Leica microscopy. How was your experience working for it?

**Answer**: Absolutely enriching! I worked there for 6 years as an application scientist. Again Sanjay, my friend, brought this position to me. I was a senior faculty at D Y Patil Institute in the Department of Biotechnology and could have become Professor. I went to give an interview and was selected. I still remember my date of joining LabIndia, 14th February 2005. My experience taught me many fascinating things. Leica microscopes are the best in the world. I learnt many advanced microscopy techniques. I gave some valuable inputs too. I could travel and visit all well

known research institutions in India like IITs, IISERs and NISERs. Looking at my commitment I was also offered an opportunity to go abroad. My senior Dr. Bhalerao introduced me to Dr. Abhijeet from Seattle, USA where, on 5th April 2010, I went to take training in sleep sciences and came back to establish International Institute of Sleep Sciences (IISS) in India. Dr. Abhijeet is managing



director of this institute and I took charge as director.

**Aashvin:** Wow sir, that was indeed an inspiring story to listen to. We would like to know about your responsibilities as a director at IISS. Also as a sleep specialist, what measures would you suggest to maintain a healthy sleep cycle?

Answer: Sure! Sleep sciences is a lesser known and explored field today. There are almost 84 sleep disorders known till date and fortunately all can be treated and cured. It is proven without doubt that the heart is the thinker and not the brain! An interesting experiment done by a language student turned medical doctor, MacCarty.. explains this. In an electrically connected rat, the heart seemed to send more signals than the brain under emotional stress. We do many such experiments here. We can even tell you what sort of thoughts are running in your mind using advanced technology and age old scientific wisdom. We are into research for patient care. For maintaining a healthy cycle, the secret is - 'follow the natural cycle!' Get a good night's sleep. One spends 1/4th to 1/3rd of life in sleep. This time decides the rest of the life. So don't neglect it. Proper diet, Proper sleep and Proper exercise will increase productivity by at least 25%.

Parnika: Sir, we all know that Yoga is an age-old Indian cultural part for fitness but it is only in recent years that people all over the world have started understanding its importance and

celebrating yoga day. Sir, you have been practicing yoga for almost 3 decades as a trained professional, teaching it to people from all walks of life. How was your experience working with people from diverse walks of life?

**Answer**: Yoga is a way of life! Yoga teaches 'yama' and 'niyama'. Yama relates with five rules that make you a good citizen and following 'niyama' makes one a good human being. I was fortunate to have taught these things to jail inmates and saw a great change in them. I have observed that underprivileged people learn yoga much faster and see results earlier than educated people. Educated people have prejudices to receive knowledge with an open mind. We call it 'yoga sanskar'.. Educated people take it too personally. They would start on a note, "we don't need any sanskar.. we already have!" Anyway what I meant is, yoga is for all.

We were also guided by Ashok Ranade, a very well known voice artist, for good communication skills which has helped me not only while taking yoga classes but also in treating sleep disorder patients. Yoga changes your life completely.

**Aashvin:** Sir, as you said, teaching was at the core of every role you played. How was your experience working at BNB college of which you are an alumnus?

**Answer :** Coming back to Bandodkar and joining as faculty, I felt top of the world! I strongly believe in gratitude. Many of the things that I have today are because of my school and college. I am still attached to my school too. Infact my daughter also completed her education in the same school. At Bandodkar, principal at that time, Dr. G. V. Kulkarni sir taught me many things. I was a very naive faculty member. I feel great to have learnt through the experiences I have not only in Bandodkar College but also at various other colleges like CHM, Pendharkar college, D Y Patil Institute etc.

**Vaishnavi**: Sir, I am more curious to know what made you curious about social psychology? Do you see a specific change in the type of cases you have seen in the old days and the ones you see today? Many people have been affected mentally in the pandemic. What different kinds of cases did you encounter during this pandemic?

**Answer**: Definitely! The cases seen earlier and during pandemic were different. During the pandemic, the fear factor increased to a great extent. As a counselor, I could just replace this fear factor with some positivity rather than completely removing it. Counseling is not about teaching or preaching. In fact it is just listening. I did the same thing. When you are in a confused state, a counselor would help you unwind the tangled threads of thoughts by giving a new perspective to look at the problems in your life.

**Shruti**: You have been very active in environmental awareness Sir. How challenging is it to run the NGO- ENVIRO-VIGIL for the past 14 years as a director? That too while balancing your other professions like teacher, social psychologist?

**Answer:** After the foundation of Envirovigil, for the first six years, I gave almost the entire time to the establishment of this institute. I have stayed in a jungle in the area of Bamnoli. I started a

project named 'Nisargayan' to support local people to provide them with an alternate income source. We started a forest nursery with local seeds and plants. We started natural farming, aquaculture, poultry farming and various other projects. It could be a nice place to have nature tourism. Nature has a solution to all our problems. We learn such things only in such an environment.

I didn't believe in my capacities of handling so many responsibilities. Yoga taught me to see myself as a third person. All the opportunities came to me and I didn't hesitate to take it. I just learnt to categorize my work as per my preferences. It helped a lot.

**Parnika**: Sir, any words of wisdom that you would like to give to youngsters who wish to take upon life sciences as a career choice or students who have already chosen life sciences?

**Answer**: First and foremost, they have to understand that 'Nothing comes easy, big and quick'.. There are no shortcuts! And the way I said .. Proper sleep, diet and exercise! Nothing else they have to worry about! A very good habit that they can inculcate is to take a review the entire day! Introspection helps in having a better version of self.

**Shruti**: Thank you very much for your precious time. It's an honor to meet and learn from you. It has been an eye-opening and inspiring experience for us. It made us realize that One should always be open to learning, exploring, keep going and never give up. Thank you once again!

Mr. Aashvin Das SY Micro

Ms. Shruti Gudekar TY Biotechnology

Ms. Parnika Sansare
TY Biotechnology

Ms. Vaishnavi Karande SY Micro

Guiding Teacher : Ms. Sayali Daptardar

(Incharge & Assistant Professor, Dept of Biochemistry)

Winner's Corner

# "Ways to Achieve Peace in Our Country"

Grown - up individuals tend to transfer the responsibility for their lives to parents, family, partners, friends, bosses, government & supernatural powers. In the best cases, the other people cannot know how you want to live your life. They make decisions concerning your life from their view & often bring you only disappointment. It leads to your anger & frustration which translates to other people, which evokes the same feeling in them and this becomes an avalanche of discontent hatred & aggression.

Moreover, sometimes people use your indifference to decision making to satisfy their goals, which sometimes are evil & inhumane and this causes wars. Want to stop it? Begin with yourself, take control of your life & be responsible for your decisions. It is a 100% guarantee of coming closer to world peace.

When peace & harmony are maintained, things will continue to run smoothly without any delay. Moreover, it can be a saviour for many who do not wish to engage in any disrupting activities or more. While war destroys & disrupts peace builds & strengthens as well as restores. Moreover, peace is personal which helps us achieve security & tranquillity & avoid anxiety & chaos to make our lives better.

There are many ways in which we can maintain peace at different levels. To begin with humankind, it is essential to maintain equality, security & justice to maintain the political order of any nation. Further, we must promote the advancement of technology & science which will ultimately benefit all humankind & maintain the welfare of people. In addition, introducing a global economic system will help eliminate divergence, mistrust & regional imbalance.

It is also essential to encourage ethics that promote ecological prosperity & incorporate solutions to resolve the environmental issues. This will in turn share success & fulfil the responsibility of individuals to end historical prejustices.

Peace is the path we take for bringing growth & prosperity to society. If we do not have peace & harmony, achieving political strength, economic stability & cultural growth will be impossible. Moreover, before transmitting the notion of peace to others, it is vital for us to possess peace within. It is not a certain individual's responsibility to maintain peace but everyone's duty. History has been proof of the thousands of wars which have taken place in all periods at different levels between nations. Thus we learned that peace played an important role in ending these wars or even preventing some of them.

If we take a look at all religious scriptures & ceremonies you will realise that all of them teach peace, mostly advocate eliminating war & maintaining harmony. All of them hold out a sacred commitment to peace. It is after the thousands of destructive wars that humans realised the importance of peace. Earth needs peace in order to survive. This applies to every angle including wars, pollution, natural disaster, caste discrimination, gender discrimination, etc.

We must also adopt a mental & spiritual ideology that embodies a helpful attitude for expressing friendship to spread harmony. We must also recognize diversity & integration to enhance our different emotions.

Ms. Khushbu Yadav SYBSc. CZ

First Prize in Intercollegiate Essay Writing Competition

Organised by NSS Unit of B.N. Bandodkar College of Science (Autonomous), Thane.

# Justice Must Reach The Poor

Justice is a concept of moral rightness based on law, rationality, ethics, equity or religion. It is also the act of being fair and just. The question is how many are following the path of justice. We live in the materialistic world where ethics, laws and order etc. are less cared about. Everything can be purchased with money, even love and respect. People generally measures other on scale of richness the more rich a person is the more will be his love and respect in the society and vice-versa

"In a country well governed,

Poverty is something to be

Ashamed of In a country

Badly governed, wealth is

Something to be ashamed of"

People with lack of money suffer everywhere; they not only struggle for their survival but also find it hard to earn respect in society. Being poor is the curse, but people with no money end up doing low paid job with no bright future .We can see examples of many domestic workers who works hard day and night in the same household throughout their life

Money can buy anything such as joy, freedom and respect. Imagine a country where all citizens are aware of their right and work only at those places where they are paid fairly in order to get the work done

We are the one responsible for our world. Change from us can ultimately change our society for better .Pay fairly to your workers at home and office, treat them with respect. It is only because of their hard work that we lead a peaceful life. Educate them about their rights .Even encourage your kids to treat them nicely.

'Justice is Truth in Action.'

Ms. Amruta Pandurang Thombare

FYBSc., PMS

First Prize in Intercollegiate Short Story Writing Competition

Organised by DLLE Unit of B.L. Amlani College of Commerce and M.R. Nathwani College of Arts under Elysium Fest.

## Finding Out Who I Am

*Finding a way through life often with closed hands Indecision forming clouds enveloping life's demands Never a day goes by where I don't wonder what's next* **D**oes the path already travelled put my life into context *Idealistic* way of life often viewed through a wide lens Never settled always learning from life's many lessons *Growing late into myself I fear a lost adolescence Outside I stand barefoot feeling the earth under me* Unsure close my eyes with head back trying to see Turning my hands out I raise my arms feeling free Wind blows bringing about the rain as I stand resolute *Healing as my feet sink into the muddy earth I salute Opening my eyes as the rain clouds part I do conclude Insight into what's still to come I accept and regroup* Ambling along with hands in pockets it's time I borrow *Meandering along I'm now looking fo*rward to tomorrow.

> Ms. Iqra Naikwadi SYBSc. BZ

Second Prize in Intercollegiate Poetry Writing Competition
Organised by English Club St. Teresa's Institute,
Santacruz (West), Mumbai.

## विजेता

ग्रामीण बाज, गावाकडच्या गोष्टी, सामाजिक संदेश यापिलकडे जाऊन मराठी चित्रपटांमध्ये आता वेगवेगळे प्रयोग होऊ लागलेत. अमोल शेटगे दिग्दर्शित 'विजेता'ने या रेषा अजून गडद केल्या आहेत. स्पोर्ट्स ड्रामा मराठीत फार कचित बघायला मिळतो. पण या सिनेमात दिग्दर्शक अमोल शेटगेंनी ज्या पद्धतीने हे विश्व उभारलं आहे ते लाजवाब आहे.

मैदानावरचा रोमहर्षक थरार या सिनेमात आपल्याला बघायला मिळतो. या सिनेमात एकापेक्षा जास्त खेळांचा थरार आपल्याला बघायला मिळतो. सुबोध भावे, सुशांत शेलार, पूजा सावंत , मानसी कुलकर्णी, प्रीतम कांगणे, सुहास पळशीकर, अजित भुरे, माधव देवचके, दीप्ती धोत्रे, तन्वी परब, देवेंद्र चौघुले, अनुराधा राजाध्यक्ष लिलत सावंत अशी भली मोठी फौज या सिनेमात आहे.

महाराष्ट्र स्पोर्ट्स अकॅडमीच्या डीन वर्षा गायकवाड (मानसी कुलकर्णी) यांना काहीही करून यंदाच्या नॅशनल गेम्समध्ये महाराष्ट्राचा झेंडा फडकवायचा असतो त्यामुळे सौमित्र देशमुखची (सुबोध भावे) याची त्या अकॅडमीचा माईंड कोच म्हणून नियुक्ती करतात, पण सौमित्रचा भूतकाळ वाईट असतो. त्याला अकॅडमीतून ३ वर्षासाठी निलंबित करण्यात आलेलं असतं. त्यामुळे हेड कोच भटकळ (सुशांत शेलार) यांचा सौमितच्या नियुक्तीला कडाडून विरोध असतो. काही खेळाडूंना तो सौमित्रच्या विरोधात उभा करतो. ही सगळी आव्हानं असतानाही सौमित्रनं काहीही करून यंदा बाजी मारायचीच हा जणू निश्र्चयच केलेला असतो.

निलनी जगताप (पूजा सावंत), सुनंदा गुजर (प्रीतम कांगणे), सोनिया कर्णिक (तन्वी परब), देवेंद्र जाधवकर (देवेंद्र चौघुले), जगदीश मोरे (गोरीश शिपूरकर), राहुल थोरात (माधव देवचके), सपना (कृतीला तुळसकर), कविता (दीप्ती धोत्रे) या सगळ्या खेळाडूंना एकत्र आण्न तो उत्तम संघबांधणी करतो.

सिनेमाचा कॅमेरावर्क उत्तम आहे. रोहननं संगीतबद्ध केलेलं टायटल साँग आणि लढ रे ही गाणी मस्त जुळून आलीयेत. टायटल साँगचा संपूर्ण सिनेमात बॅकग्राऊंडला उत्तम वापर करण्यात आला आहे. एकूणच काय तर विजेता खऱ्या अर्थानं 'विनर' आहे. विजेता चित्रपट हा नकीच इतर चित्रपटांपेक्षा चार पावलं पुढे आहे.

माईंड कोच सौमित्रच्या भूमिकेत सुबोध भावेनं उत्तम काम केलय. बऱ्याच प्रसंगात त्याची भेदक नजर बरच काही बोलून जाते. पूजा सावंत निलनीच्या भूमिकेत इंप्रेसीव वाटली. प्रीतम कांगणे हिने देखील सुनंदाच्या भूमिकेत चांगलं काम केलं आहे. बऱ्याच वर्षांनी सुशांत शेलारला एवढी चांगली भूमिका मिळाली. त्यानेही मिळालेल्या संधीचे सोने करत जोरदार फटकेबाजी केली. हेडकोच भटकळच्या भूमिकेत सुशांत लक्षात राहतो. सुहास पळशीकररांनीही छोट्याशा भूमिकेत आपली सुंदर छटा उमटवली.

Amruta Pandurang Thombare,

FYBSc., PMS

Third Prize in Intercollegiate Review Writing Competition

Organised by K.J. Somaiya College of Science & Commerce, Vidyavihar

# संकल्प

चलों इस साल कुछ नये संकल्प लेते हैं, बीते साल का दामन छोड़ एक नए सफर पर चलते हैं, गलतियों से सीख और कामयाबियों से हॉसला लेते हैं, चलों नए साल में एक नयीं से उड़ान भरते हैं।

अपने पंखों को थोड़ा सा और फैलाते हैं, सम्भावनाओं के आकाश को थोड़ा और नापते हैं, अपनी हिम्मत और मेहनत की पोटली फिर से बांध लेते हैं, चलो इस साल कुछ नए शस्तों की तलाश करते हैं।

कुछ दम तोड़ते सपनों में फिर से जान भरते हैं, कुछ पुराने बिखरे हुए से रिश्तों को फिर से जोड़ते हैं, शिले शिकवों के झाड़ उखाड़, प्यार के कुछ नए बीज बोते हैं, चलो इस साल अपने खुशियों के दरख्त को जी जान से सींचते हैं।

बीते साल की कुछ उदास यादों को अलविदा कहते हैं, सिर्फ खूबसूरत यादों को साथ आने का न्योता देते हैं, सिसिकयाँ छोड़ किलकारियों को संजो लेते हैं चलों इस साल जीने का अंदाज कुछ अलग सारखते हैं

अपनी सोच और समझ के दायर को थोड़ा और बड़ा करते हैं, ना बन कठपुतली किसी के घथ की चलों अपने मन की करते हैं, भीड़ का हिस्सा ना बढ़न सहीं गलत का अनुमान रखते हैं, चलों इस साल अपनी एक सय कायम करते हैं।

खुद के साथ कुद्रत का भी ध्यान रखते हैं, थोड़ा सा अपनी जीवन शैली में बदलाव करते हैं, छोटे-छोटे कदम ही सहीं, बदलने की कोशिश तो करते हैं, चलो इस साल कुछ नहीं से संकल्प लेते हैं।

> Manas Bhande SYBSc. Microbiology

First Prize in Intercollegiate Poetry Writing Competition Organised by Ghanshyamdas Jalan College of Science

# चलो घूमे कुदरत की गलियां।

जहां सूरज हंसकर रॉज निकलता और खिल जाती फूलों की कलियां जहां वायु सुर में गाना गाता और कल कल करती सारी निदयां चलों घूमें कुदरत की गलियां।

जहां प्राणी आपस में बातें करते और चह चहाति सारी चिड़ियां जहां बारिश की बूंदे धरा भिगोती और झूम उठती पेड़ों की डिलयां। चलों घूमें कुदरत की गलियां।

जहां हर फूल खुशब्दार होता और महकती सारी बिगया जहां कानों में मधुर आवाज में आती मानो किसी बच्चे की किलकारियां चलों घूमें कुदरत की गलियां।

जहां मानव का ना हो कोई अड़ंगा एक कुदरत का बस लहराए झंडा जहां कारों का ना हो कोई शोर शराबा और ना हो कोई फैक्ट्रियां चलों घूमने कुदरत की गलियां।

**Atul Singh** 

TYBSc. Botany

First Prize in Intercollegiate Poem Writing Competition
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# वपुर्झा

वसंत पुरुषोत्तम काळे, म्हणजेच व. पु. काळे, ह्या नावाने प्रसिद्ध असलेले बहारदार व्यक्तिमत्त्व, जे एक सुप्रसिद्ध लेखक, काथाकथनकार, आर्किटेक्ट, एवढेच नव्हे तर ते एक अप्रतिम हार्मोनियम व व्हायोलीन वादक होते त्याचबरोबर उत्तम रिसक व छायाचित्रकार होते. वपुंचा जन्म २५ मार्च१९३२ रोजी झाला व निधन, २६ जून २००१ ला झाले. ह्याच बहारदार लेखकांचे, त्यांच्याप्रमाणेच उत्कृष्ट लेखनातून आपल्याला मिळालेले एक पुस्तक – 'वपुर्झा'.

मेहता पब्लिकेशन हाऊस प्रकाशित हे पुस्तक, अप्रतिम व आगळा वेगळा लिलत गद्य आहे. अनेक ललीतलेखांमधून 'वपुझी' ह्या पुस्तकाने मला खूप प्रभावित केले आहे. उस्फुर्त करण्याची सुरुवातच पुस्तकाचे मुखपृष्ठ करतो. मुखपृष्ठावर एक रिकामा पेला आहे, स्वतः वपुंनी टिपलेले चित्र, त्यांनी खूप सुंदरित्या समजावून सांगितला आहे. इथे मनाला रिकाम्या पेल्याची उपमा दिली आहे. आपल्या मनाला दैनंदिन होणारी जळमट, द्वेष, स्वतःबाबतच्या मोठेपणाचा भ्रामक, अशा सर्व कल्पना दूर करून आपण नेहमी आपले मन नव्या, चांगल्या गोष्टींसाठी, विचारांसाठी रिकामा ठेवला पाहिजे. तसेच वपु म्हणतात की आपल्या वाचकांचे मन सुद्धा असेच रिकामे असले पाहिजे, नव्या विचारांसाठी व त्याचबरोबर वपुंसाठी सुद्धा जागा द्यावी, जी बेशक त्यांनी घेतली आहे!

एका पानानंतर पुढचे पान वाचणे ही सर्वसाधारणपणे पुस्तक वाचायची रीत असते, पण 'वपुर्झा' वाचताना ही रीत पाळावी लागत नाही. करण ह्या पुस्तकाची गंमत अशी आहे की कुठलेही पान उघडा... आणि वाचा; एका बैठकीत वाचा, िकंवा जेव्हा वेळ मिळेल तेव्हा. सलगपणा, िकंवा एक मजकूराचा, दुसऱ्याशी काही संबंध नसतो. नाही ह्या पुस्तकाला अनुक्रमणिका, नाही संदर्भ; पण जेव्हा वाचाल तेव्हा नवे काहीतरी उलगडाल, नवे अनुभवाल. एखादा सुगंध पुन्हा घ्यावासा वाटला तर...? पुन्हा शोधायचे, त्या शोधात आणखी नवे काहीतरी सापडेल.

आपल्या जीवनात काही अनुभव येतात, किंवा काही विचार येतात, पण आपण त्या विचारांकडे दुर्लक्ष करतो.ह्या पुस्तकात वपुंनी जीवनात येणाऱ्या विचारांची, अनुभवांची, शंकांची व त्यावरच्या समाधानांची अचूक मांडणी सोप्या शब्दात केली आहे. काही मजकूरला विनोदाची झालर, काहींना मार्मिकतेचा ओलावा, तर काहींना सत्याची धार जाणवते. हे पुस्तक तुम्हाला प्रत्येक ओळीत स्वतःच्या अस्तित्वाची, खरेपणाची व महत्वतेची जाणीव करून देते. तुम्ही आहात, तर हे जग आहे. 'वपुझी' आपल्याला विचार करायला प्रवृत्त करते. करमणुकीबरोबर विचारांचा आहेर सुद्धा वपु देऊन जातात. वपुंनी खूप सुंदर लिहिलंय,

'साहित्य हे निव्वळ चुन्यासारखं असतं,

त्यात आपल्या विचारांचा कात टाकल्याशिवाय, आपल्या आयुष्याचा ग्रंथ रंगात नाही...'

'वपुर्झा' एक आनंदानुभव आहे, आयुष्य किती यापेक्षा 'कसं' जगाव हे 'वपुर्झा' सांगून जाते. जीवनाकडे सकारात्मक व आव्हानात्मक दृष्टीने पहावं हे शिकवून जाते. विशेष म्हणजे ३५ -४० वर्षांपूर्वीचे वपुंचे लेखन आजही आपल्या जीवनाशी तंतोतंत लागू होते. त्यांची लेखनशैली किती तगडी अन असीम होती हे 'वपुर्झा' वाचताना जाणवते. आयुष्याची व्याख्या, ह्या लेखनगुच्छात फुलून आली आहे त्याचा सुगंध आवर्जून सर्वांनी घ्यावा.

#### Isha Pisal

SYBSc., Microbiology First Prize in Book / Documentary Review Competition Organised by College Magazine and Wallpaper Committee.

# 11 year old pregnant women? OR 11 year old children having children?

Film by : Irene Baqué
Courtesy : The Guardian

#### Content

The intriguing title is just a glimpse of the following documentary.

'they're pregnant at 11 years old': the women smashing Catholic taboos in the Philippines, Being the original title of the documentary film is shot in the Philippines by Baqué and team.

The film revolves around women getting pregnant at an unusual age and even after suffering, they're avoiding contraceptives for religious and cultural beliefs. The Philippines government has equal protection laws for the mother and the unborn child. Meaning abortion is not allowed under any circumstance! There are no emergency contraceptives even for rape victims. Women use inhumane techniques like punching the stomach or inserting barbeque rods through the vagina to puncture the foetus in order to abort the child. The age goes as down as 12 year old to have given birth, that too a rape victim. The film shows how the government wants women to be ignorant towards their sexual reproductive health because if not, empowered women would fight for their rights. Overall the film has very tragically summed up lives of Filipino women who don't even get to have basic rights over their sexual reproductive body.

#### My Personal Opinion

The director has precisely highlighted the parts where Filipino people casually refer to 11 year old girls as WOMEN. Cameraman has engagingly captured the emotions in the eyes of every woman in this film. An 11 year old mother OR a mother of 11 children. We can virtually feel sympathy for the helplessness of Dr. Mary towards the suffering girls. The actual view inside the world's busiest Fabiolla maternity hospital in Manila, Philippines was wholesome for me.

#### Critique

Director could have shown men's opinion of women's condition in the society.

The film includes more middle class and poor women, according to me, to which they should have also added rich/well-off women's take on this situation as well.

#### Conclusion

The film covers a large aspect of the dark side of the Philippines which many people are unaware of. I'm in awe at how the story is put up in a very easy to understand way.

Overall, the country severely lacks knowledge about STI s and contraceptives for BOTH men and women. The government should take in mind that whether to keep the baby or not should be solely the mother's decision and not the government's.

Lastly, we don't want kids to have kids, do we? And to avoid it, we should actively start sex education lectures from secondary section onward itself. The film is an eye-opener and a must watch!

Kinnari Londhe, SYBSC (Human Science)
First Prize in Book/Documentary Review Competition
Organised by College Magazine and Wallpaper Committee.

# **Everything is Possible**

The title of the book is "Believe in Yourself". It is written by Dr. Joseph Murphy, born in Ireland. He was a science minister and author. He is the author of the power of your subconscious mind. He has published More than 30 books.

In this book Dr. Murphy States about having faith in your abilities, believing in your inner self and having the courage to achieve your goals. It is a self-help book.

The title of the book "Believe in Yourself" itself gives us a pretty good idea of the topic of the book. Believing in yourself means Having faith in your capabilities. Everything is possible for you according to your abilities. First part of the book is "Make your dreams come true". In this part Dr. Murphy talks about the power of imagination. When a person with lack of imagination tries to achieve their goals, they are quick to give up but the person with the power of imagination never gives up. There is only one word between imagination and result and that is action. To achieve your goals, you have to take the right action according to your imagination Second part of the book is "using the subconscious mind in business", and it states that: the man is a result of his own thoughts. A person becomes what he feels he is or what he imagines himself to be. Third part of this book is "How to imagine success?" In this world there are so many things you can do to win anything you want. God has already provided you the power of wisdom. You just have to use this power with the right mental attitude in order to rise over all the difficulties and win. Author also advised us to believe in divine powers. The only flaw in this book is that the phrases used in it are taken from the Bible so those who have not read the Bible will have some difficulty in understanding this book.

The conclusion of this whole book is everything will be possible if we believe in our inner mind and try hard to fulfil our dreams using imagination. A quote used in this book: "The first step towards your goal is the birth of the idea in the mind. The second step is the manifestation of the idea."

Mrunal Kosbe FYJC (CS)

Second Prize in Book/Documentary Review Competition
Organised by College Magazine and Wallpaper Committee.

# The Importance of Financial Literacy

'What the rich teach their kids about money that the poor and the middle class do not!'

If the lines excite you then you should definitely read one of the greatest nonfiction, Personal Finance book 'Rich Dad Poor Dad' written by the American Businessman 'Robert T Kiyosaki.'

Personal finance books help us to manage our money in a better manner. They can also teach us how to invest, manage a mortgage, create a nest egg, save for retirement, and ultimately help us to overcome common money pitfalls to foster a healthy relationship with our money.

'Great opportunities are not seen with your eyes, they are seen with your mind.'

This book teaches readers how to adopt the right mindset for building wealth, teaches us the importance of financial literacy, how one can become financially independent and motivates the readers to start his or her own business. Reading 'Rich Dad Poor Dad' is an amazing investment of time. This book changes your mindset to become more financially independent.

According to the writer the main reason why people struggle with financial problems is because they spend several years in school but learn nothing about money and investments. The result is that people learn to work at the service of money but never learn to put money to work for them.

'Your future is created by what you do today, not tomorrow.' This is one of the greatest lessons that I have learnt through this book.

The main message that the book 'Rich Dad Poor Dad' gives is how to use money as a tool for one's development and it also destroys the biggest myth that the rich are born rich. Get out of the rat race. Learn how to seize opportunities, find solutions, take care of your business and investments and most especially, learn how to make money work for you and not be its slave!

Sarita Gupte

SYBSc. (CS)

Third Prize in Book/Documentary Review Competition Organised by College Magazine and Wallpaper Committee

# The show doesn't end until the Mockingjay sings

The Ballad Of The Song Birds And The Snakes written by Suzanne Collins.

The topic of the book is the Hunger Games.

The book is based upon the timeline of the dark era that had taken place after the uprising by District 13. The capital started contesting an annual event called the hunger games to punish the districts for the attempts to overthrow the capital and for the capital to show that they had superiority in the country of Panem. In the games every year a girl and a boy tribute of every district are selected on the base of lots and the selected 24 tributes were to be put in an arena to face each other in a battle till death the one who survived was decided a victor.

The plot in this book starts at the occasion of the 10th annual hunger game long before the story of the trilogy of hunger games and Katniss Everdeen. The story begins with the introduction of the president of Panem Coriolanus Snow, but a student of the academy in the timeline. A class at the academy had been given a task to be mentoring this year's tributes. The protagonist Colonies has the girl tribute of district 12 Lucy Gray Braids. The story takes many turns around the relationship between Lucy and snow. Snow's relationship with other characters is worth looking into. For anyone who has read the trilogy, it is a wonderful experience to know how the hunger games as of today had started, the snow, the cruel and cold president of Panem as a young teenager, and the many reasons behind his actions.

As of all the book is a good read for whoever is interested in a genre like gore, dystopian, suspense, thriller, and action. But the book has its shortcomings: the hunger games weren't elaborate enough unlike in the trilogy. The story fell short on many plots and has failed to convey a proper message to the readers. The ending of the book seems rushed and not appropriate for the recent events in the plot.

In all, if anyone is interested in reading the book it does have its own merits and demerits. But I highly recommend the book for anyone who has read the trilogy, the book is just the perfect cherry on top needs for the trilogy

Mrunmayee Thakur

SYJC

Consolation Prize in Book/Documentary Review Competition

Organised by College Magazine and Wallpaper Committee

# Green Energy - Need of The Hour

In this hectic and busy world, man requires a lot of energy to sustain in his life. For many years, man was using energy from fossil fuels on a large extent. But now he needs a lot of energy for his daily life. But now it's devastating effects are being seen in the form of global warming. Moreover, the limited reserves of fossil fuels will soon be depleted. And the demand for these fuels is increasing day by day. And so, we must know both the production and utilisation of renewable energy. It is very important to look for various types of renewable energy such as solar energy, wind energy, biofuels, energy generation from waves and geothermal energy at present. To some extent, we produce hydro power. But the man has neglected that forests are being destroyed by him to obtain energy. Such energy is therefore not sustainable. Renewable energy, however, is green energy and is pollution- free. Its use does not harm the environment and is renewable. So now we need to use similar energy.

India is the only country in the world to have a separate ministry to work on renewable energy. 'Ministry of New and Renewable Energy'. Looking at the reports of the last five years, some things need to be appreciated. The largest renewable energy expansion programme globally is being held in our country by 2022. We aim to generate 175 GW of energy by 2022 & we have a government policy to take the same capacity to 450 GW by 2030.

Tamil Nadu, Gujarat and Rajasthan are at the forefront of the production of solar energy and wind energy in India. Karnataka and Maharashtra are becoming more and more capable in terms of wind energy. In recent times, Ladakh has been building the largest solar farm globally. Silicon cells and other tools required to produce solar energy are now available at a fairly low price. Therefore, renewable energy capacity has increased by 226 per cent in the last five years. India has generated 367 GW of renewable energy by February 29, 2020. This accounts for 23.39 per cent of the total energy generation capacity.

Solar power generation has moved from 2.6 GW to 34 GW in the last five and a half years. This shows that we are becoming increasingly capable of renewable energy. Our country is now playing an important role in the International Solar Alliance as well. We can also avoid the crisis of climate change by producing and using the right kind of renewable energy for the prosperity of the environment.

Bhoomi Hemant Salelkar
FYJC. Science
First Prize in Essay Writing Competition
Organised by College Magazine and Wallpaper Committee.

# Fruit and vegetable waste - the unrecognised heroes

As the world is evolving, People are becoming increasingly aware or to be precisely conscious about their health and calorie intake. Enormous efforts are being made to make food more nutritious. We do try to make our diet healthy but are we utilising the fruits and vegetables (crucial aspects of our diet) sustainably?

The answer is no. We simply throw away the scrap. We can see so much wastage of food in big parties, weddings, etc. We fill our plate to the fullest but we don't think whether we will be able to finish it. A lot of food is wasted on a daily basis. Around 25 to 40 % of food that is grown is not eaten. So, the first step for the sustainable use of food is "Being conscious" about wastage and "the will to conserve food". We know that "where there is a will, there is a way". So, we must avoid preparing and taking food in excess as many people don't even get the half of what we are getting. Talking about the fruits and vegetables that we consume daily, we have a lot of scope to conserve!

Yes, we can reuse most of the fruit and vegetable waste at our home without wasting much time. Most vegetable peels, skins like carrot ,beetroot, garlic, onion, tomato, broccoli potato,etc can be used to prepare vegetable broth or stocks. We can prepare natural fabric dyes (beet ends for red colour, red cabbage for blue colour, spinach for green colour). Tomato peels, cores and juice can be used to prepare homemade tomato sauce. Apples, strawberries and avocado's skin can be used to extract jam. Cucumber peels can be used to deter ants by placing it at the entrance. Leftover scraps of fruits can be boiled in a minimum quantity of water and used as an air freshener which will give your home a nice "fruity fragrance". Dry lemon and orange peels when mixed with vinegar can be used as homemade cleaning solution. Banana peels dissolved in water for a few days act as a potassium and phosphorus rich compost for plants and also used for polishing leaves as well as shoes and silverware. Chewing orange peel helps get rid of bad breath. Watermelon rinds possess an anti-acne mechanism. Potato peels are useful for fighting boils, sore eyes, sunburn and infections. These leftovers can also be used for decorating plates.

The rest which we can't use can be converted into biogas or fed to livestocks or making compost. Compost can be prepared at home just by using a bucket and making holes in it. But we need to be careful while segregating dry and wet waste. So, the reduce, reuse and recycle principle works well and helps in the sustainable use of fruits and vegetables.

Siddhant Ajay Pradhan
TYBSc.Human Science
Second Prize in Essay Writing Competition
Organised by College Magazine and Wallpaper Committee

# बचपन या बोझ

बचपन जीवन का ऐक ऐसा समय जब मनुष्य को किसी प्रकार की चिन्ता या फिक्र नहीं होती; भूख लगने से पहले मनभावन व्यंजन बच्चों के आगे परोस दिये जाते हैं। बाजार में यदि कोइ खिलौना उन्हें पसंद आजाएं तो मजाल है की वे उससे लिए बिना मानजाए, वे हाथ पकड़ के आपको जरूर उस दुकान पर ले जाएंगे जहां उनके मतलब की चीज रखी हुई हो फिर जेब मे रखे हुए पैसे और अस वस्तु की कीमत से उन्हें तो कहां कोई फर्क पड़ता है। आजकल तो मां बाप बड़े से बड़े स्कूल में अपने बच्चों का दाखिला करवाने के लिए एडी चोटी का जोर लगा देते हैं, की बच्चा बड़ा होकर डॉक्टर या इंजीनियर बनेगा। अधिकांश बच्चों के लिए बच्चन राजभोग से कहीं कम नहीं होता।

पर क्या हमारे समाज में सभी बच्चों का बचपन इतना सुनहरा है? जी नहीं जैसे ही हम सिक्के के उस पहलू पर जाते बचपन की सारी परिभाषा ही बदल जाती है।

कहीं किसी मासूम के हाथ जूते पॉलिश कर रहे हैं, कही किसी मेज़ को साफ करते नन्हे हात, जिन हाथों में क़िताब और कलम होनी चाहिए, जिन कंधो पे बस्ता होना चाहिये न जाने कौनसी ऐसी मजबूरी जो उन कंधो को ईट पत्थर ढोने पर मजबूर कर रिह है। जिन आंखों में सुनहरे सपने होने चाहिए क्यों उन आंखों में भय नजर आता हे ? इस भय का कारण कुछ और नहीं 'बाल मजदूरी' हे।

बाल मजदूरी समाज के लिए किसी श्राप से कम नहीं। एक ऐसा दानव है जो न जाने कितने सपनों, कितनी किलकारियां, कितने ठहाके के अपने पांव तले रौंद चुका है। बाल मजदूरी के कारण असाक्षरता बढ़ती हे जिसे निजी और सामाजिक विकास में खलल पड़ता है। समाज में फैले इस अभिशाप ने न जाने कितने बच्चो से उनका बचपन छीना जिस कारण शिक्षा के अभाव से उनके आगे का जीवन भी व्यर्थ हो गया। जिस उम्र में भूख क्या है इसका पता ही नहीं होता उस उम्र में यह नन्हे मजदूर भूख लगने पर अपनी कमीज से अपना पेट ढक कर सो जाते हैं। दिन भर किए जाने वाले बेजोड़ मेहनत का सही सही कीमत भी नहीं लगा पाते ये मासूम जिसका फायदा कुछ बेरहम बड़े शौक से उठाते हैं। इस लाचारी और बेहरेमी की धीरे धीरे आदत सी पड़ जाती है उन बेचारो को और अपने इस हालत पर उनकी आंखे रो रो कर आखिर पथरा जाति हैं।

इन मासूमों का जो बचपन होता है वह बचपन तो नहीं पर एक बोझ जरूर लगता है।

आज पूरे समाज की जिम्मेदारी है कि बाल मजदूरी नाम के इस जहरीले वृक्ष को जड़ सिहत उखाड़ फेंके। उन मासूमों को उनकी हंसी लौटाना केवल सरकार, शासन, प्रशासन का नहीं बल्कि हम सबकी जिम्मेदारी है। यह आज हमारा उत्तरदायित्व है कि उनके कंधों पर से हम उस बाल मजदूरी का बोझ उतार दें।

किसी मशहूर शायर ने लिखा था .. संसार में कुछ तो अच्छा रहने दो, जो बच्चा है उसे बच्चा रहने दो।

Atul Singh
TYBSC (Botany)
Third Prize in Essay Writing Competition
Organised by College Magazine and Wallpaper Committee



Shreyas Phansekar



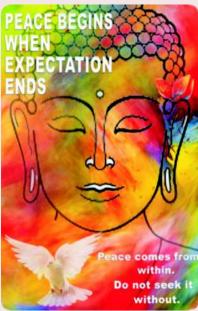
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